GIMA 2010

INTERNATIONAL CATALOGUE
PROFESSIONAL MEDICAL PRODUCTS

- HEALTH-CARE
- HOLLOWARE & SURGICAL INSTRUMENTS
- MEDICAL BAGS
- SCALES & MEASURES
- PATIENT AIDS
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- ELECTROMEDICAL
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- ELECTROSURGERY
- LOUPES & MIRRORS
- MEDICAL LIGHTS
- DIAGNOSTICS
- AUDIOMETRY & SPIROMETRY
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CATALOGUE 2009-2010 UPDATE

WIRELESS ECG   page 148

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GIMA

GIMA COLPOSCOPE

• 29600 COLPY - GIMA COLPOSCOPE
Easy to use halogen colposcope mounted on a 5 wheels base.

TECHNICAL SPECIFICATIONS
Magnifying: 6.2X with standard 10X eyepieces
Optic system: stereo with inter-pupil adjustment and optic head at 45°
Illumination: halogen dicroic bulb 12V - 12W
Working distance: 26 cm
Operating voltage: 230 V (available on request 115)
Norms: CLASS I Type B - IEC 601-1 CE 93/42/EEC. Made in Italy

• 29601 CAMERA CONNECTOR
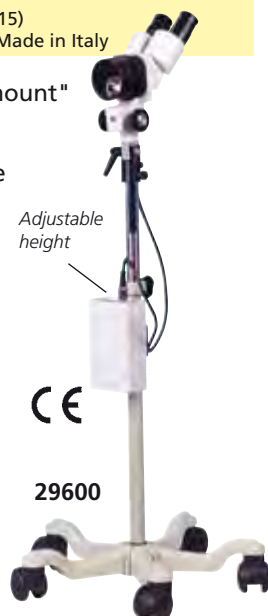To connect a camera with standard "C mount" to GIMA colposcope.
• 29602 COLPOSCOPE CAMERA
Specially designed for COLPY colposcope
• 29610 COLPOSCOPY SOFTWARE

TECHNICAL SPECIFICATIONS
Camera sensor: 1/3 CCD
Resolution: 480 lines
Sizes: 85x53x145 mm (head 36x40x30 mm)
Power: 230 V - 50/60 Hz

Adjustable height

29600

# ALLTION LED COLPOSCOPE

• 29612 ALLTION LED COLPOSCOPE - 9X
• 29613 ALLTION LED COLPOSCOPE 3,75X, 7X, 15X - > 28,000 LUX
A high quality and complete colposcope that offers excellent optics and cold, longlife white light. Compact, lightweight and easy to use it offers superior quality at a very competitive price.
Thanks to a special universal Teflon® ball joint, it gives to user 360° easy motion for gross focus. Comes completely assembled and ready for use.

Individually adjustable eyepieces
Green filter activator
Head tilt adjustment knob
Gross focus and fine height adjustment handle
Two circles for measuring size of tissues
Fine focus adjustment handle
Gross height adjustment knob
360° motion
Power indicator
On/off switch

TECHNICAL SPECIFICATIONS
Magnification 9x (29612) or 3,75x, 7x, 15x (29613)
Focus length: 316 (29612) or 300 mm (29613)
Field of view: diameter 22 mm or 30.93/15.50/7.64
Depth of field: > 4 mm (29612) or 18/4/2 mm (29613)
Light intensity: > 10.000 lux (29612) or
> 28.000 lux (29613)
Interchangeable adjustable eyepiece 12.5x
Illumination: longlife 5.9V / 5W LED
Superior optics with individually adjustable eyepiece
Built-in rheostat for brightness adjustment
Easily changeable, LED bulb
User-selectable built-in green filter
Two (gross/fine) focus adjustament handles
Two (gross/fine) height adjustament handles
(838-1194 mm)
Smooth action control
Main Power:110V/220V

26913

Roller base for easy movement
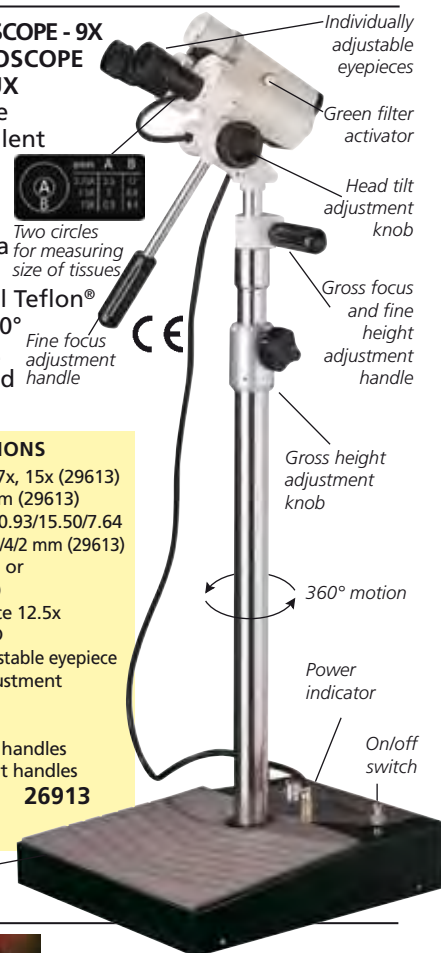
VIDEO COLPOSCOPE SYSTEM

• 29605 NETSCOPE - COLPOSCOPE - 8X
All in one system for videocolposcopy applications: the system includes a CCD camera with integrated 150 watt light source, F.O. cable, ergonomic handle and colposcopy probe.
Main features:
- Excellent image quality
A microprocessor controls the brightness, resolution at 440,000 pixel gives a clear and sharp image. Optical part made in Germany
- Easy to use and handle
The ergonomic probe design and the trolley make it easy to use
- High magnification
Fine adjustment for various applications by focus knob, without the necessity to change the lens
- Flexibiliy
Can be turned into videodermatoscope or videotoscope, just by changing the probe. Easy lamp replacement through door.
• 29608 VIDEODERMATOSCOPE PROBE - 20X
• 29609 VIDEOTOSCOPE PROBE - Ø 4 mm - 0°
• 29610 COLPOSCOPY SOFTWARE
This software allows images acquisition and storage, data and visit management, customized reports printing. MS Win XP, ME, 2000 full compatibility. Videograbee directly connected to the instrument's video source for image acquisition. Multilanguage (Italian, English, Spanish, Portuguese, French) other language on request.
**• 72705 LCD MEDICAL MONITOR - 15" - flat type**
**• 29606 TROLLEY CART -** easily fits Netscope and every kind of flat monitors compliant with VESA 80 standard.
• 29607 FLEXIBLE ARM with stand - this arm is fixed on a tripod support and allows to hang the probe in stable position.

Image freeze function allows to freeze up to 4 images on the screen and immediatly review one of them in full screen size

29605 + 72705 + 29606

Ergonomic handle
Colposcopy probe
29607
Flexible arm

29608   **29609**
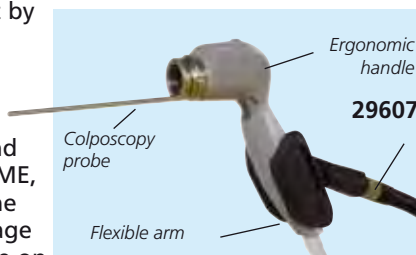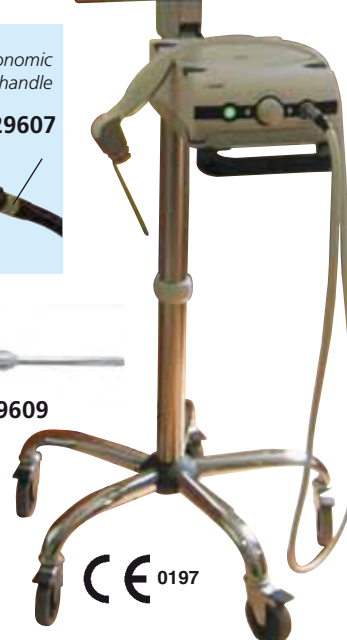
TECHNICAL SPECIFICATIONS NETSCOPE
Camera sensor: 1/3 CCD Sony
Horizontal resolution: 480 lines
Digital signal processing
ACG white balance: AUTO/FIXED
Light intensity: adjustable 0-150 W
Video out: Y/C (S-VHS), composit (BNC)
Cable length: 200 mm

Minimum illumination: 0.5 lux
Power supply: 90-250 V - 50-60 Hz
Basic unit size: 210x92x240 mm
Weight: 3kg
Made in Germany

TECHNICAL SPECIFICATIONS MONITOR CODE 72705
Display: 15"/38,1 cm
            TFT active matrix
Active area: 304,1x228 mm
Resolution: 1024x784 (XGA)
Size: 375x356x210 mm

0197

■ CHANGE-A-TIP™ CAUTERIES WITH HIGH TEMPERATURES

AARON CAUTERIES - made in USA
- Interchangeable sterile tips
- Replaceable batteries
- Reusable handles
- No sterilization necessary

30590
(Fine tip, not sterile, included)

30595

30594

CE 0413

30596

30593

| GIMA code	INTERCHANGEABLE TIP CAUTERIES MINIMUM ORDER: 10 TIPS	Recommended for:
30590	Cautery handle "AA" (tip included)	All tips
30593	High temp loop tip - sterile	DER/ENT
30594	High temp 2"flex loop tip - sterile	GYN/ENT
30595	High temp 5"loop tip - long size - sterile	GYNAECOLOGY
30596	High temp fine tip - sterile	DER/CARDIO

■ REUSABLE HIGH TEMPERATURE CAUTERY WITH REPLACEABLE TIP

CAUTERIES - 1,200°C (2,200°F) - made in Italy
- Interchangeable tips with nickel-crome wire
- Replaceable batteries   - Reusable handles
Wide application in gynaecology, orthopedies, ear/nose/throat, dermatology, plastic and reconstruction surgery.

30598

30599

30601

30600

CE 0086

GIMA code	INTERCHANGEABLE TIP CAUTERIES MINIMUM ORDER: 10 TIPS
30598	Cautery handle "AA" (tip not included)
30599	High temp long fine tip - sterile - box of 10
30600	High temp large tip - sterile - box of 10
30601	High temp fine tip - sterile - box of 10
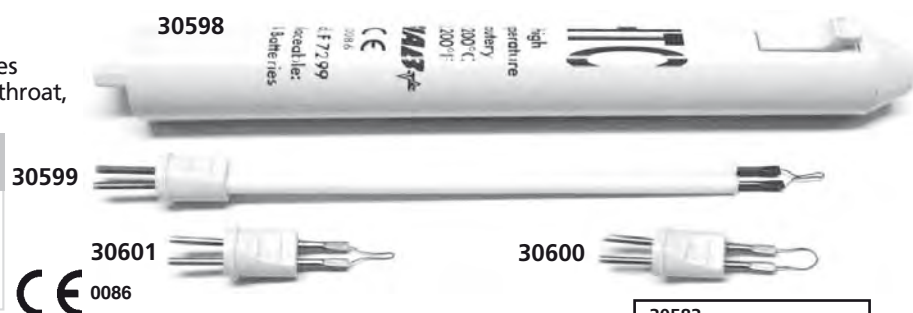
■ HIGH TEMPERATURE ELECTROCAUTERIES

30583

30580
30581
30582

THICK TIP   FINE TIP

• **30580 ELECTROCAUTERY - 1,200 °C - fine tip - made in Italy**
The Electrocautery is a sterile bipolar battery operated disposable device for the cauterization of small vessels; the temperature of the tip is 1,200°C. With a **fine tip** required in most of the surgeries.
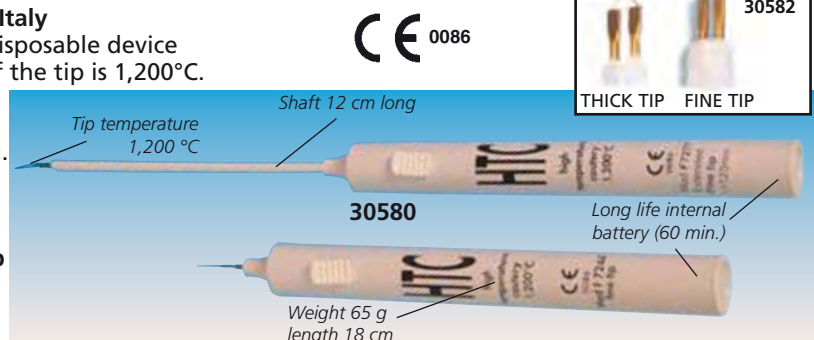• **30582 GYNAECOLOGY CAUTERY - 1,200°C - fine tip**
Same as 30580 but with the tip fixed on a shaft 12 cm long.
• **30581 ELECTROCAUTERY - 600 °C - fine tip**
Same as 30580 but with lower temperature = 600°C.
Expecially designed for ophthalmology.
• **30583 EMERGENCY ELECTROCAUTERY - 800°C - Thick tip**
Same as 30580 but with "thick tip" that permits the perforation of nails in case of haematoma.

CE 0086

Tip temperature 1,200 °C

Shaft 12 cm long

30580

Long life internal battery (60 min.)

Weight 65 g length 18 cm

■ HISTOFREEZER® CRYOTHERAPEUTIC AID
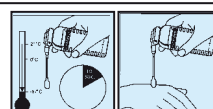
• **30585 HISTOFREEZER® - mini kit**
One 40 ml aerosol bottle, 2 applicators 2 mm and 3 applicators 5 mm
• **30587 HISTOFREEZER® - kit 2 mm**
One 150 ml aerosol bottle and 60 applicators 2 mm.
• **30588 HISTOFREEZER® - kit 5 mm**
One 150 ml aerosol bottle and 50 applicators 5 mm.

CE 0197

■ ELECTRODEPILATOR

• **28340 ELECTRO-DEPILATOR 400**
This device ensures a definitive depilation with thermolitic method. It delivers a current of radiofrequency to cause the heating and consequent coagulation of the papilla, reached through the introduction of a needle into the follicle of the hair. Provided with highly reliable electronic integrated components, with RF intensity adjustable with continuity and luminous working signal.
It comes complete with footswitch, handpiece for depilation, depilation needle and power cable (2 m)

• **30552 HANDPIECE FOR DEPILATION**
• **30560 DEPILATION OR MICROSURGERY NEEDLES**
• **30568 FOOTSWITCH**

TECHNICAL SPECIFICATIONS
RF output frequency: 1.9 +/-10% MHz
Modulation: sinusoidal
Maximum output power: 7 +/-2Watt
Size: 260 x 265 x 110h mm Weight: 4 kg
Operating voltage: 115/230 V - 50/60 Hz. switchable
Norms: CEI 62-39   Class: I-BF

■ MONOPOLAR ELECTROSURGERY UNITS - 50W AND 80W

iNet | esq | CSQ MED | C E 0051

TECHNICAL SPECIFICATIONS		
	30516 - 106	**30517 - 108**
Output power: CUT	50W/400 ohm	80W/400 ohm
COAG	40W/400 ohm	50W/400 ohm
BLEND	45W/400 ohm	60W/400 ohm
MICRO	-	20W /600 ohm
Working frequency:	600 KHz +/- 10%	700 KHz +/- 10%
Size:	180x180x h 100 mm	180x180x h 100 mm
Weight:	2.8 kg	4 kg
Operating Voltage: 115/230 V - 50/60 Hz switchable		
Electric input power:	90 VA	230 VA
Fuse:	2x1 AT	2x2 A
Alarm for overheating	Footswitch operating	
Norms: EN60601-1Class I CF, EN 60601-1-2 93/42/EEC (Class IIb)		
Made in Italy	Warranty: 12 months	

STANDARD ACCESSORIES
KIRKY single-use handle without buttons
Standard foot-switch (30568)
Flat neutral plate with cable (30563)
Kit of 6 short autoclavable electrodes, Ø 2.4 mm, length 5 cm
Power cable 2 m - Shuko plug
User manual: available in English, Italian, Spanish. French 106 only

Footswitch operating

30517

• **30516 DIATERMO 106 - 50W - monopolar**
• **30517 DIATERMO 108 - 80W - monopolar**
These HF electrosurgery units, are particularly suitable for small operations and are recommended for veterinary, dentistry, first aid and dermatology work.
They offer precision of cut and immediate coagulation and give excellent results in a large range of applications: from uterine coagulation to microcoagulation in dermatology. Moreover you can choose from a wide variety of electrodes for any need.

The modes of operation, CUT, COAG BLEND and MICRO (30517 only), can be easily selected by a switch on the front panel.
The complete isolation between patient and the unit and strict respect of international norms guarantee total safety.

30516

■ DIATERMO MB 132 MONO-BIPOLAR - PROGRAMMABLE - 120 W

C E 0051

OVH Alarm: the unit incorporates an internal circuit protection to warn when the current delivery lasts too long.

TECHNICAL SPECIFICATIONS		
Minimum preselectable power	0	
Level step	1	
Maximum output power CUT (W)	120	250Ω
Maximum output power BLEND (W)	90	250Ω
Maximum output power COAG FORCED (W)	80	250Ω
Maximum output power COAG SOFT (W)	60	250Ω
Maximum output power BIPOLAR (W)	40	250Ω
Crest Factor CUT	1.5	
Crest Factor BLEND	2.1	
Crest Factor COAG FORCED	2.0	
Crest Factor COAG SOFT	1.7	
Crest Factor BIPOLAR	1.5	
Working frequency	600 kHz	
Weight Kg	8	
Size LxHxD mm	360x150x265	
Operating voltage (switchable)	115/230V-50/60 Hz	
Fuses 230Vac (5x20) TIMED	2x 3.15A	
Fuses 115Vac (5x20) TIMED	2x 6.3A	
Five steps adjustable sound level (from 55- to 75 dBA)	•	
Self-check	•	
Power accuracy output warning	•	
Split or not split patient plate allowed	•	
Repetition of timed delivery	da 2 a 9	
Timed delivery	1-999ms	
Last working condition storing	•	
Electrical Class (EN60601 - 1)	I CF	
MDD 93/42/EEC Class	II b	
Patient circuit	F	
Made in Italy		

• **30544 DIATERMO MB 132 - mono-bipolar - 120 W**
HF electrosurgical unit suitable to perform middle monopolar or bipolar electrosurgery. By selection of the modes of operation MB 132 provides pure cut, coagulated cut, forced coagulation, soft coagulation and, with forceps, bipolar coagulation.
The use of either split or normal neutral plate are allowed.
Technology and precision: Using the digital keyboard MB 132 enables the user to regulate the HF emission time in cut or coagulation mode with great precision, and to reproduce a previous intervention.
Moreover it includes a useful **"repeat"** function which enables the user to repeat set impulses from 2 to 9 times, and a timer to monitor the elapsed time of the treatment or the whole operation.
Complete safety: an acoustic alarm (intermittent beep) and a blinking red led on front panel warns user that the neutral plate is unplugged or not in contact with the patient or the cable is disconnected.
In this case HF emission for cut and coagulation operation is switched off.

STANDARD ACCESSORIES
Two-button handle (autoclavable code 30547)
MB operative foot-switch (usable in alternative to handle)
MB flat plate (neutral electrode)
Kit 10 short standard electrodes, diam. 2.4. mm.
Power cable 2 m
Microsurgery handle - Microsurgery needle
Manual: available in English, Italian, Spanish, French

DIATERMO MB 122 AND MB 160 MONO-BIPOLAR - 120 W - 160 W

30540

• **30540 DIATERMO MB 122 - mono-bipolar - 120 W**
• **30541 DIATERMO MB 160 - mono-bipolar - 160 W**
MB 122 and 160 are HF electrosurgical units suitable to perform middle monopolar or bipolar electrosurgery.
By selection of the modes of operation they provide pure cut, coagulated cut, forced coagulation, soft coagulation and, with forceps, bipolar coagulation. The use of either split or normal neutral plate is allowed. MB 160 is recommended in case of operational fields damp for instance mucous, or tissue whose composition is varying, with consequent need to have reserve of usable power. For these reasons, MB 160 is suggested for Gynecological and orthopedic surgery.
Leading-Edge Technology. This advanced concept device enables highly professional surgery intervention thanks to ergonomic and safety features derived from high power theatre apparatus.
Complete safety. Open Circuit (OC) Alarm warns the user that connection into the neutral plate has not been made or that the cable is disconnected or the neutral plate is not in contact with the patient. The alarm is signalled by an intermittent beep together with a flashing red light on the front panel. In this case HF emission for cut and coagulation operation is switched off.
OVT Alarm. The unit includes an internal circuit protection warning when the current delivery lasts too much.
• **27139 DIATERMO NYLON BAG - black** See page 31

Diatermo MB 122 - MB 160 standard accessories
MB single-use two button handles
MB operative foot-switch (usable as alternative to handle)
MB flat neutral plate Power cable 2 m
Kit of 6 short autoclavable electrodes, diam. 2.4 mm.
User manual: available in English, Spanish, Italian, French, Polish

TECHNICAL SPECIFICATIONS

	MB122		MB160	
Minimum preselectable power	0		0	
Level step	1		1	
Maximum output power CUT (W)	120	250Ω	160	250Ω
Maximum output power BLEND (W)	90	200Ω	120	200Ω
Maximum output power COAG FORCED (W)	80	150Ω	100	I50Ω
Maximum output power COAG SOFT (W)	60	100Ω	80	100Ω
Maximum output power BIPOLAR (W)	40	100Ω	60	100Ω
Crest Factor CUT	1.5		1.5	
Crest Factor BLEND	2.1		2.1	
Crest Factor COAG FORCED	2.0		2.0	
Crest Factor COAG SOFT	1.7		1.7	
Crest Factor BIPOLAR	1.5		1.5	
Working frequency	600 kHz		600 kHz	
Weight Kg	7		7	
Size LxHxD mm	260x110x265		260x110x265	
Operating voltage (switchable)	115 -230		115 -230	
Mains frequency (Hz)	50-60		50-60	
Fuses 230Vac (5x20) TIMED	2x 3.15A		2x 3.15A	
Fuses 115Vac (5x20) TIMED	2x 6.3A		2x 6.3A	
Electrical input power (VA)	300		350	
Electrical input current (230Vac) (A)	1.3		1.5	
Electrical input current (115Vac) (A)	2.6		3	
Five steps adjustable sound level (from 55- to 75dBA)	•		•	
Self-check	•		•	
Power accuracy output warning	•		•	
Split or not split patient plate allowed	•		•	
Last working condition storing	•		•	
Electrical Class (EN60601 - 1)	I CF		I CF	
MDD 93/42/EEC Class	II B		II B	
Patient circuit	F		F	
Conform to EN60601-1-4 (1998)	•		•	

FOOTSWITCHES AND BOARD

GIMA code	FOOTSWITCHES FOR MB 122, 132, 160, 200, 202
30568	Standard footswitch - 2 m cable
30576	Standard footswitch - 3 m cable
30571	Waterproof MB footswitch - 2m cable
30570	Double MB footswitch - antiexplosion, water proof
	FOOTSWITCHES FOR MB 240, 250, 380, 400
30569	Double antiexplosion, water proof footswitch - MB240-380
30572	Double antiexplosion, water proof footswitch - MB250-400
	MAIN BOARD
30557	Main board - specify model and serial number of diatermo with order
30558	Output board for MB 240, 250, 380, 400 - specify as above

30569

It allows selection from pedal of CUT and COAG functions Antiexplosion and waterproof.

DIATERMO MB 200 AND MB 202 - MONO-BIPOLAR - 200 W
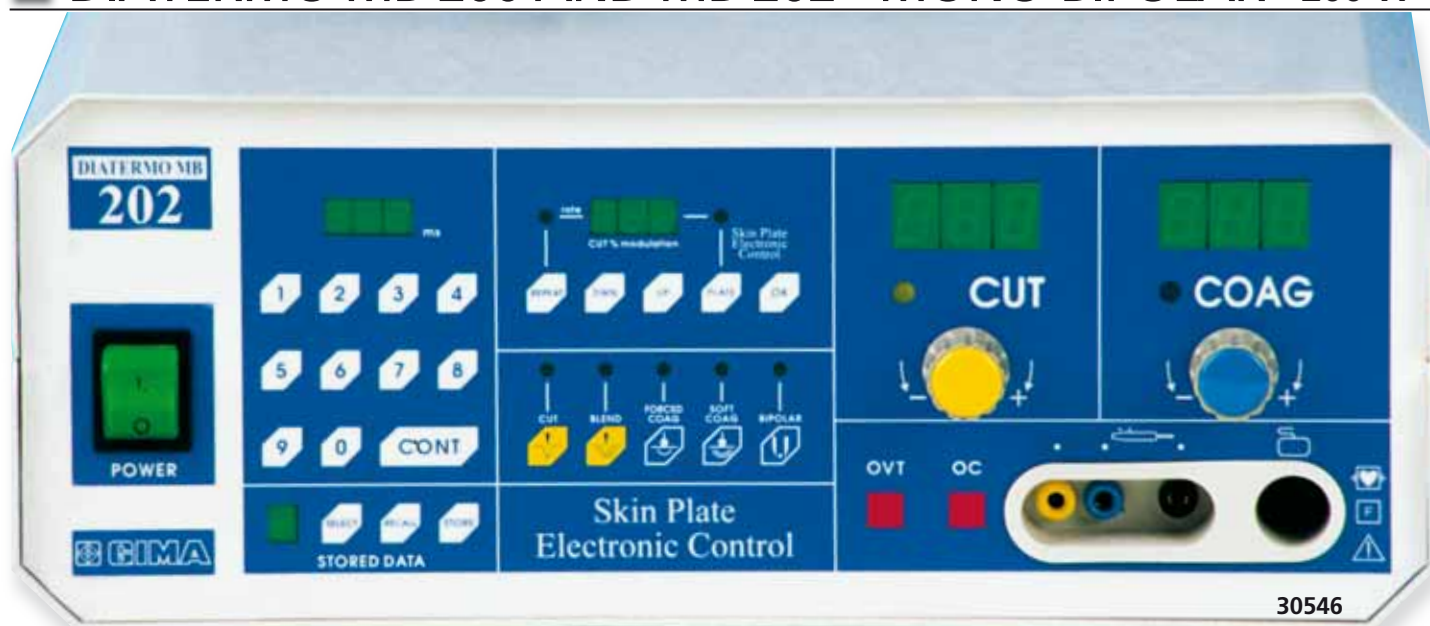
30546

• **30542 DIATERMO MB 200 - 200 Watt**

• **30546 DIATERMO MB 202 - 200 Watt**

DIATERMO MB200 and MB202 are HF electrosurgical units suitable to perform middle monopolar or bipolar electrosurgery.

The available waveforms and peak voltage value, as well as the accurate HF leakage current operation for polypectomy, TURP, intrauterine resections, endometriosis excision, etc.

The units allow the accurate preset of the output power with as low as 1 Watt resolution and to perform coagulation by high crest factor current, to get an elevated thermal effect, as well as with low voltage low crest factor current, to get coagulation in absence of carbonization.

Ten different programs related to ten different operative conditions could be stored and easily recalled by the surgeon.

The use of either split or normal neutral plates are allowed.

A special electronic circuit (Skin Plate Electronic Control) continuously checks if the plate is safely connected to the patient and detects unwanted short circuit in the connecting cable.

An over time warning (OVT) is provided to prevent excessive heating of the tissue around the surgical target due to too long current delivery time.

DIATERMO MB202, furthermore, can be used with current delivery time equal to that of actuation of the output power switch as well as with preset current delivery time in the range from 1 ms up to 999 ms.

The output pulse can be automatically repeated 1 to 250 times.

The presetting of the current delivery time is proper for collecting of bioptic samples and for microsurgical dermatologic operationy like treatment of telangiectasias, spider nevus, angiomas, etc.

Bipolar cable and forceps are not included in standard accessories.

TECHNICAL SPECIFICATIONS				
	MB200		**MB202**	
Minimum preselectable power	0		0	
Level step digital	1		1	
Maximum output power CUT (W)	200	250Ω	200	250Ω
Maximum output power CUT 90% (W)	200	250Ω	200	250Ω
Maximum output power CUT 80% (W)	200	250Ω	200	250Ω
Maximum output power CUT 70% (W)	200	250Ω	200	250Ω
Maximum output power BLEND (W)	120	200Ω	120	200Ω
Maximum output power COAG FORCED (W)	150	150Ω	150	I50Ω
Maximum output power COAG SOFT (W)	90	100Ω	100	100Ω
Maximum output power BIPOLAR (W)	-		100	100Ω
Maximum output power BIPOLAR COAG (W)	100	100Ω	-	
Maximum output power BIPOLAR CUT (W)	120	250Ω	-	
Crest Factor CUT	1.5		1.5	
Crest Factor CUT 90%	1.6		1.6	
Crest Factor CUT 80%	1.7		1.7	
Crest Factor CUT 70%	1.8		1.8	
Crest Factor BLEND	2.1		2.1	
Crest Factor COAG FORCED	2.0		2.0	
Crest Factor COAG SOFT	1.7		1.7	
Crest Factor BIPOLAR	-		1.5	
Crest Factor BIPOLAR CUT (W)	1.5		-	
Crest Factor BIPOLAR CUT (W)	1.5		-	
Working frequency	600 kHz		600 kHz	
Weight Kg	8		8	
Size LxHxD mm	360x150x265		360x150x265	
Selectable mains power(Vac)	115 -230		115 -230	
Mains frequency (Hz)	50-60		50-60	
Fuses 230Vac (5x20) TIMED	2x 3.15A		2x 3.15A	
Fuses 115Vac (5x20) TIMED	2x 6.3A		2x 6.3A	
Power accuracy output warning system	•		•	
Split or not split patient plate allowed	•		•	
Timed delivery repetition	-		1-999ms	
Electrical Class (EN60601 - 1)	I CF		I CF	
MDD 93/42/EEC Class	II b		II b	
Patient circuit	[F]		[F]	
Duty cycle (action/pause) in seconds	10/30		10/30	

30542

DIATERMO MB 200 - MB 202 STANDARD ACCESSORIES

MB two-button handle (autoclavable code 30547) handle in beside picture is not correct
MB operative foot-switch (usable in alternative to handle)
MB flat neutral metal plate with cable
Kit 9 short standard electrodes, diam. 2.4. mm.
Power cable 2 m
Microsurgery handle - Microsurgery needle (10 pcs.) (only MB 202)
Manual: available in English, Italian, French (only MB 202)

HOSPITAL HF ELECTROSURGICAL UNITS 240 AND 380 WATT

30690

CONTEMPORARY DUAL MODE MB 240 and 380 can be used in the same time in monopolar mode (by handle) and bipolar mode (by footswitch)

A special electronic circuit (Skin Plate Electronic Control) continuosly warns the plate to patient contact safety and unwanted short circuit in the connecting cable

• **30690 DIATERMO MB 240**
• **30692 DIATERMO MB 380**

These HF electrosurgical units can be used to execute monopolar and bipolar surgery when high precision and reliability are essential, as in the endoscopic surgery.

EASY TO USE
Graphic icons allow an easy selection of the operation mode. All operating conditions and selected output controls are represented by bright digital indications.

CUT
The monopolar cut can be performed by pure sine current to obtain an incision with a minimum damage for the adjacent tissues and sure recovery for first intention.
Two different modalities of modulation allow to reduce bleeding during monopolar cut. In the bipolar modality the cut can be effected by pure sine current.

HEMOSTASIS
When the surgical action requires the obliteration of a blood vessel the availability of currents with different coagulative powers enables this type of work both with monopolar and bipolar surgery.

FULGURATION
When it is necessary to cause a superficial necrosis of wide areas, protecting the deeper tissues, a special coagulant current that dehydrates the superficial layer of the tissue and reduces the possibility to damage those beneath is available for the operation.

OUTPUT CONTROL
Output power levels are adjustable through incremental encoders that allow the exact pre-sets and repetition of the

values. The output function is linearized and controlled by ultra-modern electronic micro-controllers which will interrupt power if any alarm condition happens.

SAFETY OF USE
Circuits dedicated to the safety of operator and patient are the priority. This ensure the leakage current is kept well under the values by the international requirements, under every output condition. Monopolar and bipolar output circuits are completely floating and the use of the defibrillator is allowed while the reference plate patient is connected.

RELIABILITY
DIATERMO MB uses all solid state electronic circuits and is made with interchangeable units for a fast and effective maintenance. Automatic control circuits protect the units from damage also in case of repeated improper use.

30692

TECHNICAL SPECIFICATIONS DIATERMO MB 240/DIATERMO MB 380

Activation devices
Bipolar: footswitch
Dual: bipolar - footswitch
    monopolar - manual
Monopolar: footswitch
      manual
Mains: 115/230 Vac 50-60 Hz
Absorption: 800 VA
Class I CF
Weight: 15 kg
Size: 370 x 470 x h 150 mm
Warranty: 12 months
(accessories not included)
Norms: IEC 601-2-2 - IEC 601-1
CE, 93/42/EEC

	Working frequency	Max power 240/MB 380	Peak to peak voltage	Load resistance
Monopolar output	475 kHz			
Cut output		250W/375W	1,4 kV	300 Ohm
Cut/coag 1 output		225W/340W	1,4 kV	300 Ohm
Cut/coag 2 output		200W/300W	1,4 kV	300 Ohm
Coag 1 output		150W/225W	1,4 kV	300 Ohm
Coag 2 output		100W/150W	1,4 kV	300 Ohm
Coag 3 output (spray)		80W	4,2 kV	2000 Ohm
Bipolar output	525 kHz			
Cut output		90W	0,5 kV	100 Ohm
Coag output		80W	0,5 kV	100 Ohm

STANDARD ACCESSORIES
1 - Power supply cord SIEM-CEE 5 m
1 - Two-button handle (autoclavable code 30547)
5 - Two-button handle (cold sterilizable)
1 - Cable for disposable plate
5 - Disposable plate
1 - Water proof double foot switch
3 - Short, general surgery blade electrode
3 - Long, general surgery blade electrode
3 - Short, general surgery needle electrode
3 - Short, general surgery ball electrode
1 - User manual (Italian, English, Spanish)
1 - Service manual (Italian, English, French, Spanish)

LAPAROSCOPIC ELECTRODES

30605
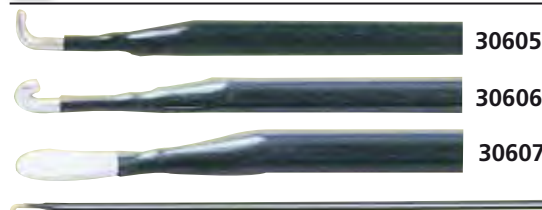
30606

30607

30605

Laparoscopic electrodes for use with Diatermo MB 240/250/380/400 with connecting cable 4 mm (30609)

GIMA code	LAPAROSCOPIC ELECTRODES
30605	L-Hook electrode - 36 cm
30606	J-Hook electrode - 36 cm
30607	Spatula electrode - 36 cm
30609	Monopolar cable - 4 mm - M - F

To electrode   *To generator*

GIMA

HOSPITAL HF ELECTROSURGICAL UNITS 250 AND 400 WATT

- ARGON COMPATIBLE
- 2 MONOPOLAR OUTPUT
- PROGRAMME MEMORY
- AUTO START/STOP (BIPOLAR)

• 30694 DIATERMO MB 250
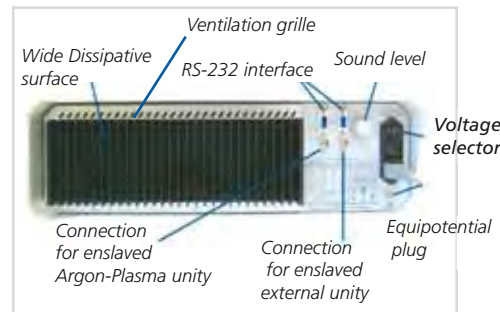
• 30696 DIATERMO MB 400

DIATERMO MB250 and MB400 are high frequency electro-surgical equipments suitable to deliver current for monopolar cut and coagulated cut (with different levels of coagulation), bipolar cut and coagulation. During bipolar coagulation there is an automatic "Autostart-Autostop" system which activates when coagulation is reached.

A range of ten different modes and power levels can be easily stored and recalled. It is possible to use either single plate neutral electrodes or split conductive zone electrodes in order to control impedance stability of plate to patient contact during the surgical operation.

Control of the units is made by front panel keys and display; mains inlet is located on the rear panel.

The units have automatic control systems to monitor the internal parameters and alert on possible damages/errors.

The operational parameters used are constantly stored so that the last selected parameters are recalled, every time the unit is switched on or the operative method is changed.

The level of sound can be adjusted, every operator can choose his own level according to the environmental working conditions.

The units can work through handles with pushbuttons or handles without pushbuttons but with double foot switch. It's possible to connect bipolar forceps to the unit for the bipolar functions.

TECHNICAL SPECIFICATIONS MB250/MB400

Work condition memorization
Digital power visualization
Continuous check control
Automatic control of the plate-patient connection
Automatic control of the impedance
Automatic control of excessive time for distribution
Automatic control of the supplied power level
Bipolar coag with automatic activation/disact.
Consistent with Argon unit
Minimum preselectable power: 0
Unitary power step for powers from 0 W to 50 W
Power step 10 for powers higher than 50 W
Digital level display
Selection of power through push-buttons
Size LxHxP mm: 470 x 150 x 380
Weight (kg): 18
Selectable mains power (Vac): 115-230
Mains frequency (Hz): 50-60
Fuses 230Vac (5x20) TIMED: 2xT 4A/5A
Fuses 115Vac (5x20) TIMED: 2xT 8A/10A
Electrical input power (VA): 800/1000

Electrical input current (230Vac) (A): 3.5/4.5
Electrical input current (115Vac) (A): 7/9
Five steps adjustable sound level
Self-check
Power accuracy output warning
Skin Plate Electronic Control (plate-patient control)
Split or not split patient plate allowed
Working condition storing: last 10 setup
Electrical Class (EN60601-1): ICF
MDD 93/42/EEC Class: II b
EN55011 (CISPR 1 1) Class (Class/Group): 2/B
Patient circuit: F
Duty Cycle (action/pause) in seconds: 10-30
Output power control by foot-switch or finger-switch
Defibrillation-proof
Ten seconds delivery warning (OVT)
Equipotential binding
Metallic cabinet
Polycarbonate covered panels
Conform to EN60601-1 (1998)
Conform to EN6060 1 - 1 -2 (2003)
Conform to EN6060 1 -2-2 (2000)

Wide Dissipative surface — *Ventilation grille* — *RS-232 interface* — *Sound level* — *Voltage selector* — *Connection for enslaved Argon-Plasma unity* — *Connection for enslaved external unity* — *Equipotential plug*
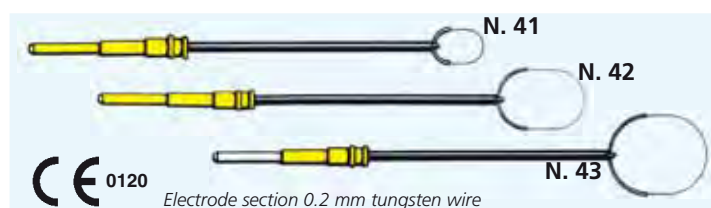
STANDARD ACCESSORIES

1 - Power supply cord SIEM-CEE 5 m
1 - Two-button handle (autoclavable code 30547)
5 - Two-button handle (cold sterilizable)
1 - Cable for disposable plate
5 - Disposable plate
2 - HP double Water proof foot switch
3 - Short, general surgery blade electrode 7 cm
3 - Long, general surgery blade electrode 10 cm
3 - Short, general surgery needle electrode 5.5 cm
3 - Short, general surgery ball electrode Ø 4 mm, 6 cm
1 - Electrode brush
1 - User manual (Italian, English)
1 - Service manual (Italian, English)

MONOPOLAR AND BIPOLAR APPLICATION DIATERMO MB 250 AND MB 400

	Working Frequency	Max Power MB250/400	Imped.	Maximum output voltage	Modulation factor	Duty Cycle	Crest Factor
Monopolar Applications	425 kHz						
Cut		250/400 W	300 Ω	1500 Vpp	-	-	1.6
Cut/Coag 80%		220/300 W	300 Ω	1500 Vpp	10 kHz	80%	1.8
Cut/Coag 60%		200/250 W	300 Ω	1500 Vpp	10 kHz	60%	2.1
Cut/Coag 40%		150/200 W	300 Ω	1500 Vpp	10 kHz	40%	2.6
Enhanced Cut		150/250 W	300 Ω	1500 Vpp	1.25 kHz	5%	1.6
Blend		150/250 W	500 Ω	2500 Vpp	-	-	1.6
Speedy Coag		100/120 W	500 Ω	2500 Vpp	8-12 kHz	20%	3.4
Deep Coag		100/120 W	500 Ω	800 Vpp	-	-	1.6
Spray Coag		60/100 W	2000 Ω	4500 Vpp	1 kHz	20%	3.4
Spray Coag Argon		60/100 W	2000 Ω	4500 Vpp	1 kHz		3.4
Bipolar Applications	525 kHz						
Bipolar Cut		120 W	150 Ω	800 Vpp	-	-	1.5
Bipolar Cut/Coag 80%		100 W	150 Ω	800 Vpp	10 kHz	80%	1.7
Bipolar Cut/Coag 60%		100 W	150 Ω	800 Vpp	10 kHz	60%	2.0
Bipolar Cut/Coag 40%		60 W	150 Ω	800 Vpp	10 kHz	40%	2.4
Bipolar Blend		100 W	300 Ω	1100 Vpp	-	-	1.7
Bipolar Deep Coag		70 W	100 Ω	400 Vpp	-	-	1.5

Standard accessories

101

■ LOOP COLPOSCOPY AUTOCLAVABLE ELECTRODES

N. 41
N. 42
N. 43

N. 50
N. 52
N. 51

CE 0120
Electrode section 0.2 mm tungsten wire

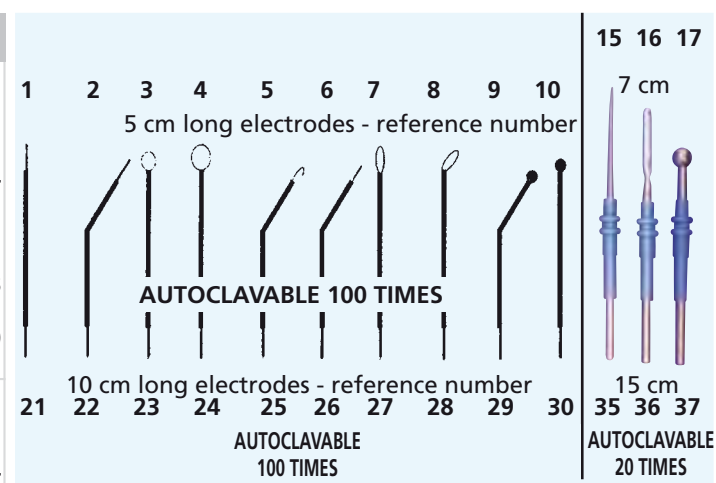| GIMA code	Reference number	COLPOSCOPY ELECTRODES - Ø 2.4 mm autoclavable at 120° C	Shaft length	Electrode width	Electrode depth
30680	41	Loop electrode - 8 mm	11 cm	8 mm	8 mm
30682	42	Loop electrode - 15 mm	11 cm	15 mm	15 mm
30683	43	Loop electrode - 20 mm	11 cm	20 mm	15 mm

GIMA code	Reference number	LOOP ELECTRODES - Ø 2.4 mm autoclavable at 120° C	Shaft length	Electrode width	Electrode depth
30686	50	Square loop electrode	13 cm	10 mm	8 mm
30687	51	Loop electrode	13 cm	15 mm	8 mm
30688	52	Loop electrode	13 cm	20 mm	10 mm

■ AUTOCLAVABLE ELECTRODES

GIMA code	Reference number	AUTOCLAVABLE ELECTRODES Ø 2.4 mm	Reference number	GIMA code
length 5 cm		**minimum order: 6 pcs.**	**length 10 cm**	
30501	1	Electrode wire - straight	21	30521
30502	2	Electrode wire - angled 45°	22	30522
30503	3	Electrode bend - Ø 4 - straight	23	30523
30504	4	Electrode bend - Ø 8 - straight	24	30524
30505	5	Electrode hook - angled 45°	25	30525
30506	6	Electrode wire 1 mm.- angled 45°	26	30526
30507	7	Electrode straight slip-knot - straight	27	30527
30508	8	Electrode angled slip-knot - straight	28	30528
30509	9	Electrode ball point - Ø 3 mm. - angled 45°	29	30529
30510	10	Electrode ball point - Ø 3 mm. - straight	30	30530
30500	SET	Set of 10 electrodes	SET	30531
length 7 cm		**minimum order: 10 pcs.**	**length 15 cm**	
30511	15	Needle electrode	35	30532
30512	16	Blade electrode	36	30533
30513	17	Ball electrode	37	30534

15 16 17
7 cm

1 2 3 4 5 6 7 8 9 10
5 cm long electrodes - reference number

AUTOCLAVABLE 100 TIMES

10 cm long electrodes - reference number
21 22 23 24 25 26 27 28 29 30
AUTOCLAVABLE 100 TIMES

15 cm
35 36 37
AUTOCLAVABLE 20 TIMES

■ SINGLE USE STERILE ELECTRODES

GIMA code	Reference number	SINGLE USE ELECTRODES Ø 2.4 mm minimum order: 24 pcs.	Reference number	GIMA code
length 7 cm		**Sterile electrode**	**length 15 cm**	
30670	13	Needle electrode - sterile electrode	33	30674
30671	11	Blade electrode - sterile	31	30675
30672	12	Ball ø 4 mm. electrode - sterile	32	30676
		Sterile electrode		
-	-	Loop electrode - 15mmx8mm	34	30678

Length 7 cm
N. 13
N. 11
N. 12

N. 34 Length 15 cm
N. 33
N. 32
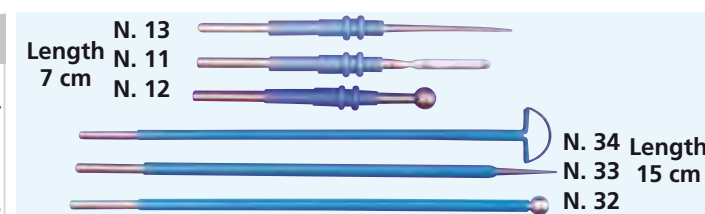
■ SINGLE USE, METAL AND RUBBER PLATES

30563 Cable
30556 Adult/pediatric REM disposable plate

30562 Adult disposable plate
30565 Adult REM disposable plate
30567 Pediatric disposable plate
30555 Adult/pediatric disposable plate

30563 (cable)
30575 (cable)
30574 (rem rubber plate)
30566 (metal plate)
30573 (rubber plate 20x15 cm)

• **30562 DISPOSABLE GROUND PADS WITH SOLID GEL - adult**
• **30567 DISPOSABLE GROUND PADS WITH SOLID GEL - pediatric**
• **30565 REM DISPOSABLE GROUND PADS WITH SOLID GEL - adult**
Adult ground plate with solid gel. Single use plate individually packed
• **30563 CABLE FOR PLATES - 5 m**
Universal cable to connect plates (30555/6, 30562, 30565/6/7) to diatermo.
Safety lock with universal connection - bipolar Ø 6.3 mm plug.
• **30555 DISPOSABLE NON WOVEN GROUND PADS - adult/ped**
• **30556 REM DISPOSABLE NON WOVEN GROUND PADS - adult/ped**

• **30573 RUBBER PLATE 20x15 cm - without cable**
• **30574 REM RUBBER PLATE 20x15 cm - without cable**
• **30575 CABLE FOR RUBBER PLATES**
• **30566 METAL PLATE - without cable**
• **30563 CABLE FOR PLATES - 5 m**
• **30559 CABLE FOR PLATES - 2.5 m**

GIMA

MONOPOLAR HANDLES WITH OR WITHOUT SWITCHES

MB HANDLES with 2 "click" push-buttons

GIMA autoclavable electrosurgery pencils with CUT-COAG switch have been studied and tested to offer maximum reliability and functionality to the operator. MB handles are provided with a 3 Pins socket Valley Lab type that fits all Gima mono-bipolar Diatermo MB (122, 132, 160, 200, 202, 240, 250, 380, 400) and majority of bipolar electrosurgical units: Aspen Lab, ES Generator, EMC Statome, Danieli, Braun, Berchtold, Ohmeda, Ritter, Conmed, Eschman, Bovie, Martin, Kontron, Bard, Birtcher 771, Cobi, Valley Lab, Led, Erbe...

• **30554 MB AUTOCLAVABLE HANDLE - 100 times**
Autoclavable handle **with 2 large "click" push-button**, provided with a 3 meters long silicone cable and a blade electrode.
It can be autoclaved up to 100 times (20 times electrode).
For electrodes Ø 2.4 mm
• **30550 PRIMA MB AUTOCLAVABLE HANDLE - 60 times**
Autoclavable handle **with 2 large "click" push-button**, provided with a 3 meters long silicone cable and a blade electrode.
It can be autoclaved up to 60 times. **For electrodes Ø 2.4 mm**
• **30548 STAR AUTOCLAVABLE HANDLE - 30 times**
Same as code 30554 but autoclavable up to 30 times (electrode is autoclavable up to 20 times). **For electrodes Ø 2.4 mm**
• **30549 STAR 5 AUTOCLAVABLE HANDLE - 30 times**
Same as STAR, but with a 5 meters long silicone cable
• **30547 ORION AUTOCLAVABLE HANDLE - 100 times**
Same as 30554, but with a screw clamp locking system that not only guarantees a safe contact, but also adapts to the different electrode diameters.
• **30551 KIRKY SINGLE-USE HANDLE-STERILE**
Single-use handle **with "click" push-buttons** for cut and coag.
Includes blade electrode.   **minimum order: 10 pcs.**
• **30553 GIMA SINGLE-USE HANDLE-STERILE**
Same as 30551   **minimum order: 10 pcs.**

106-108 HANDLES

These handles are provided with a 1 Pin socket (4 mm) that fits all Gima Diatermo and majority of electrosurgical units in the market. These handles **do not have push-buttons.**
• **30519 AUTOCLAVABLE 106-108 HANDLE**
Autoclavable handle **without buttons**, provided with a 3 meters long cable and a blade electrode.
It can be autoclaved up to 50 times.
• **30518 KIRKY SINGLE-USE 106-108 HANDLE- STERILE**
Single-use handle without button with blade electrode with 4 mm PIN connection.   **minimum order: 10 pcs.**

MICROSURGERY

Microsurgery accessories for all GIMA Diatermo and electro-depilators
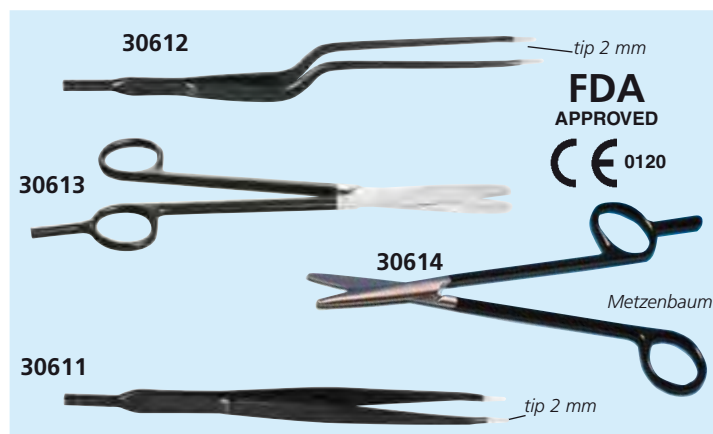• **30552 MICROSURGERY HANDLE**
• **30560 MICROSURGERY NEEDLE**

ELECTRODE BRUSH

• **30537 ELECTRODE BRUSH - 50x50 mm**
Disposable sterile radiopaque abrasive tip cleaner pad. Box of 100

"MB HANDLES"

30547 screw type
(autoclavable up to 100 times)

30550
(autoclavable up to 60 times)

30554
(autoclavable up to 100 times)

30548
(autoclavable up to 30 times)

30551
(single use) 0086

30553
(single use) 0120

Tripolar universal Valleylab type connector for all above handles

"106 HANDLES"

30519 *(autoclavable)*

30518 *(single use)*

0086

1 pin (Ø 4mm) socket for above handles

30552

30537

MONOPOLAR FORCEPS, SCISSORS AND CABLES

30612   *tip 2 mm*

FDA APPROVED 0120

30613

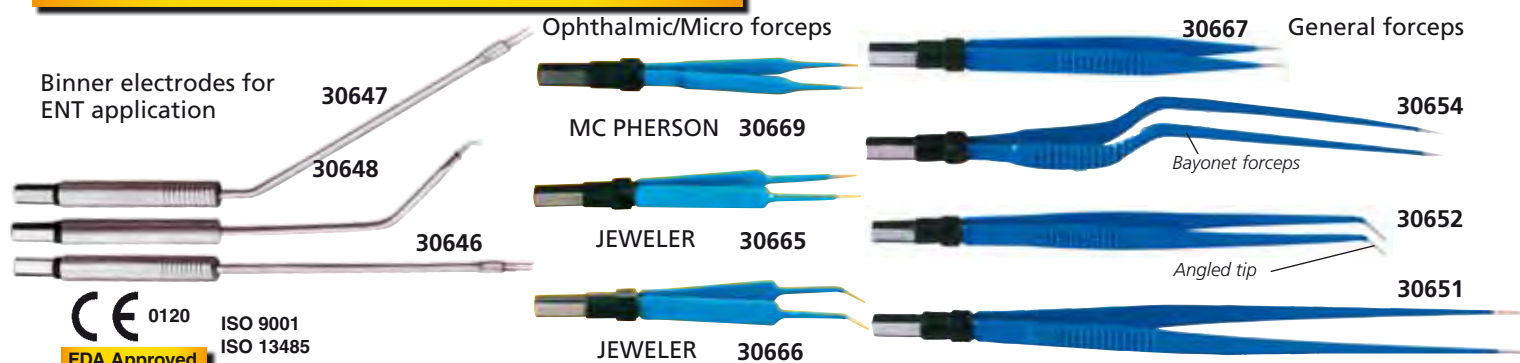**30614**   *Metzenbaum*

30611   *tip 2 mm*

30610

Monopolar forceps are provided with a 4 mm connection for standard monopolar cables.
These can be used with all Gima, Led, Erbe and many other electrosurgical units in the market.

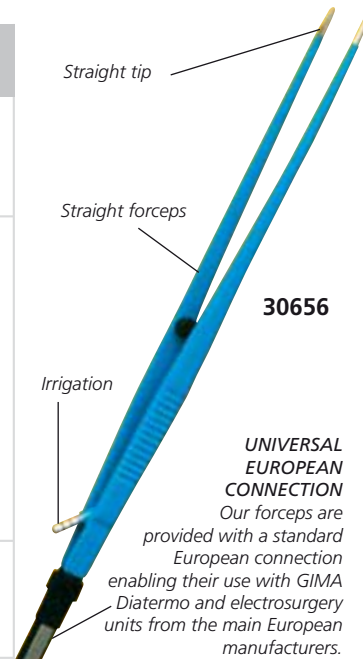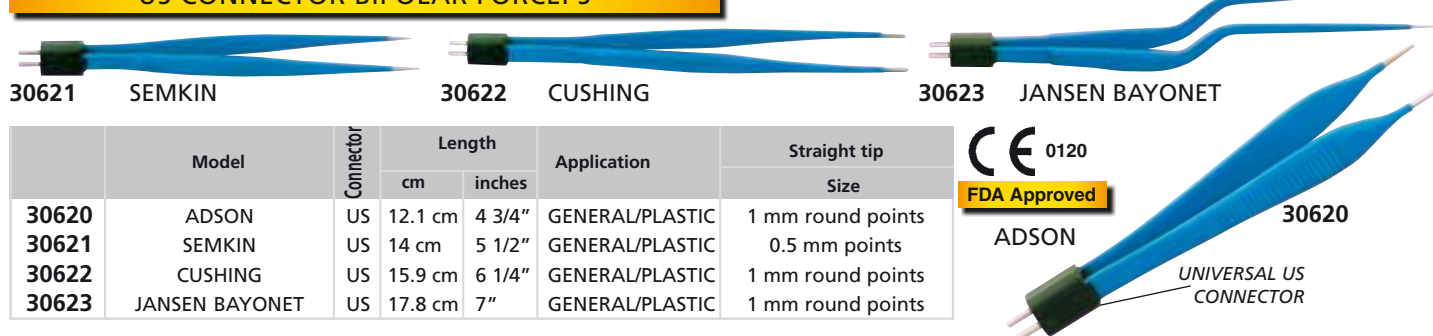| GIMA code	INSULATED MONOPOLAR INSTRUMENTS
30610	Monopolar cable - 4 mm pin
30611	Mc INDOE straight monopolar forceps 15 cm. (6")
30612	Bayonet monopolar forceps - 19 cm. (71/2")
30613	Monopolar scissors - 18 cm. (7")
30614	Metzenbaum monopolar scissors - straight - 18 cm (7")
30615	Metzenbaum monopolar scissors - curved - 18 cm (7")

■ UNIVERSAL HIGH QUALITY INSULATED BIPOLAR FORCEPS

EUROPEAN CONNECTOR BIPOLAR FORCEPS

Binner electrodes for ENT application

30647

30648

30646

Ophthalmic/Micro forceps

MC PHERSON **30669**

JEWELER **30665**

JEWELER **30666**

30667 General forceps

30654

Bayonet forceps

30652

Angled tip

30651

CE 0120 ISO 9001 ISO 13485

FDA Approved

Straight tip

Straight forceps

30656

Irrigation

UNIVERSAL EUROPEAN CONNECTION
Our forceps are provided with a standard European connection enabling their use with GIMA Diatermo and electrosurgery units from the main European manufacturers.

GIMA code	Model	Connector	Length cm	Length inches	Tip style	Application	Tip size
30645	BINNER	EU	22 cm	8 1/2"	ANGLED	ENT	-
30646	BINNER	EU	18 cm	7"	STRAIGHT	ENT	-
30647	BINNER	EU	18 cm	7"	ANGLED	ENT	-
30648	BINNER	EU	19 cm	7 3/8"	ANGLED 45°	ENT	-
30650	STRAIGHT	EU	18 cm	7"	STRAIGHT	GENERAL	1 mm round points
30656	STRAIGHT with irrigation	EU	18 cm	7"	STRAIGHT	GENERAL	1 mm round points
30651	STRAIGHT	EU	20 cm	7 3/4"	STRAIGHT	GENERAL	1 mm round points
30658	STRAIGHT	EU	20 cm	7 3/4"	STRAIGHT	GENERAL	2 mm round points
30652	STRAIGHT	EU	18 cm	7"	ANGLED	GENERAL	1 mm round points
30653	STRAIGHT	EU	20 cm	7 3/4"	ANGLED	GENERAL	1 mm round points
30654	BAYONET	EU	18 cm	7"	STRAIGHT	GENERAL	1 mm round points
30655	BAYONET	EU	20 cm	7 3/4"	STRAIGHT	GENERAL	1 mm round points
30660	STRAIGHT	EU	18 cm	7"	ANGLED	GENERAL	0.3 mm points
30661	STRAIGHT	EU	18 cm	7"	STRAIGHT	GENERAL	0.3 mm points
30662	STRAIGHT	EU	20 cm	7 3/4"	STRAIGHT	GENERAL	0.3 mm points
30665	JEWELER 5	EU	11.5 cm	4 1/2"	STRAIGHT	OPHTHALMIC/MICRO	0.25 mm points
30666	JEWELER 5	EU	11.5 cm	4 1/2"	ANGLED	OPHTHALMIC/MICRO	0.25 mm points
30667	STRAIGHT	EU	15 cm	6"	STRAIGHT	OPHTHALMIC/MICRO	0.5 mm points
30668	STRAIGHT	EU	15 cm	6"	ANGLED	OPHTHALMIC/MICRO	0.5 mm points
30669	Mc PHERSON	EU	10.2 cm	4"	STRAIGHT	OPHTHALMIC/MICRO	0.5 mm points

US CONNECTOR BIPOLAR FORCEPS

30621 SEMKIN

30622 CUSHING

30623 JANSEN BAYONET

CE 0120

FDA Approved

30620

ADSON

UNIVERSAL US CONNECTOR

	Model	Connector	Length cm	Length inches	Application	Straight tip Size
30620	ADSON	US	12.1 cm	4 3/4"	GENERAL/PLASTIC	1 mm round points
30621	SEMKIN	US	14 cm	5 1/2"	GENERAL/PLASTIC	0.5 mm points
30622	CUSHING	US	15.9 cm	6 1/4"	GENERAL/PLASTIC	1 mm round points
30623	JANSEN BAYONET	US	17.8 cm	7"	GENERAL/PLASTIC	1 mm round points

■ BIPOLAR CABLES FOR MAJOR BRANDS

CE 0120

Quality highly flexible silicone bipolar cables.
Autoclavable at 134°C up to 70 times 3 m long (10").
Suitable for most generators, see below compatibility, and with connector for European or US forceps

Connector to forceps

Connector to electrosurgical unit

GIMA code	30640	30637	30643	30639	30638
Connector to forceps	EU	US	EU	EU	EU
Connector to electrosurgical unit (check beside compatibility list for brand and model)	4 mm banana plug GIMA (MB240/250/380/400) VALLEY LAB CONMED, CODMAN OLYMPUS		GIMA MB122 MB160 MB132 MB200 MB202	MARTIN BERTHOLD AESCULAP WOLF	ERBE SELECT DOWN SIEMENS

GIMA

GERMAN FLEXIBLE NOSEPHARYNGOSCOPE

• **71602 FLEXIBLE NOSEPHARYNGOSCOPE with cable**
It includes fibre optic cable and rigid case for transport,conventional image guide system, 2 way deflection, one hand operation, completely soakable. Resolution: 8,000 pixels.
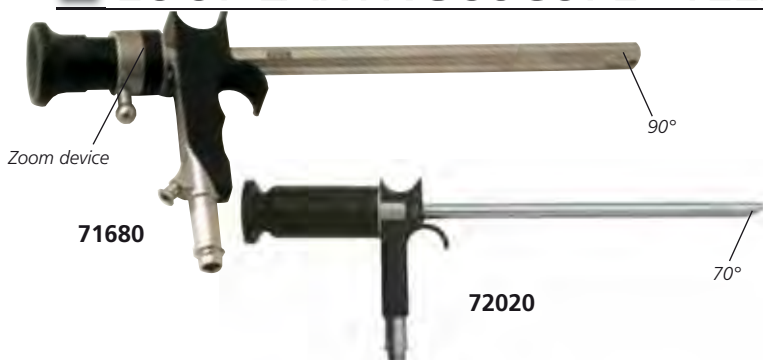
TECHNICAL SPECIFICATIONS:
Working length: 300 mm   Working Ø: 3.2 mm
Deflection: up 160°, down 160°
Length of movable tip section: 20 mm
Direction of view: 0°   Field of view: wide angle
Depth of focus: 3-60 mm - angle of: 80°
Made in Germany

• **71610 ENDOSCOPY MOUTHPIECE - bag of 20 pcs**
Disposable bite blocks

71602

New:3.2 mm diameter

30801

Rigid case supplied with code 71602

71610

LOOP LARYNGOSCOPE - TELE-LARYNGO - PHARYNGOSCOPE

Zoom device

71680

90°

70°

72020

• **71680 LOOP LARYNGOSCOPE Ø 10 x 153 mm - 90°**
• **71681 TELE-LARYNGO-PHARYNGOSCOPE Ø 8 x 164 mm - 70°**
• **71682 TELE-LARYNGO-PHARYNGOSCOPE Ø 6 x 164 mm - 70°**
Sharp image, significant depth of field
- high performance illumination, German quality
- two different degrees of magnification:
  panoramic view and examination of details (only 71680)
- integrated air channel for prevention of misted objective (only 71680)
- soakable and designed for gas sterilization
- working distance 15 mm to ∞

• **72020 LARYNGOSCOPE Ø 5 x 175 mm - 70°**
• **72021 TELE-LARYNGOSCOPE Ø 8 x 178 mm - 70°**
• **72023 TELE-LARYNGOSCOPE Ø 8 x 175 mm - 90°**

RIGID ENDOSCOPES

71645

LUT LICHT SICHT SERVICE LIGHT SIGHT SERVICE

0°

71621

GIMA code	LUT RIGID ENDOSCOPES MADE IN GERMANY To be used for ENT and ARTHROSCOPY applications
71621	Otoscope Ø 2.7 x 34 mm - 0° - autoclavable
71641	Telescope Ø 2.7 x 110 mm - 0° - autoclavable
71643	Telescope Ø 2.7 x 110 mm - 30°- autoclavable
71645	Telescope Ø 2.7 x 110 mm - 70°- autoclavable
70012	Telescope Ø 2.7 x 187 mm - 0°- autoclavable
70014	Telescope Ø 2.7 x 187 mm - 30°- autoclavable
70016	Telescope Ø 2.7 x 187 mm - 70°- autoclavable
71661	Telescope Ø 4 x 175 mm - 0° - autoclavable
71665	Telescope Ø 4 x 175 mm - 30° - autoclavable
71668	Telescope Ø 4 x 175 mm - 45° - autoclavable
71667	Telescope Ø 4 x 175 mm - 70° - autoclavable

GIMA code	GIMA RIGID ENDOSCOPES to be used for ENT and Arthroscopy applications
72007	Telescope Ø 2.7 x 107.5 mm - 0°
72008	Telescope Ø 2.7 x 107.5 mm - 30°
72009	Telescope Ø 2.7 x 107.5 mm - 70°
72010	Telescope Ø 4 x 175 mm - 0°
72011	Telescope Ø 4 x 175 mm - 30°
72012	Telescope Ø 4 x 175 mm - 70°
72013	Telescope Ø 4 x 175 mm - 45°
72015	Otoscope Ø 4 x 50 mm - 0°
72030	Telescope Ø 4 x 175 mm - 0° - autoclavable
72031	Telescope Ø 4 x 175 mm - 30° - autoclavable
ILLUMINATION HANDLES FOR ENDOSCOPES	
30795	FLYER HANDLE - light source for endoscopes
30794	FLYER LED HANDLE - powerful handhold light surce

71621+30795

MEDICAL CERTIFIED, CAMERA AND MONITORS

CE 0197

With anti-moiree filter

72509

TECHNICAL SPECIFICATIONS - 72509
Resolution PAL (lines horizontal):625
Video system: PAL 1/3 CCD - CHIP
Video outputs: Y/C (S-VHS), F BAS
Size (w x h x d): mm 150 x 80 x 30 mm
Camera head: Ø44x135mm
Norms: EN60601-1-BF/CE
Power supply: 100/230 V - 50-60/Hz
Made in Germany

GIMA code	CAMERAS, ACCESSORIES AND MONITORS
72509	C1 Compact Camera CCD chip 1/3 - soakable head and cable
72705	LCD Medical Monitor 15"
72704	Sony LMD 1420 MD - LCD Monitor - 14"
72706	Sony LMD 1950 MD - LCD Monitor - 19"
72707	Sony LMD 2140 MD - LCD Monitor - 21"

• **72510 ENT SOFTWARE REPORT**
Images acquisition and storage, data and visit management, customized reports printing, MS Win XP, ME, 2000 full compatibility VideoGrabee directly connected to the instrument's video source for image acquisition. Multilanguage version (Ita, Eng, Spa, Fra, Port), other languages on request.

SONY®

Flat medical approved monitor

Power: 100-240 V 50/60 Hz

Image size: 283x212 mm

72704

Resolution: 640x480 pixel (VGA)

150 W HALOGEN LIGHT SOURCES

CE

Opening for quick bulb replacement

Adjustable intensity knob

30801

Thanks to connectors it can be used with STORZ, WOLF, OLYMPUS, PENTAX, FUJI cables

Low noise fan

• **30801 GIMA LIGHT SOURCE 150 Watt**
Compact, lightweight, powerful light source for endoscopic use. Equipped with a 150 watt halogen bulb.
It has a small opening on the upper side for easy and quick replacement. A low noise fan positioned behind the halogen bulb provides the necessary cooling inside the metallic structure of the light source. A variable-intensity regulator enables selection 50 to 150 W. User manual in English, Spanish, French, Italian, Greek, Portuguese.

• **30802 GIMA DOUBLE LIGHT SOURCE 150 Watt x 2**
Similar to 30801, but with 2 independent bulbs, to illuminate at the same time 2 instruments or to quickly change if one bulb burns out.

GIMA code	CONNECTORS FOR GIMA LIGHT SOURCE TO DIFFERENT CABLES
30810	STORZ cable connector
30811	WOLF cable connector
30812	OLYMPUS cable connector
30815	PENTAX cable connector
30808	Spare lamp for GIMA light source

TECHNICAL SPECIFICATIONS
Input for GIMA, SCHOLLY and LUT cables
Dimension:21x20x h 11 cm / 29 x 20.7 x h 13.5 cm
Max power absoption: 170 Watt / 340 Watt
Two protection fuses: 1.6 A.T.
Power supply: 230V-50 Hz
Norms: IEC 601-1 - 93/42/EEC (Class: I - Type: BF)
Made in Italy: GIMA S.p.a.

F. O. HEAD LIGHTS

CE

Knob for easy adjustment

3.5mm fibre bundle cable length 2.3 meter

Professional and comfortable headband easily adjustable in circumference and height through two knobs

Thin illumination head
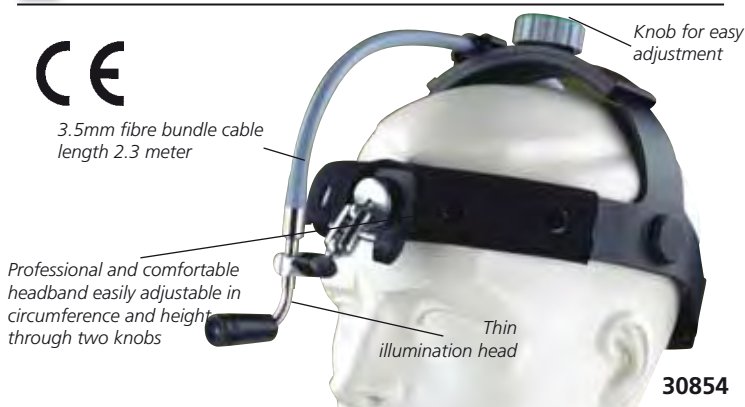
30854

• **30850 WIDA FIBRE OPTIC HEAD LIGHT**
• **30854 WIDA PLUS FIBRE OPTIC HEAD LIGHT**
fibre optic cable complete with head light system
WIDA illumination systems are available in two versions: one with simple headband and standard illumination head, the other with professional headband, easily adjustable, and thin head. Both include F.O. cable with adaptor for connection to GIMA light sources (30801-30802).
Here below are available connectors to other light sources. Light beam can be focused through a focusing ring.
• **30851 FOCUS DEVICE (for WIDA 30850) useful for ENT applications.** It reduces light in a very luminous spot Ø 5 mm.

Diameter focus:

DISTANCE	30850	30854
20 cm	7-15 cm	6-10 cm
30 cm	10-22 cm	9-15 cm
50 cm	16-35 cm	14-20 cm

An exceptionally bright headlight with an illumination head for coaxial, shadow-free illumination of the viewing area.

Illumination axis adjustable over a wide range

Headband is padded and fully adjustable in circumference and height.
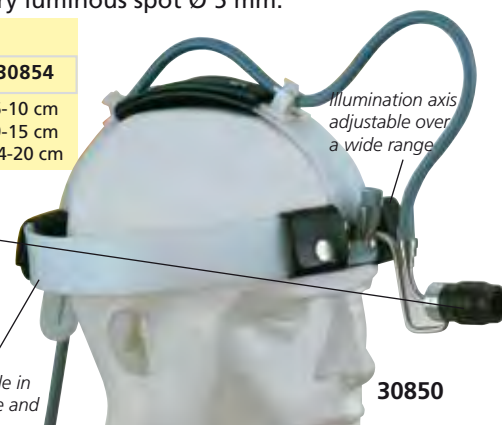
30850

SURGICAL FIBRE OPTIC LIGHT CABLES AND ADAPTORS

CE 0297

Autoclavable silicone cable
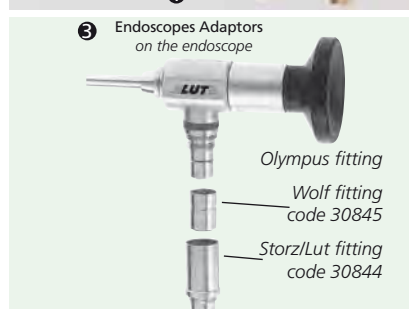
❶ **LIGHT SOURCE ADAPTORS** to connect GIMA F.O. cables to light sources

• **30830 GIMA light source adaptor**

• **30831 STORZ - AESCULAP-MARTIN light source adaptor**

• **30832 WOLF - HENKE SASS - DYONICS -MEDICON - COMEG light source adaptor**

• **30833 OLYMPUS light source ad.**
• **30834 ACMI light source adaptor**
• **30837 PENTAX light source ad.**

Endoscope adaptors (on the cable) ❷

Light source adaptors ❶

❸ **Endoscopes Adaptors on the endoscope**

LUT

Olympus fitting

Wolf fitting code 30845

Storz/Lut fitting code 30844

ENDOSCOPE ADAPTORS - on the cables to connect endoscopes to GIMA F.O. cables
❷

• **30840 ENDO STORZ adaptor**

• **30841 ENDO WOLF adaptor**
• **30842 ENDO ACM, OLYMPUS-STRYKER adaptor**

• **30818 FIBRE OPTIC CABLE 4.8 x 1,800 mm**
• **30822 FIBRE OPTIC CABLE 3.5 x 2,300 mm**
• **30823 FIBRE OPTIC CABLE 4.8 x 2,300 mm**
• **30826 FIBRE OPTIC CABLE 4.8 x 3,000 mm**

High transmission surgical light cables, armoured but highly flexible with unique features:
- no burn outs
- strain relieved by kevlar and protected by **silicone hose**
- **steam autoclavable** with warranty (12 months)
- light source end temperature resistant up to 300°C
- kink resistant
- no electrical interferences with endoscopic surgery units
- quality according MedGV and CE (min. 5000 V overvoltage protection)
- serial number reference marked on each cable
- stainless steel adaptors enables our cables to be used with other manufacturers light sources/instruments
• **29975 FIBRE OPTIC CLAMP**

❸ **ENDOSCOPE ADAPTORS - on the endoscope** to connect endoscopes to GIMA F.O. cables
• **30844 STORZ/LUT ENDOSCOPE ADAPTORS**
• **30845 WOLF ENDOSCOPE ADAPTORS**

29975

GIMA

ENT HEAD MIRRORS AND GIMA AC/DC TRANSFORMER

31138

31132

31130

• 31130 GIMA 5 AC/DC TRANSFORMER
This is a real transformer to feed Clar and Storz mirrors, Nystagmus glasses and any instrument which requires from 1.2V to 10V dc 500 mA power. Made in Italy.

TECHNICAL SPECIFICATIONS
Absorption: 6.6 Watt.   Power supply: 230 V - 50 Hz
Size: 163 x 105 x 60 mm   Norms: 93/42/EEC
User manual: English, Spanish, French, Italian, Greek, Portuguese.

GIMA code	MIRROR'S ACCESSORIES	Minimum order
31133	Spare glass for Clar mirror	-
31136	Spare glass for Storz mirror	-
31139	Spare glass for Storz mirror with reg.	-
31145	Bulbs for Clar and Storz mirrors (6 volt - 5W)	10 pcs.

• 31132 CLAR MIRROR - Ø 100 mm
Classic ENT head mirror (diameter 100 mm) in special German glass, mounted on an adjustable band. Bulb and power cable included. Sold in cardboard box. Made in Germany.

• 31135 STORZ MIRROR - Ø 55 mm
Classic ENT head mirror (diameter 55 mm) in special German glass, mounted on an adjustable band Bulb and power cable included. Sold in cardboard box. Made in Germany.

• 31138 STORZ MIRROR WITH FOCUS REGULATION - Ø 55 mm
Storz mirror as above but with focusing device.

NEW GENERATION ENT MIRRORS

31113

These new generation quality head mirrors Ø 55 or 100 mm illuminate perfectly the examination area in every situation. Long life 6V lamp provides bright and natural light, quality silver coated mirror allows optimum light reflection. Mirror and light beam can be easily and precisely adjusted.
Ergonomic and comfortable head band can fit any head size.
Available also in a sturdy plastic case with all accessories.

Lux 100 kit includes mirror with head band, bulb, extension cable 30 cm with on/off switch, extension cable 80 cm, battery case, plug in transformer

31111

Silver coated mirrors produce an extremely bright light

Simple adjustment using rotating knob

GIMA code	ENT MIRRORS
31110	LUX-55 mirror - Ø 55 mm - 6V
31111	LUX-100 mirror - Ø 100 mm - 6V
31112	LUX-55 Kit - Ø 55 mm - 6V
31113	LUX-100 Kit - Ø 100 mm - 6V
31114	Glass for LUX-55 - spare
31115	Glass for LUX-100 - spare
31116	Bulb for LUX mirrors - spare
31117	Battery case - spare

Comfortable, padded head band easy to remove for cleaning

31110

STANDARD ACCESSORIES	LUX MIRRORS 31110-31111	LUX KITS 31112-31113
Mirror with head band	•	•
Long life bulb	•	•
Extension cable 2 m (to trasformer)	•	
Extension cable with on/off switch 30 cm		•
Extension cable 80 cm		•
Battery case		•
Plug in trasformer 100/240V with cable		•
Sturdy plastic case		•

VISION XENON BATTERY HEADLIGHT

• 30855 VISION XENON LIGHT with soft headband
• 30856 VISION PLUS XENON LIGHT with rigid headband
Cordless lightweight headlight with xenon incandescent lamp suitable for mobile purpose and ENT examinations, available in two versions: with rigid head band for professional use and with soft headband for a more versatile use.
This headlight provides an incomparable mobility, an intensive and white light as well as a simple and comfortable handling. A special mirror focuses the beam to a concentrate spot.
• 30857 SPARE BULB for VISION
• 32201 "AA" ALKALINE BATTERIES - blister of 4 pcs

BULB APPROVALS

TECHNICAL SPECIFICATIONS
Weight: 160 g (incl. Batteries)
Power supply: 2x alkaline batteries size AA (included)
Bulb: 6,000 candle power xenon lamp (7 lumens)
Color temperature: approximately 3,200° K
Headband: - elasticated softband for code 30855
- rigid adjustable band for code 30856
Light outlet: height and inclination angle adjustable

| If working distance:	20 cm	30 cm
Then Spot-Ø	50 mm	65 mm
Intensity:	3200 lux	1500 lux

30855

30856

LED HEAD LIGHT AND LOUPES

• 30890 GIMA LED HEAD LIGHT - 3W
New LED Headlight provides cool, bright shadow-free, white light for procedures and examinations.
Supplied in alluminium box with rechargeable 7.2V lithium battery and recharger.

2.5 hours continuous run-time on a fully charged battery

25,000 LUX at 250 mm

6,000° KELVIN
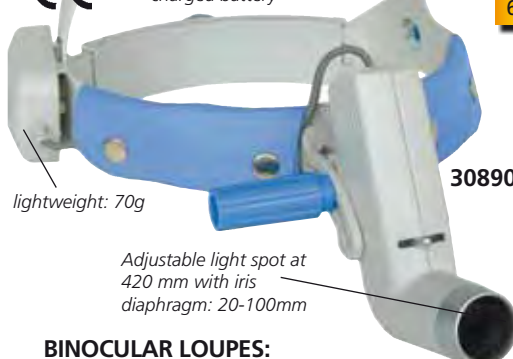
lightweight: 70g

30890

Adjustable light spot at 420 mm with iris diaphragm: 20-100mm

BINOCULAR LOUPES:
Light weight, ergonomically superior Galilean-style flip-up loupes. Can be used independently or mounted on 30890.
Multi-coated and high grade glass lenses provide clean and sharp image. Eyepiece with wide field of view. Deep focus to see object stereoscopically. Loupes angles can be easily adjusted between 0° and 40° to minimize fatigue even after prolongued use. 6 mm up and down displacement. Adjustable pupil distance to fit different types of face.

GIMA code	BINOCULAR LOUPES	Magnification	Working distance	Field of view Ø
30892	Binocular Loupe	2.5x	340 mm	80 mm
30894	Binocular Loupe	2.5x	420 mm	100 mm
30897	Binocular Loupe	3.5x	340 mm	65 mm
30898	Binocular Loupe	3.5x	420 mm	80 mm

HEINE LED HEAD LIGHT

POWERFUL LED ILLUMINATION

50,000 LUX at 250 mm

HEINE

HEINE OPTOTECHNIK

30885

• 30885 HEINE 3S LED HEAD LIGHT
Ultra bright and compact HEINE 3S LED HeadLight for powerful, coaxing illumination.
- **50,000 Lux of bright, white light:**
With a reference colour temperature of 5,600 Kelvin and an extraordinary 50,000 Lux of illumination, the 3S LED HeadLight is more than twice as bright as conventional Headlights
- **Compact and Light-Weight:**
The compact design ensures clear, unobstructed coaxial illumination. The 3S LED HeadLight weighs only 70 grams ensuring user comfort even during prolongued use.
- **Flexibility:**
Continuously adjustable spot size and brightness control. Mains or 2.5 hours operating time with portable power supply. Rechargeable battery pack and direct mains transformer included.

TECHNICAL SPECIFICATIONS	
Power supply:	Rechargeble Battery Pack with NiMH battery and direct mains transformer
Illumination:	50,000 lux at a working distance of 250 mm
LED operating life:	20,000 hours
Spot adjustment:	20 mm to 130 mm illuminated field diameter (at 500 mm)
Colour temperature:	5,600°K Made in Germany

WIRELESS DENTAL CAMERA

Light weight: 125g   *50x magnification*

255 mm

• 72531 WIRELESS DIGITAL INTRAORAL CAMERA
• 72534 DISPOSABLE COVERS - box of 500 pcs
• 72535 WIRELESS MONITOR 12"
• 72536 USB TRANSFER STATION TO PC
Wireless image transfer in 2 different modes:
❶ - To PC through USB TRANSFER STATION (72536)
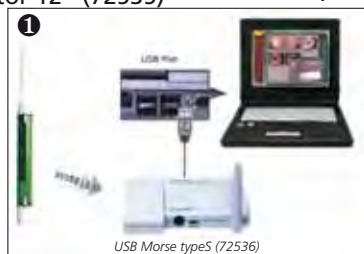❷ - Directly to dedicated monitor 12" (72535)
Main features:
- high quality CCD images
- brightness adjustment
- 2 images comparison mode
- battery level indicator
- auto focus
- 1.36 M pixels
- 15 images memory capacity
- anti-fog lens
- 50x magnification
- autoclavable cap

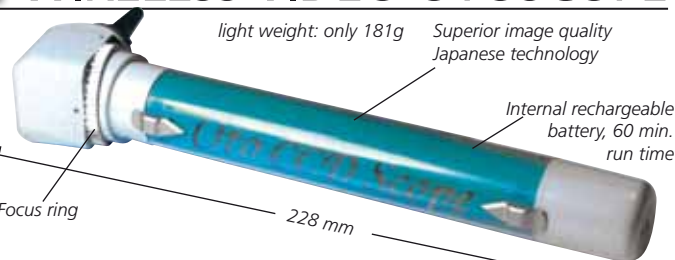**JAPANESE TECHNOLOGY**

With SD Memory card

❶

USB Morse typeS (72536)

WIRELESS VIDEO OTOSCOPE

light weight: only 181g   *Superior image quality Japanese technology*

Internal rechargeable battery, 60 min. run time

Focus ring   *228 mm*

• 72550 WIRELESS VIDEO OTOSCOPE
• 72551 EAR SPECULA - box of 2 pcs (Ø 2.5 and 3 mm)
• 72535 WIRELESS MONITOR 12"
• 72536 USB TRANSFER STATION
Wireless image transfer in 2 different ways:
❶ - To PC through USB TRANSFER STATION (72536)
❷ - Directly to dedicated monitor 12" (72535)
Main features:
- Led light
- integrated memory (16 images)
- easy focus with one finger
- internal battery: 60 min run time
- resolution 680,000 pixel
- supplied with charging station and 2 speculum (Ø 2.5 and 3 mm)

Dedicated monitor 12" (72535)

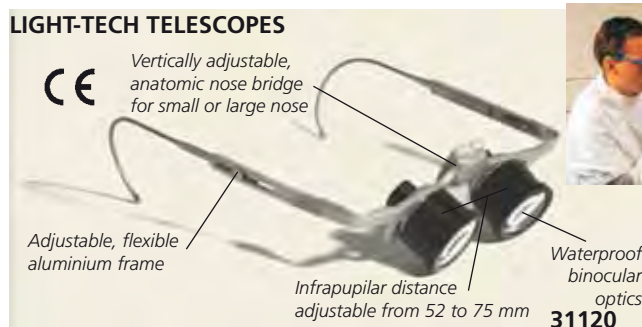# ■ MAGNIFYING LOUPES

31170

31172

• **31170 HEAD LOUPE two magnifying systems (2.2X and 3.3X).**
The system is mounted on an adjustable webbing head band
and provided with two separate lenses.
The first lens provides a 2.2 X magnification, moving down the
second lens, we reach a total 3.3 X magnification.
The superior quality of this lens permits high precision
examinations. The HEAD LOUPE magnifying system can be
used in combination with any kind of glasses. Made in Italy.

• **31172 BERGER BINOCULAR LOUPE 3.5x**
Two optically worked glass sphero-
prism in a moulded nylon body give an
approximate 3.5 X magnification.
On adjustable webbing head band.
Made in UK.

• **31142 ZIEGLER MIRROR - Ø 90 mm**
Concave back-silvered mirror, 90 mm
diameter with 13 mm diameter hole, on
adjustable band.
Special mount permits replacement of
glass mirror in event of breakage.
Made in Germany.

31142

■ SURGICAL AND DENTAL TELESCOPES

LIGHT-TECH TELESCOPES

Vertically adjustable,
anatomic nose bridge
for small or large nose

Adjustable, flexible
aluminium frame

Infrapupilar distance
adjustable from 52 to 75 mm

Waterproof
binocular
optics

31120

FLIP-UP TELESCOPES

Adjustable nose bridge
for different sizes
of nose

Flexible titanium frame
with safety string

Waterproof
binocular
optics

31177

Lateral protection

	Dental		Surgical	
Light-Tech Telescopes Flip-up telescopes	31120 31175	31121 31176	31122 31177	31123 31178
Magnification	2X	3X	2X	3X
Objective aperture mm	30	22	30	22
Ocular lens aperture	11	11	11	11
Field of view at 400 mm	100	45	130	80
Length of telescope mm	33	33	33	33
Working distance mm	350	350	450	450
Weight g	15	12	15	12
Depth of field mm	120	90	150	110

■ IUKO VISION MODULAR SYSTEM

VISION MODULAR SYSTEM
A unique modular system for all your needs. You can combine elements to protect, magnify,
light up, ... Any component can be used indipendently or combined with one or more.

PROTECTIVE SHIELD

TETI - 30860

• provide protection from squirts and spray
• extremely light 130 g and confortable
• folding shield behind the nape
• can fits over your glasses

MAGNIFYING GLASSES

DANAE - 30861

• optical system with magnifying
  glasses
• can fit over your glasses
• light, only 83 g
• adjustable to any face shape
• compatible with TETI

ADJUSTABLE PROJECTOR

IRIDE 30867

**TELESCOPE + PROJECTOR
+ SHIELD**

You can create below system adding protective
shield (TETI) to telescope+projector (NIKE)

**30870/1
+ 30860**

30870/71

TELESCOPE + PROJECTOR

NIKE 30870/1

This system includes Galileian telescope
(CALLIOPE) and LED light projector (IRIDE)

GALILEIAN TELESCOPES

**CALLIOPE
30864/5/6**

• magnifying optical
  system with Galilean
  telescopes
• waterproof telescope
• compatible with TETI

• adjustable LED light projector
• 2 different brightness intesity
  (30,000 and 50,000 lux at 25 cm,
  autonomy 6 and 4 hours)
• 6,500°K temperature
• autonomy 4 hours at maximum power
• battery pack placeable on the head band
• compatible with TETI

GIMA code	VISION MODULAR SYSTEM
30860	TETI - protective shield
30861	DANAE - magnifying glasses with 3 lens (1.7, 2.2, 3 x)
30864	CALLIOPE - Galilean telescope 3x - dental (working distant 35 cm)
30865	CALLIOPE - Galilean telescope 3x - surgical (working distant 45 cm)
30866	CALLIOPE - Personalized Galileian telescope: magnification from 2x to 3x, working distance from 28 to 60 cm - specify with order
30867	IRIDE - LED light projector
30870	NIKE - Galileian telescope 3x (35cm) + projector
30871	NIKE - Galileian telescope 3x (45cm) + projector
30875	Set of 5 transparent face shields - spare
30876	Battery pack - spare

OPERATING THEATRE LIGHTS FOR MAJOR SURGERY: 300,000 LUX

D 1200 (D600+D600): 300,000 LUX
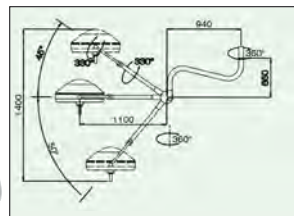
Light aluminium structure (tubing Ø 60 mm)

360° rotation without stopping

Standard DLE with D600

Adjustable luminosity

30719

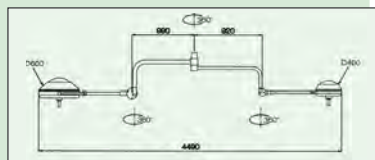*Elliptic reflector to obtain excellent luminous intensity*

D 600: 150,000 LUX

30716

D 800 (D400+D400): 200,000 LUX

D 1000 (D600+D400): 250,000 LUX

30717

30718

Special filters eliminate infrared rays guaranteeing cold light

Shadowless: total elimination of the shadows from operating field

Depth of light to hightlight details

ELLIPTIC LIGHTS

The correct illumination of the operating field requires "Quality light". Quality GIMA offer, satisfy requisites of quality:
- exact reproduction of IRC colours
- total elimination of the shadows on the operation field
- deep illumination to highlight smallest details
- cold light, avoiding dehydration of the tissue
- uniform wave length

These high technology apparatuses are designed to guarantee technical-illumination performance, unique of its kind. Complex mathematical calculations permitted the creation of the original and revolutionary stratified and in-depth multi-elliptical reflector for intense shadowless light. The reduced dimensions and the lightness of the reflector give the product stability and make it extremely easy to handle. Special filters eliminate the infrared rays generated by the halogen lamp, guaranteeing cold light.The luminous beam is always in focus, from a minimum distance of 60 cm. The diameter of the illuminated field is manually adjustable by rotating the sterilizable handle at the centre of the reflector.

Other features:
- Luminous intensity can be adjusted electronically by 20000 lux up to maximum intensity
- Central and lateral non stop 360° rotation
- Rapid engagement handle sterilizable at 134°C
- Diffusion screen in tempered glass protects luminous source
- Light aluminium structure (Ø 60 mm) for easy installation
- Optional battery group consisting of batteries, battery charger, and electric circuit with 1 hour autonomy.
- "Elliptic" reflector for excellent luminous intensity
- DLE device consisting of electronic commutation card and reserve lamp for immediate reserve lamp switch-on in case of damage of main lamp (standard for D600, optional for D400). Lights include iron anchoring tube, ceiling welded plate, covering and control panel for light intensity regulation. Conform to the 93/42 CE Medical Device directive and marked CE as a CLASS I medical device.

GIMA code	ELLIPTIC THEATRE LIGHTS*
30716	D600 Elliptic light: 150,000 lux
30717	D800 Elliptic light: 200,000 lux (100,000+100,000)
30718	D1000 Elliptic light: 250,000 lux (150,000+100,000)
30719	D1200 Elliptic light: 300,000 lux (150,000+150,000)

*Specify ceiling height with order

GIMA code	ACCESSORIES
30731	Spare bulb D400
30729	Spare bulb D600
30732	Spare autoclavable handle
30728	DLE commutation with reserve bulb**
30726	Battery group for D600*** 1 hour autonomy
30727	Battery group for D800*** 2 hours autonomy
30725	Battery group for D1000 / D1200***

Standard with D600, optional for D400   * To be installed at order

TECHNICAL SPECIFICATIONS:			30716	30717	30718	30719
Performance	Light intensity at 1 m distance (Ec)	klx	150	200 (100+100)	250 (150+100)	300 (150+150)
	Color temperature of radiated energy	°K	4,200	4,200	4,200	4,200
	Color rendering index (CRI)	Ra	94	94	94	94
	Light field adjustable from/to	cm	11/23	10/18	11/23	11/23
	Total radiated energy Ee where the illumination reaches max level	W/m²	490	230+230	490+230	490+490
Electrical data	Operating power	V	230 (110 on request) - 50/60 Hz			
	Electrical absorption	VA	190	120+120	190+120	190+190
	Lamp type (24V)	W	150	100+100	150+100	150+150
	Average lamp life	h	2,000	2,000+2,000	2,000+2,000	2,000+2,000
	Electrical control of the illumination		dimmer	dimmer	dimmer	dimmer
General data	Colour		Ral 9003	Ral 9003	Ral 9003	Ral 9003
	Minimum height of the room	cm	299	270	279	289
	Norms	Standard	93/42 EEC - IEC 60601-2-41			
	Diameter of the cupole	cm	63	40+40	63+40	63+63
	Diameter of elliptic reflector	cm	56	36+36	56+36	56+56
	Useful lighting surface	cm²	2310	740+740	2310+740	2310+2310
	Weight	Kg	45	35+35	45+35	45+45

110

PENTALED MINOR SURGERY LAMP 100,000 LUX

LED LIGHT INNOVATIVE TECNOLOGY
This new source of compact light provides many advantages:
- LED do not emit infrared rays so that the light generated is completely cold
- LED do not emit ultra violet rays
- The life of LED is over 50,000 hours (over 25 times than traditional lamp)
- The colour temperature always remain constant
- Every parabola reflects homogeneous white light without showing edges of colour on the illuminated part
- Low power consumption for a more economic solution (increasing battery autonomy up to 4 hours)

PENTALED 30 (15+15): 2 differents lights
Is a high-tech surgical light with LED Technology. Light beams are indirectly reflected through an elliptical parabola to obtain shadowless light. Light can be easily selected through an electronic device to obtain two different colour temperature of 4,500°K or 5,000°K. Only 30 LEDS for 100 Klux. Optional battery with 4 hours autonomy.

BATTERY WITH 4 HOURS AUTONOMY

TECHNICAL SPECIFICATIONS

Light intensity at 1 m distance (Ec)	Klx	60 to 100
Colour temperature of radiated energy - switchable	°K	4,500 to 5,000
Colour rendering index (CRI)	Ra	94 / 90
Light field diameter where the illuminance reaches 10% of Ec (d10)	mm	200
Light field diameter where the illuminance reaches 50% of Ec	mm	90
Total radiated energy Ee where the illumination reaches max level	W/m²	112

GIMA code	PENTALED 30
30780	Pentaled-mobile
30779	Pentaled-mobile with Battery group and automatic charger
30781	Pentaled - wall
30782	Pentaled - ceiling
30783	Pentaled - ceiling - double
30785	Autoclavable handle - spare

30781   30782

30783   30780
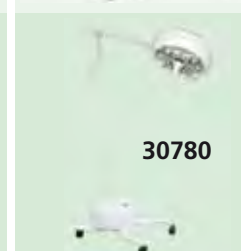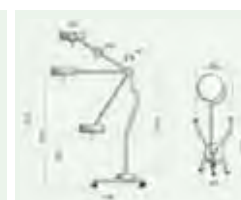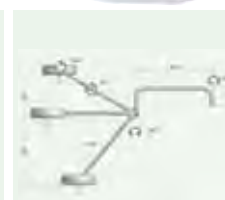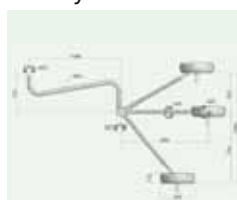
SINGLE BULB THEATRE LIGHT 100,000 LUX

D400 SINGLE-BULB THEATRE LIGHT
Modern theatre light with innovative design. Its single bulb system focuses the light deeply inside tissues and not only around them. A sterilizable handle enables the user to adjust light field size. Uniform parabola shape for easy cleaning.
Theatre light with battery group.
Available with battery group and automatic charger, lead acid battery, maintenance free, 1 hour autonomy, 6 hours recharging time.
DLE - Lamp switch automatic system - available on request
Light can be equipped with 2 electronically controlled halogen lamps. In case the main lamp does not work, the second lamp automatically takes over and a LED flashes to warn.
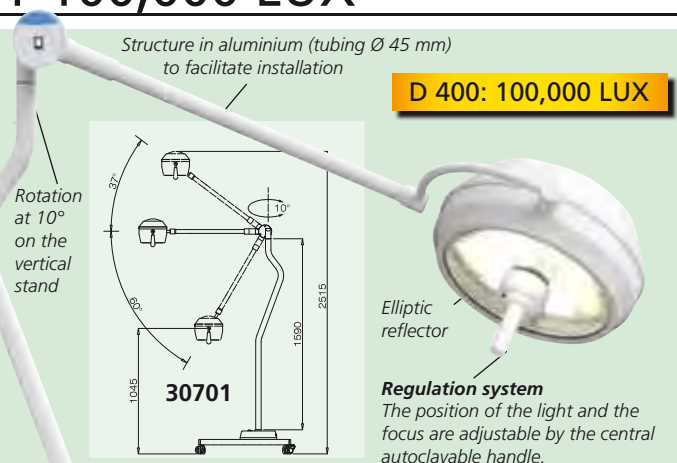
Structure in aluminium (tubing Ø 45 mm) to facilitate installation

D 400: 100,000 LUX

Rotation at 10° on the vertical stand

Elliptic reflector

Regulation system
The position of the light and the focus are adjustable by the central autoclavable handle.

TECHNICAL SPECIFICATIONS

Halogen bulb 100 W 24V G 6.35
Power consumption: 100 W
Bulb life: 2,000 h at 22.8 V
Light intensity: 100,000 lux from the distance of 1 m
Colour temperature: 4,200 K +/- 5%
Diameter illuminated field: from 100 to 180 mm
External diameter of the reflector: 400 mm
Colour: white RAL 9003
Regulations: IEC 60601-2-41 CE 93/42/EEC, EMC 89/336CEE
Weight: 38 Kg (mobile stand version)
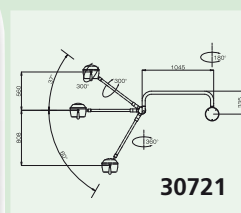Power supply: 230/24 V - 50/60 Hz. (110V on request)
Made in Italy

30701

30701   30721   30711

CE 93/42 EEC

| GIMA code	D400 SINGLE BULB THEATRE LIGHTS
30701	Scialytic light - mobile
30702	Scialytic light - mobile with Battery group and automatic charger
30711	Scialytic light - wall
30721	Scialytic light - ceiling
30731	Spare halogen bulb 100 W, 24 V
30732	Spare autoclavable handle - for single bulb scialytic
30728	DLE - Lamp switch automatic system

4 antistatic rubber castors (2 with brake)
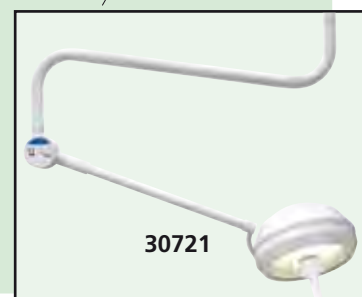
30721

THEATRE LIGHTS - 3 HALOGEN BULBS - 50,000 LUX

THEATRE LIGHT with three 25W-12V halogen bulbs
The multiple luminous fonts and the parabolic arch calculated for each parabola avoid shaded areas. Sensible mechanical movement allows easy positioning and adjustability.
A practical sterilizable handle allows to focus the light beam.
Does not require periodical maintenance.
Bulb-replacement (life 3,000 hours) is extremely easy.
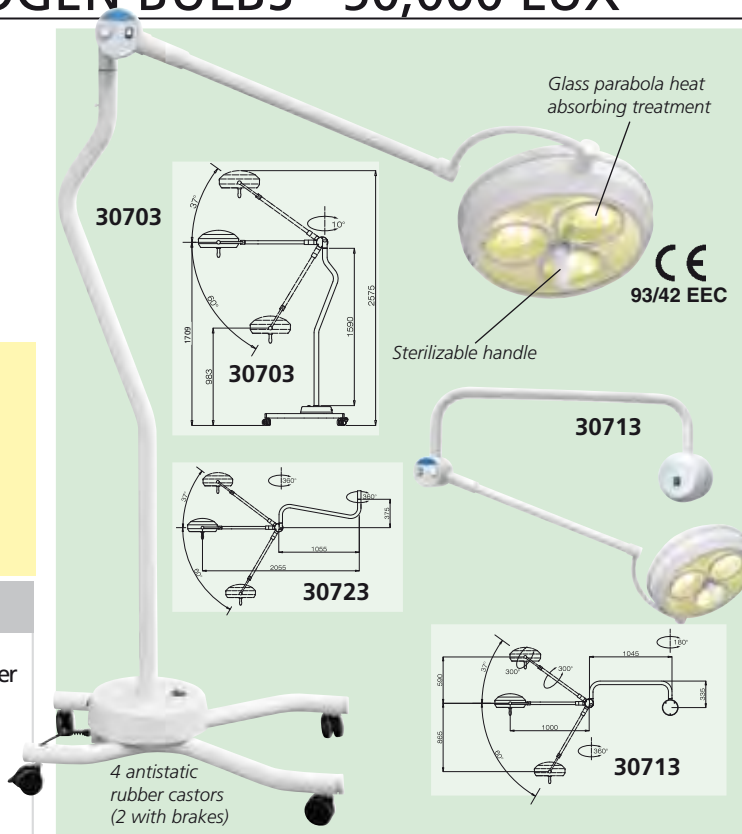**Battery group with automatic charger:**
Light is available with battery group. Lead acid battery, maintenance free, 1 hour autonomy, 6 hours recharging time.

Glass parabola heat absorbing treatment

Sterilizable handle

93/42 EEC

30703

30703

30713

30723

30713

4 antistatic rubber castors (2 with brakes)

TECHNICAL SPECIFICATIONS
Light intensity: 50,000 lux from a distance of 1 m
Diameter of the reflector: 400 mm
Light field size adjustable from-to: 84-160 mm
Bulbs: 3 x 25 W - 12 V halogen - life 3,000 h
Colour temperature: 4,000° K +/- 5%
Power supply: 230/12V - 50/60 Hz (110V on request)
Norms: IEC 60601-1, IEC 60601-2-41 - MDD 93/42/EEC
Made in Italy   Warranty: 12 months
Mechanical components warranty: 10 years

GIMA code	SCIALYTIC LIGHTS WITH 3 HALOGEN BULBS
30703	Scialytic light - mobile stand
30704	Scialytic light - mobile with Battery group and automatic charger
30713	Scialytic light - wall
30723	Scialytic light - ceiling
30733	Spare halogen bulb 24W, 12V - up to serial no. 8624
30735	Spare halogen bulb 25W, 12V - since serial no. 8625
30734	Spare autoclavable handle - for scialytic 3 bulbs

SATURNO MINOR SURGERY OPERATING LIGHTS - 40,000 LUX

Rotation at 10° on the vertical stand without need to rotate base

Cold light: the parabola in optical glass is vacuum treated with deposit of thin layers to filter the infrared rays (heat) and allows issuing cold light onto the operative field

SATURNO MINOR SURGERY LAMP
SATURNO is a shadow-less type lamp suitable for small surgery and first-aid room. Available in three versions: mobile with castors, wall and ceiling.
- Light beams are generated from a 75W 12V halogen bulb.
- Vacuum treated glass parabola eliminates 98% of IR rays enabling cold light.
- Heat is dissipated through aluminium reflector.
- Glass protection filter grants colour temperature of 4,000K.
- Parabolic arc grants shadow less and deep light, no focus adjustment needed

30705

360° rotation without stopping

Vertical movement

30707

4 antistatic rubber castors (2 with brake)
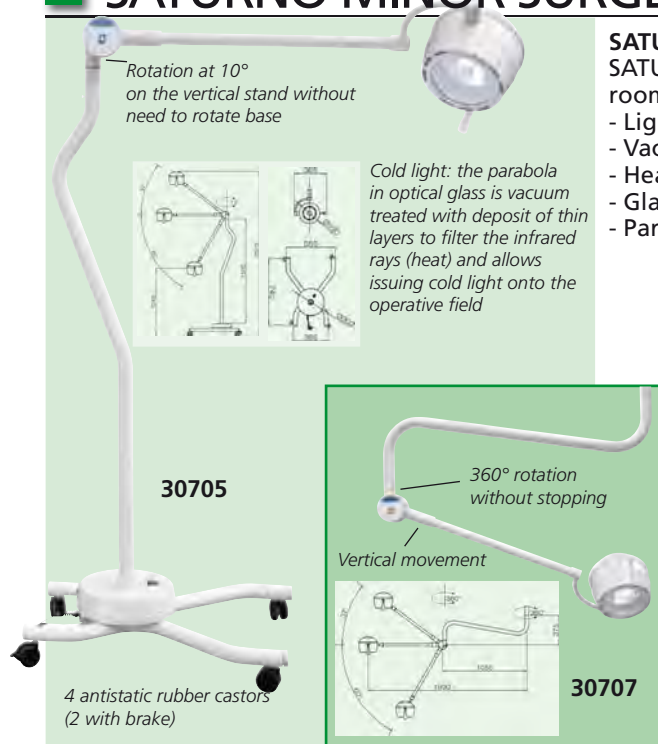
TECHNICAL SPECIFICATION
Light intensity at 1 m distance	Lux	40,000
Colour temperature of radiated energy	K°	3,500 ± 5%
Halogen bulb 75W 12V G.6.35	No.	l
Consumption	W	1 x75W
Average lamp life of halogen bulb approximately at 12V	h. ± 10%	1,500
CRI (Colour rendering Index)	Ra	94
Light field where the illumination reaches 10% of Ec (d10)	Ø mm	150
Depth of illumination (L1+L2) at 20%	mm	1,280
Focusable at a distance from - to	cm	78 - 150
Absorption infra-red rays	%	98
Total radiated energy Ec	W/m²	190
Light body diameter/Glass parabola diameter	mm	230/160
Useful lighting surface of the cupola	cm²	200
Sterilizable handle	No.	1
Weight (ceiling, mobile, wall)	Kg	26 - 31 - 22
Power requirements	V	230 (110 on request)
Minimum height of the room (ceiling version)	mm	2,700
Standards: IEC 60601-2-41, MDD 93/42 CEE, medical device of Class I,		

Load bearing "Light structure" in aluminium with tubing Ø 45 mm facilitates installation for any type of ceiling or wall
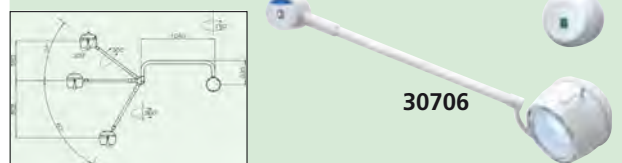
30706

GIMA code	SATURNO LIGHTS
30705	Saturno light - mobile stand
30709	Saturno light - mobile stand with battery group with automatic charger - autonomy 1 hour
30706	Saturno light - wall
30707	Saturno light - ceiling
30708	Spare halogen bulb 75W - 12V - G 6.35
	Battery group available on request for all models
30734	Spare autoclavable handle for Saturno

GIMA

ESALED SHADOWLESS, COLD LIGHT LAMP - 30,000 LUX

• 30710 ESALED - on trolley
COLD LIGHT LAMP WITH LED TECHNOLOGY SHADOWLESS TYPE
6 white LED of 2.5W each 24V - 30,000 lux at 50 cm distance
Six leds light sources of 2.5W each with glass lens to optimize the light performance. Thanks to many indipendents light sources it is possible to assure shadowless light and low radiated energy temperature. ESALED is suitable for examination purposes, it is unsuitable for surgery room.

Other fixing system, available (wall, rail, table)

Ⓐ Trolley   Ⓑ Wall   Rail mm. 1000 Ⓒ   Table Ⓓ

30710
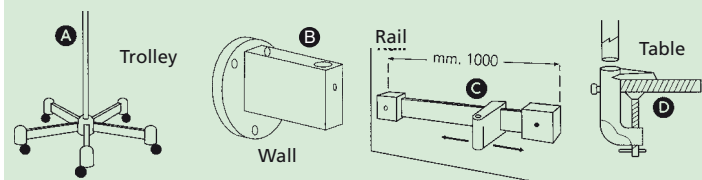
TECHNICAL SPECIFICATION
Power consumption: 15W
LED life: 30,000 hours
Light intensity: 30,000 lux at 50 cm, 10,000 lux at 1 m
Colour temperature: 5200°K +/- 5% at 1 m
Illuminated field at 50 cm: Ø 200 mm
External diameter of the reflector: 135 cm
Temperature increase in the operating area at 1 m : 1°C
Adjustable height with castors: 600 mm - max 1600 mm
Power supply: 230V - 50 Hz - 50 VA (110 on request)
Weight: 10 Kg
Made in italy
Norms: CEI 62-5, IEC 60601-1
       CE, 93/42 EEC

THEATRE-TYPE LIGHT - 40,000 LUX

• 30700 POLAR LIGHT - on trolley
Scialytic-type lamp with cold and deep light
Halogen 50W 24V - 40.000 lux
The light beam is generated by halogen bulb 50W 24V located inside a fused-glass parabola with thin-layer treatment to filter infrared beams. This treatment permits to obtain "cold light". Other fixing systems available (wall, rail, table) - see above
• 30730 SPARE BULB for POLAR LIGHT

CEI 62-5

30700

CE 93/42

TECHNICAL SPECIFICATION
Power consumption: 50 W - 24 V
Bulb life: 1,500 h
Light intensity: 40,000 lux at 50 cm, 25,000 lux at 1 m
Colour temperature: 4,000°K +/- 5% at 1 m
Illuminated field at 50 cm: Ø 200 mm
External diameter of the reflector: 230 mm
Adjustable height with castors: min 600 mm - max 1,600 mm
Power supply: 230V - 50 Hz - 50 VA
Weight: 12 kg
Made in Italy
Regulations: CEI 62-5, IEC 60601-1 CE, 93/42/EEC, IMQ

GIMANORD

• 30750 GIMANORD desk model - with clamp
• 30751 GIMANORD on trolley
Magnifying glass self-illuminating fluorescent cold light 3 dioptres (1.75 x). Suggested for dermatology, it is equipped with a biconvex magnifying glass Ø 120 mm in optical glass. The cold fluorescent light allows prolonged use. Light source protection in plexiglass. Available also with wall support. Made in Italy.
• 30767 FLUORESCENT LAMP 22W - SPARE
• 30769 SPARE TROLLEY

30750

Magnifying glass Ø 120 mm

30751

FOR DERMATOLOGY

TECHNICAL SPECIFICATIONS
Type of lighting: fluorescent	External diameter of the reflector: 230 mm
Consumption: 22 Watt	Norms: IEC 598-1 Marks: CE (73/23 IEC)
Life of the bulbs: 6,000 hours	Weight: 6 kg
Light intensity at 50 cm: 550 lux	Operating voltage: 230 V - 50 Hz
Light intensity at 1 meter: 275 lux	(available 60 Hz with trasformer)
Colour temperature +/- 5% at 1 m: 4,550 °K	Adjustable height (30751): 60-180 cm
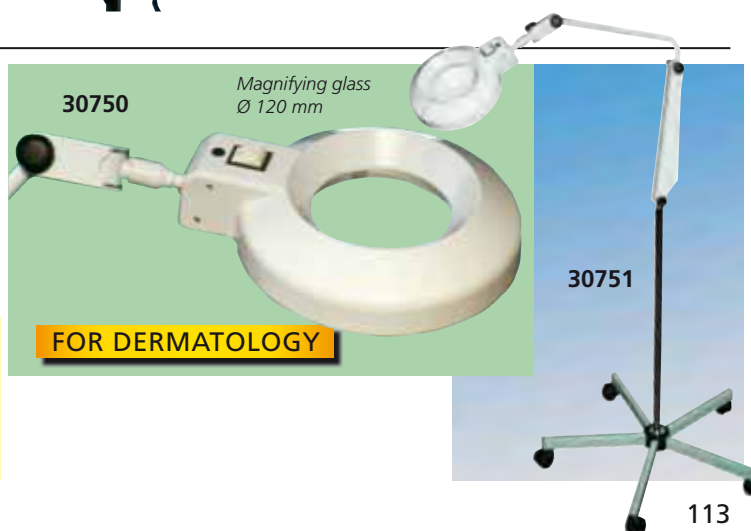
■ HALOGEN AND FLUORESCENT LIGHTS

WITH 2 BULBS

40.000 LUX

30.000 LUX

73/23

CEI 62-5

93/42

30747

Length of arm +lamp 95 cm

30760

30740

- **30747 SOLESUD 2 on trolley**
Halogen examination light with articulated joint arm.
- **30748 SOLESUD 2 wall**
Suitable for gynaecology, examination and head-bed. Aluminium reflector is equipped with 2 halogen dichroic bulbs, 20W 12V IRC protected by a tempered glass, hermatically sealed against dirt and fluid spray and with ergonomic handle for movement.
Bulbs switch on simultaneously and, in case one breaks, light is always assured.
Arm is made with articulated joint and mechanical frictions.
A light beam of 180 mm diameter at a distance of 50 cm allows precise and reliable examinations.
Base with 5 rotary spokes, 900 mm height. Generates a light intensity of: 40,000 lux at 50 cm. Made in Italy.
- **30769 SPARE TROLLEY**
- **30764 SPARE BULB SOLESUD 2 - 20 W**
For code 30747-8
- **30765 SPARE BULB SOLESUD - 50W**
For code 30745-6

- **30760 SIMPLEX on trolley**
Halogen examination light with flexible arm.
- **30761 SIMPLEX wall**
- **30762 SIMPLEX table with clamp**
An economic solution for your ambulatory! This lamp is equipped with a halogen dichroic bulb 35W 12V situated inside the aluminium reflector and protected by a tempered glass. Thanks to its flexible arm (700 mm long) it bends everywhere the task requires without interfering with operator's view. Supplied on a 5 castors stand for easier mobility.
Generates a light intensity of: 30,000 lux at 50 cm. Made in Italy.
- **30766 SPARE BULB SIMPLEX - IRC 35 W**
- **30768 SPARE TROLLEY**

Trolley   Rail   mm. 1000   Table

A   B   C   D
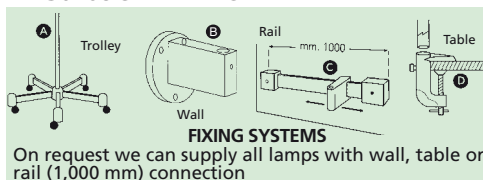
Wall
FIXING SYSTEMS
On request we can supply all lamps with wall, table or rail (1,000 mm) connection

- **30740 SOLENORD on trolley**
Magnifying glass self-illuminating fluorescent cold light - 3 dioptres
- **30741 SOLENORD wall**
Suggested for dermatology, this model is equipped with a biconvex magnifying glass diameter 120 mm, in optical glass. The cold fluorescent light allows prolonged use.
Light source protection in plexiglass. Thanks to its spring arm and to the 5 castors trolley it is very easy to change its position whenever necessary.
Fluorescent circline 230 V. This light has been certified by IMQ the most important Italian notified body for certification. Made in Italy.
- **30767 SPARE FLUORESCENT LAMP - 22W**
- **30771 SPARE PLEXIGLASS SHIELD**
- **30769 SPARE TROLLEY**

ALL LIGHTS AVAILABLE ALSO AT 110 V

Model	SOLESUD 2	MINI MED	SIMPLEX	SOLENORD
Type of lighting	halogen	halogen	halogen	fluorescent
Consumption (Watt)	2x20	20	35	22
Life of the bulbs (hours)	5,000	5,000	5,000	6,000
Light intensity at 50 cm (lux)	40,000	15,000	30,000	550
Light intensity at 1 m (lux)	8,000	3,000	8,000	275
Colour temperature +/- 5% at 1 m (K)	3,000	3,000	3,000	4,550
Light field size at 50 cm (ø mm)	180	100	100	-
Dimmer	yes	no	no	no
External diameter of the reflector (ø mm)	140	70	105	230
Temperature increase at 1 m. (°C)	2	2	2	0
Colour	white	white	white	white
Norms	IEC 601-1	IEC 598-2-25	IEC 598-2-25	IEC 601-1
Marks	CE93/42	CE 73/23	CE 73/23/EEC	CE93/42 - IMQ
Weight (kg)	6	2	5	7
Operating voltage V-Hz	230 - 50/60	230	230 - 50/60	230 - 50
Adjustment height with castors base: min and max approx cm.	60-160	60-160	60-160	60-160

- **30758 MINI MED on trolley**
Halogen examination light with flexible arm
Halogen dichroic bulb 20W 12V 15000 lux at 50 cm
Examination light equipped with a halogen dichroic bulb 20W 12V 12° and with glass protection shield. Reinforced flexible arm 70 cm length with ergonomic reflector easy to move.
- **30772 SPARE BULB MINIMED**

GIMA

DIAGNOSTICS

GIMA HALOGEN SKIN SURFACE MICROSCOPE 10x

• 31187 GIMA DERMATOSCOPE - 10X
Advanced skin surface microscope opens up a new dimension in the diagnosis of pigmented skin lesion by offering you long-lasting halogen illumination for the true tissue colour and 10X magnification for greater detail, resulting in more accurate diagnoses. Supplied in a useful nylon bag, with spare autoclavable contact plate with 0-10 mm scale. Latex free.

• 31183 DERMATOLOGY OIL - box of 4 bottles of 12.5 ml
• 32203 "C" BATTERIES - blister of 2 pcs.
• 31479 SPARE BULB

Plug in and snap, easy locking

TECHNICAL SPECIFICATIONS
2.5V halogen light
Battery operating (2x"C" site)
Advanced 10X optic system, Reticla contact plate
Easy to focus, with large focus ring
Fully portable with its pouch

31183

Supplied with 2 autoclavables contact plates (one millimetrated)

31187

HEINE DELTA 20® DERMATOSCOPY SET 10x

• 31182 HEINE DELTA 20® DERMATOSCOPE SET - 2.5V
• 31179 SMALL CONTACT PLATE Ø 8 mm for DELTA 20
The DELTA 20 with 6-LED full-illumination or 3-LED lateral illumination combined with high-resolution precision optics using achromatic lenses is the result of dedicated research by HEINE.
- The illumination of the 6 LED's is not direct, but rather projected through precision cylindrical light guides, producing a much more homogeneous light.
- Can choose to illuminate with just three LED's for lateral illumination, increase contrast significantly.
- Ocular-opening with a Ø of 21 mm for a much larger view
- Precision focusing mechanism with range of ± 6 dioptres
- Contact plate always in contact with skin for better image
- Field of view of 23 mm diameter:area of 380 mm² all in focus
Supplied in hard case with 2.5V battery handle, contact plate Ø 23 mm with scale, 10 ml dermatoscopy oil and dermatoscopy compendium.
• 31184 HEINE DERMATOSCOPE MINI 3000 - 10x

HEINE OPTOTECHNIK

31179 **31182**

WOOD BLUE LIGHTS: TROLLEY, MANUAL AND POCKET MODELS

31195

31192

31199

31191

• 31195 WOOD DELUXE - manual
• 31199 WOOD DELUXE - on trolley
These new models have integrated rectangular biconvex magnifying glass 105x53 mm - 4 dioptres.
Size: 200x195xh47 mm - Weight: 0,3 kg
• 31198 NEON BULB 4W - spare

• 31191 WOOD BLUE LIGHT - manual
• 31192 WOOD BLUE LIGHT - on trolley
Special blue fluorescent light for the detection of details and colours invisible under normal light system.
• 31193 1.5X MAGNIFYING LENS - optional
• 31194 NEON BULB 6W - spare (435x Ø 25 mm)

**TECHNICAL SPECIFICATIONS
(31191-31192-31195-31199)**
Length long wave 360 nm
Norms: CEI 62-5, IEC 601-1, CE 93/42/EEC
Operating voltage: 230 V-50 Hz (60 Hz on request)
                            (not available at 110 V)

31189

Weight 110 g w/o batteries   Size: 17 x 6 x 2 cm

• 31189 POCKET WOOD LIGHT
Pocket ultraviolet light, to detect skin disorders. Also provided with a standard white light 3W. Works with 4xAA batteries with 4-6 hours autonomy.

115

ΙΝΕΜΑ ΣΟΦΟΥΛΗ 83 ΡΟΔΟΣ ΤΗΛ: 2241032238

DIAGNOSTICS

■ SCHIÖTZ TONOMETER

• **31220 SCHIÖTZ TONOMETER - straight scale**

• **31222 SCHIÖTZ TONOMETER - inclined scale**
A masterpiece of precision mechanism, measures intraocular pressure according to Prof. Schiötz standards. Vital parts are made of stainless steel.
Agate stone inserted.
Set 3 weights included (5.5 - 7.5 - 10 g).
Scale specification 5.
In black deluxe case with velvet-look inserts. Perfect reading of the scale with red pointer.
Made in Germany.

Riester CE 0124

31220 straight   **31222 inclined**

■ HEINE OMEGA 500®

• **31753 HEINE OMEGA 500 - Binocular Indirect Ophthalmoscope with mPack power source, rheostat, transformer and 90°, angled adapter**

- **Super light weight**
Weighs only 450g!
- **Clearer, Crisper views**
A new illumination system, including Xenon Halogen Technology bulb produces less reflexes off the cornea and clear, high resolution images of the fundus that are up to 100% brighter.

HEINE OPTOTECHNIK

- **Enhanced variable pupil function**
Allows for the precise, synchronized selection of observation and illumination optics for any pupil size. This patented system has been optimized and will now provide stereopsis in pupils ranging from 10 mm down to 1 mm.
- **Fully featured**
3 Spot sizes: Large, Medium, and Small. Integrated diffused light filter. 3 Integrated Filters: Red-free, Cobalt Blue, and Yellow.
- **Omega headband comfort**
Articulating Rear Hinge provides vertical adjustment of the rear band of the headband for individual placement.

■ BIOLOGICAL MICROSCOPES - MAGNIFICATION 40X-1600X

• **31001 BIOLOGICAL MICROSCOPE - 40X to 1600X**
High level microscope with high resolution and transmission
Main features:
- Compensation free binocular head
- Eyepiece WF 10X, P16X
- Semi-plan achromatic objectives 4X, 10X, 40X(s), 100X(s, oil)
- Quadruple nosepiece
- Mechanical stage double layers 140 x 140 mm / movement range 75 x 50 mm
- Halogen lamps illumination 220V-50Hz/6V 20W (switchable at 110V)
• **31005 SPARE BULB (for 31001)**

Fine focusing knob

Precise focusing system. *Easier comparing test with dual slides finger of mechanical stage.* *Big Operating Space with Backwards Nosepiece. Sharp Image with high quality objectives.*

31001

Binocular system

Quadruple nosepiece and objectives

Fine focusing knob minimum division 0.002 mm

• **31000 BIOLOGICAL MICROSCOPE - 40 to 1000X**
- 30° compensation free binocular head
- Eyepiece 10X (Field 18 mm)
- Achromatic objectives 4X, 10X, 40X(S), 100X(S, oil)
- Total magnification 40x, 100x, 400x, 1000x, depending on objective
- Interpupillary distance adjustment: from 55 to 75 mm
- Mechanical stage, double layers 125 x 135mm
- Movement range: 75 x 35mm
- Abbe condenser with iris diaphragm and filter
- Halogen lamp 6V, 20W - brightness adjustment
- Power supply: 220 V - 50 Hz (switchable at 110V)
• **31005 SPARE BULB (for 31000)**

31000

116

GIMA

HEINE OTO-OPHTHALMOSCOPES

HEINE OPTOTECHNIK

• **31720 HEINE K 100 HALOGEN OTOSCOPE - 2.5V**
Otoscope with BETA battery 2.5V handle with rheostat and 3 reusable specula in nylon pouch.
• **31771 HEINE 037 OTOSCOPE BULB 2.5V - spare**

6 diaphragms standard

6 diaphragms with green filter

• **31730 HEINE BETA 200 HALOGEN OPHTHALMOSCOPE - 2.5V**
The ophthalmoscope's unique aspherical optic system eliminates corneal and iris reflexes. The illuminated area of the retina remains fully visible even in case of small pupil (bright light). BETA 200 has 6 diaphragms with separately interlocking "green interferential filter". It is recommended for small or expanded pupils; suitable for slit or fluorescent ophthalmoscopy as well as for fixation test. Range -35D to +20D. Supplied in hard case with replacement bulb.
• **31781 HEINE 069 OPHTHALMO BULB - 2.5 V - spare**
• **31735 HEINE BETA 200S OPHTHALMOSCOPE - 2.5V**

31730

Supplied in hard case with spare bulb
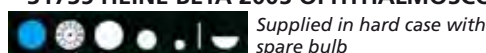
• **31740 HEINE K180 - F.O. OTO-OPHTHALMO SET - 2.5V**
Otoscope and ophthalmoscope K180 with BETA battery 2.5V handle and a set of single use specula. Supplied in hard case.
• **31782 HEINE 084 OPHTHALMO BULB 2.5V - spare**
• **31772 HEINE 077 OTOSCOPE BULB - spare**
• **31741 HEINE K180 OPHTHALMOSCOPE - 2.5 V**

• **31725 HEINE BETA 200 F.O. OTOSCOPE - 2.5V**
F.O. Otoscope with BETA battery 2.5V handle with rheostat, a set of single use specula, a set of reusable specula and a spare bulb. Supplied in hard case.
• **31772 HEINE 077 OTOSCOPE BULB - spare**
• **31745 HEINE BETA 200 RETINOSCOPE - slit - 2.5V**
• **31746 HEINE BETA 200 RETINOSCOPE - spot - 2.5V**

HEINE MINI 3000 OTO-OPHTHALMOSCOPES

31680   31685   31686

5 different apertures
- **Large spot** *for normal fundus examinations.*
- **Small spot** *for reduced reflection with small pupils.*
- **Fixation star** *for determination of central or eccentric fixation. Expecially suited for examining children.*
- **Hemispot** *for reduced reflection with small pupils.*
- **Red-free filter** *for contrast-enhancement when assegning fine vascular disorders*

• **31680 HEINE MINI 3000 OTOSCOPE - black**
• **31681 HEINE MINI 3000 OTOSCOPE - blue**
• **31684 HEINE MINI 3000 F.O. OTOSCOPE - black**
• **31685 HEINE MINI 3000 F.O. OTOSCOPE - blue**
High quality compact otoscopes with following features:
- Enhanced XHL Xenon Halogen Technology with 100% more light compared with conventional bulbs. Very bright, concentrated white light.
- Swivelling viewing window built in, with 3x magnification and optimised casing surface for razor-sharp images and minimal reflection.
- Attachment clip with integrated on/off switch. Switches off automatically when returned to the pocket.
- High-quality handle: chrome-finish upper section/refined plastic.
Shockproof, sturdy, non-slip. Replaceable batteries (Size AA).
Codes 31684 and 31685 are provided with connector for pneumatic test
All otoscopes are supplied with 5 speculum ø 4 mm and 5 ø 2.5 mm
• **31686 HEINE MINI 3000 OPHTHALMOSCOPE - black**
• **31687 HEINE MINI 3000 OPHTHALMOSCOPE - blue**
Similar specifications as Mini 3000 otoscopes. Top quality ophthalmoscope with fixation star aperture in pocket format. Lenses: - 20D + 20D
• **31689 HEINE MINI 3000 OTO-OPHTHALMO SET - black**
One F.O. otoscope head, one ophthalmoscope head, 2 handles, 4 reusable specula, 5 disposable specula Ø 4 mm and 5 Ø 2.5 mm in soft pouch.
• **31690 HEINE MINI 3000 DIAGNOSTIC SET - black**
One otoscope head, one ophthalmoscope head, 1 handle, one combilamp illumination light with tongue depressor holder, 2 laryngeal mirrors and 4 reusable specula Ø 2, 3, 4, 5, mm in rigid case.

31690   **31689**

GIMA OTOSCOPES: PARKER LINE

VETERINARY OTOSCOPES AND SETS SEE PAGE 205

31442

3x magnifying removable lens

Screw connection system

31440

Print your name here (minimum 100 pcs.)

31437

31436

31435

BAYONET CONNECTION SYSTEM

PARKER OTOSCOPES
- Reliable and indestructible high quality instrument
- Invaluable for everyday ear nose and throat use
- Easily adjustable 2.5v vacuum light (made in Germany)
- Quality 3 times magnifying lens
- Available with Plug in and snap (bayonet locking) or knurled screw type otoscope heads
- Ideal for pneumatic tympanic membrane tests, can also be used for rhinoscopic examinations
- Supplied with 3 autoclavable ear funnels in a colour coordinated zip bag. All latex free.
- Require 2 x C batteries (not included) or rechargeable battery

GIMA code	PARKER OTOSCOPES	Connection system	Ear Funnels
31435	Parker colour - green	Bayonet	Ø 2.5, 3.5, 4.5 mm
31436	Parker colour - blue	Bayonet	Ø 2.5, 3.5, 4.5 mm
31437	Parker colour - yellow	Bayonet	Ø 2.5, 3.5, 4.5 mm
31440	Parker - black	Screw	Ø 2.5, 3.5, 4.5 mm
31441	Parker with rechargeable handle	Bayonet	Ø 2.5, 3.5, 4.5 mm
31442	Parker veterinary - black	Screw	Ø 4, 5, 7 mm
31449	Spare bulb 2.7V for Parker otoscopes 31435-6-7,31440-1-2		
34496	Charging station		
34497	Rechargeable battery 2.5V/3000 mAh		

PARKER DIAGNOSTIC SETS

Ophthalmoscope head

• **31471 PARKER DIAGNOSTIC SET**
Lightweight, semi rigid nylon case containing one Parker otoscope, 3 autoclavable ear speculum (Ø 2.5, 3.5 and 4.5 mm), 2 laryngeal mirrors (size 3 and 4), bent arm throat lamp, tongue spatula, adjustable nasal speculum.
• **31473 PARKER LARGE SET WITH OPHTHALMO**
Same as code 31471 with an ophthalmoscope head, support for single use tongue depressors and 2 tubes of single use specula.
• **31446 SPARE BULB FOR OPHTHALMOSCOPE**
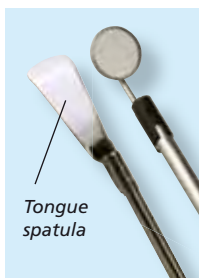• **31449 SPARE BULB FOR OTOSCOPE**
• **32203 "C" ALKALINE BATTERIES - blister of 2 pcs**

31471

Tongue spatulae

Nasal speculum

Tongue spatula

Otoscope

Wooden tongue depressor holder

2 tubes of single use specula

Otoscope

31473

Laryngeal mirrors

Nasal specula

Reusable Ear tips

Bent arm throat lamp/ Laryngeal mirror holder

OTOSCOPE - PEN LIGHT

• **31300 COMBI SET**
Dual function instrument features convertable diagnostic pen light and mini-otoscope with 3 different sizes of funnels or specula.
Packed in a gift box.
Pupil gauge and dual slide rule printed on the penlight.
Supplied with batteries (2xAAA).
• **32200 "AAA" ALKALINE BATTERIES - blister of 4 pcs**

31300

HALOGEN OTOSCOPE AND OPHTHALMOSCOPE SET

• **31475 HALOGEN PARKER OTOSCOPE**
Same as PARKER Otoscope code 31440 but with halogen 2.7V bulb, and bayonet connection system. Supplied with 3 autoclavable ear funnels in a soft bag. Requires 2xC batteries (not included).
• **31474 HALOGEN OPERATIVE PARKER OTOSCOPE**
Same as 31475 but with operative head.
• **31476 HALOGEN PARKER OPHTHALMOSCOPE**
2.7 V halogen Light for true tissue colour and consistent, long lasting illumination 24 colour coded Lenses - 25 to + 40 Dioptres for excellent resolution (green for +, red for -). Rubber eye brow rest to prevent scratching of eyeglasses. Illumination lens dial for clear identification of dioptre setting.
• **31477 HALOGEN OTO-OPHTHALMOSCOPE PARKER SET**
Diagnostic set including one handle, one halogen otoscope head and one halogen ophthalmoscope head, all in a plastic case.
• **31478 HALOGEN BULB FOR OTOSCOPE**
• **31479 HALOGEN BULB FOR OPHTHALMOSCOPE**
• **32203 "C" ALKALINE BATTERIES - blister of 2 pcs**
All products are latex free.

Supplied in a semi-rigid nylon bag.

31476

31477

31475

31474

+	1, 2, 3, 4, 5, 6, 8, 10, 12, 15, 20, 40
-	1, 2, 3, 4, 5, 6, 8, 10, 15, 20, 25

XENON-HALOGEN DIAGNOSTIC SETS IN RIGID CASES

• **31480 XENON-HALOGEN DIAGNOSTIC SET - 3.5 V**
• **31482 XENON-HALOGEN OPERATIVE DIAGNOSTIC SET - 3.5 V**
Both xenon-halogen sets are supplied in plastic rigid case containing: one rechargeable handle, one otoscope head (operative for code 31482) one ophthalmoscope head, 3 autoclavable speculum Ø 2.5, 3.5, 4.5 mm, two laryngeal mirrors (size 3 and 4), adjustable nasal speculum, bent throat lamp, tongue spatula.

Operative otoscope head

• **34496 CHARGING STATION**
• **34490 RE-CHARGEABLE BATTERY 3.5V / 1300 mAh**
• **31427 XENON-HALOGEN OTOSCOPE BULB 3.5V**
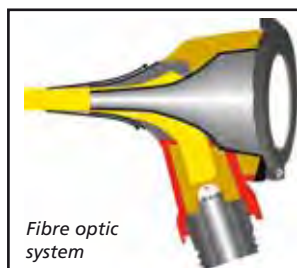• **31428 XENON-HALOGEN OPHTALMO BULB 3.5V**

31480

FIBRE OPTIC HALOGEN OTOSCOPES

• **31520 GIMALUX OTOSCOPE - black**
• **31521 GIMALUX OTOSCOPE - blue**
• **31522 GIMALUX OTOSCOPE - green**
High professional plastic otoscopes with extra bright halogen light provided by fibre optic system. Quality 3 times magnifying movable lens. Output for pneumatic membrane test. Supplied with 7 single use mini speculum (Ø 2.5 and 4 mm) in a color coordinated nylon bag. For mini ear-speculum refer to page 121. All latex free.
• **31478 HALOGEN BULB**

Fibre optic system

31521   **31522**   **31520**

119

RI-FORMER® THE MODULAR DIAGNOSTIC STATION 3.5V

31822   **31809+31812**   **31810+31813**   **31820**

31811

For up to 5 handles

31823

Clinical validation Memory for 12 measurements

31809

31813

Set 31800

Riester

Made in Germany
Set 31805

RI-FORMER MODULAR DIAGNOSTIC STATION

The modular diagnostic station can be individually combined according to requirements and the room situation, it is variably extendable to the right and the left.

The basic ri-former® module is available with one handle and can be supplemented with up to 4 further handle modules.
- 3.5 V xenon or LED illumination creates lighting conditions similar to daylight.
- Optimum electronic efficiency using an adjustable switch.
- Constant output voltage independent from the mains supply prolongs the service life of the lamps and guarantees optimum light intensity.
- Automatic switching on/off of handles when removing or replacing them in the handle unit saves energy and increases the service life of the lamps. The adjusted light intensity setting remains until the next examination.
- Non-slip, ergonomically designed handles with rheostat: infinitely variable regulation of brightness as well as manual switching on/off possible on the handle.
- Spiral cord expandable up to 3 m.
- Developed and manufactured in Germany.

31814

31815

GIMA code	MODULAR DIAGNOSTIC STATION
31800	Ri-Former Diagnostic station 3.5-230V-standard *(include 2 handle oto and ophthalmo head, ear specula dispenser, clock)*
31805	Ri-Former Diagnostic station 3.5-230V-large *(include 31800 + sphygmomanometer)*
	RI-FORMER MODULES AND HEADS
31809	Basic diagnostic station 1 handle
31810	Extension module 1 handle
31811	Ri-scope L2 F.O. otoscope head - Led 3.5 V
31812	Ri-scope L1 F.O. otoscope head - Xenon 3.5 V
31813	Ri-scope L1 F.O. ophthalmoscope head - Xenon 3.5 V
31814	Ri-scope F.O. retinoscope head - Xenon 3.5 V
31815	Ri-scope F.O. dermatoscope head - Led 3.5 V
31817	Ri-scope L1, L2 ear speculum Ø 2.5 mm* - autoclavable 134°C
31819	Ri-scope L1, L2 ear speculum Ø 4 mm* - autoclavable 134°C
31820	Ri-spec ear specula dispenser - specula not included
31822	Sphygmomanometer with basket
31823	Ri-thermo N infrared thermometer with 40 covers
31824	Probe cover for 31823 - box of 100 - spare
31825	Xenon L1 otoscope bulb 3.5 V - spare
31826	Xenon ophthalmoscope L1, L2, L3 bulb 3.5 V - spare

Box of 10

CE

RI-SCOPE® L: LED + Li-Ion BATTERIES

31832

Grid - Slit - Fixation star - Large circle - Medium circle - Small circle - Semi circle

Riester

Red-free filter - Blue filter - Polarization filter

31830

31836

31830   **31834**   **31836**

LED illumination: bright, white light with a nearly unlimited lifetime!
With its monochromatic white light (4200° Kelvin) the lamp in the ri-scope® L provides cold light and true-color.
Lamps with LED technology have a lifetime of at least 10,000 hours (compared to 20-30 hours with halogen and Xenon lamps) and are extremely energy-efficient.

Li-ion batteries– greatest power in the smallest space!
Considerably higher charging capacity, longer lifetime, light-weight, these are the big advantages of Li-ions batteries; wich provide sustained high performance for up to 1200 charging cycles. LEDs powered by lithium batteries can burn for up to 50 hours.

• **31830 RI-SCOPE L2 F.O. LED OTOSCOPE - 3,5 V**
The newest generation ri-scope®L otoscopes **with optical glass and reduced reflection** combines excellent optical properties and unparalleled performance with the reliability and efficiency of LED/lithium-ion technology.
- Fibreoptics for optimal beaming and transmission of the light.
- Bi-directional swivelling, sealing optical glass 3X
- Suitable for pneumatic test (supplied without ball).
- C handle runs Li-Ion batteries, not included.
Supplied in deluxe hard case with one spare lamp, 4 reusable ear specula and 3 disposable ear specula.
Spare ear speculum: use above 31817-31819 (autoclavable) or 31485 to 31499 (disposable) page 121.

• **31832 RI-SCOPE L2 XENON OPHTALMOSCOPE - 3,5 V**
The enhanced basic model with separately engageable red-free, blue and polarization filters for each aperture.
- Diopter wheel with 29 corrective lenses   Plus 1-10, 12, 15, 20, 40 Minus 1-10, 15, 20, 25, 30, 35
- Easy-to-operate aperture hand-wheel with semi-circle, small/medium/large circle, fixation star, and slit
- Includes filter wheel engageable for all apertures with symbol display, red-free filter, blue filter and polarization filter

• **31826 XENON L1/L2/L3 OPHTALMOSCOPE BULB 3,5 V - spare**
• **31834 OTO-OPHTALMO RI-SCOPE - 3,5 V - C handle**
• **31836 XENON RETINOSCOPE RI-SCOPE L2 - 3,5 V - C handle**

• **31841 "C" SIZE Li-Ion BATTERY**

• **31840 RI-CHARGER L 230 V**
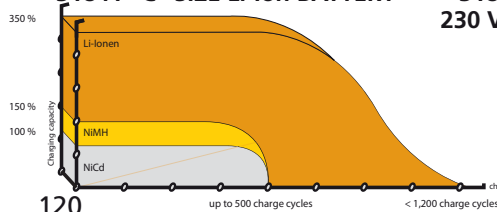
Table recharge station (with wall holder) recharge 2 "C" handles with Li-Ion batteries.

Li-Ionen
NiMH
NiCd

350 %
150 %
100 %

Charging capacity

charge cycles
up to 500 charge cycles   < 1,200 charge cycles

GIMA

🟨 OTOSCOPES ACCESSORIES AND EAR SPECULAS

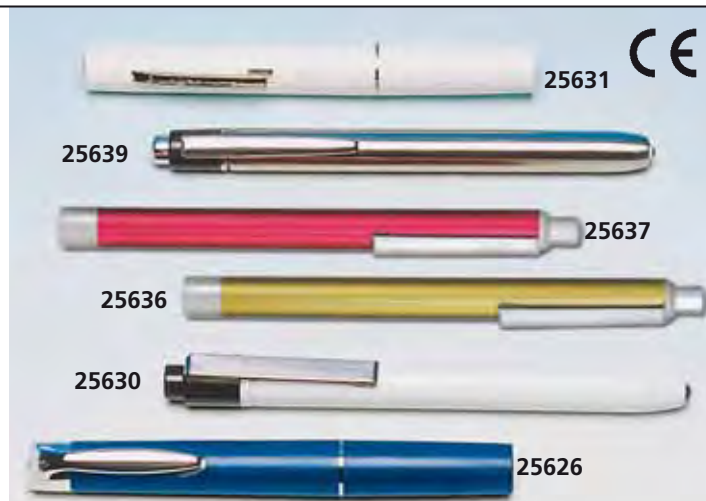| GIMA code	AUTOCLAVABLE SPECULUM FOR PARKER OTOSCOPES - LATEX FREE		To be used with GIMA code	Also compatible with	Minimum order
31447	Kit 3 autoclavable veterinary speculum Ø 4, 5, 7 mm		31435-37, 31440-42, 31471, 31473, 31475, 31477,31480	Heine, Kawe, Riester	-
31448	Kit 3 autoclavable speculum Ø 2.5, 3.5, 4.5 mm		31435-37, 31440-42, 31471, 31473, 31475, 31477,31480	Heine, Kawe, Riester	-
31451	Kit of 5 autoclavable speculum Ø 2.5, 3.5, 4.5, 5.5, 9 mm		31435-37, 31440-42, 31471, 31473, 31475, 31477,31480	Heine, Kawe, Riester	-
31453	Kit of 3 metal cannulas (Ø 4, 5, 6 mm) + 2 slotted metal specula (Ø 7.5 ad 9.4 mm)		31435-37, 31440-42, 31471, 31473, 31475, 31477,31480	Heine, Kawe, Riester	-
	DISPOSABLE MINI EAR SPECULUM				
31485	Disposable Mini ear-speculum Ø 2.5 mm - grey			Heine, Kawe, Riester	box of 250
31486	Disposable Mini ear-speculum Ø 4 mm - grey			Heine, Kawe, Riester	box of 250
31491	Disposable Mini ear-speculum Ø 2.5 mm - black			Heine, Kawe, Riester	bag of 100
31492	Disposable Mini ear-speculum Ø 4 mm - black			Heine, Kawe, Riester	bag of 100
31495	Disposable Mini ear-speculum mixed colours and Ø		direct fit: 31520-22,	Heine, Kawe, Riester	box of 1,000
31496	Disposable Mini ear-speculum Ø 2.5 mm - blue			Heine, Kawe, Riester	bag of 100
31497	Disposable Mini ear-speculum Ø 4 mm - blue		fit with connector 31493: 31435-37,31440-42, 31471, 31473,	Heine, Kawe, Riester	bag of 100
31498	Disposable Mini ear-speculum Ø 2.5 mm - green		31475, 31477, 31480	Heine, Kawe, Riester	bag of 100
31499	Disposable Mini ear-speculum Ø 4 mm - green			Heine, Kawe, Riester	-
31493	Connector to GIMA Parker otoscope for Mini ear-speculum		31435, 31436, 31437, 31440, 31441, 31442, 31471, 31473, 31475, 31477	-	-
31494	ALLIGATOR connector (supplied with 100 ear speculum)		31435, 31436, 31437, 31440, 31441, 31442, 31471, 31473, 31475, 31477	-	-
31500	Pneumatic bulb for Otoscopes (specify colour)		31435/36/37/40/42/71/73/75/77-31520/21/22	Heine, Kawe, Riester	-
31313	Disposable ear-speculum Ø 2.5 mm		All Gowllands range (with connector 31316)	Riester (some models)	box of 200
31315	Disposable ear-speculum Ø 4 mm		All Gowllands range (with connector 31316)	Riester (some models)	box of 200
31316	Connector for 31312-31314		All Gowllands range		
31501	Heine dispenser for mini speculum - empty		31491, 31492, 31495, 31496, 31497, 31498, 31499	Heine, Kawe, Riester	-
31502	HEINE disposable mini-ear speculum Ø 2.5 mm - grey		Mini 2000/3000, K180, Beta200	Heine	box of 250
31503	HEINE disposable mini-ear speculum Ø 4 mm - grey		Mini 2000/3000, K180, Beta200	Heine	box of 250
32203	"C" Alkaline batteries		31435, 31436, 31437, 31440, 31442, 31471, 31473, 31475, 31477	Heine, Kawe, Riester	blister of 2
32201	"AA" Alkaline batteries		31520, 31521, 31522	Heine, Kawe, Riester	blister of 2

black, blue, green and red

31494

Alligator pediatric connector green colour, supplied with 100 green speculum Ø 2.5 mm

31451

31453

31495

31316

31315

31313

31503

HEINE OPTOTECHNIK

Dispencer of 250 pcs.

31501

31486

31493
Includes 500 ear speculum ø 4 mm and 500 ø 2.5 mm (200 black, 100 red, blue, green)

🟨 HEINE ORIGINAL BULBS

HEINE BULBS HALOGEN 2.5 V	HEINE ref.	GIMA code	Compatible with following HEINE products
Xenon	035	31769	F.O. Laryngoscopes - Sanalon handle
	037	31771	K100 and Beta® 100 otoscopes, Laryngeal mirrors, F.O. mini 2000 otoscope, Alpha® otoscope, Mini/Alpha tongue holders
	038	31773	Miroflex ophthalmoscope, HFR2 spot retinoscope, Delta®10 dermatoscope
	041	31774	Fibralux mini otoscope, Mini 2000 combilamp, Mini 2000 cliplamp, Mini 1000 cliplamp
	042	31780	Alpha® ophthalmoscope, Mini 2000 ophthalmoscope, Alpha® Focalux, Mini Miroflex ophthalmoscope, Mini 2000 Focalux
	056	31770	Minilux otoscope, Mini 2000 otoscope
	057	31785	Mini 2000, Mini 3000 laringeal mirrors
	069	31781	Beta® 200 ophthalmoscope
	077	31772	Beta® 200 e 200 VET, K 180 oto, Lambda 100 retinometer, Delta®10 plus dermatoscope
	084	31782	K180® ophthalmoscope
Xenon	105	31776	Mini 3000 F.O. otoscope
	106	31777	Mini 3000 ophthalmoscope
	107	31778	Mini 3000 combilamp
	109	31779	Mini 3000 dermatoscope
	110	31775	Mini 3000 otoscope

🟨 COMPATIBLE GERMAN BULBS

GIMA BULBS MADE IN GERMANY		GIMA code	Compatible with the following products
LARYNGOSCOPE BULBS			
	Conventional laryngoscope SMALL bulb 2.7 V	34324	Gima, Riester, And, Kawe, Timesco Truphatek and most of conventional laryngoscopes in the market (generally used for blades N° 00, 0, 1)
	Conventional laryngoscope LARGE bulb 2.7 V	34325	Gima, Riester, And, Kawe, Truphatek, Timesco and most of conventional laryngoscopes in the market (generally used for blades N° 2, 3, 4)
	Halogen bulb for F.O. Laryngoscope	34485	Gima, And, Kawe and most of F.O. laryngoscopes in the market. Compatible for products that use Heine Bulb # 035
OTOSCOPE-OPHTHALMOSCOPE-DERMATOSCOPE BULBS			
	Otoscope bulb	31449	Parker otoscopes and some otoscopes of Riester, Timesco and Kawe
	Ophthalmoscope bulb	31446	Parker ophthalmoscope, Parker diagnostic sets
	Halogen bulb for otoscope	31478	Gimalux otoscopes, Kawe and Riester mini otoscopes Compatible for products that use Heine bulb #037
	Halogen bulb for ophthalmoscope	31479	Parker halogen ophthalmoscope
	Halogen Dermatoscope bulb 2.5 V	31188	Gima dermatoscope Compatible for products that use Heine Bulb #038
	Xenon halogen otoscope bulbs 3.5 V	31427	Gima Xenon - halogen diagnostic sets - otoscope
	Xenon halogen ophthalmoscope bulbs 3.5 V	31428	Gima Xenon - halogen diagnostic sets - ophthalmoscope

TORCHES - DIAGNOSTIC PEN LIGHTS

PROFESSIONAL TORCHES CE 25638

25633

25632

25634

25635

Pupil gauge and dual slide rule

PERSONALISED TORCHES FOR QUANTITIES

25639 25631 CE

25637

25636

25630

25626

GIMA offers a complete range of quality torches/pen lights of different materials, colours and price.

| GIMA code	Description	Material	Supplied with batteries	Colour	Supplied in single box	Origin	on/off by	Minimum order
25626	Alfa torch	plastic	yes - 2xAAA	blue	yes	Asia	Pocket clip	10
25630	Stilo 2000 torch	aluminium	no	white	yes	Asia	Push button	50
25631	Usa torch	plastic	yes - 2xAAA	white	no	USA	Pocket clip	10
25639	Beta torch	stainless steel	yes - 2xAAA	silver	no	Asia	Push button	-
25632	Argenta torch	metal	yes - 2xAAA	black	no	Europe	Pocket clip	-
25633	Argenta torch	metal	yes - 2xAAA	silver	no	Europe	Pocket clip	-
25638	Argenta torch	metal	yes - 2xAAA	green	no	Europe	Pocket clip	-
25634	Elegance torch	metal	yes - 2xAAA	blue	no	Europe	Push button	-
25635	Spirit torch	chrome plated brass	yes - 2xAAA	silver	yes	Asia	Pocket clip	-
25641	LED Spirit torch	chrome plated brass	yes - 2xAAA	silver	yes	Asia	Pocket clip	-
25636	LED Radiant torch	metal	yes - 2xAAA	gold	no	Asia	Push button	-
25637	Radiant torch	metal	yes - 2xAAA	red	no	Asia	Push button	-

EAR CURETTES

FLEXLOOP:
For normal curettage
Most flexible of all
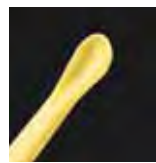Least traumatic
Rounded tips for comfort
4 mm wide tip

MICROLOOP:
For impacted cerumen
More rigid construction
Tip can be angled for added strength
Rounded tip for comfort
3 mm wide tip
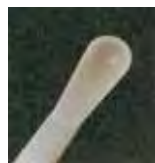
INFANT SCOOP:
For the smallest ears
For when a small scoop work best
Can be used through an otoscope • Flexible
2 mm wide tip

CERASPOON:
For viscous cerumen
For extensive cerumen buildup
For when a large scoop work best
4 mm wide tip

The complete cerumen management system
• **31462 FLEXLOOP** - white - box of 50
• **31464 INFANTSCOOP** - light blue - box of 50
• **31460 MICROLOOP** - green - box of 50
• **31467 CERASPOON** - yellow - box of 50
Our four styles of curettes give you the most effective, safest, and economical way to remove cerumen - whatever the size of ear or consistency of cerumen you're dealing with.
Patient comfort: Metal curettes are cold, hard and sharp. GIMA ear curettes with rounded plastic tips reduce trauma and lessen the risk of laceration. Latex free.
Effectiveness: Ear curettes can duplicate the effectiveness of metal curettes in almost any situation and their polypropylene composition makes them virtually unbreakable.
Disposability: Ear curettes don't require expensive and time-consuming sterilization and eliminate the risk of cross-contamination.
minimum order: 50 pcs.

NASAL SPECULUM

The use of stainless steel speculum can be a chilling experience for the patient. Now you can combine patient comfort with effective treatment.
Smooth, warm tips make Disposable Nasal Speculum more comfortable and less alarming to the patient.

31469 CE

• **31469 DISPOSABLE NASAL SPECULUM - box of 48**
Innovative plastic, disposable nasal speculum with handle: allows superior view of nasal cavity. Helps extract foreign objects from nasal cavity. Facilitates packaging of cauterizing of bleeding noses. Latex free.

ILLUMINATED CURETTES

• **31455 SET OF ILLUMINATED CURETTES**
1 curette per type (see photo below)+ LED illuminator+ lens

Flexloop *Infantscoop* *Microloop* *Angleloop* *Waveloop*

• **31461 KIT MICROLOOP**
50 trasparent Microloop curettes+LED illuminators+Lens
• **31465 KIT INFANT SCOOP**
50 trasparent Infant scoop curettes+LED illuminators+Lens

MEDICAL DESIGN EXCELLENCE AWARDS 2005 WINNER

◼ NEUROLOGICAL REFLEX PERCUSSORS – LATEX FREE

31252

31251

31256

31272

31270

31271

31254

31255

31260

Both with 2 positions

ANY COLOUR AVAILABLE
(MINIMUM 100 PIECES)

CE

GIMA code	PERCUSSORS	Colour		Handle	Pin	Brush	Weight	Length
31270	Buck Gima 2000	green	🟩	plastic/stainless steel	yes	yes	85 g	18.5 cm
31251	Buck Classic	silver	⬜	chromed brass	yes	yes	90 g	18 cm
31252	Buck colour-yellow	yellow	🟨	brass color coated	yes	yes	90g	18 cm
31271	Dejerine Gima 2000	blue	🟦	plastic/stainless steel	yes	yes	110 g	21 cm
31254	Dejerine Classic	silver	⬜	stainless steel	yes	yes	140 g	21 cm
31255	Dejerine colour	red	🟥	brass color coated	yes	yes	125 g	21 cm
31256	Babinsky - Ø 4.5 cm	silver	⬜	chrome plated	yes	no	170 g	24 cm
31257	Queens - Ø 5 cm	silver	⬜	flexible plastic	no	no	100 g	35 cm
31258	Troemner	silver	⬜	stainless steel	no	no	200 g	22 cm
31260	Pinwheel	silver	⬜	chrome plated	no	no	50 g	17 cm
31272	Babinsky-Gima 2000	green	🟩	plastic	no	yes	80 g	24 cm
31273	Taylor Gima	red	🟥	plastic/stainless steel	no	yes	70 g	20 cm

31258   31273   31257
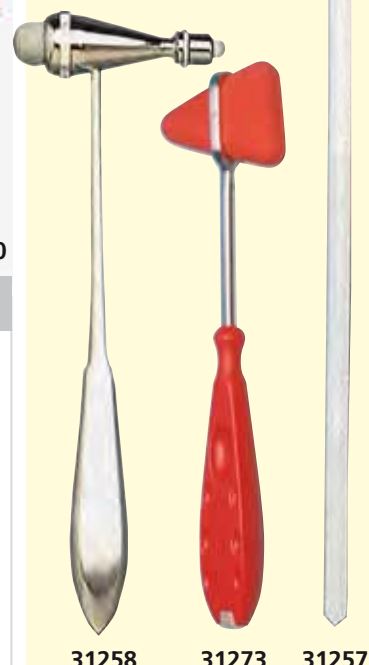
◼ GERMAN-MADE DIAPASONS – TUNING FORKS

CE

31247

31246

31245

ENT   Rydel Seiffer   Lucae

ENT TUNING FORKS: 31240
All made in Germany, with age-long craftsmanship experience, in special alloy that ensures maximum sound precision.
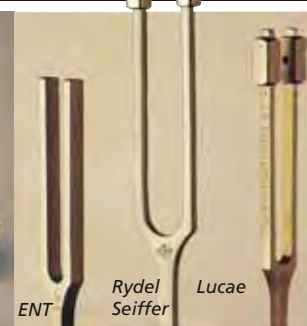
GIMA code	ENT TUNING FORKS
31230	Tuning fork 128 Hz* - with weight
31231	Tuning fork 256 Hz* - with weight
31232	Tuning fork 512 Hz
31233	Tuning fork 1024 Hz
31234	Tuning fork 2048 Hz
31235	Tuning fork 4096 Hz
31240	Set of 5 tuning forks in a stylish lined case (contains 128 Hz*, 256 Hz*, 512 Hz, 1024 Hz, 2048 Hz).

*Tuning forks with asterisk * are supplied with weight*

ENT/NEUROLOGY TUNING FORKS
All made in a special alloy and supplied with base.

GIMA code	ENT/NEUROLOGY TUNING FORKS
31245	Tuning fork a1-440 Hz - ENT - 90 g
31246	Tuning fork - LUCAE - 80 g adjustable from c128 to h240 with foot - 120 g
31247	Tuning fork C64, c128 - RYDEL SEIFFER detachable slider either C64 or c128 - 120 g
31249	Hammer neurotone 5 in a lined case

Neurotone hammer: set of 5 components for a complete neurological examination: percussion hammer + tuning fork with weight + pin + brush. All fitted in a stylish case.

31249
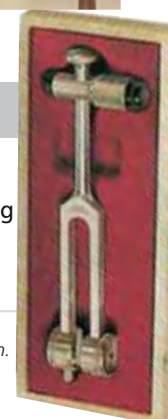
◼ MONOFILAMENT - SENSORY EVALUATOR

CE

Diagnostic tool for detecting diabetic neuropathy.

31280

Supplied in pouch with multilingual user manual and 2 spare monofilaments

• **31280 MONOFILAMENT TOOL - sensory evaluator**
Plastic retractable monofilament with 2 spare monofilaments. Evaluates both diminishing and returning sensation (touch test). Examins levels of sensory function and changes in neuro status. Monofilament is calibrated at 10 g. Size: 13 x 1.2 cm (+ 4 cm monofilament)
• **31281 KIT OF 3 MONOFILAMENTS - spare**

123

ACOUSTIC EXCELLENCE DOUBLE HEAD STETHOSCOPES

TOP QUALITY STAINLESS STEEL

32537

32534

32512

Adult

Pediatric

CLASSIC STETHOSCOPES: Adult and Paediatric
High quality stethoscope with **stainless steel chestpiece**, stainless steel double inner spring binaural and durable, elegantly moulded PVC tubing for unsurpassed acoustic performance. The colour coordinated flexible "Y" tubing, non-chill ring and diaphragm retaining ring provide excellent patient comfort, while adding attractiveness. It comes in a foam lined box with 2 extra sets of soft eartips.
Chestpiece: Ø 45 mm (adult), Ø 35 mm (paediatric).

32542

GIMA code	CLASSIC DOUBLE HEAD STETHOSCOPES - LATEX FREE	
32531	Classic adult - dark green	
32532	Classic adult - orange	
32533	Classic adult - transparent light blue	
32534	Classic adult - black colour	
32535	Classic adult - burgundy colour	
32536	Classic adult - blue colour	
32537	Classic adult - green colour	
32538	Classic adult - red colour	
32539	Classic adult - pink colour	
32542	Classic Teaching - black colour *allows simultaneously ascultation by 2 people*	
32512	Classic paediatric - light-blue colour	
32516	Classic paediatric - black colour	
32678	Diaphragm Ø 45 mm - spare for Classic adult	
32664	Rigid eartips screw-type - white spare for Classic/Wan/Yton/Duca/Regalite	

JOTARAP TOP STETHOSCOPE: DOUBLE-HEAD, DOUBLE TUBE

Gold binaural and head

32583

32589

32580

32582

Gima Sprague Rappaport type double-head, double-tube, latex free stethoscope at the price of a standard stethoscope.
5 in 1, five way convertible type stethoscope
This convertible stetho, zinc alloy treaded with chrome plated chestpiece drum fitting with different sized chestpieces bells, provides versatile acoustical for infants and adults for the detection of a wide range of heart and lung sounds. Chestpiece with small and large diaphragm.
Double tubing for individual sound transmission
Two 56 cm (22") latex free separately thick wall tubing provide individual sound transmission from chestpiece to both side of the ear.
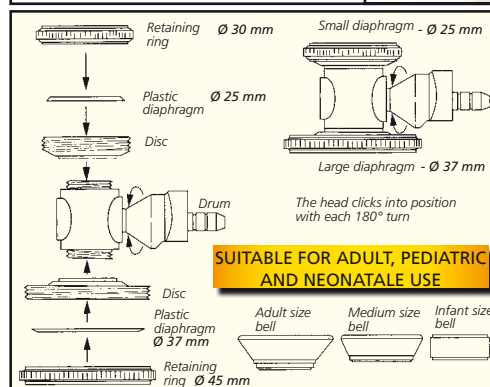**Complete with accessories kit (32590)**
It is supplied with an accessories pouch containing: 3 interchangeable plastic black non-chill bells, adult and paediatric spare diaphragm, one pair clear neoprene eartips, one pair black mushroom eartips. Supplied in single cardboard box, with 6 languages manual (English, French, Spanish, Italian, Greek, Portuguese).

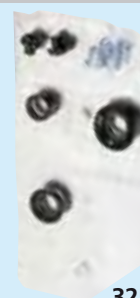Retaining ring — Ø 30 mm — Small diaphragm - Ø 25 mm
Plastic diaphragm — Ø 25 mm
Disc
Drum — Large diaphragm - Ø 37 mm
The head clicks into position with each 180° turn
Disc
Plastic diaphragm Ø 37 mm — Adult size bell — Medium size bell — Infant size bell
Retaining ring Ø 45 mm

SUITABLE FOR ADULT, PEDIATRIC AND NEONATALE USE

Codice GIMA	JOTARAP DOUBLE HEAD DOUBLE TUBE STETHOSCOPE	
32579	JOTARAP - purple	
32580	JOTARAP - black	
32581	JOTARAP - blue	
32582	JOTARAP - orange	
32583	JOTARAP - green	
32584	JOTARAP - yellow	
32585	JOTARAP - light blue	
32586	JOTARAP - fucsia	
32587	JOTARAP - transparent pink	
32588	JOTARAP - transp. seafoam green	
32589	JOTARAP GOLD - black	
32590	ACCESSORY KIT - spare	

32590

GIMA

DIAGNOSTICS

3M™ LITTMANN® STETHOSCOPES

3M

The 3M Littmann® Select Stetoscope is ideal for general examination purposes, including blood pressure measurement. The patented single-sided chestpiece for both low and high frequency sounds offers acoustic clarity.

SELECT

CLASSIC II PED

CLASSIC II INFANT

The patented tunable diaphragm allows both low and high frequency sounds to be heard with either side of the chestpiece.

CLASSIC II S.E. IN 14 COLOURS

CLASSIC II S.E.

Black | Burgundy | Navy Blue | Hunter Green | Grey | Ceil Blue | Purple | Raspberry | Caribbean Blue | Orange | Seafoam Green | Ocean Blue | Peach

CARDIOLOGY III

MASTER CLASSIC II

MASTER CARDIOLOGY

S.T.C. CARDIOLOGY SOFT TOUCH CHESTPIECE

It offers recording (storage and playback) capabilities and the ability to transfer sounds via infrared. Comes with software allowing a phonocardiogram visual display

18 times amplification

LCD display in chestpiece, including heart rate readout

ELECTRONIC 4100 SW
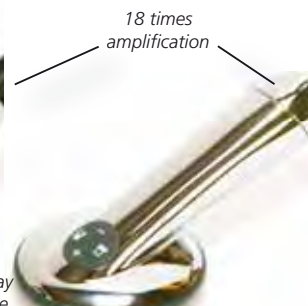
ELECTRONIC 3000

Ambient Noise Reduction *(ANR) technology acoustically cancels out an average of 75% of distracting room noise. This acoustic canceling out is different than electronic filtering, which may also filter out some important portions of body sounds.*

32451

32450

32456

GIMA code	3M code	ORIGINAL 3M™ LITTMANN® STETHOSCOPES
		SELECT
32400	2298	■ Littmann® Select - royal blue
32401	2293	■ Littmann® Select - burgundy
32402	2203	■ Littmann® Select - lilac
		CLASSIC II PEDIATRIC
32404	2113	■ Littmann® Classic II ped. - black
32405	2119	■ Littmann® Classic II ped. - caribbean blue
32406	2113R	■ Littmann® Classic II ped. - red
32407	2122	■ Littmann® Classic II ped. - raspberry
		CLASSIC II INFANT
32409	2126	■ Littmann® Classic II infant - lilac
32410	2114	■ Littmann® Classic II infant - black
32411	2114R	■ Littmann® Classic II infant - red
32412	2125	■ Littmann® Classic II infant - raspberry
		CLASSIC II S.E. ADULT
32413	2210	■ Littmann® Classic II S.E. - raspberry
32414	2209	■ Littmann® Classic II S.E. - purple
32415	2201	■ Littmann® Classic II S.E. - black
32416	2205	■ Littmann® Classic II S.E. - navy blue
32417	2208	■ Littmann® Classic II S.E. - hunter green
32418	2203	■ Littmann® Classic II S.E. - gray
32419	2211	■ Littmann® Classic II S.E. - burgundy
32420	2206	■ Littmann® Classic II S.E. - caribbean blue
32421	2813	■ Littmann® Classic II S.E. - ceil blue
32422	2812	■ Littmann® Classic II S.E. - orange
32423	2815	■ Littmann® Classic II S.E. - pink
32424	2814	■ Littmann® Classic II S.E. - seafoam green
32480	2819	■ Littmann® Classic II S.E. - ocean blue
32481	2822	■ Littmann® Classic II S.E. - peach
32470	2218BE	■ Littmann® Classic II S.E. - "black edition"
		MASTER CLASSIC
32425	2146	■ Littmann® Master Classic II - burgundy
32426	2144	■ Littmann® Master Classic II - black
32427	2147	■ Littmann® Master Classic II - navy blue
32471	2141	■ Littmann® Master Classic II - "black edition"
		CARDIOLOGY III
32430	3128	■ Littmann® Cardiology III - black
32431	3129	■ Littmann® Cardiology III - burgundy
32432	3130	■ Littmann® Cardiology III - navy blue
32433	3135	■ Littmann® Cardiology III - plum
32472	3131BE	■ Littmann® Cardiology III - "black edition"
		MASTER CARDIOLOGY
32435	2160	■ Littmann® Master Cardiology - black
32436	2163	■ Littmann® Master Cardiology - burgundy
32437	2164	■ Littmann® Master Cardiology - navy blue
32439	2167	■ Littmann® Master Cardiology - plum
		CARDIOLOGY S.T.C.
32445	4471	■ Littmann® S.T.C. Cardiology - black
32446	4472	■ Littmann® S.T.C. Cardiology - burgundy
32447	4473	■ Littmann® S.T.C. Cardiology - navy blue
32448	4475	■ Littmann® S.T.C. Cardiology - plum
		ELECTRONIC - CARDIOLOGY
32438	3000 BK	■ Littmann® Digital - 3000 - black
32441	3000 BU	■ Littmann® Digital - 3000 - burgundy
32442	3000 NB	■ Littmann® Digital - 3000 - navy blue
32440	E 4100	■ Littmann® Digital - E4100 SW- black
		ORIGINAL LITTMANN ACCESSORIES
32449	36572	■ Diaphragm + retaining ring for Classic PED - box of 5 pcs.
32450	36556	■ Diaph + ring for Classic II, Select, Master Classic, Cardio III - box of 5 pcs.
32452	36554	■ Diaphragm + retaining ring for Master cardiology - box of 5 pcs.
32453	31185	■ Diaphragm + retaining ring for S.T.C. cardiology - box of 5 pcs.
32451	37812	■ Ear Tips - grey - box of 10 pairs
32455	36569	■ Neoprene gray ring - infant - box of 5 pcs.
32456	36586	■ Neoprene gray ring - pediatric - box of 5 pcs.
32457	36545	■ Neoprene gray ring - Classic II - box of 10 pcs.
32458	36570	■ Neoprene gray ring - Cardiology III - box of 10 pcs.
32460		■ Binaural Classic II - black
32461		■ Binaural Cardiology III and Master Cardiology - black
32462		■ Binaural Master Classic - black

125

WAN STETHOSCOPES

32575 - adult

32511 - pediatric

32509 - neonatal

32572   WAN STETHOSCOPES
             Chrome-plated

WAN STETHOSCOPES: adult, paediatric and neonatal
Features a chrome-plated zinc-alloy chestpiece, a screw-on plastic retaining ring, outer spring binaural and colour matched moulded PVC tubing with non-chill ring. Assure optimum acustic performances. Chestpiece: Ø 45 mm (adult), Ø 35 mm (paediatric), bell Ø 30 mm. Supplied in a cardboard box.

GIMA code	WAN STETHOSCOPES - LATEX FREE	
32570	WAN single head adult - blue colour	
32571	WAN single head adult - burgundy colour	
32572	WAN single head adult - orange colour	
32575	WAN double head adult - blue colour	
32576	WAN double head adult - burgundy colour	
32577	WAN double head adult - orange colour	
32509	WAN double head neonatal- grey colour	
32511	WAN double head paediatric - pink colour	
32513	TAI double head paediatric - light-blue colour	

YTON AND TRAD STETHOSCOPES

YTON STETHOSCOPES Duracote

32514   32530
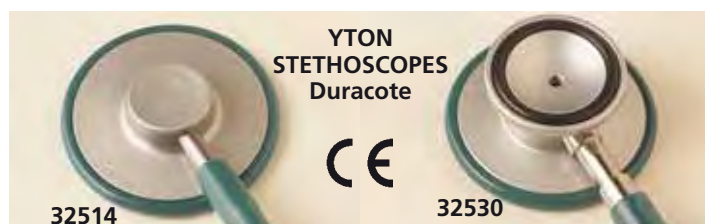
YTON STETHOSCOPES:
Chestpiece Ø 45 mm, bell Ø 30 mm (for double head), with colour coordinated plastic retaining ring. "Duracote" finished. Supplied in cardboard box

GIMA code	YTON STETHOSCOPES - LATEX FREE	
32514	Yton single head - green teal colour	
32530	Yton double head - green teal colour	

TRAD STETHOSCOPES Aluminium

32565   32561

TRAD STETHOSCOPES:
Traditional aluminium stethoscopes, lightweight and reliable. Chestpiece diaphragm Ø 40 mm (Ø 30 for pediatric model), bell Ø 20 mm.
Supplied in cardboard box.

| GIMA code	TRAD STETHOSCOPES - LATEX FREE	
32559	TRAD single head - pediatric - light blue	
32560	TRAD single head - black colour	
32561	TRAD single head - red colour	
32562	TRAD single head - blue colour	
32563	TRAD single head - yellow colour	
32564	TRAD single head - purple colour	
32565	TRAD double head - black colour	
32566	TRAD double head - red colour	
32567	TRAD double head - blue colour	

RAPPAPORT STETHOSCOPES
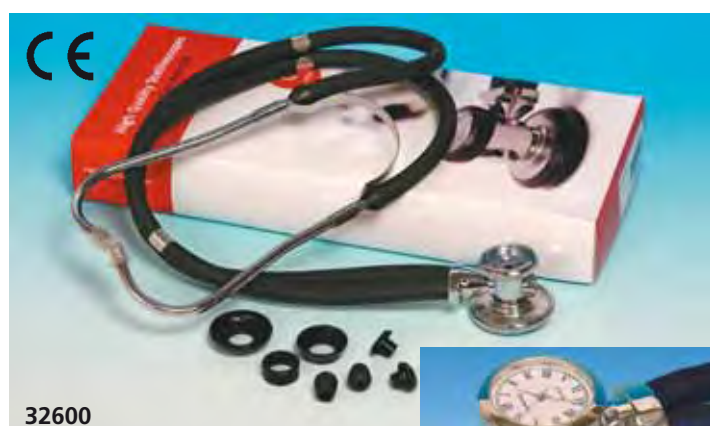
32600

• **32600 RAPPAPORT - black**
• **32602 RAPPAPORT - red**
• **32601 RAPPAPORT - blue (with clock)**

32601

Sprague Rappaport type stethoscopes double tube, double head. Complete with accessory kit to be used for adult, pediatry and neonatal applications. Code 32601 is provided with a clock on the top of the head for easy pulse count.
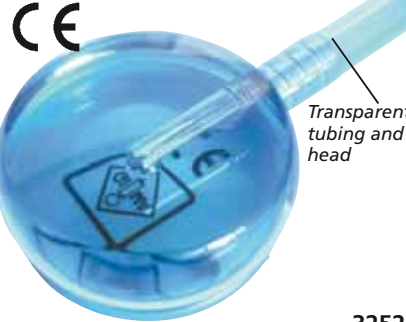
ELECTRONIC STETHOSCOPE

• **32556 ELECTRONIC CARDIOLOGY STETHOSCOPE**
Electronic Stethoscope includes amplification and filtering system, ideal for picking up difficult-to-hear heart and other body sounds.

DIN EN ISO 9002
EN 46002
Certified n. 09 105 99297
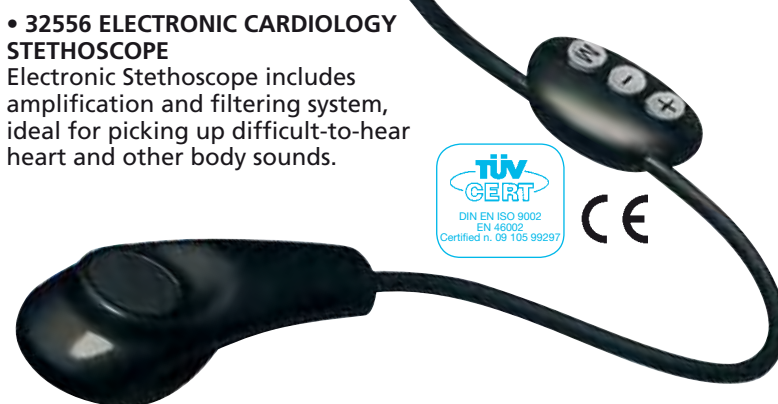
- Fully electronic, eliminates the aphonic and resonance effect.
- Audio frequency is divided into 3 selective modes.
Standard bell (20° V 200 Hz), Diaphragm (100° V 500 Hz), and Extended Diaphragm (100° V 1000 Hz).
- The electronic amplifying system **allows to adjust 8 volumes (0-18 dB)**
- An accurate sound-filter enhances the articulation of sound collection.
- It amplifies responses of preferred low frequency sounds and filter the undesiderable ambient noise of high frequency.
Length: 72 cm (29")   Colour: black

GIMA

SINGLE HEAD STETHOSCOPES - LATEX FREE

Transparent tubing and head

32524

Diaphragm diameter 40 mm

32527

32522
BLACK DUCA (white tubing)

32520
DUCA (black tubing)

• **32527 DESIGN STETHO - light blue**
• **32528 DESIGN STETHO - light purple**
High quality single head Stethoscope with fashionable design diaphragm and "Superflex TM" binaural. Provides high acoustic performances thanks to its quality components. Head and tube are in transparent coordinated colour.

• **32519 DUCA - blue tube**
• **32520 DUCA - black tube**
• **32521 DUCA - burgundy tube**
Chromed chestpiece - latex free
• **32523 BLACK DUCA - white tube**
• **32522 BLACK DUCA - black tube**
Black chestpiece - latex free
Traditional stethoscopes with robust, heavily chromed single-head chestpiece with floating diaphragm for a superior acoustic sensitivity. Excellent for taking blood pressure and general auscultation.

• **32524 STETHOSCOPE LINUX - black**
• **32529 STETHOSCOPE LINUX - red**
Single head stethoscope with zinc alloy chespiece with chrome-plated silver finish. The special design assures better performances by pushing the back of the head.
Special design of binaural for suiting the ear structure. Supplied in deluxe box.

CARDIOLOGY / PNEUMOLOGY STETHOSCOPES

• **32552 CARDIOLOGY CLASSIC STETHOSCOPE**
Cardiology Classic offers acoustical excellence in a traditional design. Its innovative features include:
- stainless steel chestpiece (diameter 36-47 mm) with extra deep cone-shaped bell for a superb low frequency response
- stainless steel double inner spring binaural
- floating diaphragm for unsurpassed amplification
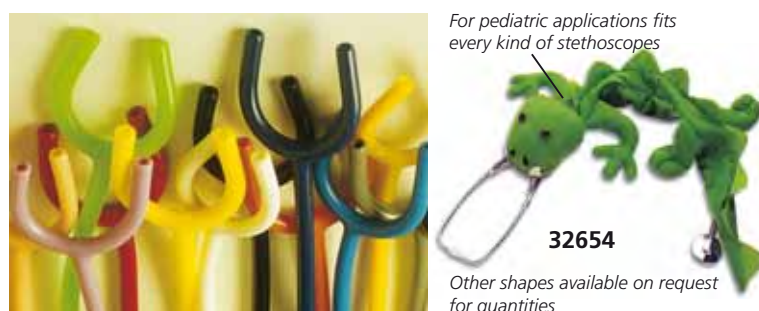- durable, elegantly moulded

32552

Colour co-ordinated non-chill ring and diaphragm retaining ring PVC black tubing

• **32526 REGALITE - black**
Top quality single head stethoscope.
Patented multi-frequency "ring-o-raised™" diaphragm system. Chromed plated chestpiece with "SUPERFLEX" inner spring binaural and 1 piece moulded PVC, latex free, tubing.
Supplied in deluxe box, with spare soft eartips and one spare diaphragm.

32526

SPARE PARTS FOR STETHOSCOPES

32660
32666
32665

32659 32663

32676

32677 32656 32655

For pediatric applications fits every kind of stethoscopes

32654

Other shapes available on request for quantities

GIMA code	STETHOSCOPES: SPARE PARTS	Minimum order
32660	Male-Female adaptor	10 pcs.
32659	Standard eartips - rigid	10 pcs.
32663	Mushroom eartips	10 pcs.
32665	SNOWDEN binaural - folding	10 pcs.
32666	BERTA binaural - fixed	10 pcs.
32676	Diaphragm + retaining ring - diam. 42 mm	10 pcs.
32677	Diaphragm + retaining ring - diam. 56 mm	10 pcs.
32655	Single stethoscope head	10 pcs.
32656	Double stethoscope head	10 pcs.

GIMA code	QUALITY "Y" TUBING		Minimum order
32620	"Y" tubing mixed colours		box of 20
32621	"Y" tubing - black		box of 20
32622	"Y" tubing - green		box of 20
32623	"Y" tubing - blue		box of 20
32624	"Y" tubing - red		box of 20
32625	"Y" tubing - orange		box of 20
32626	"Y" tubing - light blue		box of 20
32627	"Y" tubing - yellow		box of 20
32628	"Y" tubing - purple		box of 20
32629	"Y" tubing - pink		box of 20
32645	"Y" tubing - other colours on request*		box of 20
32654	Dragon cover for stethoscope		

Over 20 colours available: frosted green/lilac/blue/mel/pink, lavander, teal, ice blue, gray,...

127

ANEROID AND DIGITAL YTON: ECONOMIC LINE OF SPHYGMOS

CE 0476

CE 0476

32720 *Yton*

32703
Yton with incorporates Sthetoscope

32722
Digital Yton

32722

INCORPORATED STETHOSCOPE

32703

• **32720 YTON SPHYGMO - adult**
• **32703 YTON INCORPORATED SPHYGMO - adult with integrated stethoscope**
Economic sphygmomanometers with nylon cuff with velcro closure, reliable manometer with clip to be fixed on the cuff. Scale 0-300 mmHg.
Air release at closed tap max 4 mm Hg/minute. Manual setting of deflation possible up to 2/3 mm Hg.
From 260 mm Hg to 15 mm Hg max

deflation time 10 sec.
Scale graduated every 2 mm Hg.
Floating zero (the pointer has no stop point but swings freely), nylon velcro cuff, latex bulb with chromium plated valve.
Chromium-plated air tap with air release regulation by screw valve.
Supplied with a simulated-leather soft pouch with zip in a carton box.
• **32701 YTON MANOMETER - manometer only**

• **32722 YTON DIGITAL SPHYGMO**
Semi-automatic digital sphygmomanometer with manual inflation and automatic deflation through manual valve.
Light: only 50 g, one third of a normal blood pressure monitor.
A large 9 digits LCD display shows systolic/diastolic/pulse rate simultaneously, and store 90 memories.
Range: 40-260 mmHg
Pulse: 40-160/minute
Power supply: 1 x AAA battery

SPHYGMOMANOMETERS WITH GAUGE ON THE CUFF

CE 0051

32724

CE 0051

CE 0476

ECONOMIC

LATEX FREE

Quality linen cuff

TOP QUALITY

Extra large dial Ø 65 mm   *Extra large bulb 9x5 cm*

32723

ITALIAN QUALITY

32719

• **32724 BERLIN SPHYGMO - velcro cuff**
High quality sphygmomanometer with gauge mounted on cuff:
- High reliable manometer with extra large dial Ø 65 mm
- Top quality and resistant linen cuff with simulated leather support and velcro closure
- Extra large PVC bulb, 9x5 cm, latex free
Made in Italy - German manometer

• **32723 NEW EXACTOPHON SPHYGMO - pull-on strap cuff**
GIMA quality and reliability in a stylish and long-life sphygmomanometer.
EXACTOPHON has a reliable manometer fixed on a simulated leather support, on a highly resistant linen pull-on straps cuff.
Supplied in a nice carrying case and box.
Made in Italy: GIMA.
• **32805 EXACTOPHON BLADDER - spare**
• **32806 EXACTOPHON CUFF - spare**

• **32719 GIMATONO - latex free**
Economic sphygmo with chrome-plated manometer fixed on the cuff, provided with a rubber protective ring.
Nylon cuff with simulated-leather support. Two tubes adult size latex free bladder, with standard latex free bulb.
Supplied in nylon bag and carton box.
Made in P.R.C.

GIMA

SIRIO AND BOSTON, LARGE DIAL, METAL SPHYGMO

CE 0123

32722

Push-button valve

CE 0476

• 32729 SIRIO SPHYGMO - adult grey/green cuff
Classic sphygmomanometer with fabric cuff with velcro closure (green/grey colour). Reliable large dial manometer for easy readings, fixed on bulb.
Scale 0-300 mm Hg, graduated every 2 mm Hg.
Supplied in carrying case and box, with 4 languages user manual (English, Spanish, French, Italian).

• 32731 BOSTON SPHYGMO - adult - black cuff
• 32718 BOSTON SPHYGMO - adult latex free - grey cuff
Strong durable and elegant palm model aneroid metal zinc-alloy manometer with integral bulb and air release valve for one hand use, provided with a special left and right hand adjustable handle, nylon velcro closure calibrated cuff and 1 tube bladder. Easy to read: large dial Ø 65 mm. Unique push button air release valve offers precise mini-deflation (only 32731). Special PVC patented ribber bulb.
Supplied in a nice nylon carrying bag and box.

LONDON: PROFESSIONAL SPHYGMO

Calibrated nylon cuff

32725

CE 0476

Calibrated nylon cuff

32726

• 32725 LONDON SPHYGMO - adult - black cuff
• 32726 LONDON SPHYGMO - adult - red cuff
Professional, stylish, reliable and lightweight sphygmomanometer with ABS manometer, integral bulb, high quality precision mechanism, velcro closure calibrated nylon cuff and one tube bladder.
Dial Ø 55 mm, with specially designed eye-catching colour printing and easy to read.

Special outer ring protects the manometer from shocks and the glass from scratches.
Zero adjustable: calibrated simply by turning the outer ring of the manometer (patent design: 01245326.9).
Supplied in a nice colour co-ordinated carrying bag and box.
With multilingual user manual.

129

TOKYO AUTOMATIC SPHYGMO

• **32735 TOKYO SPHYGMO - adult - grey colour cuff**
Professional sphygmomanometer with large Ø 65 mm
dial and **button type air release valve.**
ABS light plastic case, and extra shock-proof ring for
long durability.
360° degree rotary handle.
Supplied with grey nylon calibrated
cuff with D-ring, grey 1-tube PVC,
latex free bladder and grey PVC, latex
free bulb in a nylon carrying bag and
carton box.

CE 0476

*Press the botton,
rapid deflation*

*Screw the botton,
gradual deflation*

*For rapid (push)
or gradual
(screw) defletion*

LATEX FREE

ROMA SPHYGMOMANOMETERS - 5 DIFFERENT MODELS

CE 0476

32727

Classic, lightweight, reliable
palm model aneroid
sphygmo with certified
manometer ABS housing,
integral bulb and air release
valve for one-hand use,
provided with handle,
blue nylon, velcro closure,
calibrated cuff and 1 tube
bladder. Easy to read: large
dial Ø 65 mm, with rubber protective ring.
Supplied in a nice nylon carrying bag with external velcro
pocket and carton box.
• **32727 ROMA SPHYGMO - adult - 1 Tube**
• **32736 ROMA SPHYGMO - adult - 1 Tube - latex free**
• **32734 ROMA SPHYGMO - adult - 2 Tubes**
• **32709 ROMA SPHYGMO - pediatry - 1 Tube**
Same as 32727 but with pediatric cuff 35x11 cm
• **32728 ROMA SPHYGMO - adult - fluorescent
- 1 Tube**
Same as 32727 but with special fluorescent
dialplate to allow easy reading even in dark
places. This feature is suitable for emergency
applications.
• **32856 PVC RIBBED BULB**
• **32857 PVC PROTECTIVE RING**

32728

**FLUORESCENT
DIAL PLATE**

ROMA MULTICUFFS KIT

CE 0476

32738

• **32738 ROMA KIT - Sphygmo with 3 cuffs**
Same as code 32727 but supplied with 3 cuffs: one pediatric
(35x11 cm), one adult (49x15 cm) and one adult large
(62x17,5 cm)

ROMA COMBO KIT

• **32740 ROMA COMBO KIT**
Practical kit with all necessary instrument for a basic diagnostic. It
includes in a nylon bag the following items:
- Roma sphygmomanometer code 32727
- Rappaport type double head double tube stethoscope code
32601 (without clock)
- Alfa pen light code 25626   - Name Tag for stethoscope
- Nurse utility scissors code 34128   - Tape measure
All products are colour coordinated in blue.
Other colours or different components available for quantities.

CE 0476

32740

130

GIMA

◼ RIESTER ANEROID SPHYGMO - MADE IN GERMANY

Riester ℃℮ 0124

Easily readable scale Ø 64, from 0 to 300 mmHg, ± 3 mmHg

32715

Precision air release valve with fine adjustment and wear-free

Suitable for right or left handed users

Riester ℃℮ 0124

Precision air release valve with fine adjustment and wear-free

32717

Riester

☒ Erwachsene Armumfang:
☒ Adults Arm Circumference:
☒ Adultes Circonférence de bra:
☒ Adultos Perimetro de brazo:
☒ Adulti Circonferenza di braccia:

32711

Riester ℃℮ 0124

• **32715 RI-SAN® SPHYGMO** ◼
High quality palm-style sphygmomanometer with ergonomic design.
Air release valve conveniently regulated by finger-tip control.
- Calibrated nylon cuff with velcro
- Latex-free bulb for pumping up the cuff
- Tube connection at the top of pressure gauge for unhindered blood pressure measurement
- Microfilter protects air release valve and measuring system
- Specially tempered copper-beryllium diaphragm almost non-aging
- The precision movement guarantees reliable measurement
- Diaphragm can be pressurized up to 600 mmHg

• **32717 PRECISA® N SPHYGMO** ◼
A typical Riester quality product.
In metal with aluminium housing and single tube - plug-in connection.
- Calibrated nylon cuff with velcro.
- Latex bulb, and metal valve base
- Ergonomic grip of stainless steel
- Microfilter protects air release valve and measuring system
- Specially tempered copper-beryllium diaphragm, with precision movement and almost non-aging
- Diaphragm pressure-loading capacity up to 600 mm Hg
- Scale, from 0 to 300 mm Hg, ± 3 mmHg

• **32711 MINIMUS® II SPHYGMO** ◼
MINIMUS® is a reliable, durable and elegant palm model aneroid chrome-plated manometer with integral bulb and air release valve for one hand use, provided with a stainless steel handle, Luer Lock connection, calibrated black nylon cotton velcro closure cuff and 1 tube bladder.
Supplied in a nice carrying case and box.

◼ ONE-HAND SPHYGMO

HEINE ℃℮ 0124

HEINE OPTOTECHNIK

Made in Germany

32737

The inflator spoon can be set for left-and-right-handed users.

• **32737 GAMMA "G5®" HEINE SPHYGMOMANOMETER Blue cuff**
• **32739 GAMMA "G7" HEINE SPHYGMOMANOMETER Aluminium manometer.**
With the new latex free G5® Heine, GIMA offers an aneroid sphygmomanometer of the highest quality of design and function with unequalled value for money.
A modern, functional design combined with exceptional precision of measurement and durability make Heine G5 ideal for long-term use in clinic and practice environments. 5 years warranty.
- **Latex-free**
- Exceptionally-strong housing construction with triple-mounted, **shockproof** movement.
- **Impact-resistant housings** crafted in special, shock-absorbing materials incorporate the latest advances in injection-moulding technology.
- A **microfilter** protects the valve and movement.
- **Oversized inflator** speeds up cuff inflation.

R1

Riester ℃℮ 0124

SHOCK PROOF

32716

• **32716 R1 SHOCK PROOF SPHYGMO**
Exact precision that lasts a lifetime.
Made in Germany.
- Shock-proof up to a falling height of 120 cm.
- Scale: Ø 52 mm black with red fluorescent pointer.
- Valve base and air duct with metal precision valve.
- Two-component ABS casing
- Metal threaded tube connection at the top of the casing for fast cuff exchange and ergonomical operation.
- Maximum error tolerance of +/- 3 mm Hg.
- Weight: 173 g

MINOR ℃℮ 0124
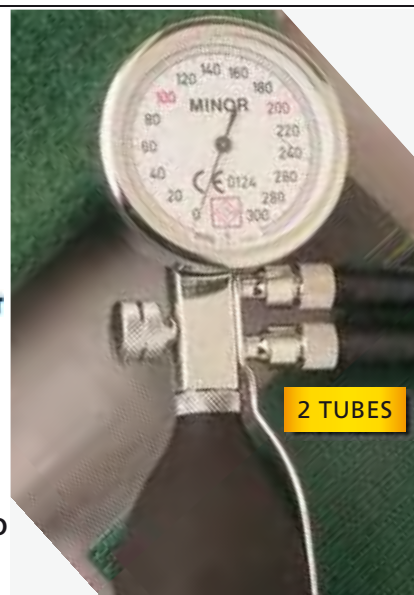
2 TUBES

• **32733 MINOR SPHYGMO - 2 tubes**

Professional, stylish and extremely reliable sphygmomanometer with chrome-plated manometer, integral bulb, high quality precision mechanism, green cotton velcro closure cuff and two tube bladder.
Supplied in a nice carrying case and box.
Made in European Community.

RIESTER BIG BEN® - MADE IN GERMANY

• **32742 RIESTER BIG BEN® - rail**
(clamp code 32766 and rail not included)
• **32743 RIESTER BIG BEN® - wall**
Rotation 130°, 65° right, 65° left
• **32746 RIESTER BIG BEN® - trolley Ø 38 cm**

Aneroid sphygmomanometer, made of resistant plastic, with large dial (147 mm.) and white pointer on black dial plate for easy-to-read measurements from 0 mm Hg to 300 mm Hg. Basket on back for cuff storage after use. Velcro-closure black cuff 2 tubes, and long coil tubing.
Quality product: made in Germany

• **32766 RAIL CLAMP**
Universal clamp (for code 32742) for any rail.

Made in Germany

Plastic basket on back for cuff storage

32742

32766

CE 0124

DALLAS SPHYGMO: WALL, DESK AND TROLLEY MODELS

90° rotation

Large dial Ø15 cm

CE 0476

ABS compart-ment for cuff storage

Nylon calibra-ted cuff

32748

CE 0476

Plastic storage basket

large dial Ø 15 cm

32749

CE 0476

5 castors S/S trolley

32747

• **32748 DALLAS SPHYGMOMANOMETER - desk model**
Provided with click-open compartment for cuff storage, rotation 90° for easy reading.
• **32749 DALLAS SPHYGMOMANOMETER - wall model**
Provided with rear plastic basket for cuff storage.
• **32747 DALLAS SPHYGMOMANOMETER - trolley model**
Provided with stainless steel trolley adjustable in height, with 5 castors

All DALLAS sphygmos are provided with extra large dial plate (Ø 150 mm) for easy reading, black nylon calibrated cuff and quality inflation system. Scale 0-300 mmHg.

INFUSION CUFFS

• **32684 RIESTER INFUSION CUFF - 500 cc**
• **32685 RIESTER INFUSION CUFF - 1000 cc**
Pressure cuff for infusion with high quality chrome-plated gauge Ø 49 mm up to 300 mmHg. Also incorporates safety-valve. Made in Germany.

Sturdy blue cotton cuff washable at 60°

32684

CE 0124

• **32680 INFUSION CUFF - 500 cc**
• **32682 INFUSION CUFF - 1000 cc**
Infusion cuffs similar to above, made in Asia

32680

NYLON BAGS IN 5 COLORS

Provided with zip closure and external pocket with velcro closure

GIMA code	NYLON BAGS
32790	Sphygmo bag - 27x18xh5 cm
32791	Nylon bag - blue - 22x15x5 cm
32792	Nylon bag - blue - with inner foam
32793	Nylon bag - green - 22x15x5 cm
32794	Nylon bag - red - 22x15x5 cm
32795	Nylon bag - black - 22x15x5 cm
32796	Nylon bag - grey - 22x15x5 cm

32790

GIMA

■ CUFFS FOR ALL NEEDS: FROM NEWBORN TO OBESE

GIMA code	CUFFS FOR SPHYGMOMANOMETERS	Minimum order
32807	Gimatono - Exactophon Cuff	6 pcs.
32808	Nylon velcro Cuff (no bladder) cm 49x15	10 pcs.
Fabric + Bladder: nylon + velcro fastening - Grey/green colour		
32810	Mini Cuff "1 T" 16xh5 cm premature	
32811	Mini Cuff "1 T" 23xh5 cm up to 3 months	
32812	Mini Cuff "1 T" 29xh7 cm 4 months to 3 years	10 pcs. also assorted
32813	Mini Cuff "1 T" 33xh9 cm 3-7 years	
32814	Mini Cuff "1 T" 40xh11 cm 7-10 years	
32816	Mini Cuff "1 T" Set 5 pieces (32810-32814)	
32820	Mini Cuff "2 T" 16xh5 cm premature	
32821	Mini Cuff "2 T" 23xh5 cm up to 3 months	
32822	Mini Cuff "2 T" 29xh7 cm 4 months to 3 years	10 pcs. also assorted
32823	Mini Cuff "2 T" 33xh9 cm 3-7 years	
32824	Mini Cuff "2 T" 40xh11 cm 7-10 years	
32826	Mini Cuff "2 T" Set 5 pieces (32820-32824)	
Fabric + Bladder: nylon + velcro fastening - Grey/green colour		
32830	Standard cuff + bladder 1 tube 52x14 cm	10 pcs.
32832	Standard cuff + bladder 2 tubes 52x14 cm	10 pcs.
32834	Large cuff + bladder 1 tube 61x17.5 cm	10 pcs.
32835	Large cuff + bladder 2 tubes 61x17.5 cm	10 pcs.
32837	Thigh cuff + bladder 1 tube 81x21 cm	6 pcs.
32838	Thigh cuff + bladder 2 tubes 81x21 cm	6 pcs.
32829	Cotton cuff + bladder 1 tube 53x14.5 cm	6 pcs.
Calibrated nylon cuffs + bladder		Colour
32842	Standard Cuff + bladder 1 tube 49x15 cm	
32843	Standard Cuff + bladder 2 tube 49x15 cm	
32844	Standard Cuff + bladder 1 tube 49x15 cm	
32845	Standard Cuff + bladder 1 tube 49x15 cm	
32846	Pediatric Cuff + bladder 1 tube 35x11 cm	
32847	Pediatric Cuff + bladder 2 tube 35x11 cm	
32848	Large Cuff + bladder 1 tube 62x17.5 cm	
32849	Large Cuff + bladder 2 tubes 62x17.5 cm	

32838
32835
32829
32832

32814
32813
32812
32811

32848
32845
32842
32846
32844
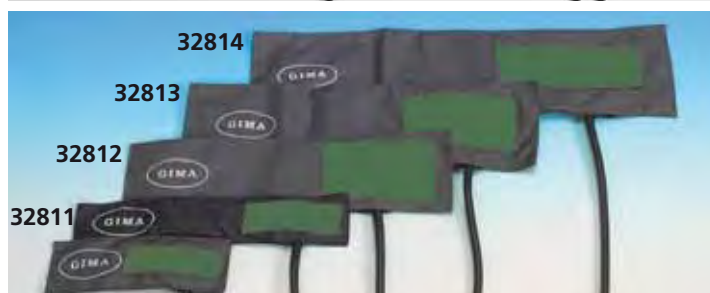
One tube cuff for use with Ducale, Ranger, Sirio, London, Boston, Roma 1T, Tokyo, Ri-san, Precisa, Minimus.
Two tubes cuff for use with Minor, Diplomat, Yton line, Roma 2T, Dallas, Big Ben, Empire.

■ SPHYGMOMANOMETERS SPARE PARTS AND ACCESSORIES

32870
32871
32875
32872
32873
2 tubes
32865

32862 (32860+32861)   *superior inflation system*   **32859**
32863   **32850**   **32861**

GIMA code	SPHYGMOMANOMETERS SPARE PARTS	Minimum order
32865	Coiled tubing - black (42-45 spirals)	
	extension 3 m rubber tubing - black - 48 cm	10 pcs.
32874	1 tube Bladder	10 pcs.
32875	2 tubes Bladder	10 pcs.
32876	1 tube + 1 hole Gimatono Bladder	10 pcs.
32880	Vertical glass tube	10 pcs.
32870	Male-Female metal connector	box 10
32871	Screw Type metal connector	box 10
32872	Bayonet Type metal connector	box 10
32873	Plastic connector	box 100

GIMA code	SPHYGMOMANOMETERS SPARE PARTS	Minimum order
32854	Yota PVC bulb - black - latex free	10 pcs.
32855	Yota latex bulb - black	10 pcs.
32860	Superior PVC bulb - green - latex free	10 pcs.
32859	Superior PVC bulb - black	10 pcs.
32850	Yota "automatic" air release valve	10 pcs.
32852	Yota chrome-plated air release valve	10 pcs.
32861	Superior chrome plated air valve	10 pcs.
32853	Yota inflation system	10 pcs.
32862	Superior inflation system - latex free	10 pcs.
32863	Deluxe inflation system	10 pcs.

DESK MERCURIAL SPHYGMOMANOMETERS

CE 0476

32750

CE 0476

32757   **32756**   **32755**

• **32750 YTON MERCURIAL SPHYGMO - adult**
Traditional desk mercurial sphygmomanometer in aluminium painted case with self locking, with adult blue nylon cuff with velcro and metal D-ring:
- Internal graduated glass scale with inside diameter of 3.5 mm and a clear reading scale. On/off mercurial tap.
- Range 0-300 mmHg
- Air release at closed tap max 4 mm/Hg/Minute.
- Graduated scale 2 mmHg by 2mmHg, with bigger notches graduated every 10 units
-Single packing in carton box

• **32759 YTON MERCURIAL SPHYGMO - pediatric**
Same as code 32750 but with pediatric cuff
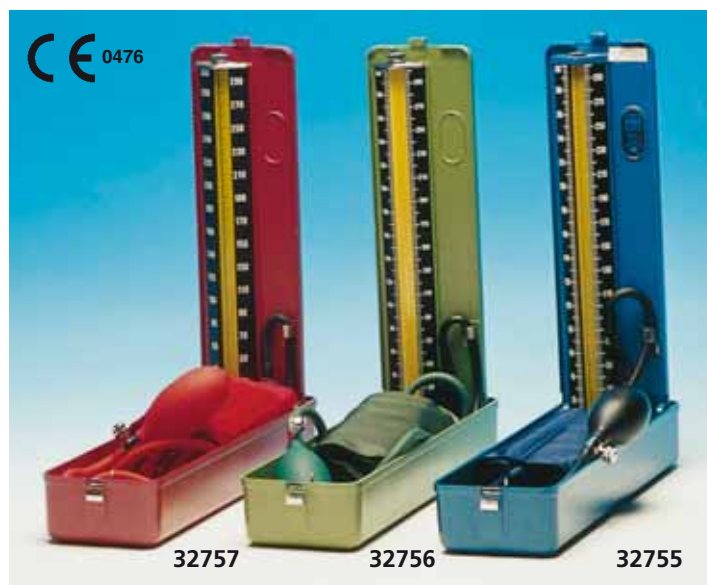
STAR MERCURIAL SPHYGMO - COLOUR LINE
Traditional desk mercurial sphygmo in wide lightweight metal box with mercury locking device and colour co-ordinated case, cuff, tubes and bulb. All provided with nylon calibrated cuff. Single packing in carton box.

GIMA code	STAR COLOUR SPHYGMOMANOMETERS	
32755	Star mercurial sphygmo - blue	
32756	Star mercurial sphygmo - green	
32757	Star mercurial sphygmo - red	

ELECTRO-PNEUMATIC TOURNIQUET

• **33132 ELECTRO-PNEUMATIC TOURNIQUET**
With one adult cuff and one thigh cuff
Applications: surgery of arms and legs, local anaesthesia.
Built-in compressor, pressure setting up to 60 cm Hg, automatic compensation in case of loss of pressure, quick/Emergency disconnecting facility of the cuffs,
solid cast-iron enclosure with transport handle,washable Velcro™ cuffs.
• **33135 SPARE CUFF** specify for adult, child or neonate.
• **33140 SPARE THIGH CUFF**

DIPLOMAT CLASSIC

• **32752 DIPLOMAT CLASSIC**
Traditional desk mercurial sphygmo in wide lightweight metal box with mercury locking device and velcro cuff.
High precision glass tube with capillars
4.2 mm +/- 0.2 mm. Range 0-300 mmHg.
Made in Germany.
• **32882 GLASS TUBE - spare**

Pressure setting switch

Pressure gauge

Timer (0-120 min)

Coiled extention tube

CE 0494

Deflation button for instant deflation

⊙ **Riester**

CE 0124

Internal Ø 4.2 mm

32752

TECHNICAL SPECIFICATIONS	
Operating voltage: 220 V - 50 Hz	Weight: 3.5 kg
Size: 23 x 23 x 23.5 cm	Made in France

GIMA

MERCURIAL SPHYGMOMANOMETERS: WALL, RAIL, TROLLEY

CE 0483

CE 0124

EMPIRE

CE 0124

32766

Wall model

Rail model

32760 YTON

32763

32762

Quality product made in Germany

CE 0459

CE 0124

CE 0301
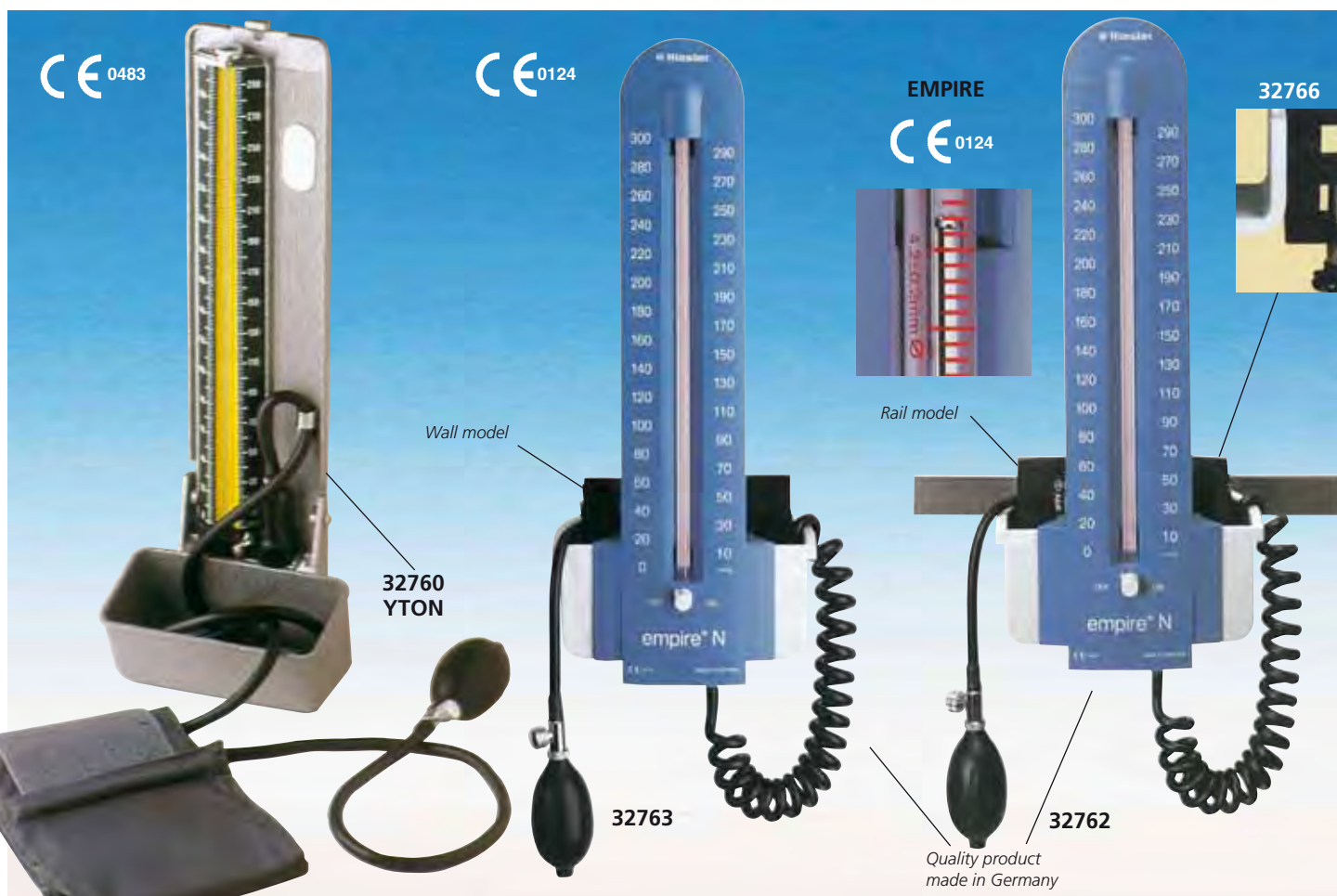
YTON LINE - Made in China
• **32760 YTON MERCURIAL SPHYGMO - wall**
• **32769 YTON MERCURIAL SPHYGMO - trolley**
Mercury sphygmomanometers with velcro cuff (2 tubes) and storage compartment. 0-300 mm/Hg.

KENZ LINE - Made in Japan
• **32764 MERCURIAL SPHYGMO - trolley**
Recommended for hospitals, thanks to its mobile trolley and height adjustable stand.
Features include: velcro cuff (2 tubes) storage compartment, scale angled back for easy reading.
Safety mercury locking device.

EMPIRE LINE - Made in Germany - **Riester**
• **32762 EMPIRE - anaesthetic model (rail)**
Rail and clamp not included.
• **32766 RAIL clamp (for code 32762)**
• **32763 EMPIRE - wall**
• **32765 EMPIRE - trolley**
Attractive mercury sphygmomanometers. Housing made of resistant engineering plastic, including a basket, **swivelling up to 65° in each direction.**
Precision glass tube with inner diameter of 4.2 mm +/- 0.2 mm.
Face plate with easy-to-read graduated scale.
Maximum reading 300 mmHg.
Mercury lock.
Basket for convenient accessory storage.
Coiled tubing extensible to 3 m.
Maximum error through range +/- 3 mmHg.
5 revolving castors 5 cm Ø
With latex bulb and chromed-plated air release valve.
Mounting hardware included.
• **32883 GLASS TUBE - spare for EMPIRE**

Height adjustable from 110 to 150 cm

Metal trolley

5 castors trolley

32764

32765

32769

135

DIGITAL BLOOD PRESSURE MONITORS

Automatic air inflation

75 (or 3x25) sets of memory

For adults over 18 years (wrist circumference 13.5-19.5 cm)

Low battery indicator

CE 0044

Automatic shut-off after 3 minutes

Automatic inflation and deflation

32779

32772

CE 0044
FDA Approved

18 memories

M2RS

Manual air inflation

- **32770 MS-702 DIGITAL MANUAL SPHYGMO**
- **32772 MS-700 AMI DIGITAL AUTOMATIC SPHYGMO**
- **32781 SPARE CUFF MS-702 - adult**
- **32782 SPARE CUFF MS-703 - adult**

Digital, electronic blood pressure/pulse rate monitor for easy measurement also for non-professionals
- large LCD display shows blood pressure and pulse rate
- self-adjusting cuff, Velcro type closure, helps placement errors elimination, no stethoscope needed (oscillo-metric method)
- compact, palm size, ensures full portability
- low battery indicator, automatic shut off after 3 minutes
- **32779 MS 906 WRIST SPHYGMO**
Automatic wrist digital blood pressure monitor for accurate and stable measurements. With large LCD display an utility case for storage.

CE 0044
FDA Approved

32770

TECHNICAL SPECIFICATIONS			
	32772	32770	32779
Display LCD:	93x31.5 mm	52x22.5 mm	-
Digit size	8.5x18.5 mm	5x12.5 mm	-
Pressure/pulse range	20~280 mmHg /40~180 P/m		
Pressure/pulse accuracy	pressure ± 3mm Hg/ pulse ± 5%		
Power sources 4 batteries	"AA" size	"AAA" size	2"AAA" size
Dimensions mm	185x95x46	145x75x38	81x72x33,5
Weight	680 g	480 g	100 g

GIMA DIGITAL BLOOD PRESSURE MONITORS

Display date and time

Extra large LCD display for easy reading

CE 0123

Display date and time

CE 0123

AUTOMATIC INFLATION AND DEFLATION

Both units are supplied with multilanguage box and manual (English, Italian, French, Spanish, Portuguese, Greek)

GIMA

32787

32786

- **32787 GIMA AUTOMATIC B.P. MONITOR**
Innovative design digital fully automatic blood pressure meter:
- one-touch measurement
- 30 sec. measurement time for normal blood pressure
- 4 person use / 25 memories each
- power saving system

TECHNICAL SPECIFICATIONS	
Measuring method: oscillometric	
Display: Systol, Diastol and Pulse	
Measuring range:	20~280 mmHg (cuff pressure)
	40~195 beats/min (pulse rate)
Accuracy:	Pressure: +/- 3 mmHg
	Pulse: +/-5% of reading
Power supply: 4x "AA" batteries	
Dimensions: 140x120x70 mm	
Weight: 300 g (ex. batteries) Arm cuff: 22-34 cm	

- **32786 GIMA AUTOMATIC WRIST B.P. MONITOR**
Reliable digital blood pressure monitor with following features:
- one touch automatic inflation and deflation
- large LCD display with date and time
- 2 person use / 60 memories each
- power saving system

TECHNICAL SPECIFICATIONS	
Measuring method: oscillometric	
Measuring range:	Pressure 20~280 mmHg
	Pulse 40~195
Accuracy:	Pressure: +/- 3 mmHg
	Pulse: +/-5% of reading
Power supply: 2x "AAA" batteries	
Dimensions: 80x60x75 mm	
Weight: approx 130 g (including cuff, ex batteries)	
Wrist circumference: 13.5 - 19.5 cm	

GIMA

CLINIC ELECTRONIC SPHYGMO

CE 0123

6 COLOUR "WHO" LIGHT INDICATOR

6 COLOR WHO BLOOD PRESSURE LIGHT INDICATOR

- Severe Hypertension
- Moderate Hypertension
- Mild Hypertension
- High-normal
- Normal
- Optimal

32796

• **32797 CLINIC DIGITAL SPHYGMO - table**
Professional digital blood pressure monitor for hospital and medical use.
- Fully automatic inflation and deflation, large LCD display (5x6 cm) easy to clean.
- Extra memory: 4 users with 99 memories each
- Clock mode: show current date and time when not in operation
- Average readings available hourly, daily, weekly, monthly, over all
- 4 alarm setting for medication
- Irregular heartbeat indication
• **32798 PC SOFTWARE + USB CABLE**
Available PC link software with USB connector

TECHNICAL SPECIFICATIONS	
Measuring type:	oscillometric system
Measuring range:	Pressure - 20 ~ 280 mmHg
	Pulse: 40 ~ 195 beats/min.
Accurancy:	Pressure ± 3 mmHg Pulse: ± 5%
Power supply:	4x "AA" batteries or AC adaptor (option)
Weight:	Approx. 380g (including cuff, ex. batteries)
External dimension:	195(L)x126(W)x62(D) mm
Arm cuff:	22 - 34 cm

DOMINO DIGITAL B.P. MONITOR

Automatic inflation deflation

32803

• **32803 DOMINO DIGITAL BLOOD PRESSURE MONITOR**
• **32804 DOMINO DIGITAL B.P. MONITOR on trolley with basket**
Professional desk Blood Pressure monitor for hospital and medical use.
- Extra large LCD display with innovative design
- Date/time/ambient temperature (°C/°F) display
- IHB Irregular heartbeat detector
- 120 memories (60 sets for 2 users)
- Alarm clock reminding function
- WHO blood pressure classification indicator
• **32802 AC ADAPTOR**

32804

TECHNICAL SPECIFICATIONS		
Measuring range:	Pressure - 40 ~ 260 mmHg	Pulse: 40 ~ 160 beats/min.
Accurancy:	Pressure ± 3 mmHg	Pulse: ± 5%
Power supply:	4x "AA" batteries or AC adaptor (option)	
External dimension:	158(L)x120(W)x127(H) mm	Weight: 490 g

LCD DISPLAY, MERCURY-FREE SPHYGMOMANOMETERS

MERCURY FREE SPHYGMOMANOMETERS
A new technology of LCD display mercury-free sphygmomanometers alternative to the mercury column.
With precise results and support to global environment saving pollution.
Manual inflation and air release.

GREEN AND ENVIRONMENTAL PROTECTION

CE

• **32758 UM-101 MERCURY FREE SPHYGMOMANOMETER**
A new highly advanced digital blood pressure monitor alternative to the mercury column
- Auscultatory blood pressure measurement without mercury
- Pressure level marker button for useful reminders
- Digital readout for pulse rate
- Adjustable display column for easier analysis of results

Range Numerical Display: pressure 0-300 mm Hg ± 3mm Hg, pulse 30-200 beats/minute ±5%
Range pressure bar display: pressure 20-280 mm Hg ±4 mm Hg
Power supply: 2x1.5V alkaline batteries

32801

CE 0366

AND

Made in Japan

32800

• **32800 GREEN MERCURY FREE SPHYGMO - cassette**
• **32801 GREEN MERCURY FREE SPHYGMO - on trolley with basket**

TECHNICAL SPECIFICATIONS (32800, 32801)	
Size:	360x96x66 mm (32800)
Measuring range:	40-240 mmHg
Accuracy:	pressure: ± 3 mmHg
Power supply:	battery

■ ARTERIAL HARDNESS AND BLOOD PRESSURE MONITOR

CE 0044

32774

Artery

Normal

Danger

• **32774 VITAL VISION MS-1200**
The first unit in the world measuring artery stiffening.
Arterial hardness measurement complements blood pressure management. Both are needed to ensure a long and healthy life. Measuring arterial hardness and blood pressure on a regular basis will help you to gain knowledge of your cardiovascular condition and provide early diagnosis for treatment.
Size: 175x90x105 mm with cuff storage compartment
30 sets of memories with date/time stamp for blood pressure and pulse rate monitor.

■ 24 HOURS BLOOD PRESSURE MONITOR SYSTEM

CE 0123

32780

• **32780 DAILY ABPM + software**
A simple, economic and small size unit for 24 hours ambulatory blood pressure monitoring.
Main features:
- 4 - memory zones, 99 - readings each (total 396 measurements)
- Patient-friendly performance at affordable price
- Automatic measurement by two predetermined intervals
- Irregular Heartbeat detector, detect a disturbance in the regular rhythm of the heartbeat
- Big LCD display showing measuring date and time
- 5 - mode average function, by hour, day, week, month and overall
- Transfer to PC via software and USB plug of measured values
- Lithium battery, long - time measurement
Supplied with arm cuff (22-34 cm) and software.

TECHNICAL SPECIFICATIONS
Measuring type: Oscillometric system
Measuring range: Pressure: 20 ~80 mmHg
Pulse: 40~195 beats / min.
Accuracy: Pressure: ± 3 mmHg   Pulse: ± 5%
Power supply: Lithium Battery, 3.7V 1050mA
Weight: Approx. 260g (including cuff, ex. batteries)
External dimension: 184x84x33 mm
Arm cuff: 22-34 cm

■ UP TO 52 HOURS AMBULATORY BLOOD PRESSURE MONITOR

• **33351 AM100 GIMA ABPM with adult cuff**
The AM100 is a compact, lightweight instrument that provides a cost-effective solution for monitoring patient's blood pressure outside the clinical environment.
AM100 employs the popular oscillometric technique of blood pressure measurement that is used in patient monitoring in hospital worldwide. The simplicity of this technique provides for the quickest patient hook-up. AM100 interfaces with **Win Pro PC** Software for monitor programming as well as report editing and generation.
Oscillometric technology: quick hook-up, making it easy to use, saving your staff time
Compact and quiet: silent operation and compact size aid patient compliance.
Low power consumption: requires only two "AA" batteries, making this unit much less expensive than others.
AM100 is supplied complete with software, standard cuff, carrying-bag, English manual and PC connection cable.
• **33348 PEDIATRIC CUFF - 34x11 cm**
• **33349 ADULT CUFF - 57x14,5 cm**
• **33353 ADULT LARGE CUFF - 62x17 cm**

TECHNICAL SPECIFICATIONS
Tecnique: Oscillometry with step deflation
Accuracy: +/- 3 mmHg
Display: Liquid crystal
Recording duration: Up to 52 hours
Sample quantity: Over 250 sample of systolic, diastolic, MAP and heart rate
Sampling periods: 3 time periods
Power source: 3 VDC/Two 1.5 V "AA" Alkaline

AM 100

CE 0068

GIMA

SOFTWARE INCLUDED IN PRICE !

Compact size: 12x7x3 cm, and light, 280 g only, including batteries

PG WIN PRO PC INTERFACE
- Creates a monitoring plan tailored to an individual patient with up to 3 specific time periods
- Generates concise clinical reports.
PG Win reports include full disclosure of blood pressure readings, heart rate, mean arterial pressure, blood pressure load and trend of BP values vs. time.
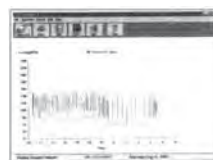
NYSTAGMUS SPECTACLES - DR. FRENZEL

• 31204 NYSTAGMUS SPECTACLES - DR. FRENZEL
Easy to use in the search of spontaneous or provoked nystagmus. Fixed, biconvex lens + 18.0 diopters.
Nystagmus spectacles should be connected only with < 4.2V transformer as from safety norms 93/42/EEC, see "GIMA5" at page 107. Made in Germany.

• 31206 BATTERY NYSTAGMUS SPECTACLES
This model allows wireless working and is not bound to power supply. The Nystagmus Spectacle is provided with power through the adjustable battery placed above the spectacle and requires three 1.5 Volt batteries, size C LR14/AM-2 (baby cells). Illumination can be adjusted through a turn of the switch.

• 31130 AC/DC TRANSFORMER - see at page107.
• 31208 NYSTAGMUS LAMP - spare
4 Volt 0.230 Ampere, 1 Watt threading diam. 3.5 x 0.35 mm

31204

31206

31206

TRANSFORMER NOT REQUIRED

VIDEONYSTAGMOSCOPE SYSTEM

• 31210 VIDEO-NYSTAGMOSCOPE SYSTEM - Spectacles and 1 camera
It facilitates to view and register the Nystagmus, reached through standard vestibular tests (both position and instrumental proof). This system allows to view on the monitor images of patient eyes during tests and also allows to make Visual Suppression Test (VST) through one red led ignition inside the mask to allow fixation. This useful and practical diagnostic system, thanks to its small dimension and reduced weight becomes fundamental for vestibular practise. Innovative technology used in the system allows to get images of quality that make the professional activity easy. Power 220V (12V DC).
• 31211 ADDITIONAL CAMERA for 31210
To see both eyes on monitor at same time.
• 31212 MONITOR for 31210
black/white 14" monitor - 1000 TV linees - 220 V

31210+31212

31210+31211+31212

HANDHELD IMPEDANCE AUDIOMETER/TYMPANOMETER

• 33645 MT10 IMPEDANCE AUDIOMETER
• 33646 MTP10 IMPEDANCE AUDIOMETER - with printer
• 33647 PAPER ROLL - 80 mm thermal paper
**• 33648 SPARE EARTIPS Ø 6/7/9/10/11/13/15/18 mm**
- specify with order
MT10 is an automatic, portable impedance audiometer for both screening and clinical applications
Main features:
- automatic Tympanometry test   - audiometric screening
- pass/fail limits on screen   - memory for 20 patients
- 4 acoustic reflex tests per ear   - calculates gradient
- actual reflex response is recorded - many printing options
- reflexes tested at correct pressure - rechargeable batteries
- automatic reflex search   - large high resolution display

TECHNICAL SPECIFICATIONS	
Tests	
- Tympanometry	Normal:+200 to -300daPa
	Extended: +300 to -600daPa
- Acoustic Reflex Test	4 reflexes per ear
	Automatic Intensity Search or Fixed Stimulus Intensity
	Intensities: up to 110 dBHL (l00 dBHL at 3-4 kHz)
	Frequencies: 0.5 kHz, 1 kHz, 2 kHz, 3 kHz, 4 kHz.
	Actual reflex recorded and displayed
- ScreeningAudiometry	Intensity: 10 dBHL to 50 dBHL
	Frequency: 0.5 kHz, 1 kHz, 2 kHz, 3 kHz, 4 kHz.
Probe Tone	Frequency: 226 Hz ± 3%
	Amplitude: 85 dB SPL ± 3 dB
Pressure	Direction of Sweep: positive to negative
	Pump Speed: 250 - 350 daPa/sec.
	Resetting Time: 0 Seconds.
	Pressure Accuracy: +/- 10% or 10daPa
Internal Memory	Tympanometry, 4 reflex recordings and Audiogram
	for Left as well as Right ear.
	20 patients' full testing scheme.
	Selective patient storing.
Power supply	3 High quality rechargeable NiMH batteries included.
Weight and Dimensions	MT 10 Weight: 500 g
	MT 10 Dimensions: 10x25x13 cm

33646

Acoustic reflex test

33645
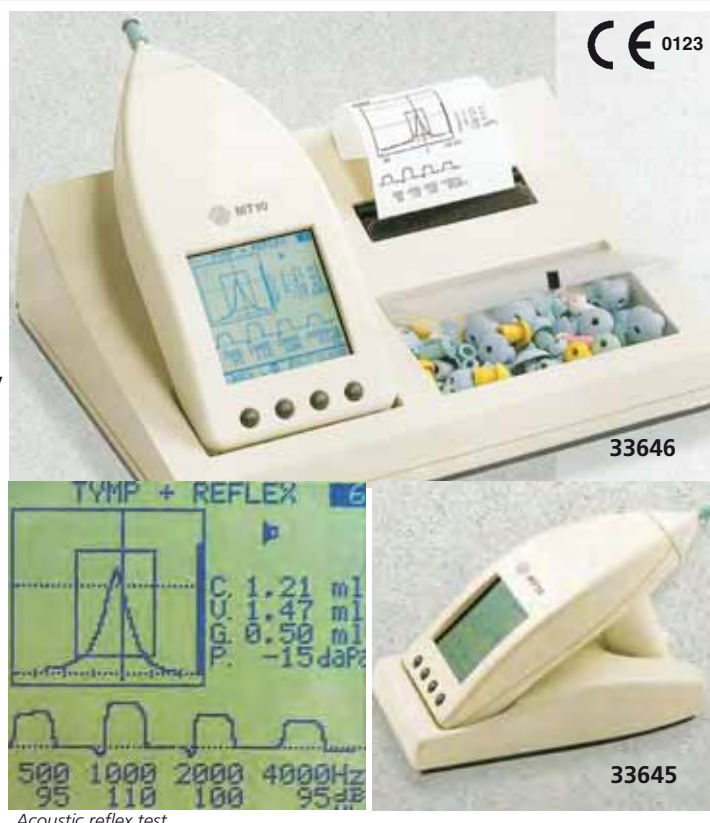
STANDARD ACCESSORIES	
Base station with built-in thermal printer, charging and "interface to PC (only code 33646)	
3 rolls of thermal paper	set of eartips
power supply	operation manual
3 NiMH rechargeable batteries	service manual

PORTABLE AUDIOMETERS

33612

33621

CE 0318

- **33610 AUDIOMETER AS5-A - air conduction**
- **33612 AUDIOMETER AS5-AOM - air+bone+masking**
- **33620 TEST RESULTS PAD**
- **33621 INSULATION DEVICE for air conduction phone (insulation 3-4 db)**
- **33622 AIR CONDUCTION PHONE - spare**
- **27139 CARRYING BAG - nylon**

Gima audiometers have a microprocessor allowing simple and quick measure audition levels. All the operations can be made by a membrane keyboard and visualized on an alphanumeric LCD display of 16 characters.

AUDIOMETERS FEATURES

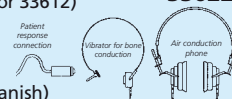|	33610 AS5-A	33612 AS5-AOM
Air conduction	•	•
TDH39 phones	•	•
Continuous tone	•	•
Pulse tone	•	•
Signal indicator	•	•
Masking noise		•
Bone conduction		•
Bone vibrator		•
Patient response	•	•
LCD display	•	•

TECHNICAL SPECIFICATIONS

Channels: one
Masking noise (33612 only): White noise
   Level range = 30 to 80 dB SPL
   Levels increments = 5 dB
Power supply: 220 V 50/60 Hz, 15 W
Dimensions: 342x246x95 mm   Weight: 2,5 Kg
Norm: UNE 20-613, IEC 601.1   Made in Europe

FREQUENCY AND SOUND PRESSURE LEVELS

Frequency	250	500	1000	2000	3000	4000	6000	8000	Hz
Max. pure tone ac	90	105	105	105	105	105	90	80	dB HL
Max. pure tone bc	40	50	50	50	50	50	-	-	dB HL
Min. pure tone ac/bc	-10	-10	-10	-10	-10	-10	-10	-10	dB HL
Level increments	5	5	5	5	5	5	5	5	dB HL
Frequency accuracy	±3% at all frequencies								
Levels accuracy	±3 dB								
	ISO 389, UNE 74-020-78								

STANDARD ACCESSORIES

1. Air conduction phones thd-39
1. Bone conduction phone (only for 33612)
1. Patient response switch
1. Test results pad (100 sheet)
1. Pen (red, blue)
User manual (English, Italian, Spanish)

33622

Patient response connection | Vibrator for bone conduction | Air conduction phone

CLINICAL 2 CHANNEL AUDIOMETER

TÜV CERT ISO 9001

AC50 comes complete with air and bone cuffs, patient response with switch, user manual.

- **33630 AC 50 PROFESSIONAL AUDIOMETER air + bone conduction**
Permits speech audiometry, hearing loss calculations and all types of audiometric tests, both screening and liminar-supraliminar, including diagnostic tests like: PURE TONE, SISI, VOCAL DISCRIMINATION, ABLB, LÜSCHER, WARBLE, STENGER and others. It can be connected to a printer which will produce the audiogram and hearing-loss assessment and to a PC, through an RS-232 C channel, to store and manipulate audiometric tests.
- **33633 INTERCOM KIT (headphone+microphone)**
- **33631 SOFTWARE**

FREQUENCY	125	250	500	750	1000	1500	2000	3000	4000	6000	8000	Hz
MAX LEVELS												
Pure tone Air Conduction	80	100	120	120	120	120	120	120	120	110	100	dB HL
Pure tone Bone Conduction	-	50	60	60	70	70	70	70	70	-	-	dB HL
Free field	-	70	90	90	90	90	90	90	90	80	-	dB HL
MASKING NOISE												
Narrow-band noise AC	60	80	100	100	100	100	100	100	100	100	90	dB HL
Narrow-band noise BC	-	40	50	50	60	60	60	60	60	-	-	dB HL
Speech noise AC					100							dB HL
Speech noise BC					70							dB HL
SPEECHAUDIOMETRY												
Air Conduction					100							dB HL
Free field					70							dB HL
Min. levels	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	dB HL
Levels increments	5	5	5	5	5	5	5	5	5	5	5	dB HL
Frequency accuracy	2% at all frequency											
Levels accuracy	±2 dB											

TECHNICAL SPECIFICATIONS

Channels: two
Transducers: THD 39, B-71 or B-72
Tone presentation: Continuous - Pulse - Frequency Modulation -
   Amplitude Modulation - ABLB - SISI
Tone switching: Normal-Inverted tone switch - With key without noises
Standards: • Safety: IEC 601.1, EN 60601.1
   • Audiometry: IEC 645.1, IEC 645.2 UNE20-641
   • Calibration: ISO 389, ISO 7566, UNE 74-020
Outputs: Channel RS232 C - For HP - PCL or IBM Graphics printer
Internal Memory: Capable of storing 50 patients
Power supply: 220V 50/60 Hz (other options)
Size: 470x250x95 mm
Weight: 4.5 Kg

CE 0318

CLINICAL 2 CHANNEL AUDIOMETER

- **33623 SIBELSOUND 400-A AUDIOMETER - air conduction**
- **33624 SIBELSOUND 400-AOM AUDIOMETER - air + bone + masking**
- **33626 SIBELSOUND 400-SUPRA AUDIOMETER - air + bone + mask + software**
- **33628 INTERCOM KIT (headphone + microphone)**   • **33629 SOFTWARE**

The SIBELSOUND 400 is a two-channel digital audiometer based on DSP processing. This audiometer is designed for quick and easy audiometric exploration of hearing thresholds and screening tests, such as suprathreshold pure tone tests (FOWLER-ABLB, TONE DECAY, WEBER, LOSCHER, ...).
- **Air conduction** (tdh 39): 125 - 8,000 Hz / HF: 8,000 - 20,000 Hz
- **Levels:** AC (-10 to 120 dB HL) / BC (-10 to 70 dB HL) / speech (-10 to100 dB HL) free field (-10 to 80 dB HL)
- **Masking levels** (manual or synchronized): NBN AC (-10 to 100 dB HL), nbn bc (-10 to 70 dB HL) white & speech (-10 to 100 dB SPL)
- **Tone:** continous, pulse, anternate, amplitude modulation.
- **Level increases:** 1 (A-AOM) - 5 (SUPRA)
- **Frequency precision:** ±1%/ level precision ±2% db SPL
- **Automatic calculation of hearing loss and diagnosis** (council, im, ss mexico, eli, sal, klockhoff, moh, others ...)
- Direct USB & RS-232 **connection to PC to W50 audiometry**
Software and export to other management systems (EMR) direct USB & parallel **connection to printer** (HP PCL)

SIBELSOUND 400 FEATURES

	A	AOM	SUPRA
Bone conduction module		•	•
Masking by narrow band noise & white noise		•	•
Sisi test			•
Supraliminar tests			•
Speechaudiometry + Intercom module			•
Musical frequencies			•
Data base 1000 tests		•	•
W50 audiometry software			•

CLINICAL DIGITAL 2 CHANNELS PC AUDIOMETER

9.5x15.7x3 cm
260 g

TONAL-VOCAL AUDIOMETER

MASKING

SISI

ABLB

DECAY TEST

You can easily overlap an existing audiogram to a previously selected one from the relative list

• 33605 AUDIOLAB AUDIOMETER
All the technologies of a digital 2 channels clinical audiometer in only 250 g. You can perform audiometry test directly on your PC display, save on your database and print when necessary. PC not included. Made in Italy.

STANDARD ACCESSORIES

Head phone TDH 49	USB cable
Radio EAR B.71 bone vibrator	CD with software
Pat response	Operating manual

TECHNICAL SPECIFICATIONS

Clinical audiometer two channels (EN 60645-1)
Type 1 A-E (EN 60645-1 - EN 60645-2) - Type 2 A-E (ANSI S 3.6)
Number of channels: 2, identical and indipendent
Output   AC R - AC L - AC R+L - BC R-L - FF R - FF L - FF R+L
   Masking contralateral with AC, BC, FF
Pure tone freq. AC: 125 - 8.000 Hz, BC: 250 - 8.000 Hz, FF: 125 - 8.000 Hz
   Intensity range (1.000 Hz) - 10 + 120 dB Hl

Maximum output level

PURE TONE 1,000 Hz				
Transducer	TDH49	ER3A	B71	FF
Db HL	120	115	75	100
NBM	95	95	-	95

Speech Audiometry

Transducer	TDH49	ER3A	B71	FF
Db HL	100	100	-	100
NBM	95	95	-	95

Vocal material • List of the words installed into internal flash memory
   • CH1 - CH2 independent inputs, CD1, CD2 two separate
   VU-Meters,masking noise SM and WM.
Signal mode • Normal ON - Normal OFF • Continuos - pulsed
   • Warble - frequency modulated ± 5% rate 5 Hz
   • ABLB • SISI with increment 1-2-3-4-5 dB. • DECAY TEST • BEKESY
   • PAT RESPONSE • TALK - BACK • TALK - FORWARD
   • Digital output for control Peep-Show
Accuracy • Resolution 16 Bit   • Distorsion < 1%
   • Precision ± 50 ppm   • Ratio signal/noise > 100dB
   • Stability ± 100 ppm   • Power supply: USB port
PC system requirements Microsoft Windows XP, Vista   Made in Italy
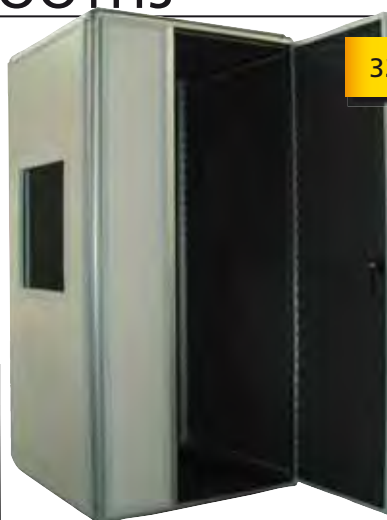
AUDIOMETRIC BOOTHS

28 dB

32 dB

45 dB

Internal poliuretan

33650 + 33651

• 33650 PRO 25 - 91X91X193 cm
• 33651 TABLE 79X50 cm
Portable, compact, model, easy to install in few minutes without screws.
Made in plastic laminate, with internal autoextinguishing, polyurethane, insulating panels.
Module for cable connection.

ACOUSTIC INSULATION							
Herz		125	250	500	1000	2000	4000
PRO 25	dB	18,0	16,0	26,7	30,8	28,8	30,9
PRO 30	dB	23,4	24,1	27,8	34,5	31,3	36,4
PRO 45	dB	20,0	33,5	36,3	42,5	42,1	50,4

• 33654 PRO 30 - 106X106X218 cm
• 33655 PRO 30 - 209X106X218 cm
• 33656 PRO 30 - 209X209X218 cm
• 33657 PRO 30 - size on request
available any size from 1x1 to 3x3
• 33651 TABLE 79X50 cm
Range with different sizes, with high noise reduction and internal ventilation system. Made in aluminium and laminate with internal fire-proof, polieuretan insulating panels. Available with 60 or 90 cm doors. Module for cable connection. Made in italy.

• 33660 PRO 45 - 216X216X220 cm
• 33661 PRO 45 - 318x216x220 cm
• 33662 PRO 45 - size on request
available any size from 1x1 to 6x6
• 33651 TABLE 79X50 cm
• 33652 RAMPS couple for disabled people
Top of the range, with vast selection of sizes, up to 6x6 m, with excellent noise reduction (-45 dB) and internal ventilation system. Made in aluminium and laminate with fire-proof polyurethane insulating panels. Available with large door 90 cm and module for cable connection. Made in italy

Cable connection module

TECHNICAL SPECIFICATIONS

	33650	33654	33655	33656	33660	33661
External size (cm):	91x91x193h	106x106x218h	209x106x218h	209x209x218h	216x216x220h	318x216x220h
Internal size (cm):	85x85x186h	94x94x202h	197x94x202h	197x197x202h	195x195x200h	297x195x200h
Door size cm:	55x168h	60x200h	90x200h	90x200h	85x186h	85x186h
opening:	Left/Right	Right*			Right*	
Windows size cm:	58,5x58,5	58,5x58,5			42,5x62,5	
material:	2 - crystal insulating safety glass				4 - crystal insulating safety glass	
Wall thickness cm:	5	7,5	7,5	7,5	11.6	11.6
Weight (kg):	150	230	364	540	850	1117
Ventilation:	no	yes	yes	yes	yes	yes
Tested noise reduction dB:	28	32	32	32	45	45
Internal illumination power V:	220	220	220	220	220	220
Norms:	Class Medical Devices European Directive 93/42 CEE					

*Left opening available on request

STANDARD ACCESSORIES
- Module for silent audiometer cable connection
- Internal illumination
- Ventilation system (PRO 30, PRO 45 only)
- Wooden box for transport
- Manual: English, Italian

PEAK FLOW METERS: DIGITAL AND MECHANICAL

CE 0086

Multilanguage manual

FDA Approved

CE 0473

Calibrated and graduated scale from 60 to 800 l/min BTPS Comply with EU/ATS

33431

Plastic mouthpiece suitable both for adults and children

- **33435 PIKO-1 - digital peak flow meter**
- **33444 PIKO-6 - digital peak flow meter**
- **33436 PC DOWNLOAD DEVICE + software**
- **33437 MOUTHPIECES - box of 10 pcs**

PiKo-1™ is the world's first pocket sized electronic peak flow and **FEV$_1$** meter.
The new PIKO-6™ in addition to FEV$_1$, measures **FEV$_6$ and FEV$_1$/ FEV$_6$**. Sophisticated features include automatic test quality alerts and electronic data storage of 96 tests. Data can be reviewed via a single operating button, eliminating the errors associated with paper diaries. Prices compare to mechanical peak flow meters.
PiKoNET software. All tests can be easily downloaded for tracking and trending. Results can be saved in pdf format.

TECHNICAL SPECIFICATION	
PEF:	Range 15 - 999 L/min (1 L/min resolution)
FEV$_1$ FEV$_6$:	Range 0.15 - 9.99 Litre(0.01 Litre resolution)
Accuracy:	PEF: ±5% or 20 L/min (whichever is greater)
	FEV$_1$: ±3.5% or 0.1 Litre (whichever is greater)
	FEV$_6$: ±4% or 0.1 Litre (whichever is greater)
Sensor:	Pressure/flow sensor technology (patented)
Non-volatile Memory:	96 patient test scores
Colour zone:	3 colour zone (green, yellow, red)
Reference values:	User settable
Quality factor:	Warning & indicator for cough or abnormal blow
Communication:	Bi-directional IR port (RS232 format)
Dimensions-Weight:	75x35x20 mm - 35 g
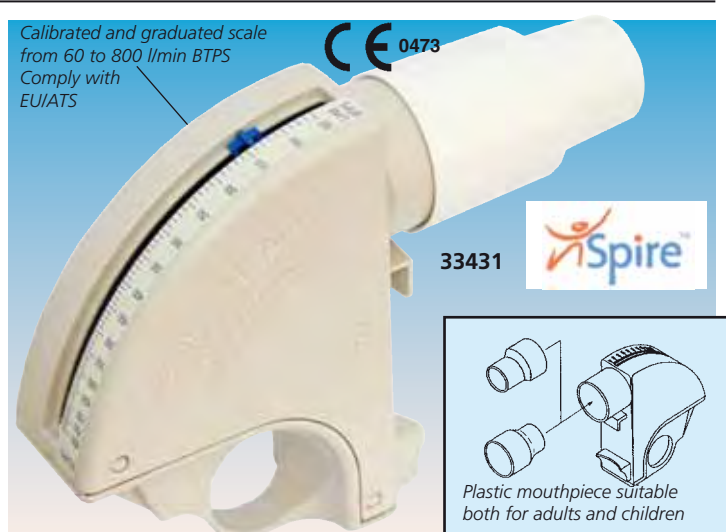
- **33431 POCKET PEAK - standard 60-800 l/min - cream**
- **33433 POCKET PEAK - low 50-400 l/min - yellow**

The Pocketpeak Peak Flow Meter is designed to provide simple and reliable home asthma management.
Lightweight and easy to use, it provides accurate and reliable measurements time and time again.
It is easy to clean and features a universal mouthpiece.
The EU/ATS Scale Pocket peaks will not only comply with the new European Standards but also with ATS (American Thoracic Society) Standards.
Standards range pocket peak will cover 60-800 litres/min, low range will cover 50/400 litres/min.
Package includes multilingual directions for use and peak flow diary, all packed in a cardboard box. Made in USA.
Size 86 x 81 x 30 mm.
Weight 45 g. Standards: EN 13826:2003
- **33432 UNIVERSAL MOUTHPIECES - re-usable**
In plastic, sterilizable, suitable both for adults and children.
- **33410 DISPOSABLE MOUTHPIECES - box of 500**

LUNG EXERCISE DEVICE

QM-System zertifiziert nach DIN EN ISO 9001 und EN 46 001

CE

33445

- **33445 TRI-BALL® - respiratory exerciser**
The respiratory-exerciser Tri-Ball® helps the patient to recover the normal respiration after a chest or abdominal surgery.
Visible incorporated label allows fast identification of the patient who owns the set.
Economical: as it is a small size product, it allows, without altering its function, to save maintenance and storage costs.
Hygienic: Differing from other respiratory exercisers, Tri-ball® incorporates a container to place the mouthpiece after being washed. This container has a lower aperture to drain the spared cleaning water drops. In this way we get a total protection of the mouthpiece after using the exerciser.
User manual in English, French, German, Italian, Spanish.

AEROSOL HOLDING CHAMBER

Designed to bring you the most effective drug delivery at the lowest cost of operation
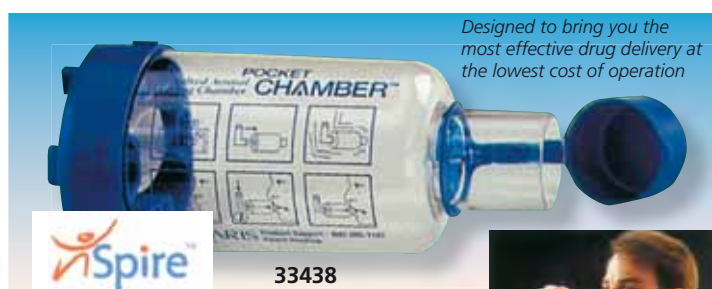
33438

- **33438 POCKET CHAMBER**
Now you can manage your asthma conveniently and effectively with a truly pocket-sized device, proven as effective as MDI chambers nearly twice its size.
The Pocket Chamber delivers a high concentration of respirable aerosol, to help provide relief from asthma symptoms while capturing large particles and reducing unwanted side-effects.
- Whistle alerts patients if inspiratory rate is exceeded
- Effective, affordable alternative to expensive aerosol delivery
- Flexible port accepts virtually any MDI's mouthpiece

TECHNICAL SPECIFICATION	
Size: 108 x 47.5 mm	Volume: 110 ml
Mouthpiece: 22mm OD	Weight: 33 g
Materials: All Latex Free Silicone	Warranty: One year
User Manual: in English, Spanish, French,	Made in USA
German, Italian, Dutch, Portuguese, Turkish and Greek.	

142

SPIROBANK II - PORTABLE SPIROMETER WITH SPO$_2$ OPTION

• **33511 SPIROBANK II + WINSPIROPRO SOFTWARE**
Spirometer with 6,000 spirometry test memory capacity,
with possibility to insert patient name, Bluetooth®
connection to HP printer
- Internal temperature sensor for automatic BTPS conversion
- High resolution/high visibility graphic display
- Patient identification by name or ID code
- Automatically records the best 3 trials
- USB cable, carryng case and software included
• **33513 SPIROBANK II + SOFTWARE + OXYMETER**
same as above with Oxymeter with 1,000 hours (40 days)
oximetry recording, for measuring and saving into PC of:
- Short or long term (overnight) SpO$_2$ and Pulse Rate measurements
- ODI, NOD, T90%, T89%; T88% and T87% calculation
- Sleep apnea detection with desaturation events recording
- Walk Test (6MWT) with SpO$_2$ and Pulse Rate analysis
- 24 hours holter test
- SpO$_2$ range: 0-99%, Pulse Rate range: 30-254 BPM
• **33525 ANTIBACTERIAL FILTER - box of 50 disposable**
• **33507 DISPOSABLE TURBINE - box of 100**

Winspiropro software functions:
- On-line PC connection with icon interface
- Real time Flow/Volume and Volume/time curves
- Bronchial challenge with FEV1 dose-response
- Paediatric incentive animations
- Integration with EPR systems
- Lung age estimation
- Data and graphs export also via E-mail

FDA Approved

PC connection Via USB or RS232

128x64 pixel display

Weight 180 g
Size 60x145x30 mm

CE 0476

33513

PC system requirements: Windows 2000, ME, XP, 98 (2nd edition), Vista

TECHNICAL SPECIFICATIONS

Measured parameters:
FVC, FEV1, FEV1/FVC%, FEV6, FEV1/FEV6%, FEV3,
FEV3/FVC%, PEF, FEF25%, FEF50%, FEF75%,
FEF25-75%, FET, Vext, FIVC, FIV1, FIV1/FIVC%, PIF,
*FVC, *FEV1, *PEF, VC, IVC, IC, ERV, FEV1/VC%, VT,
VE, Rvf, ti, te, ti/t-tot, VT/ti, MVV (* Best value}
No calibration required
PRE-POST bronchodilator comparison
Spirometry interpretation with test quality assurance

Flow sensor: bi-directional digital turbine
Flow range: ± 16 L/s
Volume accuracy: ± 3% or 50 mL
Flow accuracy: ± 5% or 200 mL/s
Dynamic resistance at 12 L/s: <0.5 cmH2O L/s
Connectivity and data transmission: USB,
Bluetooth®, wireless internal modem for acoustic
coupling to telephone (telemedicine applications),
Power Supply: 4 x 1.5 V, AAA battery

SPIROBANK WITH SOFTWARE

CE 0476

Size: 162x49x32 mm only 180 g including battery

ATS STANDARD

FDA Approved

Graphic display (128x48 pixels) with friendly icons

33510

• **33510 SPIROBANK**
Complete and rapid pocket spirometer for the General
Practitioner to carry out spirometry testing anywhere.
- Turbine sensor simple to clean.
No calibration required, can use disposable turbine.
- Measures the most important spirometric parameters
including **FVC, FEV1, FEV1%, PEF, FEF25-75, FET**
- Automatic interpretation with traffic light indication
- Best test selected and saved in memory
- Measured parameters compared to predicted values
- Provided with USB cable and simple software for data download
and printing only
- Selectable display language
(English, Spanish, French, German, Italian)
- SPIROBANK is suppied in a carrying bag with spare mouthpieces.
• **33410 MOUTHPIECES int. Ø 2.8 x ext. Ø 3, h 6.5 cm**
• **33507 DISPOSABLE TURBINE - box of 100**

TECHNICAL SPECIFICATION

Flow sensor: Turbine with infrared interruption
Power supply: 9V DC PP3 battery
Test duration: Maximum 60 s   Flow range: + 16 l/s
Flow accuracy: ± 5% or 200 ml/s whichever is greater
Max volume: 10 l - Volume accuracy: ± 3% or 50 ml whichever is greater
Made in Italy

SPIROBANK G WITH SOFTWARE

CE 0476

WITH BLUETOOTH

Graphic display (128x48 pixels) with user friendly icons

33518

• **33518 SPIROBANK G + WINSPIROPRO software**
- Stand alone spirometer with PC online operation
- 6000 spirometry in memory
- High legibility graphic display
- FVC, VC, IVC, MVV, PRE-POST BD
- Advanced spirometry test interpretation
- Lung age estimation
- Direct printer connection via Bluetooth® or USB
- Ready for **Telemedicine** applications
- Internal temperature sensor for automatic BTPS
- Upgradable internal software via internet
Standard package includes USB cable, carrying bag, noseclip,
battery and software.

FDA Approved

TECHNICAL SPECIFICATION

Measured parameters: FVC, FEV1, FEV1/FVC%, FEV3, FEV3/FVC%, FEV6, FEV1/FEV6%,
PEF, FEF25%, FEF50%, FEF75%, FEF25-75%, FET, Vext, Lung Age, FIVC, FIV1, FIV1/
FIVC%, PIF, VC, IVC, IC, ERV, FEV1/VC%, VT, VE, Rf, ti, te, ti/t-tot, VT/ti, MVV
Temperature sensor: semiconductor (0-45 °C)
Flow sensor: bi-directional digital turbine
Max volume: 10 l
Flow range: ± 16 l/s
Volume accuracy: ± 3% or 50 ml, whichever is greater
Flow accuracy: ± 5% or 200 ml/s, whichever is greater
Dynamic resistance at 12 l/s: <0.5 cm H2O/l/s
Power supply: 9V DC (PP3 battery)
Weight: 180 g (with battery)
Dimensions: 162x49x32 mm
Made in Italy
WinspiroPRO PC system requirements
- Microsoft Windows: Vista, 2000, XP, Me, 98 (2° Ed.)
- Screen resolution: 1024x768
- Hard disk space: 160 MB

SPIROLAB III - DIAGNOSTIC SPIROMETER WITH SPO$_2$ OPTION

CE 0476

LCD Colour display 240x320 pixel, size 90x120 mm

Printer

FDA Approved
ATS Certified
ERS Standard

33522

Only 1.9 kg for truly portability

Quality spirometry, precise measurement
The proven MIR digital turbine flow sensor requires
no calibration *and complies with ATS 24/26 waveforms.*
Certified by Dr. Crapo at LDS Hospital, Salt Lake City - Utah

Winspiropro software included

• **33521 SPIROLAB III - diagnostic spirometer with high resolution colour display, built-in printer and PC WINSPIROPRO software**
• **33522 SPIROLAB III same as 33521 with SpO$_2$ functions**
A really complete spirometry system:
- FVC, VC with breathing pattern plus MVV tests with real time curves
- Over 30 parameters with **automatic interpretation** and test quality control
- PRE/POST bronchial response protocol with F/V loop comparison
- Up to 8 blows on one screen
- Internal database for more than 6,000 complete tests
- Predicted values with several sets of authors
- Rechargeable battery plus mains power 100-240 V, 50-60 Hz
- User-friendly keyboard with dedicated function keys plus alphanumeric data entry
- Internal temperature sensor for automatic BTPS conversion

PEDIATRIC INCENTIVE SYSTEM
HIGH DEFINITION LCD
DATABASE FOR 6,000 TESTS
USB+BLUETOOTH

- Free upgradable internal software from web, maintaining previously stored data
- Selectable multilanguage internal software (English, Italian, French, German), possibility to download through internet Spanish, Portuguese, Turkish and other languages
Finger Oximeter (33522 only)
- Short or long term (overnight) SpO$_2$ and Pulse Rate measurements
- ODI, NOD, T90%, T89%, T88, T87%
- Sleep oximetry with desaturation events
- Oximetry during exercise test
• **33520 SPIROLAB II - with printer and software**
• **33519 SPIROLAB II - with printer software and 10 disposable turbine.** For use with disposable turbine only.
• **33410 ADULT MOUTHPIECES - Ø 3 cm ext - box of 500 pcs.**
• **33492 THERMAL PAPER - 112 mm x 25 m**
• **33515 SpO$_2$ PROBE - adult - spare**
• **33516 SpO$_2$ PROBE - paediatric**
• **33517 DISPOSABLE SpO$_2$ PROBE - neonatal - box of 10 pcs.**
• **33525 ANTIBACTERIAL FILTER - disposable - box of 50 pcs.**
• **33507 DISPOSABLE TURBINE - box of 100 pcs.**

STANDARD ACCESSORIES	
Carrying case	Software Winspiro PRO
Battery charger	USB port and cable
1 roll thermal paper	Nose clip

TECHNICAL SPECIFICATIONS 33521-33522
Flow/volume range: ± 16 L/s
Volume accuracy: ±3% or 50 ml
Flow accuracy: ±5% or 200 ml/s
Dynamic resistance: <0.8 cm H$_2$ O/l/s
Dimensions: 310 x 205 x 65 mm
Parameters: FVC, FEV1, FEV1/FVC%, FEV3, FEV3/FVC%, FEV6, FEV1/FEV6%, PEF, FEF25-75%, FEF25%, FEF50%, FEF75%, FET, Vext, *FVC, *FEV1, *PEF, PIF, FIVC, FIV1, FIV1/FIVC%, VC, IVC, ERV, IC, FEV/VC%, VT, VE, Rf, Ti, Te, Ti/T-tot, VT/Ti, MVV *: Best value
PC System requirements: Windows 2000, ME, XP, 98 (2° edition), Vista.
Made in Italy.

MINISPIR: PC SPIROMETER

• **33530 MINISPIR with software**
PC based USB Spirometer (PC not included). Plugs directly into the USB socket of your PC, no need of batteries or other connections.
Provided of internal temperature sensor for automatic BTPS conversion.
Measured parameters: FVC, FEV1, FEV1/FVC%, FEV3, FEV3/FVC%, FEV6, FEV1/FEV6%, PEF, FEF25%, FEF50%, FEF75%, FEF25-75%, FET, Vext, FIVC, FIV1, FIV1/F1VC%, PlF, *FVC, *FEV1, *PEF, VC, IVC, IC, ERV, FEV1/VC%, VT, VE, Rf, ti, te, ti/t-tot, VT/ti, MVV best values
WinspiroPRO PC software:
On line PC connection with simple to use icon-based interface.
Flow/Volume and volume/time curve shown in real time on PC.
Lung age estimation. PRE-POST bronchodilator comparison. Bronchial challenge test with FEV1dose response curve. Spirometry interpretation with test quality assurance. Includes a series of user-selectable and amusing paediatric incentive animations. Powerful database facilities. Printout with complete spirometry report. Data and graphs export also via e-mail.
• **33410 ADULT MOUTHPIECES - Ø 3 cm ext - box of 500 pcs.**

CE 0476

STANDARD ATS
FDA Approved

Supplied with USB cable, carrying case, winspiroPRO software

PC SYSTEM REQUIREMENTS
Microsoft Windows:
2000, ME, XP, 98 (2nd ed.) Vista
Screen resolution: 1024x768
Hard disk: 160 MB
USB socket available

TECHNICAL SPECIFICATIONS
Size: 52x128x26 mm
Weight: 70 g
Flow range: ± 16 l/s
Volume accuracy: ± 3% or 50 ml
Flow accuracy: ± 5% or 200 ml/s

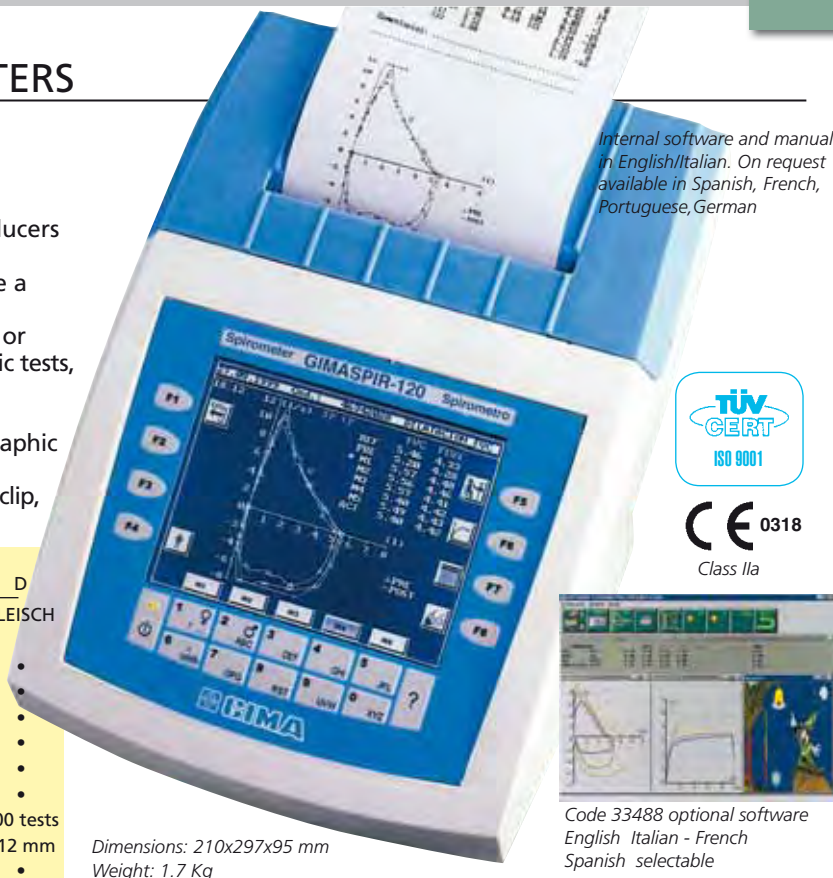*Made in Italy*

33530

GIMASPIR 120 - SPIROMETERS

- **33484 GIMASPIR 120A - Turbine type**
- **33485 GIMASPIR 120B - Turbine type**
- **33486 GIMASPIR 120C - Fleisch type**
- **33487 GIMASPIR 120D - Fleisch type**

GIMASPIR 120 spirometers have different types of transducers (Fleisch or Turbine), a wide liquid crystal back-lit screen and an internal or external printer. They can incorporate a module for pulse oximetry measurement (SpO$_2$).
Optional software allows connection to a computer in real or deferred time, in order to perform and store the spirometric tests, or to transfer information by other means.
All the system is controlled by a microprocessor for the acquisition, calculation and display of alphanumeric and graphic data. Gimaspir comes complete with transducer (Fleisch or Turbine type), 100 disposable mouthpieces, noseclip, 2 rolls of thermal paper, mains power supply, manual.

Internal software and manual in English/Italian. On request available in Spanish, French, Portuguese, German

Class IIa

TECHNICAL SPECIFICATION	GIMASPIR 120			
	A	B	C	D
Type of transducer	TURBINE	TURBINE	FLEISCH	FLEISCH
FVC, VC, MVV tests in PRE and POST bronchodilatation mode	•	•	•	•
Bronchoconstriction tests				•
Graphic superposition	•	•	•	•
Check-up programme	•	•	•	•
Graphic incentive for children		•	•	•
Configuration programme	•	•	•	•
Internal data base for graphics tests		150 tests	150 tests	500 tests
Internal printer	58 mm	112 mm	112 mm	112 mm
External printer connection	Option	Option	•	•
Data transfer via Internet with PC of:				
- Patients tests	•	•	•	•
- Check-up data	•	•	•	•
- Software upgrade	•	•	•	•
Tests exportation to other systems	•	•	•	-
Calibration for quality control or tests	•	•	•	•
SpO$_2$ module	Option	Option	Option	Option
Software under Windows to work with PC	Option	Option	Option	Option

Measuring range: Flow from 0 to ± 16 l/s; volume from 0 to 10 1
Flow-Volume accuracy: 5% or 200ml/s - 3% or 50 ml whichever greater (ATS, ERS)
Flow resistance: <0.06 kPa/l/s at 14 l/s (ATS, ERS)
Resistance at 14 l/s: Turbine ≤ 0.125 KPa/lls   Fleish ≤ 0.095 KPa/lls
Display: Liquid Crystal Display; 320x240 pixels, Area of 120x90 mm
Data input: Alphanumeric membrane keyboard
Maximum duration and number of manoeuvres: FVC, 25s (5 curves); VC, 45s (5 curves); MVV, 15s (5 curves)
Safety standards: IEC 601.1 (EN60601.1), UNE 20-613, IEC 601.1.1 (EN601.1.1)
Power supply: 200-240 V 50/60 Hz (other voltage on demand)
Power 25 VA (aprox.) Made in Europe

Dimensions: 210x297x95 mm
Weight: 1.7 Kg

Code 33488 optional software English Italian - French Spanish selectable

GIMA code	ACCESSORIES FOR SPIROMETERS	Compatibility of accessories Gimaspir 120			
		A	B	C	D
27139	Carrying Bag	•	•	•	•
33488	Software Gimaspir 120	•	•	•	•
33489	Turbine transducer - (2) - spare	•	•		
33490	Fleisch transducer - (1) - spare			•	•
33491	Thermal paper - 58 mm	•			
33492	Thermal paper - 112 mm		•	•	•
33506	Adult mouthpieces - Ø 28 ext x 65 mm	•	•	•	•
33494	Pediatric mouthpieces - Ø21ext x 70 mm	•	•	**	**
33495	Adaptor for pediatric mouthpiece			•	•
33496	SpO$_2$ pulse oximetry module*	•	•	•	•
33497	Bronchoconstriction tests*		•	•	•
33498	Int. database for 500 tests w. graphics*	•	•	•	•
33499	Pmax - Pmax module*	•	•	•	•
33500	Battery	•	•	•	•
33505	Calibration syringe 3 l	•	•	•	•

*If ordered separately, please indicate serial number of equipment, necessary to have access password   ** On request*

DISPOSABLE TURBINE FOR MIR SPIROMETERS

- **33507 DISPOSABLE TURBINE - box of 100**

For single patient use. Low cost and high accuracy. Individually packed to guarantee maximum hygiene.
Easy to replace, no calibration needed. Compatible with GIMa codes: 33510, 33511, 33518, 33521, 33522 and 33530.

MOUTHPIECES AND NOSECLIP FOR MOST SPIROMETERS

Paper mouthpieces (disposable) and plastic mouthpieces (re-usable) suitable for most brands of spirometers and peak flow, as Cosmed, Fukuda, Ferraris, Micromedical, Mir, Multispiro, Sibel, Vitalograph, ...

- **33501 BACTERIAL VIRAL FILTER FOR GIMASPIR - reusable**
- **33504 MEMBRANE FOR BACTERIAL FILTER - disposable - box of 50**
- **33474 NOSE CLIP**
- **33893 COSMED PONY PAPER - roll 57mm x 10m- box of 5 rolls**
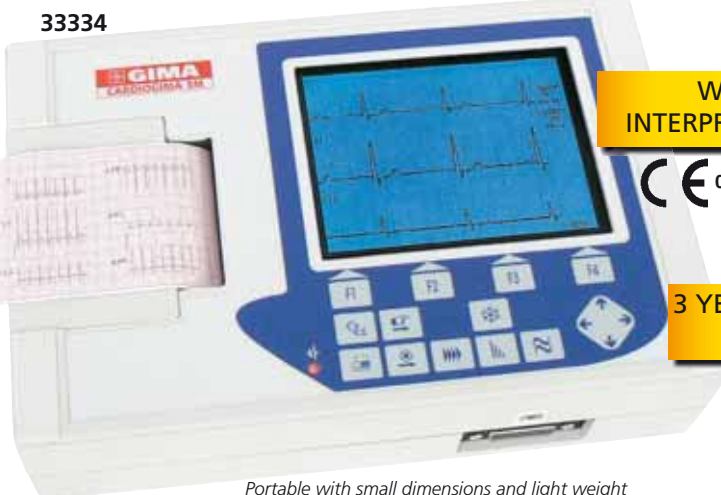- **33894 COSMED PONY FX PAPER - roll 112 mm x 13m- box of 5 rolls**

Up to 720 l/min
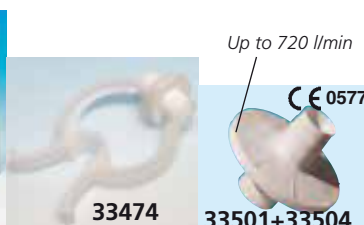
GIMA MOUTHPIECES				
GIMA code	Material	Sizes - cm Ø int x ext x h	To be used with codes	Compatible with
33410	paper	2.8x3x6.5 adult	33401/03/04/31/33/71, 33511/3, 33520/1 33530	Micromedical Vitalograph Mir
33411*	paper	2.0x2.2x6 paediatric	33401/3/4, 33511/3 33520/1	Micromedical Vitalograph Mir
33412	Plastic adapter		33411	-
33506	paper	2.6x2.8x6.5	33484, 33485, 33486 33487, 33480, 33510	Sibel
33494	paper	1.9x2.1x7	33486, 33487	Sibel
33890	paper	2.5x2.7x7	-	Fukuda
33892	paper	2.8x3.05x7	-	Cosmed (Pony model)
33432	plastic	1.7x2.1x5 2.7x3x5	33431, 33433	Ferraris

* Need adapter 33412

33474

33501+33504

145

3 AND 6-12 CHANNEL DIGITAL ECG WITH HIGH RESOLUTION MONITOR

33334

33350

WITH INTERPRETATION

CE 0068

3 YEARS WARRANTY
made in Italy

Portable with small dimensions and light weight
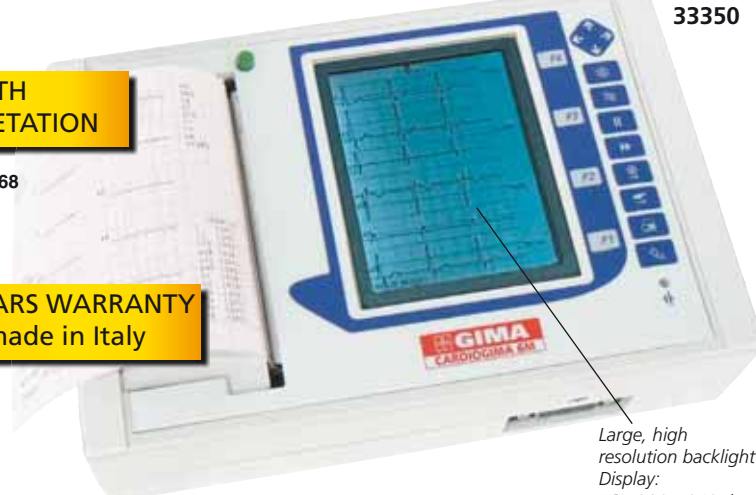
Large, high resolution backlight Display: LCD 320 x 240 dots.

• **33334 CARDIOGIMA 3M - 1-3 ch. with interpretation**
• **33350 CARDIOGIMA 6M - 3-6-12 ch. with interpretation**
(monitor 3-6 channels, printer 3-6-12 channels)
- LCD monitor in Standard or Cabrera format with base line setting
- High resolution thermal printer (8 dots/mm): hardcopy 1-3 or 3-6-12 channels real time with possibility to print a millimetric grid
- Manual or automatic recording
- Image freeze with memory scrolling for reviewing and hard copy of acquired signals (Memory 10 seconds for each lead)
- Digital filters for elimination of muscle tremors, power line and base line noises.
- Pacemaker detection
- Power supply by built-in high capacity Ni-Cd batteries and fast charging time

- Very simple operation by pre-defined fast keys and menus
- Based on a risk processor for a full digital signal processing
Made in Italy.

STANDARD ACCESSORIES 3M AND 6M	
Patient cable 4 limb electrodes Manual (English, Italian) Rapid guide: English, Spanish, Italian	6 chest limb electrodes 1 roll of paper 1 bottle of gel

GIMA code	CARDIOGIMA ACCESSORIES	Minimum order
27139	Transport bag (see at page 31)	-
33338	Thermal paper 58 mm x 25 m (Cardiogima 3M)	10 rolls
33352	Thermal paper 112mm x 23m (Cardiogima 6M)	10 rolls
33328	ECG cable - spare	-

TECHNICAL SPECIFICATIONS CARDIOGIMA 3M AND 6M	
Power supply: internal rechargeble ni-cd batteries Operating Voltage: 220V ±10%; 50 - 60Hz; 150mA (110V-60Hz on request) Battery autonomy: 2.5 hours Applied part: CF type Input impedance: > 100 Mohm Frequency response: 0.05: 145hz Cmrr: > 91 dB (3M) 100 dB (6M) Time constant: > 3.2 s Acquisition: 12 bit 800 samples/sec/channel-isochrome Leads: 12 standard or Cabrera	Sensitivity: 5mm/mV; 10mm/mV; 20mm/mV ±5% Scrolling speed: 5mm/s; 10mm/s; 25mm/s; 50mm/s Signal memory: 10s for each lead Printer: thermal printer 8 dots/mm, paper 58 mm (3M) 110 mm (6M). Filters: muscles tremors 35Hz digital; power line interferences 50-60Hz digital; high pass 0,5Hz digital Defibrillation protection: internal Display/Hardcopy: 1/3 channel (3M) 3/6/12 channel (6M) Dimensions: 240 x 160 x 65 mm. Weight: 1.5 kg. Made in Italy

CARDIOGIMA 1M - 1/3 CHANNEL ECG WITH PARAMETERS CALCULATION

CE 0068

33329

3 YEARS WARRANTY
made in Italy

• **33329 CARDIOGIMA 1 M - 1-3 channel ECG with monitor**
A real portable ECG with small dimension and light weight, with LCD monitor 128x64 pixel, high resolution thermal printer (8 dots /mm hardcopy, 1 channel real time) and parameters calculation. With manual or automatic recording, memory 10 seconds for each lead. Includes digital filters for elimination of muscles tremors, power line and base line noises. Based on a risk processor for a fully digital signal processing. Made in Italy.
• **33338 THERMAL PAPER 58 mm x 25 m**
• **33328 ECG CABLE - spare**

STANDARD ACCESSORIES	
Patient cable 1 bottle of gel Manual (English, Italian) Rapid guide: English, French, Spanish, Italian	1 roll of paper 4 limb electrodes 6 chest limb electrodes

TECHNICAL SPECIFICATIONS		

Power supply: internal rechargeble ni-cd batteries
Operating voltage: 220V ±10%; 50 - 60hz; 150mA
          max (110V - 60 Hz on request)
Battery autonomy: 3 hours
Applied part: CF type
Input impedance: > 100 Mohm
Frequency response: 0.05: 145hz
	Cmrr: > 100 dB time constant: > 3.2 s
	Acquisition: 12 bit 800 samples/sec/channel
	Leads: 12 standard or Cabrera
	Sensitivity: 5mm/mV; 10mm/mV; 20mm/mV ±5%
	Scrolling speed: 5mm/s; 10mm/s; 25mm/s; 50mm/s
	Signal memory: 10 sec for each lead
	Printer: thermal printer 8 dots/mm, paper 58 mm.
		Defibrillation protection: internal
		Filters: muscles tremors 35Hz digital;
		          power line interferences 50-60Hz digital;
		          high pass 0.5Hz digital
		Dimensions: 190 x 120 x 60 mm. Weight: 1 Kg.
		Conformity standards: 93/42/CEE; EN60601-1;
		EN60601-1-2; IEC601-2-25 Made in Italy

GIMA

SMART SINGLE AND THREE CHANNEL ECG

33330

33332 *Single and three channel with 12 channel display*

CE 0123

TUV ISO 9001

PORTABLE ECG - 1 and 3 channel
- Complete digital design
- Folding up LCD display waveforms, parameters configurable
- High resolution thermal printing
- Built-in rechargeable Li-ion battery, AC/DC supply
- Complete digital filter, avoid baseline drift, AC, EMG interfere
- Baseline automatic adjustable, optimize printing position
- Auto/manual operation selectable
- Lead-off detection and display

Three channel ECG also features
- 12 Lead simultaneous acquisition
- Automatic ECG parameters measurement and analysis
- Selectable printing format: Auto, manual, rhythm
- Support USB ink-jet printer for 12 leads printing

TECHNICAL SPECIFICATIONS

	33330	33332
Input Circuit:	floating input circuit, protection from defibrillation and pace maker	
Lead :	Standard 12 leads	
Acquisition mode:	Single	12 leads simultaneously
Time constant:	> 3.2 s	
Sensitivity:	2.5, 5, 10, 20, mm/mV	
Input impedance:	> 10 MΩ	> 50 MΩ
Anti baseline drift:	Automatic	
Filter:	EMG Filter 35 Hz (-3 dB)	EMG Filter 25Hz/35Hz/off
	AC/DFT Filter 50 Hz/60Hz	DFT Fliter 0.05/0.15
	(-20 dB)	/0.25/0.5Hz
	Low pass filter 150Hz/100Hz/75Hz	
	AC Filter 50 Hz/60Hz	
CMRR:	>90dB	>100dB
Recording mode:	Auto/Manual	Auto/Manual/Rhythm
Rhythm lead:	Any lead selectable	
Safety standard:	IEC I/CF	
Power supply:	AC: 100V-115 V/220V-240V, 50/60 Hz	
	Rechargeable Li-ion battery: voltage: switchable=14.4 V	
	More than 3 hours continuously operation under battery supply	
Recorder:	Thermal printer	
Record paper:	50mmx30m	80mmx20 m
Paper speed:	25mm/s, 50 mm/s (± 3%)	5mm/s, 10mm/s, 12.5mm/s, 25mm/s
Dimension:	288mmx210mmx70mm	
Weight:	2.3 kg (with battery)	2.5 kg (with battery)
Display:	192x64 pixel LCD	320x240 pixels LCD (Wide screen)
Display language selectable	Eng - Ita	Eng - Ita - Spa - Fra - Russian
Interface:	RS232	Ethernet, RS232, USB

GIMA code	SMART ECG AND ACCESSORIES
33330	Smart SE-1 Single Channel ECG
33332	Smart SE-3 Three Channel ECG - interpretative
33336	ECG-Viewer Software (English and Italian)
33801	Thermal paper - roll 50mm x 25m for 33330 and 33305
33802	Thermal paper - roll 80mm x 25m for 33332/3 and 33306
33328	ECG cable - spare
33318	Rechargeable Lithium battery 2200 mAH - spare

STANDARD ACCESSORIES
Patient cable	1 roll of paper
1 bottle of gel	4 limb electrodes
Manual: English, French, Spanish, Italian	6 chest limb electrodes
	Rechargeable battery

PALM ECG: CARDIO-A AND CARDIO-B - SINGLE CHANNEL

CE 1011

Backlight display

33261

4 MEASUREMENT MODES: PALM, LEG, CHEST, TRADITIONAL

PALM ECG are designed for general practitioners or for domestic use for users who may suffer of cardiovascular diseases such as hypertension, coronary heart diseases, giving them the possibility of a daily ECG.
Records can be saved and used as a reference for clinical applications.
4 measurement modes: on palm, on leg, on chest or lead wire traditional measurement.
Main features:
- small, portable and easy to use
- 30 second ECG waveform and measurement result
- 24 ECG waveform can be saved in memory
- Analysis and report of 8 types (CARDIO A) and 17 types (CARDIO B) of ECG waveform
- USB interface with option data cable and ECG viewer software
- Traditional measurement with optional ECG cable

GIMA code	PALM ECG AND ACCESSORIES
33260	CARDIO-A palm ECG
33261	CARDIO-B palm ECG
33265	ECG viewer software+USB cable - optional
33264	ECG lead cable - 3 leads - optional

33260

TECHNICAL SPECIFICATIONS

	CARDIO A	CARDIO B
ECG bandwidth:	1 Hz - 40 Hz	
Heart rate measuring range:	30 - 240 bpm ± 2 bpm	
LCD back light display:	128x64 dot matrix	240x160 dot matrix
Display size:	49x25 mm	57,6x40mm
Power:	2XAAA batteries	
Dimensions	115x58x18mm	125x70x21,5mm
Weight	65g	106g

PC-ECG WITH INTERPRETATION SOFTWARE AND USB PORT

• 33320 PC-ECG + ECG LAB SOFTWARE
Innovative PC-ECG device that can be connected to your PC via USB port. No power cable is required as it is powered through the USB PC cable. The unit is supplied with a 10 banana plug ECG cable (length 350 cm) and a powerful interpretation software (English, Italian, Spanish)
Main software features:
- 12 lead resting ECG with interpretation
- Vector cardiograph (VCG) with interpretation
- Electronic ruler to measure ECG waves
- 3D VCG animation to diagnose myocardial infarction and difficult arrhythmia
- Database serial comparisons make it possible to study the changes of the disease of the same patient. Can print reports in B/W or colour
- Software can be done in any language - minimum order 3 pieces.
• 33328 ECG CABLE - SPARE
• 33321 PC-ECG+CARDIOLOGY SOFTWARE
Same as code 33320 but with the following specialist functions:
Timed vector-cardiograph (TVCG), Frequency ECG (FCG, particular technique to detect ischemia and CAD), High Frequency ECG (HFECG), SAECG (VLP) analysis (Signal Averaged ECG or Ventricular Late Potentials, time domain and 3D frequency domain), QTD analysis (QT dispersion) with chroma map, Heart Rate Variability (HRV) (time domain, 3D frequency domain, Lorenz poincare plots), Pacemaker analysis, Heart rate Turbulence (HRT, or VE chaos).

FCG CAD gram to locate coronary artery disease and ischemia

3D-VCG tool to detect myocardia infarction

QT Dispersion QTD analysis with chroma map

Above 3 pictures refers to code 33321

C E 0197

Only 550 g

TECHNICAL SPECIFICATIONS		STANDARD ACCESSORIES
Communication port:	USB	4 limb electrodes
Size:	196x143x30 mm - 550 g	6 chest electrodes
Power source:	5V DC (from PC USB port)	Patient cable 8 leads
Patient insulation:	4000 V AC	USB pen driver
Defibrillation protection:	built in box	CD software
PC minimum requirements:	Windows 2000, XP and Vista	Ground cable
	CPU ≥ 1 GHz - HD ≥ 40 G - RAM ≥ 256 M	Banana plug

CARDIO XP 12 CHANNEL ECG WIRELESS OPTION

• 33303 CARDIO XP 12 CHANNEL ECG
• 33302 WIRELESS MODULE
High quality
- optional wireless patient module offers full freedom
- one-touch operation for analysis, storage and printing in 5 second
- ECG signal acquisition and interpretation of up to 12 leads for both adult and pediatric patients
- configurable report option for cardiologist
- multilanguage internal software (Eng-Ger-Rus-Ita-Spa-Fra-Chi-Kor)
User friendly
- Z-fold printer in A4 size prevent rolled paper problem
- versatile LCD mount support for rotation, tilt and wall mount
- 7 inch colour touch screen TFT (800x480) LCD monitor
- portable, lightweight design with rechargeable Li-ion battery (300 events)
- SD Card and USB port
Easy and fast typewriting by external USB keyboard (optional)
• 33803 THERMAL PAPER - box of 10 packs
• 33304 LI-ION BATTERY - 111 V - 4400 mAh - optional
**(capacity 3 hours - 300 ECG, charging time 8 hours)**

Wireless max 10 open space

Optional wireless module

33303

TECHNICAL SPECIFICATIONS			
ECG Acquisition:	Up to 12 leads for both adult and pediatric patients	Sensitivity:	2.5, 5, 10, 20, auto(I~aVF: 10, V1~V6: 5) mm/mm
	Base line drift, artifact, AC, and low and high pass frequency filters	Printing speed:	12.5, 25, 50 mm/sec
ECG Memory and Transfer:	Storage memory for 120 ECGs, with easy transfer by LAN connection,	Patient data:	ID, name, age, birth, gender, height, weight, smoke, depart, race...
	SD card & USB memory	Basic measurement:	Heart rate, PR, QRS, QT/QTc, P-R-T axis
ECG Interpretation:	The cardiograph includes the 12-Lead algorhythm for interpretive	Battery Capacity (Li-Ion):	3 hour of normal use (approx. 300 ECG printouts) on 8 hours charge
	analysis of the amplitudes, durations and morphologies of ECG	ECG Storage:	Internal Storage for 120 ECGs built- in memory
	waveforms and associated rhythm for adult and pediatric patients		External Storage: SD Card or USB Memory
	This clinically proven interpretation program provides configurable	Time Constant:	3.2 sec
	levels of interpretive, reason and severity statements that	Input Impedance:	More than 10MΩ
	are printed on the ECG report	CMRR:	Greater than 100dB
User interface:	Touch screen (alphanumeric and symbol)	Line Power:	95 ~ 240 VAC, 50/60Hz, 60 VA max
	Rotary push-knob(POP-UP menu)	Dimensions:	299 x 298 x 123 mm (11.8 x 11.7 x 4.8 inch)
Display:	800 x 480 pixel resolution. 7" Color TFT wide display	Weight:	4.5 kg (9.9 lb)
	12 channels preview(3x4 or 6x2 channels)	Out Interface:	USB 1 : Host (Memory)
Filters:	AC(50/60 Hz, -20dB or better)		SD card slot : SD card (memory)
	Muscle(25~35Hz, -3dB or better)		USB 2 : Host (Keyboard, printer)
	Base line drift(0.1Hz, -3dB or better)		Serial port 1 / 2 : RS-232C (Patient Module, Spirometer, Wireless Pack)
	Low pass filter(off, 40Hz, 100Hz, 150Hz)		Ethernet : LAN (S/W Upgrade, Patient Information trans/receive)
Printer Resolution:	Thermal print head, Z-fold paper		VGA : External Monitor (Holter, Stress System)
	Report paper - width: A4(210mm) or Letter(8.5"),		
	length: A4(300mm) or Letter(11")		
	Resolution: 8dot/mm(0.125mm pitch)		
Report Formats:	3 channels + 1 Rhythm, 3 channels + 3 Rhythm, 6 channels +		
	1 Rhythm, 12 channels		
	Disclose (1 minute of continuous waveform data for 1 selected lead)		

STANDARD ACCESSORIES
1 PC software (English/Italian)	4 ECG clip-on electrodes
1 Patient cable - 10 leads	6 Chest electrodes,
1 Power cable	1 Paper pack
Manual English/Italian	
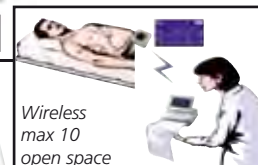
MULTI CHANNEL ECG WITH INTERPRETATION ON PAPER

CE 0123

FDA Approved

**ENHANCED MEMORY FUNCTION
SAVE UP TO 120 PATIENTS' DATA**

CE 0123

**SOFTWARE INCLUDED FOR
DATA STORAGE ON PC**

*Wide and clear colour
TFT LCD touch screen
monitor display 12 ch.
preview ECG wave*

33354

33355

33356

• **33354 CARDIOGIMA 12 ECG - 3-6-12 channel**
• **33355 CARDIOGIMA 12 M ECG - 3-6-12 channel with monitor**
We propose two models of 12 channel resting ECG recorder which
are the most economically priced without performance compromise.
The simultaneous record of 12 channels has a high diagnostic value
- all the 12 channels are illustrated at the same time. Their design is
maximized for the user's convenience (A4 size paper, one body type).
Main Features:
- 12 leads simultaneous l0-second resting ECG with interpretation in
only 60 seconds (33355 in **only 5 seconds)** multilanguage, internal
software+printing in English, Spanish, French, German, Russian,
Italian, Chinese and Turkish.
- Wide Paper Printing (A4 size thermal paper, fax paper is OK)
- Combined output of all relevant curves, patient data, date, time
and instrument settings
- Pacemaker and lead fault detect (only 33355)
- **PC Connections**
Connection to PC (PC interface with RS 232 port Via LAN-software
included) and submit already recorded ECG signal to other specialist
for evaluation (only a modem is needed)
- **ECG filing system "ECG Plus"**
A fully configured PC-based filing system enables to record ECG
signals, display them in real time, print and record them.
- **Rechargeable batteries available (optional)** with 1 hour capacity
in normal use (about 100 ECG printouts)

• **33356 SPIROMETER MODULE - for code 33355**
It transforms CARDIOGIMA 12M in a 2 in 1 system: ECG-SPIROMETER.
Spirometry measuring values:
FVC: FEV 1.0, FEV 1/FVC, FEV 0.2-1.2L, FIVC, FEV 25-75, FEV 75-85%,
PEF, FEF 200-1200 ml, FEF 25%, FEF 50%,
FEF 75%, FIF 50%, PIF, FET 100%, FIVC.
SVC: SVC, ERV, IRV, TV,EC, IC, BC
MVV: RR, TV, MVV
Pre and post bronchodilator comparison.
Presentation: flow volume loop, flow time plot, measurement
values table. Complies with ATS standard.
• **33362 DISPOSABLE MOUTHPIECES - box of 100 pcs.**

STANDARD ACCESSORIES

1 PC software (English/Italian)	1 ECG electrode cream (70 g)
1 LAN cable	1 Power cable
1 Patient cable - 10 leads	1 Recording paper rolls
4 ECG clip-on electrodes	1 Operation manual
6 Chest electrodes, suction for adult	(English/Italian)

GIMA code	CARDIOGIMA 12 AND 12M ACCESSORIES
29534	Rechargeable battery - for 33354/33355
33358	Thermal paper A4 - for 33355
33328	ECG cable for 33354-5
29519	Trolley for 33354-5

33355 + 29519

TECHNICAL SPECIFICATIONS 33354 - 33355

ECG Leads:	3-6-12 channel illustration of ECG signals in continuous recording or 10 sec. recording with interpretation.
Dimension:	296x305,5x92,5 mm Approx 3 kg
Recording channel:	3, 6, 12 channel and 1 channel (60 sec.)
	Sensitivity: 2,5 (only 33355) 5, 10, 20, auto (I~aVF: 10, W1~V6: 5) mm/mV
Printing speed:	12,5; 25; 50 mm/s
Filters:	AC (50/60 Hz, -20 dB or better) Muscle (25~35 Hz, -3 dB or better)
	Low pass filter (off, 40 Hz, 100 Hz, 150 Hz)
Display:	2x16 character LCD display (code 33354)
	480x272 colour TFT LCD display (3 and 12 channel preview) (code 33355)
LCD display:	Sensitivity, speed filter status, HR, Printing form, rythm lead
LED indicator:	signal quality, power source, battery
	Keyboard: Membrane keyboard, alphanumeric and symbol available
Patient data:	ID, name, age, sex, height, weight
Basic measurement:	Heart rate, PR, QRS, QT/QTc, P-R-T axis
	Recorder: Thermal print head, thermal paper roll
	Report papers: width: A4: 210 mm or 8.5",
	lenght A4: 3 00 mm or 11"
	Resolution: vertical: 8 dots/mm, horizontal: 16 dots/mm
Electrical:	Internal noise: 20μV (p-p) max
	Input circuit: floating input
	Isolated and defibrillation protected
	DC offset voltage: ≥ ± 500 mV
	Patient leakage current: < 10μA
	Frequency response 0,05~150 Hz
Power:	Power supply: AC or built-in battery (options)
	Power requirement: 100-240 Vac, 50/60 Hz, 1.0-0.5 A
	Power consumption: 60 W max
Battery capacity:	1 hour of normal use (approx. 100 automatic ECG printouts)
Communication:	PC Connection with RS-232 interface and lan
Safety:	Class I, Type BF
Conformity:	CE, CSA Made in Korea

ECG CABLE COMPATIBLE WITH MOST ECG BRANDS

• **33328 ECG cable - 10 leads**
compatible with the following ECG machines:
BIONET: Cardiocare, Cardiotouch
CARDIOLINE: E1, E1R, E3, Delta 300, Delta 360 C3.
CARDIETTE (Elettronica Trentina): Autoruler 12/1, Autoruler 12/3,
Excel 103, Excel 106, Astron Comp 1, Astron Comp 3, Astron Comp
6, Start 100 P, Start 100 H, Start 200, Start 200HV, AR600, AR 600
ADV, AR1200, AR1200, ADV.
CARDIORAPID CAMINA: K111, K112, K33, K36, K300 M, K300 P,
K600 P, K600 D, K130 B, K 130 D.

EDAN: Smart SE-1, SE-3
ESAOTE P80, P8000
GIMA: CARDIOGIMA 1M, 3M, 6M, 12, 12M
HP: Pagewriter 1513, 154B/C, 1514D, 1515A/B, 1517A.
KONTRON EKG P80
MACQUAIRE CT100, CT200.
NIHON - KOHDEN Cardiofax 651, 6581, 8110.
PROGETTI: all models
SHILLER AT/1, AT/2, AT/3, AT/4, AT/5, AT/6, AT/10, CS6, CS12, CS100,
CV6, P80.

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▪ CREAM, ELECTRODES AND ADAPTORS FOR MOST ECG

GIMA code	UNIVERSAL REUSABLE ECG ELECTRODES	Minimum order
33363	Set of 4 limb clamp electrodes (4 colours) pediatric	1 set
33364	Set of 4 limb clamp electrodes (4 colours) adult	1 set
33368	Set of 6 chest electrodes Ø 15 mm- silver coated	1 set
33365	Set of 6 chest electrodes Ø 24 mm- silver coated	1 set
33369	Set of 6 chest electrodes Ø 30 mm- silver coated	1 set
33323	Set of 6 chest electr. Ultra Ø 24 mm - silver coated	1 set
33324	Set of 6 chest electr. Ultra Ø 30 mm - silver coated	1 set

	UNIVERSAL DISPOSABLE ECG ELECTRODES AND ADAPTERS	
33325	Disposable FOAM electrodes Ø 43-45 mm	1,250 pcs.
33326	Disposable TNT electrodes Ø 43-45 mm	1,250 pcs.
33327	Disposable TNT electrodes Ø 55 mm	1,200 pcs.
33367	Adaptors to connect ECG cable to code 33325/6/7	10 pcs.
33378	3M RED DOT™ 2330 - 3.2 x 2.2 cm single use electrode with adhesive gel	100 pcs.
33341	Disposable pre-gelled tab electrodes 34x22 mm	100 pcs.
33375	Adaptor for ECG cables (pin)	10 pcs.
33376	Adaptors for ECG cables with 4 mm banana plug To be used with GIMAPLAY and CARDIOGIMA ECG	10 pcs.
33342	Universal adapter with 4 mm socket for snap and alligator connection	10 pcs.
33371	ECG cream - 250 ml	24 bottles

Conform to EN 60601-2-25

33364

33363

33323 and 33324 conform to EN 60601-2-25

33324 Ø 30 mm
33369 Ø 30 mm
33365 Ø 24 mm
33368 Ø 15 mm

33367

33371

33375

33325 **33326** **33327**

33342

33376

33341

33376+33378 3M

▪ GIMA ECG THERMAL PAPERS FOR DIFFERENT ECG BRANDS

ECG papers

GIMA code	ECG MANUFACTURER AND MODEL	Type	Width mm	Length	Sheet	Marker	Grid	Min. order
	BURDICK							
33799	Atria 3100/6100, quest	pack	210	300	200	yes	red	1
33800	Eclipse 400	pack	107	140	200	yes	pink	25
	BIONET							
33358	Cardiocare/Cardiotouch	roll	215	25	-	no	red	1
	CARDIOLINE							
33804	Elan 1100	pack	112	100	300	yes	red	25
33805	Delta 30	roll	183	30	-	no	red	5
33806	Delta 1 plus	pack	60	100	300	yes	red	25
33808	Delta 1 plus	roll	60	30		no	red	50
33807	Delta 3 plus	pack	112	100	300	yes	red	25
33809	Elan stress	pack	210	280	200	yes	pink	1
	EDAN							
33801	SE-1	roll	50	25	-	no	pink	60
33802	SE-3	roll	80	25	-	no	pink	30
	ELETTRONICA TRENTINA							
33811	Autoruler 12/1, comp. 1x12	roll	50	30	-	yes	blue	50
33812	Start 100	roll	130	27	-	yes	blue	10
33813	Ar1200	roll	120	18		yes	blue	35
	ESAOTE BIOMEDICA							
33815	P 80	roll	90	28	-	no	red	25
33816	P 80	pack	90	70	400	yes	red	25

GIMA code	ECG MANUFACTURER AND MODEL	Type	Width mm	Length	Sheet	Marker	Grid	Min. order
33861	P 80 Power	pack	210	280	215	yes	red	1
33818	P8000 Power	pack	80	70	300	yes	red	50
33819	Personal 120	pack	126	150	170	yes	-	20
	FUKUDA ME - FUKUDA DENSHI							
33820	Cardisuny 501 D/S/SA	roll	50	30	-	no	red	50
33821	FPC 15, 2201, OP 119 TE	roll	63	30	-	no	red	50
33822	OP 111 TE, OPI 115 TE	pack	50	75	400	yes	red	50
33823	OP 112 TE, OPI 122 TE	pack	63	75	400	yes	red	50
	GIMA							
33338	Cardiogima 3M, Gimaplay 1	roll	58	25	-	no	red	10
33352	Cardiogima 6M, Kenz 302	roll	112	23	-	-	red	10
	HELLIGUE - MARQUETTE							
33835	Microsmart	pack	90	90	390	yes	green	10
	HEWLETT PACKARD							
33840	Page Writer 100/200	pack	210	300	200	yes	red	1
33841	Monitor 40453 A	roll	50	30	-	no	red	50
	KENZ							
33805	301 - 303/601	roll	183	30	-	no	red	5
	MACQUARIE							
33347	CT 100/CT 200	roll	57	13	-	no	green	10
	MARQUETTE							
33845	MAC PC	roll	108	23	-	no	pink	30
33846	Case 10-12-15	pack	215	280	300	yes	red	1
	MORTARA							
33850	Eli 50	pack	50	70	200	yes	pink	50
33845	Eli 100	roll	108	23	-	no	pink	30
	NIHON KOHDEN							
33855	6101, 6151, 6501, 6511	pack	50	100	300	no	pink	10
	PHYSIO CONTROL							
33820	Life Pack 9-10	roll	50	30	-	no	red	5
	SCHILLER							
33860	AT 1	pack	90	90	390	yes	green	10
33861	AT 2	pack	210	280	215	yes	red	1
33862	AT 10	pack	210	140	235	yes	green	8
33818	AT 101	pack	80	70	300	yes	red	50
	SIEMENS							
33822	Cardiostat 1	pack	50	75	400	yes	red	24
33823	Cardiostat 11	pack	63	75	400	yes	red	30

150

GIMA

■ SONY PRINTER AND PAPER

• **33967 SONY PRINTER UP-897 MD - black/white**
Produces A6 size printings in about 2 seconds, with superb print quality with 325 dpi and grey level of 256 steps. 110-240 V AC, 50/60 Hz
• **33991 SONY COLOUR PRINTER UP-21 MD**
• **33992 SONY A4 COLOUR PRINTER UP-D77MD**
SONY PAPERS
• **72730 SONY PAPER - UPP-110 HD - box of 5 rolls**
High density printing paper - 110mm x20 m
• **72731 SONY PAPER - UPP-110 HG - box of 5 rolls**
High glossy printing paper- 110mm x18 m
• **72732 SONY PAPER UPP-110S - box of 5 rolls**
• **72733 SONY PAPER UPP-110HA - box of 5 rolls**
• **72735 SONY COLOUR PAPER UPC-21L**
(4 ink rolls + 200 supports 144x100 mm)
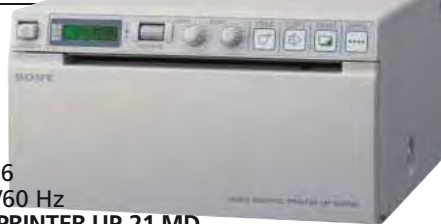
33967 *Size: 154x240xh 88 mm*

72731

SONY

■ GIMA VIDEOPRINTER PAPER

Videoprinter paper

COMPATIBLE WITH MOST VIDEOPRINTERS

72721

• **72721 VIDEOPRINTER PAPER - roll 110 mm x20 m**

GIMA VIDEOPRINTER PAPER-COMPATIBILITY LIST

List of compatible printers	Alternative to papers	Nr of prints
Mitsubishi electric P-60/61/65/66/67/90/91	K-61 B, K-65 HM	200
Sony UP-860-890/D860/D890/MD 897	UPP-110 S, UPP-110 HD, UPP-110 HA	80
Aloka	SSZ-300 S	100
Hellige SSZ-300	226 149 01	100
Helwett-Packard	77510 A	200

• **72740 MITSUBISHI PAPER LX65HM-CE**

■ COUPLING GEL FOR ULTRASOUND, EEG AND EMG

33373

COUPLING GEL this versatile product can be used with:
- **all ultrasound transducers,** to create a perfect contact between transducer and skin.
- **electrical devices** (dopplers, cardiotocographs, echoencephalography, miography, transcutaneous stimulation in physiotherapy, defibrillator and other electromedical devices) to increase electrical conductivity between electrodes and patient body.
Does not create dirt or cause irritation, soluble in water, easily removable by a towel.
Made in Italy.

CE

33370   **33372**   **33374**

GIMA code	GEL FOR ULTRASOUND, DOPPLER, EEG, EMG,...	Minimum order
33370	Gel for Ultrasound (tube 250 ml)	24 tubes
33372	Gel for Ultrasound (bottle1000 ml)	20 bottles
33373	Gel for Ultrasound (rigid tank of 5 Kg)	4 tanks
33374	Gel for Ultrasound (soft bag of 5 Kg)	4 bags

■ ALKALINE, LITHIUM AND ZINC-AIR "ACOUSTIC" BATTERIES

32202

32200   **32201**   **32203**   **32211**   **32221**   **32220**

FOR GENERAL USE APPLICATIONS   **FOR ELECTRONIC**   **FOR ACOUSTIC**

GIMA code	VARTA ALKALINE HIGH ENERGY BATTERIES	Type	Blister	Min. order
32200	Varta ministilo H.E. - alkaline	AAA	4 pcs.	10 blister
32201	Varta stilo H.E. - alkaline	AA	4 pcs.	20 blister
32203	Varta half torch H.E. - alkaline	C	2 pcs.	10 blister
32204	Varta torch H.E. - alkaline	D	2 pcs.	10 blister
32205	Varta 9V H.E. - alkaline	9V	1 pc.	10 blister

GIMA code	RAYOVAC ALKALINE BATTERIES - BULK	Type	Box	Min. order
32202	Rayovac Stilo - alkaline	AA	24 pcs.	2 boxes

GIMA code	VARTA LITHIUM BATTERIES - BUTTON	Blister	Min. order
32210	Varta 2016 - lithium button	1 pc.	10 blister
32211	Varta 2025 - lithium button	1 pc.	10 blister
32212	Varta 2032 - lithium button	1 pc.	10 blister

GIMA code	RAYOVAC ZINC-AIR "ACOUSTIC"BATTERIES	Blister	Min. order
32220	Rayovac 675 - zinc air - acoustic	6 pcs.	10 blister
32221	Rayovac 13 - zinc air - acoustic	6 pcs.	10 blister
32222	Rayovac 312 - zinc air - acoustic	6 pcs.	10 blister
32223	Rayovac 10 - zinc air - acoustic	6 pcs.	10 blister

■ RECHARGEABLE BATTERIES AND CHARGERS

GIMA code	VARTA POWER PLAY RECHARGEABLE BATTERIES	Type	Blister	Min. order
32235	Varta ministilo - 1000 mAh	AAA	2 pcs.	10 blister
32236	Varta stilo - 2500 mAh	AA	4 pcs.	20 blister

GIMA code	RECHARGING STATIONS	Power supply	Sizes mm	Weight g	To be used with:	Recharging time	Supplied with:	12V cde adaptor
32240	Easy Energy multicharger	230 V	180x240x110	1022	AAA, AA, C, 9 C	6-8 h	-	no
32248	Ultra fast Charger: recharge batteries from all major brands	110 - 240 V	181x265x70	336	AAA, AA	15 min	4AA	yes

32240

32248

STEREODOP - PROFESSIONAL VASCULAR SYSTEM

• 33235 STEREODOP with 2 pencil probes: 4 and 8 MHz
This is a continuous wave (CW) bidirectional stereo doppler with high resolution printer, large LCD display and rechargeable batteries that provide a doppler signal of high quality.
**Main features**
- **Real time high resolution thermal printer.** With 3 speeds: 5, 12.5, 25 mm/s, 384 dots on 58 mm thermal paper.
- **High resolution backlit LCD graphic display.** 320x240 dots, 1/4 VGA. Selectable zero line position. Inversion of graph and scale.
Mode selection: bidirectional or separate.
Display speeds: 5, 12.5, 25 mm/s. Double printer control.
- **Hi-Fi stereo audio amplifier.** Acoustic power: 5 + 5 watt.
Venous filter selection. Bandwidth: 20 Hz to 12 KHz.
Automatic gain control (AGC) and digital volume regulation.
- **Double footswitch:** for freezing (the right) and for printing (the left).
- **Microprocessor controlled system.** Memory of last 90 sec.
The post processing system allows the flow of graph to change the scale, the zero line positioning, the speed, to make the inversion, to select the mode and to insert or to include or exclude the following calculations: peak systole, end diastole, mean velocity, pulsatility index, resistivity index and heart rate.
• 33237 STEREODOP PROBE 4 MHz
• 33238 STEREODOP PROBE 8 MHz
• 33250 THERMAL PAPER 58 mm x 25 m (pack of 5 rolls)
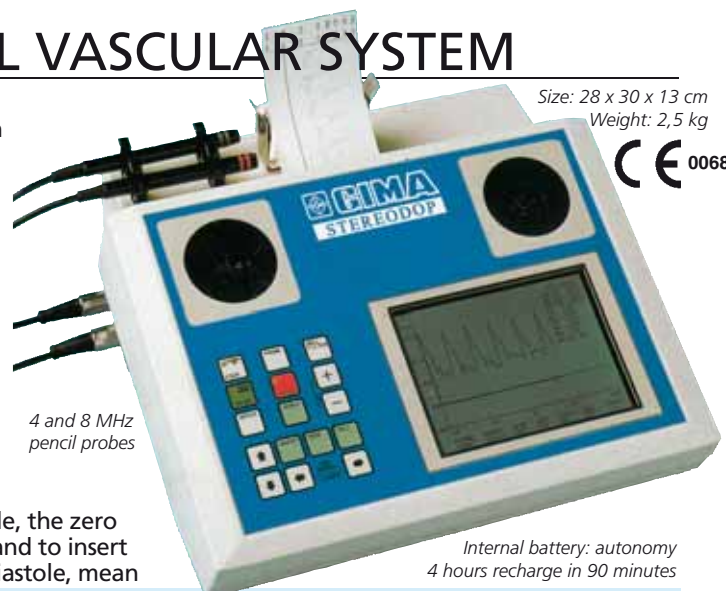
Size: 28 x 30 x 13 cm
Weight: 2,5 kg
0068

4 and 8 MHz pencil probes

Internal battery: autonomy 4 hours recharge in 90 minutes

STANDARD ACCESSORIES	
2 electronic pencil probes: 4 and 8 MHz.	Footswitch
Battery charge	Carrying case
Gel bottle 50 g Thermal paper roll 30 m	Manual (English, Italian, French)

GIMA PORTABLE, BIDIRECTIONAL, VASCULAR DOPPLER

• 33230 GIMA BIDIRECTIONAL DOPPLER NON STEREO with two probes: 4 and 8 MHz.
Continuous wave (CW) bidirectional doppler equipped with electronic probes for high sensitivity and low background noise.
- Bidirectional graphic separation of flow (forward and reverse)
- LCD graphic display for real time display of forward and reverse flow in bidirectional or separate mode
- Selectable amplitude scale: 1, 2, 4, 8 kHz. during the test and before printing. Preset zero line.
- 5 minutes (300 sec.) continuous and reviewable memorized test. Operator can select the most meaningful exam and print it.
- Calculation of: heart rate, peak flow and mean flow.
- Simultaneous connection of high sensitivity probes
- Internal rechargeable large capacity battery (Ni-Cd 1.8 Ah); the system can be operated during charging. Autonomy 8 hours use or 1 hour print.
- Footswitch for freezing or memorizing the graphs
- Hardcopy may or may not include the parameter calculation
- Printing time scale: 25 mm/s.
- Hi-fi audio output for correct acoustic diagnosis

• 33240 GIMA BIDIRECTIONAL PROBE 4 MHz - spare for 33230
• 33241 GIMA BIDIRECTIONAL PROBE 8 MHz - spare for 33230
• 33250 THERMAL PAPER 58 mm x 25m (pack of 5 rolls)

High definition thermal printer: 192 dots

Light, only 1.8 kg, and compact (24 x 23 x 8 cm)

0068

33230

Probe selection

Main functions are available from footswitch or Key-pad

POCKET DOPPLER WITH INTERCHANGEABLE OR FIXED PROBES

Supplied in a nice bag with 7 languages user manual: English French German Italian Spanish, Greek, Portuguese and gel tube.

Lightweight only 350 g

0120

2 MHz   5 MHz   8 MHz

33123

33126   33127   33128

GIMA POCKET DOPPLERS
Small, lightweight, high sensitivity pocket Doppler. Its probes are ideal for use by a General Practitioner, vascular specialist for routine vascular examination in ER for vessel location, or by specialists in diabetes, urology and gynaecology. Vascular flow signals and FHR are easily located using the transducer while internal signal processing minimises noise artefacts. The flow signal is also available to the user via the built-in loudspeaker with output level controlled by rotary volume control.

TECHNICAL SPECIFICATIONS	
Ultrasound	**Output**
Frequency: 2, 5 or 8 MHz continuous wave	Headset: Audio output to optional
Transducer: 2 crystal narrow beam	headset (not included)
Output power: <15mW/cm² SATA	Material: ABS / Noryl
Audio Response: 300Hz - 4 KHz	Size: 150 mm by 75 mm
Unit Controls	Weight: 299 g (with transducer)
Keys: 1 Key (for unit on/off)	Classification: Class I Type B - IEC 60601-I
Controls: rotary volume	Warranty: 1 year - Made in UK
Indicators: Yellow battery low LED	
Power supply	
Battery 9V Alkaline (not included)	
Expected battery life: >9 hours	

TOP QUALITY: MADE IN UK

GIMA code	GIMA POCKET DOPPLERS
33120	DOPPLER V2005 with 5 MHz fixed vascular probe
33121	DOPPLER V2008 with 8 MHz fixed vascular probe
33123	DOPPLER V2000 (without probe)
33126	2 MHz interchangeable probe - foetal for V2000
33127	5 MHz interchangeable probe - vascular for V2000
33128	8 MHz interchangeable probe - vascular for V2000
29511	ON/OFF membrane switch spare for 33120/3

GIMA

DIGITAL ECOCOLOURDOPPLER+4D

Triplex mode carotid artery

Flat monitor

• **33980 ECOCOLOURDOPPLER - 17" flat monitor**
Supplied with 3 probe connectors, trolley, keyboard, without probes
Digital colour Doppler System with professional features:
Imaging mode:
- B (2D), B/B, B/M, M, 4B, Power Doppler, Pulse doppler, CFM
- Triplex (real time simultaneous 2D, doppler and colour)
- Duplex (real time simultaneous 2D and doppler)
- Trapezoidal imaging - **Harmonic,** optional 4D
Image processing technology:
- Full digital beam former - Auto doppler - Data edit:
frozen image can be optimized by changing gain,
STC, zoom, dynamic range, smooth, frame averaging,
base line...
Raw data image post-processing:
- Image edition can be done after patient leave
Software Package for most clinical applications
- For abdomen, OB/GYN, cardiac, vascular
- Intelligent zoom, real time, frozen zoom.
Fully PC-Based and Windows operating system
- Fast data processing
- Large image storage: HardDisk, USB, CD, 1394 Port
- Print directly to PC-printer and Video-printer
Wideband multifrequency probes
Continuously adjustable, 2-12 MHz
• **33981 ECOCOLOURDOPPLER + 4D**
Same as code 33980 but with 4D real time imaging
composed of 3D pictures with the addition of live motion.
• **33989 MITSUBISHI CP30W COLOUR VIDEO PRINTER 423 dpi**
• **33991 SONY UP-21 HD COLOUR PRINTER**

Tomography imaging (multi slice) function ensures more accurate diagnosis into each slice

Vibration and noise free, lightweight 4D probe

Separate keyboard

3 probe connectors

CHISON

TÜV ISO 9001

CE 0197

33989

GIMA code	PROBES		FREQUENCY (MHZ)		● Main application ○ Alternative application							
	Outlook	Scanning Method	Main freq.	4-Step Multi-frequency	ABDOMINAL	OB/GYN	UROLOGY	SMALL PARTS	BREAST	CARDIOLOGY	PROCTOLOGY	PEDIATRICS	VESSELS
33983		CONVEX	3.5	2.5/3.5/4.5/5.0	●	●			●	○		○	●
33984		LINEAR	7.5	5.0/6.0/7.5/1.0				●					
33985		MICRO-CONVEX (TRANSVAGINAL)	6.0	4.5/6.0/7.0/8.0		●						○	
33986		CARDIAC	5.5	2.0/2.5/3.0/3.5						●			
33987		PEDIATRIC	5.5	3.5/5.0/6.0/8.0								●	
33988		4D CONVEX		3.5/4.5/5.5/6.0									

M5 PORTABLE COLOURDOPPLER

MINDRAY ™

CE 0123

TÜV ISO 9001

• **33080 M5 COLOURDOPPLER**
• **33081 M5 VET-COLOURDOPPLER**
• **33082 TROLLEY**
The M5, weighing 6Kg, delivers large-scale functionality and
greater diagnostic confidence. Mindray is committed to best-
in-class image quality and easy optimization tools as good as a
much bigger system. The M5 integrates brilliant color imaging
capability with uncompromised 2D performance. The Multi-
beam Parallel imaging (MBP) increases temporal resolution
and real-time frame rate, while collecting useful information
to re-build high quality images. Image homogenization full
fills the whole field up to 30cm deep.
The M5 offers complete imaging modes: 2D, M, PW, HPRF, CW,
Color, Power and DirPower. Optional software modules (to be
ordered with M5): CW (continuous wave Doppler) for more
accurate cardiac diagnosis. Smart3D™ leads to vivid ultrasound
healthcare,
iScape View™
(panoramic
imaging) and
trapezoidal
imaging expands
to a wider field
of vision.

High resolution 15 - inch TFT monitor with wide view of angle

GIMA code	M5 PROBES AND SOFTWARE MODULES	Fig.
33085	Convex array 3C5$_s$	**2**
33086	Phased array 2P2$_s$	**7**
33087	Micro convex array 3C1$_s$	**5**
33088	Micro convex array 6C2$_s$	**5**
33089	Micro convex endocavitory 6CV1$_s$	**8**
33090	Linear array 7L4$_s$	**3**
33091	Linear array 10L4$_s$	**4**
33092	Linear array 7L6$_s$	**1**
33093	Biplanar 6LB7$_s$	**10**
33094	Endorectal array 6LE7$_s$	**9**
33095	Intraoperative T-shaped 7LT4$_s$	**6**
33096	CW continuous wave doppler	
33097	Smart 3D software	
33099	I-scape software	

1
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8 9 10
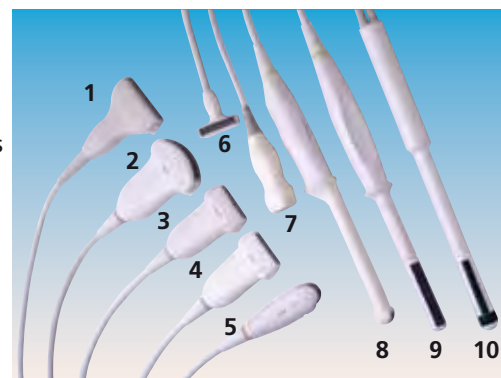
B/W DIGITAL ULTRASOUND SYSTEM

• **33910 ULTRASOUND 8500** - supplied with two probes connector, trolley, ergonomic keyboard, cine memory and 14" SVGA monitor, without probes.
- **Excellent image:** 14" SVGA monitor with scanning line by line, flashing free, 256 grey levels. **Harmonic** imaging.
- **Unlimited memory:** 128 frames allow you to choose the best image when you miss the right moment.
- **USB port** to import/export images to a PC
- **Zooming:** intelligent 4 steps
- **Digital multi frequency probes:** each probe has 4 steps of frequency, tailored to different patient's body types (2-10 MHz).
- **Image processing: Pre-processing:** IP selection, dynamic range, edge enhancement, smooth, frame averaging, scanning angle selection, line density selection. **Post-processing:** Ycorrection, gray transformation, gray rejection. **STC:** 8 slides for near, far and overall gain control.
- **Image reversing:** left/right, up/down, positive/negative
General measurements: B mode: distance, circumference, area, volume, ratio, angle, % stenosis, histogram, profile.
M mode: distance, time, velocity, heart rate.
EDD tables: BPD, GS, CRL, FL, HC, AC
(user-defined EDD tables are available)
• **33968 FOOTSWITCH**
• **33967 SONY PRINTER UP-897MD**

CHISON

DIGITAL TECHNOLOGY

General software package for ABDOMEN, OB/GIN, SMALL PART, UROLOGY, CARDIOLOGY. Special cardiology package (LV, mitral valve, CO, LVET...), Special fetal growth analysis software.

Multi-function knob for quick adjustment

CE 0197 TÜV ISO 9001

2 probes connectors

GIMA code	PROBES		FREQUENCY (MHZ)		● Main application ○ Alternative application								
	Outlook	Scanning Method	Main freq.	4-Step Multi-frequency	ABDOMINAL	OB/GYN	UROLOGY	SMALL PARTS	BREAST	CARDIOLOGY	PROCTOLOGY	PEDIATRICS	VESSELS
33914		CONVEX*	3.5	2.5/3.5/4.0/5.0	●	●							
33915		LINEAR	7.5	5.0/6.0/7.5/10.0			●	○			○		●
33916		MICRO-CONVEX (TRANSVAGINAL)	6.0	4.5/6.0/7.0/8.0	●						○		
33917		CARDIAC	3	2.0/3.0/3.5/4.5						●			
33918		TRANSRECTAL	7.5	5.0/6.0/7.5/9.0	●								

TECHNICAL SPECIFICATIONS
2 VGA output, 1 video output, footswitch part.
Display mode: B, B/B, B/M, M, 4B
Scanning technique: real time dynamic imaging (RDA, RDF, DFS, DRA)
Scanning depth: 240 mm max. (depending on probe type)
Probe frequency: 2-9 MHz
Power supply: 230V/50Hz (110V/60Hz on request)

* With 2nd harmonic imaging

B/W 2D AND 3D ULTRASOUND UNITS

CHISON

B/W images during 3D elaborations looks like in colours

TÜV ISO 9001

CE 0197

• **33970 ULTRASOUND 8800-2D** - supplied with three probes connector, trolley, ergonomic keyboard, cine memory and 14" SVGA monitor, without probes.
Same as code 33910 but with extra features:
- 128 frame cine memory, cine loop, picture-in-picture
- 80 G hard disk - 100,000 images capacity
- CD driver and floppy driver, USB port
- Intelligent zoom function (real time and frozen mode)
- LAN output for direct connection to PC
- Professional software package included
• **33971 ULTRASOUND 8800 - 3D - without probes**
Same as 33970 but with 3D free hand package
- Easy to use, live training material available
- Special sensor allows fast 3D scanning
- 3D package is built inside the 2D system and use 2D probes reducing hardware costs
- Foot switch included
• **33967 SONY PRINTER UP-897MD**

33967

33971

910x550x1310 mm 80 kg

Professional software package

GIMA code	PROBES		FREQUENCY (MHZ)		● Main application ○ Alternative application								
	Outlook	Scanning Method	Main freq.	4-Step Multi-frequency	ABDOMINAL	OB/GYN	UROLOGY	SMALL PARTS	BREAST	CARDIOLOGY	PROCTOLOGY	PEDIATRICS	VESSELS
33972		CONVEX WITH 3D SENSOR	3.5	2.5/3.5/4.5/5.0	●	●	●			○			
33973		CONVEX	3.5	2.5/3.5/4.5/5.0	●	●	●			○			
33974		LINEAR	7.5	6.0/6.5/7.5/9.0				●	○			○	●
33975		MICRO-CONVEX (TRANSVAGINAL)	6.0	4.5/5.0/6.0/7.0	●	○						○	○
33976		CARDIAC	3.0	2.0/3.0/4.0/4.5						●			

For codes, 33910, 33970/71, 33080/81, 33980/81 we can provide full training in our facilities or in your facilities (Europe only).

GIMA

ECG, MONITORS

DIGITAL PORTABLE ULTRASOUND

• **33900 DIGITAL PORTABLE ULTRASOUND 8300 supplied with 10" SVGA monitor and 2 probes connectors, CINE memory, 2 USB ports, software packages. Without probes.**
Professional portable ecograph with wide range of probes and high quality of images suitable in many specialistic fields.
Image:
- B, B/B, 4B, M, B/M
- Harmonic imaging
- 256 gray scales
- Scanning depth: max 240 mm (depending on probe)
Probes: supplied with 2 probe connectors
- Selection of 5 probes: Electronic Convex / Linear / Transvaginal / Transrectal / Cardiac
- Wideband multi-frequency 2-9 MHz
Image processing:
- Fully digital beamforming technology
- Real-time dynamic imaging: RDF, RDA, DFS, DRA
- Frame averaging: 8 steps
- Linear averaging: 8 steps
- 6 STC slides for near far and overall gain control
- Image reversing: left/right, up/down
- Zoom: intelligent zoom, 4 steps
Measurement and report
- B mode: Distance, circumference, area, volume,ratio, angle, %stenosis, histogram, profile
- Cardiology package: LV, mitral and aortic valve, CO, LVET, MVCF, SV, EF, cardiac index
- Software package: Abdomen, OB/GYN, Cardiac, Urology
- M mode: distance, time, velocity, heart rate
- EDD tables, gestational age: BPD, GS, CRL, FL, HC, AC
- Fetal weight, fetal heart measurement, growth analysis, LMP, BBT
Others
- CINE: 128 frames, play back selectable
- 10 inch, SVGA high resolution monitor
- image permanent storage: hard disk, USB (2 ports)
- can use PC printer (A4) or video printer
• **33901 TROLLEY:** Modern design, height adjustable trolley, provided of 4 wheels with brake.
• **33967 SONY PRINTER UP-897MD**

CE 0197 TÜV ISO 9001

230V-50Hz (110V-60Hz on request)

Two USB ports

Two probe connectors

Back-light keyboard for better visibility in dark room

2ND HARMONIC IMAGING
Transmitted frequency 3.5 MHz
Received frequency 7.0 MHz
Ignore fundamental signal from received signal
Internal organ or tissue
Only for code 33904

Optional printer

33900+33901+33967

Fully portable, ergonomic design
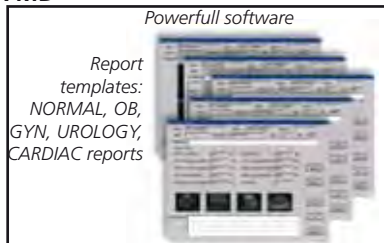
Powerfull software

Report templates: NORMAL, OB, GYN, UROLOGY, CARDIAC reports

GIMA code	PROBES		FREQUENCY (MHZ)		● Main application ○ Alternative application								
	Outlook	Scanning Method	Main freq.	4-Step Multi-frequency	ABDOMINAL	OB/GYN	UROLOGY	SMALL PARTS	BREAST	CARDIOLOGY	PROCTOLOGY	PEDIATRICS	VESSELS
33904		CONVEX	3.5	2.5/3.5/4.0/5.0	●	●							
33905		LINEAR	7.5	5.0/6.0/7.5/9.0				●	○			○	●
33906		MICRO-CONVEX (TRANSVAGINAL)	6.0	4.5/6.0/7.0/8.0	●	○						○	
33907		CARDIAC	3.0	2.0/3.0/3.5/4.5						●			
33908		TRANSRECTAL	7.5	5.0/6.0/7.5/9.0		●					●		

PORTABLE ULTRASOUND

Lightweight: only 7 Kg (size: 42x27x25 cm)

CE 0197 TÜV ISO 9001

33931

Two probes connector included with 33931

• **33931 PORTABLE ULTRASOUND 10" SVGA monitor with two probe connectors, 64 frames cine memory, without probes**
- Zooming and measurement functions
- Wide applications: GYN, urology, abdominal, small parts
- Easy to use, just one day to learn all functions
- 4-steps sweep speeds for cardiac study: 2s, 4s, 6s, 8s
- 4-steps zoom with depth control: x0.8, x1.0, x1.5, x2.0
- Various measurements: Distance, Circumference, Area, Volume
- Full Ob/Gyn software included: 7 EDD tables (BPD, GS, FL, AD, HC, AC, CRL), G.A. (fetal age) from 4-43 weeks
- Fetal weight, fetal heart rate measurement
- Imaging reversing: up/down, left/right, positive/negative
- Power supply: 230 V/50 Hz (110V/60 Hz on request)
• **33967 SONY PRINTER UP-897 MD**
You can use any other printer for ecograph on the market

GIMA code	PROBES		FREQUENCY (MHZ)		● Main application ○ Alternative application								
	Outlook	Scanning Method	Main freq.	4-Step Multi-frequency	ABDOMINAL	OB/GYN	UROLOGY	SMALL PARTS	BREAST	CARDIOLOGY	PROCTOLOGY	PEDIATRICS	VESSELS
33932		CONVEX	3.5	2.5/3.5/4.0/5.0	●	●	●						
33933		LINEAR	7.5	5.0/6.0/7.5/9.0				●	○				●
33934		MICRO-CONVEX (TRANSVAGINAL)	6.0	4.5/6.0/7.0/8.0	●	○							

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◼ DIRECT DIGITAL RADIOGRAPHY (DR) SYSTEM

DIRECT DIGITAL RADIOGRAPHY (DR) SYSTEM
DR ranks among the most significant steps forward in medical imaging since Röntgen's discovery of the X-ray in 1895. As technology and practice drive toward total film less solutions, DR is taking over from conventional X-ray and Computed Radiography (CR) wherever possible. The widespread adoption of DR systems has been limited only by its high cost, that is until now. We are delighted to introduce the new Naomi DR system.

UNIQUE COST-EFFECTIVE CCD TECHNOLOGY
The Naomi capture-plate incorporates 192 versatile CCD detectors to produce a high-quality image – 48 megapixel / 4096 grey-scale – at a break through and affordable price.

LOW COST OF OWNERSHIP AND OPERATION
By eliminating the use of film and processing of conventional X-ray, the Naomi system not only saves money on consumables but also minimises labour and maintenance costs. Added to the increased productivity of producing an image ready for reading in 30 seconds, the Naomi solution can pay for it self in a matter of months (depending on volume).

33011

The x-ray grid acts as a filter, effectively removing scattered radiation before it reaches the film.
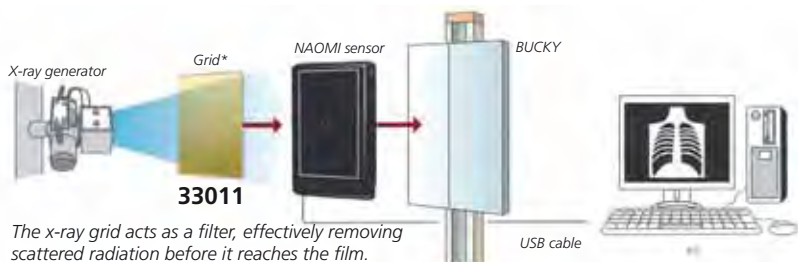
TOTAL INTEGRATION WITH YOUR EXISTING EQUIPMENT
Doctors can use their existing equipments and x-ray generators. NAOMI occupies a small space in a clinic. **Just replace the film cassette with the NAOMI capture-plate in the existing X-ray environment and connect to the PC through a USB cable. Now the X-ray system is digital!!**
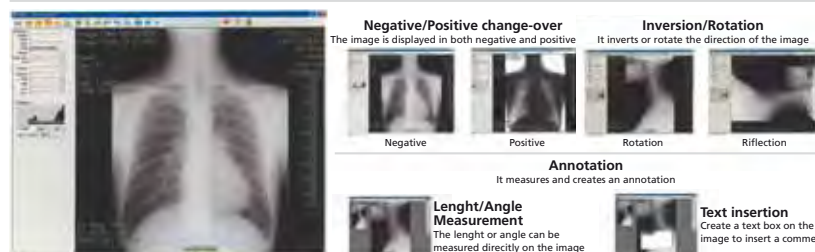
IMMEDIATE DIAGNOSIS
Doctors can immediately start diagnosis of the X-ray image for their patients right after the exposure. There is no waiting time for the processor to warm up or worrying about vestiges of the consumable materials. The short preparation time and immediate availability of X-ray examination are the main advantages for digital radiography.

DIGITAL IMAGE MANIPULATION AND MANAGEMENT
The NAOMI software (DICOM 3.0) provides easier digital image manipulation: from magnification of the area of interest, length and angle measurment, contrast adjustment, negative-positive inversion, horizontal/vertical rotation, and side-by-side image layout for comparison. It provides more information on a single image to support diagnosis from various angles.
DICOM software is included with NAOMI.

GIMA code	DR. NAOMI SYSTEM
33000	NAOMI SYSTEM 20x25 cm - with software
33001	NAOMI SYSTEM 27x35 cm - with software
33002	NAOMI SYSTEM 35x43 cm - with software
33007	Bracket for upright bucky stand
33008	Upright radiography stand - 60x200x80 cm
33009	Protective cover
33010	Acrylic table top cover - size on request
33011	Grid - ratio 10:1
33015	Monitor 20,1"- TFT - 2 mega pixel

Fits around the sensor to make the X-ray table flat

33009

33010

33007

Suitable to use NAOMI on any vertical stand

Fits on the X-ray table with the sliding tray for NAOMI

33008

TECHNICAL SPECIFICATIONS MONITOR 33015
LCD panel
Technology: 20.1 inch, monochrome, TFT
Display area: 16.06 (H) x12.04 (V) inch
Native Resolution: 1600 (H) x1200 (V) Pixel
Pixel pitch: 0.255 (H) x0.255 (V) mm
Contrast ratio: 1000:1 (Typ)
Maximum luminance: 700 cd/m²(Typ)
Viewing angle: 170°
Input signal: Input Sync signal: DVI
Physical specifications
Dimensions: 17.56 (W)x15.29-20.41 (H)x11.18 (D)inch (with the tilt stand) portrait:
14.17 (W)x18.27-22.11 (H)x11.18 (D)inch
Weight: approx. 16.72lb, w/o tilt stand
Stand: Pivot, Tilt, Swivel, Height Adjustment Slide
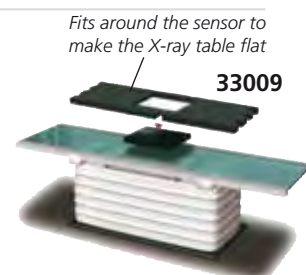Mount: VESA FDMI (100x100mm)
Other features: backlight life 50,000 hours (minimum)

33015

Max luminance: 700 cd/m²
Contrast ratio: 1000:1
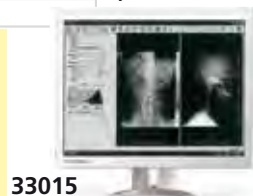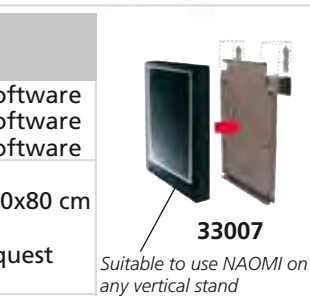
TECHNICAL SPECIFICATIONS NAOMI			
	33000	33001	33002
Active area (mm)	290x175	272x362	350x450
Size (mm)	320x305x60	444x494x62	474x589x62
Resolution	4608x3936	4608x5904	6144x7872
Resolution megapixel	18.14	27.20	48.37
Weight (kg)	5.2	5.4	8.8

33000

33001

33002

GIMA

MICRO INFUSION PUMP

CE 0120

• **35200 INFUSION PUMP IP-7700**
This pump using peristaltic method is a cutting-edge pump realizing high flow precision with compatibility with tubes of various pumps through ultrasonic bubble detection.
IP-7700 provides simple and easy setup process with its numerical silicon keypad. FND and color LCD provides complete information and user gets the information
at one glance. Most infusion condition such as K.V.O. rate, purge rate
and bolus can be setup as operating application. Supplied with battery.
Main features
- **Light and compact design:** light as 3.5 kg, compact design, and easy to use.
- **Compatible with 3 brands of IV SET:** TERUMO (TS PA 200L), BD (A122), KOREAN VACCINE.
- **Flexible flow setting and easy operation method:** Flow-setting range of 1~1000 ml/h, 0,1~999,9 ml/h is available for wide range settings and dial type is easy to use for setting flow-volume.
- **Full program dosage feature:** it can calculate the right flow rate for a patient and inject promptly.
- **Easy recognition of alarm:** it notifies errors and emergencies with LED light and buzzer, simultaneous visual and audio alarm system.
- **Notifying remaining battery:** battery LED is attached to notify charged battery showing remaining battery and when to recharge.
- **Keep Vein Open feature:** when reached preset value, it converts to low flow speed of 3ml/h (when IV set is 15, 19, 20 drops/ml) or 1ml/h (when IV set is 60 drops/ml) automatically to prevent flow route clog due to blood coagulation.
- **Ultrasonic air bubble detector**
• **35203 Ni-Cd BATTERY - spare**
• **26071 IV SET KOREAN VACCINE - box of 100**

IV clamp included

English and Italian manual

TECHNICAL SPECIFICATIONS

Flow volume setting range	**Rapid flow volume (Purge)**	**Power**
1~1000 ml/h (1 ml infusion interval)	1-1000 ml/h adjustable	AC 110V / 230V, 50/60Hz and DC9.6V
0.1~999.9 ml/h (0.1ml infusion interval)	**Bolus** 1~1000 ml/h adjustable	inner source adapter DC24V / 1A
Flow volume error margin ±5%	**Nurse call** DC24V, 0.5A	**Maximum power consumption** 15VA
Infusion limit volume range	**Alarm features**	**Electric protection levels**
1~9999 ml	Air in line, occlusion, flow error (free flow), door	Class II B, inner source device, CF type
Total estimated volume range	open, K.V.O. (Infusion completion), standby, low bat-	**Waterproof level** IPX2
1~9999 ml	tery, alarm, device malfunction (CPU error), empty	**Battery type** Ni-Cd
K.V.O rate(Vein maintaing function)	container (with optional drop sensor)	**Battery using time**
1 ml/h ~ 10 ml/h adjustable	**Special features**	4 hrs. (when infusing 125 ml/h)
Pump method Peristaltic method	Keypad lock, retain memory, remaining time, alarm	**Battery charging time** Minimum 6 hours.
Size (W xDx H) 100x190x250 mm	repeat, open system, K.V.O., purge, bolus, occ. level,	**Battery life** approx 6 months
Weight 3.5kg	history call-back.	

AUTO SYRINGE PUMP

IV clamp included

CE 0120

• **35205 SYRINGE PUMP SP-8800**
SP-8800 provides easy syringe installing through one-touch method
by slider hook, simple and easy setup process with its numerical
silicon keypad. Color LCD displays infusion information dramatically
shortcut key manages easy approach for frequent functions. K.V.O.
rate, purge rate, bolus and anti bolus can be setup as operating
application. Supplied with battery.
Flexible flow volume setting.
Full program dosage feature: it automatically calculates flow rate by
patient's weight, injection's mass and melting.
Keep Vein Open (K. V. O.) feature: When reached to the preset
value, it converts to low flow speed of 0.1ml/h automatically to
prevent flow route clog due to blood coagulation.
Compatibility with 5 major brands of syringes: Syringe brand setting feature
enables you 5 choose, from following syringe brands: BD, TERUMO, ARTSANA, PENTAFERTE, SUNGSHIM.
Alarm and notification feature: It notifies errors and emergencies with LED light and buzzer.
Simultaneous visual and audio alarm. Occlusion error range setting: You can set the pressure level of occlusion stage to High, Medium and Low by patient's age condition.
• **35210 Ni-MH BATTERY- spare**

English and Italian manual

TECHNICAL SPECIFICATIONS

Flow volume setting range	**Rapid flow volume(Purge)**	**Power**
Syringe 10ml : 0.1-300ml/h	0.1~1200 ml/h adjustable	AC 110V / 220V, 50/60Hz and DC9.6V
Syringe 20ml : 0.1-400ml/h	**Bolus:** 0.1~1200 ml/h	inner source adapter DC24V / 1A
Syringe 30ml : 0.1-500ml/h	0.1~1000 ml/h adjustable	**Maximum power consumption** 18VA
Syringe 50ml : 0.1-1200ml/h	**Nurse call** DC12V, 1A	**Electric protection levels**
Flow volume error margin ±3%	**Alarm features**	Class II B, inner source device, CF type
Infusion limit volume range	Occlusion, K.V.O. (infusion completion),	**Waterproof level** IPX2
0.1~999.9ml (0.1 ml infusion interval)	standby, near empty, low battery,	**Battery type** Ni-MH
Total estimated volume range	device malfunction (CPU error), clamp/	**Battery using time** 5 hours (at 5ml/h).
0.1~999.9ml (0.1ml infusion interval)	handle lever/slider disengaged, syringe	**Battery charging time** Minimum 6 hrs.
K.V.O rate(Vein maintaing function)	disengaged.	**Battery life** about 6 months.
1-10 ml/h adjustable	**Special features**	
Size (W xDx H) 220x130x108 mm	Keypad lock, shortcut key, retain me-	
Weight 2 kg	mory, remaining time, alarm repeat,	
	open system, K.V.O., purge, bolus, anti	
	bolus, occ. level, history call-back.	

Bed-rail hook

Ergonomic handle

Pacemaker detection inidicated on ECG dispay

COLOUR MULTIPARAMETER MONITORS

- **33718 GIMA BM3 MONITOR (7" - 800X480 - TFT display)**
- **33719 GIMA BM3 VET MONITOR - VETERINARY**

ECG+SpO$_2$+NIBP+RESP+TEMPERATURE

GIMA monitors are configured with
- Heart/pulse rate
- ST analysis, PVC count display
- 3 lead ECG (5 lead optional)
- Non-invasive blood pressure (NIBP)
- Nellcor Pulse oximetry (SpO2) - pitch tone
- Impedance respiration
- Temperature (sensor is optional)
- Pacemaker detection indicated on ECG dispay
- Battery and direct DC (18 VDC) input (not for recharge)
- Built-in printer (58 mm)
- 120 hours memory trend capacity
- Remote alarm function
- 20 alarm memory
- wired or wireless LAN and HL7
- Internal software selectable in English, Spanish, French, Italian, German.
- User manual: English (on request: Italian, Spanish, French, German).
- **33725 CART** Adjustable height, 2 basket included
See temperature sensors, cuffs, batteries and other accessories at page 160.

Angle of plate adjustable

Height of cart is adjustable

CE 0123   **33725**

Moving cart increase flexibility around the ward or department.

58 mm built-in printer for both real time and trend date (Speeds: 25-50 mm/sec)

Battery status indicator - operating time 2 h - charging time 4h

Printing sample

Easy mounting with bed-rail hook

Direct connection of external monitor

STANDARD ACCESSORIES	33718	33719
3 lead patient cable (ECG)	•	• vet
Disposable electrodes: 10 pcs	•	•
NIBP tubing - 3m	•	•
Reusable adult cuff 25-35 cm	•	
Reusable child cuff	•	
Set of 3 veterinary cuff		•
SpO2 sensor - reusable	•	• vet
SpO2 sensor extension cable 2 m	•	•
Thermal printer 58 mm	•	•
DC adaptor (18 VDC, 2.5A)	•	•
Battery	•	•
User manual: English, Italian	•	•

Display modes

ST analysis display mode

Large parameter display mode
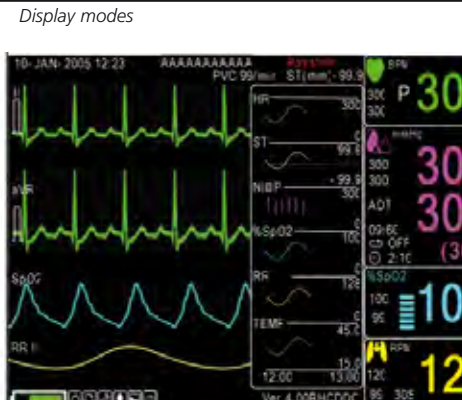
Trend display mode

PATIENT CENTRAL SYSTEM (up to 31 monitors)
It allows the user to monitor and extract the exact status of several patients simultaneously at a place. Convenient bidirectional comunication allows you to admit new patient information, set alarms at either central station or patient monitor.
- **33745 WIRE CENTRAL SYSTEM** (PC, monitor and software)
- **33746 WIRE CONNECTION KIT** One for any monitor to be connected.
- **33758 WIRELESS CENTRAL SYSTEM** (PC, monitor and software)
- **33759 WIRELESS CONNECTION KIT** One for any monitor to be connected.

33745

TECHNICAL SPECIFICATIONS

GENERAL
Display:	7" colour TFT (800x480)
Dimensions/Weight:	238x250xh 163 mm/3.1 kg
Indicators:	Up to 4 waves (2xECG, SpO$_2$, Respiration), categorized alarms (3 priority levels), external power LED, heart rate tone, battery status
Thermal printer:	25, 50 mm/sec (paper width 58 mm)
Battery:	internal battery: Li-ion operating time: 2 hours (fully charged)
Interfaces:	LAN digital output for transferring data DC input connector: 18 VDC, 2.5 A max
Operating voltage:	100-240 V, 50-60 Hz

ECG
Leads:	3 leads, 5 leads(OPTION)
Heart Rate Range:	30 to 300 bpm
Heart Rate Accuracy:	± 3 bpm
ST level:	yes
PVC Count display:	yes
Bandwidth:	0.5 Hz to 40Hz
Display Sweep Speeds:	25mm/sec
ECG Size (Sensitivity):	0.5, 1, 2, 4 mV/cm
Pacemaker Detection Mode:	Indicator on waveform display
CMRR:	>90 dB at 50 or 60Hz
Input Dynamic Range:	± 5 mVAC, ± 300 mVDC
Defibrillator Discharge:	<4 s
Arrhythmia analysis:	VTAC/VFIB/ ASYSTOLIC
Lead-Off Detection with display indicator	

SpO$_2$
% Saturation Range:	0% to 100%
Pulse Rate Range:	0 to 254 bpm
SpO2 Accuracy:	70% to 100% ±2 digits
Pulse Rate Accuracy:	± 2 bpm

NIBP
Technique:	Oscillometric
Measurement Modes:	Manual: Single measurement Auto: Automatic intervals of 1, 2, 3, 4, 5, 10, 15, 20, 30 min. and 1, 2, 4, 8 hours Stat: Continuous measurement for 5 minutes
Cuff pressure display:	50 to 300 mmHg
B.P. measurement range:	Systolic: 0 to 260 mmHg Mean Arterial Pressure: 30 to 220 mmHg Diastolic: 20 to 200 mmHg
Adjustable Cuff Inflation Pressure	

Respirations
Range:	5 to 120 breaths/min
Accuracy:	± 3 breaths/min

Temperature Unit
Range:	15° to 45°C (59°F to 113°F)
Accuracy:	± 0.1°C
Compatible with:	YSI Series 400 Temperature Probes

GIMA

BM5 MULTIPARAMETER MONITOR WITH EXTENDIBLE PARAMETERS

- **33777 GIMA BM5 MONITOR - 10.4" TFT display - 7 ch ECG**
- **33778 GIMA BM5 MONITOR - 10.4" TFT display - 12 ch ECG - from June 2009**
- **33779 GIMA BM5 VET MONITOR - 10.4" TFT display**
- High-performance ECG analysis
ST level PVC count display
13 kinds of Arrhythmia analysis
7 or 12 channels
- 10.4" colour TFT screen with 6 waveforms
- Visible alarm lamp handle
- SpO$_2$ technology with very low-perfusion detection
- SpO$_2$ pitch tone
- 58mm built-in chart recorder
- Graphical and tabular trends of printing
- LAN or wireless LAN
- 120 full hours trend data stored
- Direct DC input for vehicle transport
- Li-ion battery with long life time
- Connection to central monitoring system
- Selectable software language (English, French, Spanish, Italian, German).
Standard accessories as BM3 monitor - see page 158 but with 10 leads ECG cable (33778 only).

ECG+SPO$_2$+NIBP+RESP+ 2 TEMP, 2 IBP + optional ETCO$_2$ MODULE

12 Channel display

Visible alarm lamp handle

33777

Arrhytmia analysis: VTAG, VFIB, ASYSTOLIC Pacemaker detection indicated on the ECG waveform display

33790
Airway adapter set with dehumidification tubing for intubated adult

33792
CO$_2$ nasal cannula - adult

33794
CO$_2$+O$_2$ nasal cannula - adult

33791
Airway adapter set with dehumidification tubing for intubated Infants

33793
CO$_2$ nasal cannula - pediatric

33795
CO$_2$+O$_2$ nasal cannula - pediatric

GIMA code	TEMPERATURE, EtCO$_2$ AND IBP KIT
33740	Temperature sensor exacon 2.75 m - skin type
33741	Temperature rectal sensor
33796	EtCO$_2$ Sidestream module for 33777/8/9
33790	Intubated Filter Line H - adult - box of 10 for 33796
33791	Intubated Filter Line H - infant - box of 10 for 33796
33792	Non intubated CO$_2$ nasal cannula - adult - box of 10 for 33796
33793	Non intubated CO$_2$ nasal cannula - pediatric - box of 10 for 33796
33794	Non intubated CO$_2$+O$_2$ nasal cannula - adult - box of 10 for 33796
33795	Non intubated CO$_2$+O$_2$ nasal cannula - pediatric - box of 10 for 33796
33782	EtCO$_2$ module (need battery 33798) for 33780 only
33798	Li-ion battery 11.1 V for EtCO$_2$ module 33782 only
33787	IBP Kit - disposable - single
33788	IBP Kit - reusable (not autoclavable) - single
33789	IBP Kit - reusable (not autoclavable) - double

TECHNICAL SPECIFICATIONS FOR MONITOR 33777 - 33778 - 33779 - 33780 - 33781

GENERAL
Dimensions/Weight: 270x185xh 250 mm/4 kg
Trace: 6 waveform (ECGx2, SpO$_2$, RR or EtCO$_2$ IBPx2)
Indicators: categorized alarms (3 priority levels), visual alarm lamp handle, heart rate, SpO$_2$ pulse pitch tone, battery status, external power LED
Thermal printer: 25, 50 mm/sec (paper width 58 mm)
Battery: Li-ion (2 hours operating time)
Interfaces: LAN digital output for transferring date, Nurse call system connection, defibrillator sync. output
DC input connector: 12 to 18 VDC, 2.5A max
Operating voltage: 100-240 V, 50-60 Hz
SpO$_2$
% Saturation Range: 0% to 100%
Pulse Rate Range: 0 to 254 bpm
SpO2 Accuracy: 70% to 100% ±2 digits
Pulse Rate Accuracy: ± 2 bpm
ECG
Lead tipe: 3-lead, 5-lead (33777-33780), 10-lead(33779)
Lead selection: 3-lead: I, II, III (33777/79/80/81)
5-lead: I, II, III aVR, aVL, aVF, V (33780/1 only)
10-lead: I, II, III aVR, aVL, aVF, V1, V2, V3, V4, V5, V6 (33779 only)
ECG Waveforms: 3-lead 1 channel (33777/79/80/81 only)
5-lead: 3/7 channels (33777/79/80/81 only)

Hearth rate range: Adult: 30-300 bpm
Neonate/pediatric: 30-350 bpm
Hearth rate accuracy: ± 1 bpm or ± 1%, wichever is greater
Sweep speed: 6.25, 12.5, 25, 50 mm/sec.
Filter: Diagnostic mode: 0,67-150 Hz
Monitoring mode 0,67-40 Hz
Surgical mode: 5-25 Hz
S-T Segment detection range: - 2.0 to 2.0 mV
Arrhythmia analysis: Asystole, Vtach, Vfib, Bigeminy, Accvent Couplet, Irregular, Pause, Pvc, Ront, Trigeminy, Vbrady, Shortrun
Diagnostic analysis: 120 kinds (33779 only)
Pacemaker detection mode: Indicator on waveform display (user selectable)
Protecion: against electrosurgical interference and defibrillation
NIBP
Technique: Oscillometric with linear deflation
Measurement Modes: Manual-Automatic-Continuous
Measurement range: Adult pressure: 20 to 260 mmHg
Pediatric pressure: 20 to 230 mmHg
Neonate pressure: 20 to 120 mmHg
Cuff pressure display: 0 to 300 mmHg
B.P. measurement range: Systolic: 40 to 270 mmHg
Mean: 20 to 230 mmHg
Diastolic: 10 to 210 mmHg

10-lead: 3/12 channels (33779 only)
Adjustable Cuff Inflation Pressure
Respirations
Range: 5 to 120 breaths/min
Accuracy: ±1 breath/min
Apnea alarm: yes
Temperature Unit
Range: 15° to 45°C (59°F to 113°F)
Accuracy: ± 0.1°C
Compatible with: YSI Series 400 Temperature Probes
IBP
Channels: 2
Measuring range: -50 to 300 mmHg
Measuring accuracy: ± 1 mmHg (<100 mmHg)
± 1 % of reading(>100 mmHg)
Pulse rate counting range: 0 to 300 beats/min
Zero balancing: range ± 200 mmHg
accuracy ± 1 mmHg
drift ± 1 mmHg over 24 hours
Transducer sensitivity: 5µV/V mmHg
EtCO$_2$
Measurement mode: Microstream
Measurement range: 0~99 mmHg
Respiration range: 0~150 ppm
Accuracy: ± 2 mmHg,0~40 mmHg
± 5%, 41~76 mmHg
± 10%, 77~99 mmHg
Resolution: ± 1 breath per minute

ECG CABLES FOR MONITORS

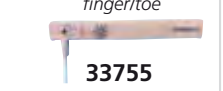| GIMA code	ACCESSORIES FOR CODES 33718, 33719, 33720, 33721, 33722, 33723, 33724, 33780, 33781
33711	3-lead patient cable kit (cable+snap connectors 33748)
33712	5-lead patient cable kit (cable+snap connectors 33749)
33726	3-lead patient cable kit (cable+snap connectors 33750)
33728	5-lead patient cable kit (cable+snap connectors 33751)
33727	3-lead veterinary cable kit (cable+3 clip connectors)
33713	3-lead veterinary cable kit (cable+3 clips connects)
33748	3-lead snap connectors for 33711 - spare - new
33749	5-lead snap connectors for 33712 - spare - new
33750	3-lead snap type connectors for 33726 - spare - old
33751	5-lead snap type connectors for 33728 - spare - old
33752	Vet 3-lead clip type connectors for 33726-7 - spare - old
33753	Vet 5-lead clip type connectors for 33728 - spare - old
33760	Vet 3-lead clip type connectors for 33713 - spare - new
33761	Vet 5-lead clip type connectors for 33712 - spare - new
33762	3-lead patient cable
33763	5-lead patient cable
	ECG CABLES FOR 33777, 33778, 33779
33764	3-lead patient cable kit (cable + snap connector)
33765	10-lead patient cable kit (cable + snap connector)
33766	3-lead veterinary cable kit (cable + clip connector)

ACCESSORIES FOR MONITOR BM3 and BM5

NEW (after 6/2006) — **OLD (before 6/2006)**

3 Lead
Vet cable kit **33713**
33711 cable kit
33760 Vet clip connect
33762 Cable
33748 Snap connect.

Vet cable kit **33727**
33726 cable kit
33752 Vet clip connect
33750 Snap connect.

5 Lead
33712 cable kit
33761 Vet clip connect
33763 Cable
33749 Snap connect.

33728 cable kit
33753 Vet clip connect
33751 Snap connector

BM3 & BM5 MONITOR ACCESSORIES

GIMA code		ACCESSORIES FOR BM3 AND BM5
33738	NIBP	Extension cable, 3 m (necessary for all cuffs)
33735		Adult cuff - 49x15 cm - need ext. cable 33738
33736		Child cuff - 35x11 cm - need ext. cable 33738
32848		Obese cuff 62x75.5 - need ext. cable 33738
33737		Kit of 3 neonatal cuffs - needs cable 33738
32810		Mini cuff 16x5 cm - needs 33738+33739
32811		Mini cuff 23x5 cm - needs 33738+33739
33739		Metal connector (necessary for mini cuff)
33740	Temp	Temperature sensor exacon 2.75 m, skin type
33741		Temperature rectal sensor
33743	Paper	Thermal paper 57.5 mm, 38 Ø
33742	Battery	Ni-MH 12V battery - up to january 2006** - BM3, BM3 Plus
33715		Ni-MH 12V battery - Since january 2006** - BM3, BM3 Plus
33717		Li-ion battery - Since sept. 2007** - new BM3, Plus, BM5
33798		Li-ion battery 11,1 V - 6 cell for EtCo$_2$ - for 33782 only
33747	Adapter	AC adapter
33744	Jack	Direct vehicle cigar jack (12 V dc)
		** Date is approximatively. Please select battery on the base of picture and specifications

33736
33735
33737
32810
32811
33738
33740
33741
33742
33715
33717

BM3 & BM5 SpO$_2$ SENSORS - NELLCOR COMPATIBLE

GIMA code		ACCESSORIES FOR BM3 AND BM5
33733	SpO$_2$	Extension cable*, 2 m (7 pin small SpO$_2$ connector) up to 2005
33734		Extension cable*, 2 m (6 pin SpO$_2$ connector) sold in 2005/6/7
33716		Extension cable*, 2 m (7 pin big SpO$_2$ connector) since 2007
33730		Adult reusable finger probe Nellcor comp.
33731		Pediatric reusable finger probe - Nellcor comp.
33732		Vet reusable probe - clip
33755		Disposable infant probe - under 3 kg - Nellcor comp.
33756		Disposable child probe - 3-15 kg - Nellcor comp.
33757		Disposable pediatric probe - 15-45 kg - Nellcor comp.
		* Necessary for all probes. Please select correct one
		** All probes are suitable also for OXY-9

33733
for unit sold before oct. 2005
33730
33732
finger/toe
finger/toe
hand/foot
33755
33756
33757
33716
33734
33733

SENSORS COMPATIBLE WITH BCI, NELLCOR, COMDEK

Sensor Picture	Socket Picture	GIMA code	Description	Recommended use	Patient range	Preferred application	Cable lenght	Min. order	To be used with GIMA codes	Compatible with
		34296	Infant probe	Disposable	under 3 kg	hand or foot	55 cm	box of 10 pcs.	34286, 34290, 34291,33702 (need extension cable 34299)	BCI - Comdek
		34297	Child probe	Disposable	3-15 kg	finger or toe	55 cm	box of 10 pcs.	34286, 34290, 34291, 33702 (need extension cable 34299)	BCI - Comdek
		34298	Pediatric probe	Disposable	15-45 kg	finger or toe	55 cm	box of 10 pcs.	34286, 34290, 34291, 33702 (need extension cable 34299)	BCI - Comdek
		34300	Adult probe	Disposable	over 40 kg	finger or toe	55 cm	box of 10 pcs.	34286, 34290, 34291, 33702 (need extension cable 34299)	BCI - Comdek
		34292	Adult probe	Reusable	over 40 kg	finger	145 cm	1 pc.	34286, 34290, 34291, 33702	Comdek
		34294	Child probe	Reusable	3-15 kg	toe	40 cm	1 pc.	34286, 34290, 34291, 33702 (need extension cable 34299)	BCI - Comdek
		34293	Adult probe	Reusable	over 40 kg	ear	120 cm	1 pc.	34286, 34290, 34291, 33702 (need extension cable 34299)	BCI - Comdek
		34299	Extention cable	Reusable	-	-	150 cm	1 pc.	34286, 34290, 34291, 33702 34293, 34294	BCI - Comdek
		34288	Extention cable	Reusable	-	-	150 cm	1 pc.		Nellcor - Bionics
		34283	Adult probe	Reusable	over 40 kg	finger		1 pc.	34281, 33290, 33291	Nellcor - Bionics
		33288	Adult probe	Reusable	over 40 kg	finger		1 pc.	33280, 33281	Bionics (BPM-300 only)
		33708	Vet probe	Reusable	VET	tongue	145 cm	1pc.	33703	BCI - Comdek

GIMA

HOSPITAL PULSE OXIMETERS

SpO₂

Time

Pulse

CE 0434

34290

With 24 hours memory

USB Output port for PC data download

34291

Weight: 240 g

24/36 HOURS MEMORY

BUILT-IN THERMAL PRINTER

100 RECORDS OF RECALL MEMORY

USB PORT

Code 34291 with built-in thermal printer allows immediate data printing. Moreover it provides 36 hours memory (with interval of 6 seconds) or 24 hours (with interval of 4 seconds) with possibility to recall up to 100 records (print out the last records up to 240 seconds). Tone function and adjustable volume. Safe, fast and convenient it becomes the essential and most important equipment in first aid, ICU and anesthesiology system.

- **34290 MD-600 PULSE OXIMETER with alarms**
- **34291 MD-630 PLUS PULSE OXIMETER**
          with alarms, printer and PC connection (USB)

Small, light-weight pulse oximeters with high accuracy and reliable performances:
- **adjustable SpO₂ and pulse alarm settings**
- quick assessment of oxygen saturation and pulse rate
- hand-held unit, easy to operate
- with SpO₂ and pulse rate display
- **34295 THERMAL PAPER - for code 34291**
- **33704 PC-SMART LINK SOFTWARE - for code 34291**

Easy analysis of patient data and statistics

33704

STANDARD ACCESSORIES (codes 34290-34291)
1 AC/DC Adaptor
4 AA Batteries - alkaline
1 Carrying bag
1 SpO₂ standard adult sensor
1 User manual (English, Italian, French, Spanish)

TECHNICAL SPECIFICATIONS (codes 34290-34291)
Oxygen saturation range: 0% to 100%
Pulse rate range: 30bpm to 250bpm
Display: oxygen saturation, pulse rate, a pulse search
          indicator, low battery indicator
SpO₂ accuracy: +/- 2% between 80% to 100%
              +/- 3% between 65% to 79%
              below 65% not specified
Pulse accuracy: +/- 1% of full scale
Range alarm setting: SpO₂ upper limit: 100%
                        SpO₂ lower limit: 50%
                        pulse rate upper limit 250 bpm
                        pulse rate lower limit 30 bpm
Power requirements: DC 6 volts by 4 alkaline AA size batteries
AC adapter output DC 6 Volts, 600 mA
Dimensions: 172x90x36 mm (34290) - 170x88x44 mm (34291)
Weight: 240 g - 300 g (34291) - without battery
Warranty: 1 year (SpO₂ sensor 6 months)

OXY-100 HAND-HELD PULSE OXIMETER

- **34342 OXY-100 PULSE OXIMETER**
Compact pulse oximeter for hospital and rescue applications to monitor SpO₂, pulse rate, and perfusion index(PI). SpO₂ can be displayed in numbers with bar-graph of pulse as well as full display of plethysmogam. Includes adult SpO₂ sensor and extension cable.
Features:
- High accuracy and repeatability.

- Visual and audible alarm, with adjustable limits.
- 70-hours data storage and review (with 1/2/4/8 sec.).
- Automatic power-off.
- **34344 SOFTWARE**
This software allows to download and store all measurements on a PC through USB port.
- **34345 ADULT SpO₂ PROBE - spare**
- **34347 PEDIATRIC SpO₂ PROBE**
- **34348 EXTENSION CABLE - for 34345-34347**

Battery status display

TECHNICAL SPECIFICATIONS
Oxygen saturation range: 0% to 99%
Pulse rate range: 30bpm to 240bpm
Perfusion index (PI) range: 0,2% to 25%
Display: oxygen saturation, pulse rate, pulse strength,
          low battery indicator, perfusion index
SpO₂ accuracy: +/- 2% between 99% to 75%
              +/- 3% between 75% to 50%
              below 50% not specified
Pulse accuracy: +/- 2% of full scale
Range alarm setting: SpO₂ upper limit: 90%
                    SpO₂ lower limit: 85%
                    pulse rate upper limit 120 bpm
                    pulse rate lower limit 50 bpm
Power requirements: 3 alkaline AA size batteries 3.6 V - 5.0 V
                    continuous working time >30 hours
Dimensions: 145x74x29 mm - Weight: 210 g
Warranty: 1 year (SpO₂ sensor 6 months)

LCD display, backlight

Output for USB

3 ways switchable display to show: numbers, number and waveform, waveform

Portable and lightweight

Size: 170x88x44 mm

72 hours memory with trend function

SPO₂ PLETHYSMO MONITOR

Long battery life: 4 hours (20 hours for full charging)

Auto gain control for fast response and accurate measurements

34281

Nellcor compatible output for SpO₂ probes

LCD display: 240 x 64 mm

Handle for transport

• **34281 BPM-200 PULSE OXIMETER**
with monitor, printer output and installed battery
The portable BPM-200 is an electronic pulse oximeter for measuring oxygen saturation of arterial blood and pulse rate of patient. Plethysmographic waveform display up to 12 hours of patient trends. Finger adult probe and battery are included.

• **34287 BATTERY FOR BPM-200**
• **34283 SpO₂ FINGER-PROBE - adult or child over 15 kg**

TECHNICAL SPECIFICATIONS	
Power supply: 100-240 V, 50/60 Hz	$C \epsilon$ 0123
Battery pack: lead acid battery pack (12 Volt)	
Range: saturation 35-100% ; pulse rate: 30-250 bpm	
Output for SpO₂ and pulse rate	
Size: 75 x 225 x 175 mm - 3.5 kg	
User manual (English, Italian)	Made in Korea

ETCO₂+SPO₂

PORTABLE OXI-CAPNOGRAPHY MONITOR
• **33702 OXY CAPNOGR. HUMAN**
• **33703 OXY CAPNOGR. VET**
Portable multifunctional Capnography monitor providing SpO₂, pulse, EtCO₂, Respiration with accuracy and reliable performance. Light and large LCD display providing graphical SpO₂, EtCO₂ and Trend function all in one design. Through optional software link to PC via USB. Supplied with adult sensor, AC adapter, sampling tube, airway adapter, filter cartridge, carrying bag, 4 AA rechargeable batteries.

• **33705 FILTER - box of 10**
• **33706 SAMPLING TUBE 1.2 m - box of 20**

• **33704 PC SMART LINK SOFTWARE - optional**
For analysis of patient data, statistics of SpO₂/Pulse/EtCO₂/Resp. distribution

$C \epsilon$ 0434

TECHNICAL SPECIFICATIONS		
	Range	**Accuracy**
SpO₂ Saturation :	0% to 100%	±2% between 80% to 100%
Pulse Rate :	30 bpm to 250 bpm	±1% of full scale
	Range	**Average**
EtCO2 :	0 mmHg to 100 mmHg	4 breaths of EtCO₂
Respiration:	0 l to 99 l	8 breaths of respiration rate
Memory: 72 hours		
Output interface: USB		
Default Alarm Settings:		
SpO₂ upper limit: 100%		SpO₂ lower limit: 50%
Pulse rate upper limit: 250 bpm		Pulse rate lower limit: 30 bpm
EtCO₂ upper limit: 100 mmHg		EtCO₂ lower limit: 0 mmHg
Resp upper limit: 99 bpm/min		Resp lower limit: 0 bpm/min
Power 4 AA rechargeable batteries 6 volts or AC/DC adapter		
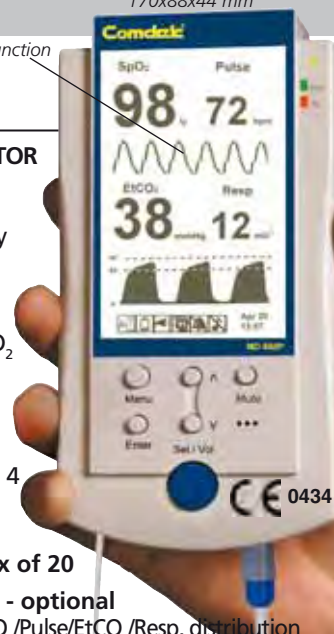
OXY-9 HANDY PULSE OXYMETER

• **34280 OXY-9 PULSE OXYMETER - human**
• **34267 OXY-9 PULSE OXYMETER - veterinary(*)**
Compact pulse-oxymeter with alarms and **rechargeable battery** easy to use and move
Since it is charged during operation, users can use it for a long time.
Alarm sound in case of exceeding setting limits.
- real time SpO₂% and Heart Rate (BPM)
- one touch operation and icons for easy operation
- max/min setup (SpO₂ /BPM)
- 3AA rechargeable battery for over 10 hours
Supplied with SpO₂ standard reusable sensor, extension cable, rail clamp, rechargeable battery and recharge transformer.
• **33730 ADULT REUSABLE FINGER PROBE - spare**
• **34268 RECHARGEABLE BATTERY**
• **34269 EXTENSION CABLE - spare**
Disposable probes 33755/6/7 available at page 160
• **33731 PEDIATRIC REUSABLE FINGER PROBE**
• **33732 VET REUSABLE PROBE - clip**

$C \epsilon$ 0123

Size: 65x133x30 mm

TECHNICAL SPECIFICATIONS	
Oxygen saturation range:	40% to 99%
Accuracy (%SpO₂):	± 2% between 100% to 80%
Pulse rate range:	30 bpm to 300 bpm
Accuracy (pulse):	± 1 bpm of full scale
Ac adaptor:	input 100-240V, 50-60 Hz, 1.2A output +12V, 3.5A
Battery:	3AA NiMH, rechargeable
Battery life:	approx 12 hours after 8 hours recharge

(*) Lingual type sensor used to "tongue". Sensor is suitable for medium size tongues (cat, dog, small horse...)

AMBU TRAINING MANIKINS

Jaw thrust possible

Adjustable stiffness of the chest

• **34040 AMBU® CPR PAL**
The Ambu CPR Pal is a low-priced, simple, yet effective, training manikin ideal for ACD CPR. The Ambu patented hygienic system protects the student and makes internal cleaning entirely unnecessary and the look-listen-feel concept aids knowledge retention.
The airways open when the head is correctly hyper-extended. Stomach inflation is indicated by a whistling sound. Jaw thrust possible.
Lightweight and sturdy, hence it can be easily transported.
It is supplied in a soft carrying bag with 5 mouth/nose pieces, 50 disposable head bags. Totale manikin length 73 cm, weight 2.7 kg
• **34041 HEAD BAG - box of 100 pcs**

• **34042 AMBU AIRWAY MAN**
The Ambu Airway Man is an adult-sized training manikin that provides an exceptionally lifelike representation of the human anatomy. **Mechanical instrument** gives you instant feedback on ventilation volume, stomach inflation, chest compression depth in mm and wrong hand position. Easy change of scale plates on the mechanical monitor instrument.
PC connection is possible, allowing connection of Ambu CPR Software Kit, Ambu CPR Printer or USB Interface.
Make intubation possible with ET tube, Guedel, Laryngeal Mask and combi-tube
Ambu Airway man includes torso with hooks for arms, computer interface, supplied in track suit jacket and training mat
• **34043 ARMS COMPLETE**
• **34046 LEGS WITH TROUSERS AND BAG**
• **34048 AMBU CPR SOFTWARE KIT (5 selectable languages)**

Size: 80x35 cm
Weight: 13 kg

GIMA

OXY-5 OXIMETER

2x1.5 V AAA size alkaline batteries
Allows 100 hours continuous working time

BACKLIT DISPLAY

C E 1011

Weight: 60 g including batteries

Size 6.6x3.6x3.3 cm

• **34282 OXY-5 FINGERTIP OXIMETER**
To monitor pulse oxygen saturation and pulse rate through patient's finger (adult/child over 5 years). Small, light, easy to use with one-key operation it is ideal in hospital, medical center, home.
- Lower voltage alarm display
- High accuracy and repetibility
- Automatic power-on and power-off in 8 seconds (if finger not in)
- SpO$_2$ and pulse monitoring, and histogram of pulse display.
- Audible and visible alarms
- P.I. perfusion index
- 8 language manual (English, French, Italian, German, Spanish, Greek, Portuguese, Arab)

TECHNICAL SPECIFICATIONS
Oxygen saturation range: 50% to 99%
Pulse rate range: 30 bpm to 240 bpm
LCD Display: oxygen saturation, pulse rate, low battery indicator
SpO$_2$ accuracy: ±2% between 75% to 99%
±3% between 50% to 75%
Pulse accuracy: ± 2 bpm
Class II, IEC 60601-I, 60601-1-2, ISO 9019

OXY-6 - WITH ALARMS

Perfusion Index , or PI, is a numerical value that indicates the Pulse Strength at the Sensor Site: - a value reflects Perfusion at the Sensor Site.
- a relative value that varies from patient to patient and monitoring site.

C E 1011

Size 6.6x3.6x3.3 cm

• **34285 OXY-6 COLOUR FINGERTIP OXIMETER - with alarms**
Similar to Oxy-5 but with improved features:
- colour high quality OLED display
- SpO$_2$, pulse rate and P.I. (perfusion index)
- histogram of pulse rate
- waveform of SpO$_2$ display
- audible and visual alarm (SpO$_2$ and pulse rate)
- display direction adjustable
- automatic power ON when finger is in, and power OFF in 8 seconds when finger is out.

TECHNICAL SPECIFICATIONS			
	RANGE	ACCURACY	RESOLUTION
Pulse rate:	30-240 bpm	± 2 bpm (2%)	1bpm
SpO2:	35%-99%	±2% (75-99%)	1%
		±3% (50-75%)	
Perfusion Index:	0-20%	±0.1% (0,2-2%)	0-1%
		±0.2% (2-10%)	
Alarm:	SpO$_2$: low limit 90%		
	Pulse rate: low: < 50 bpm - high > 120 bpm		
Power:	1.5V (AAA size) alkaline battery x 2		
Norms:	IEC 60601-1-2 Class II		

OXY-PED

PEDIATRIC

C E 1011

• **34266 OXY-PED PEDIATRIC OXYMETER**
Similar to Oxy-6 but expecially studied for pediatric use. Input shaped to fit children's fingers from the age of 2 years (finger Ø 8-16mm).
It is supplied with two rechargeable batteries and USB battery recharger. All other specifications are like OXY-6 model.

34266

• **34270 RECHARGEABLE BATTERY - spare**

TECHNICAL SPECIFICATIONS			
	RANGE	ACCURACY	RESOLUTION
Pulse rate:	30-240 bpm	± 2 bpm (2%)	1bpm
SpO2:	35%-99%	± 2% (75-99%)	1%
		± 3% (50-75%)	
Perfusion Index:	0-20%	± 0.1% (0-20%)	0-1%
		± 0.2% (20-25%)	
Alarm:	SpO$_2$: low limit 90%		
	Pulse rate: low: < 50 bpm - high > 120 bpm		
Power:	3.2V rechargeable batteries		
Norms:	IEC 60601-1-2 Class II		

PALM OXIMETER

Built in adult finger probe

C E 0434

Clear LED digital display

Size 6.2x9x2.2 cm

TOP ACCURACY

3 AAA battery

• **34289 PALM PULSE OXIMETER**
Accurate and precise palm-sized pulse oximeter to meet your needs.
Carried for spot-checking and short-term monitoring it presents an optimal performance with easy operation.
Fast: Catch SpO$_2$ & Pulse rate requires only 6 seconds. **Smart**: Audible sound assists users to detect patients' status
Accurate: Accuracy +/- 1% between 100% to 80%.

TECHNICAL SPECIFICATIONS
Oxygen saturation range: 0% to 100%
Pulse rate range: 30bpm to 250bpm
Display: oxygen saturation, pulse rate, low battery indicator
SpO$_2$ accuracy: +/- 1% between 80% to 100%
Pulse accuracy: +/- 1% of full scale

WRIST OXIMETER

C E 1011

CONTINUOUS LONG TERM MEASUREMENT

• **34340 WRIST PULSE OXIMETER - with software**
Small and lightweight wrist Oximeter available for home and clinical in **long-term** and comfortable monitoring.
It can be simply worn on the patient's wrist as a watch to start the monitoring, and can be used in sports to measure SpO$_2$ and pulse rate (PR).
- Audible and visual alarm with adjustable alarm limits
- trend review function of SpO$_2$ and PR
- selectable storage modes: 1 group/1s, 1 group/4s, and 1 group/8s
- Up to 70 hours storage for SpO$_2$ and PR data in default mode (1 group/8s)
- Clock setting and date display function
- Software to download and store all measurements on PC included.

MIR-OXI

C E 0476

Size 106x62x26 mm

Heart rate range 20-300 bpm SpO$_2$ 0-100%

1.000 HOURS MEMORY

• **33535 MIR-OXI - with software and alarms**
A real oximeter lab with unique functions:
- up to 1,000 hours recording (2 or 4 sec intervals).
- direct printer connection via Bluetooth®.
- test data archived recalled using patient name
- graphic display with userfriendly icons.
- internal memory, with back-up for up to 10 years.
- patient alarm for SpO$_2$ and BPM
Supplied with USB cable, carrying case, adult reusable probe, 4 AAA alkaline batteries and winspiroPRO software.
Software with 4 application modes:
- Sleep oximetry with desaturation analysis.
- 6 Minute Walk Test.
- short and long term recording.
- real time test on PC.
Made in Italy.

DUAL MODE DEFIBRILLATORS: AED+MANUALS

WITH SpO$_2$

AED + MANUAL

33571

33581

These two defibrillators
can be used both in automatic (AED) and manual modality.
Main features:
- Synchronized cardioversion
- ECG monitoring mode (3 lead ECG cable)
- SpO$_2$ monitoring with Nellcor SpO$_2$ module (only CU-ER3)
- Heart rate and SpO$_2$ alarm system (only CU-ER3)
- CPR coaching in AED
- Efficient e~cube biphasic truncated exponential shock waveform
- Versatile power supply
- Intelligent data management system
ECG of patient is recorded all throughout the rescue operation, relevant events (e.g. shock advised, charging, shock delivery) are recorded together with timestamp
Recorded data may be transferred to a PC for archiving and review or may be reviewed in the device
- Lightweight 2.7 kg (CU-ER2) 2.8 kg (CU-ER3) and highly portable.
Supplied with rechargeable battery, battery charger, adult pads with cable, SpO$_2$ module (CU-ER3 only), user manual and carrying bag.

Voice version and manual	English	Italian	Spanish	French	Portuguese	Other languages*
CU-ER 2	33570	33571	33572	33573	33574	33575
CU-ER 3	33580	33581	33582	33583	33584	33585
GIMA code	ACCESSORIES FOR CU-ER 2 AND CU-ER 3					
33565	Disposable pads - kit of 2 pcs				*German, Czech,	
33566	Pediatric disposable pads - kit of 2 pcs				Japanese, Thai,	
33567	ECG cable - 3 lead				Chinese, Dutch.	
33404	Communication connector + software** for event recording download with key file					
33568	Car cigar lighter jack					
33730	Nellcor compatible SpO$_2$ probe (only for CU-ER3)					
33563	Rechargeable battery**					
33564	Battery charger			**Need CU-ER 2/3 serial number		

TECHNICAL SPECIFICATIONS

- **ECG Monitor**
- Patient connection: defibrillation pads. ECG electrodes
- Bandwith: monitoring mode: 0.3 to 40Hz (-3dB)
- EMS mode : 1 - 30Hz
- Heart rate: digital 30 to 300 bpm (±3bpm)
- **Defibrillator**
AED + manual mode: variable energy level selection in 12 steps: 2,3,5,7,10,20,30,50,70,100,150,2005
- Waveform: e-cube biphasic (biphasic truncated exponential type)

- Charging time: less than 10 seconds
- Sensitivity & specificity: meets MMIguidelines
- Defibrillation electrodes: multifunctional electrodes (disposable. pre-gelled)
- **SpO$_2$ (CU-ER3 only)**
- Pulse rate: 20-250 bpm (±3bpm)
- Saturation: 70-110% (± 3 digits)
- **Voice & text prompts**
- Voice prompts guide the user through the rescue protocol
- All user interfaces are supported in local language
- **Data storage & management**

- Internal flash memory: 12 hours of event and ECG recording
- Review the patient ECG. incident details and device information
- Transmit multi patient data to PC
- **Display**
- Screen type: high resolution display (Graphic LCD)
- Screen size: 4 inches (10.16 cm) diagonal. 320x240 pixels
- Sweep speed: 25mm / sec. nominal
- Viewing time: 3.2 seconds
- **Automatic self-test**

- Power on self-test / Run time self-test / Manual self-test
- Periodic self-test (daily/weekly/monthly)
- **AC adapter**
- Input : 100 - 240V AC 50/ 60Hz 170VA
- Output: +12V DC 3.6A
- **Battery pack**
- 12V 4.5Ah nickel-metal hydride battery pack (rechargeable)
- Charging time: minimum of 4 hours for full charging
- Capacity: when new. minimum of 200 shock deliveries (fully charged)

DEFI-B BATTERY AND DEFI-N MAINS OPERATED DEFIBRILLATORS

In emergency situation the well structured and logical operator guidance may save a life

Suitable for adult and children (reference norms ERC 2005 use of joule depending on kg).

Compact and handy: PRIMEDIC DEFI-B is easily transportable and immediately ready to use everywhere

33380

CE 0123

version and has proved successful in daily use in ambulances, with cardio sport groups and in hospitals. DEFI-N is a mains operated version. The convincing advantages: PRIMEDIC DEFI-B and DEFI-Nare quickly ready to use, DEFI-B not mains dependent due to large accumulator capacity. After switching on the defibrillators, an internal self-test with error diagnosis is carried out automatically. Pictograms and a clear program run, to ensure functional handling. A shock-resistant plastic casing protects the device, especially in hard conditions.
- **33381 SPARE BATTERY**

TECHNICAL SPECIFICATIONS
Mode: Asynchronous, external defibrillator
Energy step: 20, 50, 100, 160, 250, 360 Joule
Discharges: 45 shocks with 360 Joule,
(10 reserve after signal "battery low")
Charging time:
    2 sec (33380-2) and 4 sec (33383) up to 100 Joule,
    4.5 sec (33380-2) and 7.6 sec(33383) up to 360 Joule
Paddles for children integrated
Accumulator: 14.4V/1.4 Ah (33380-2 only)
Charging time: 3.5 hours (33380-2 only)
Safety: Internal discharge of energy after 15 sec.
    Internal self-testing and fault recognition
    Protection class II, type BF
Mains voltage: 200-240 V 50/60 Hz or 110 V
Dimensions: 40x48x12 cm (W x D x H)
Weight: 8.5 kg   Made in Germany

- **33380 DEFI-B DEFIBRILLATOR - 220V**
- **33382 DEFI-B DEFIBRILLATOR - 110V**
- **33383 DEFI-N DEFIBRILLATOR - 220V**

The mobile security: PRIMEDIC DEFI-B and DEFI-N are a state-of-the-art accumulator-driven defibrillators. They were designed in accordance with strict requirements of emergency medical science. Fully developed and reliable technique, worldwide in use for years. PRIMEDIC DEFI-B is a mains-independent

RESCUE 230 BIPHASIC MANUAL DEFIBRILLATOR

RESCUE 230 BIPHASIC MANUAL DEFIBRILLATOR
A range of 2 professional models with advanced features:
- BTE (biphasic truncated exponential) discharge type
- Impedance compensated energy delivery
- Energy selection from 2 to 230 Joule directly from the front panel.
- Charge time 5 sec for 230 Joule with fully charged battery
- 100 shocks of 230 J with fully charged batteries
- Charge/discharge control from the paddles
- Ecg 'R' wave synchro mode or async mode
- Large (5.7") high resolution backlight LCD display (320x240 dots)
- ECG through the paddles or through patient cable
- Adjustable HR and SpO_2 alarms limits
• **33447 RESCUE 230 BIPHASIC DEFIBRILLATOR - 220V**
• **33457 RESCUE 230 BIPHASIC DEFIBRILLATOR WITH PACEMAKER**
(rectangular pulse, pulse duration 22 msec, pulse max amplitude 150V, stimulation frequency 30 to 150 BPM)
• **33448 DISPOSABLE PADDLES - box of 2 - adult**
• **33449 CABLE FOR DISPOSABLE PADDLES**
• **33439 SpO_2 PROBE** • **33250 THERMAL PAPER**

Battery charging car plug on request

33447

TECHNICAL SPECIFICATIONS
Display:
- Large (5.7") high resolution backlight LCD display (320x240 dots)
- ECG through the discharge paddles (1 trace) or through 4 leads patient cable (6 traces): I, II, III, aVR, aVL, aVF.
Automatic change over when plugging the patient cable
- Filters: 50 Hz/60 Hz, base line, low pass
- Heart rate indicator
Printer:
- Auto printing mode
- Integrated thermal printer for ECG traces and events documentation hardcopy
- Paper speed 5, 10, 25 and 50 mm/sec. (paper width 58 mm)
Safety:
- Two hands safety shock release
- Ecg input isulation CF class
- Internal discharge after 30 sec. of standby after charge
Power supply: internal Ni-Cd high capacity batteries (charging time 95%: 2 hours)
                  universal mains adaptor charger 110/220 VAC, 50/60 Hz
Dimensions: 34 x 26 x 13 cm   Weight: 5.5 kg   Made in Italy

Adult and pediatric standards pads **33448** *Optional paddles for monitoring*

STANDARD ACCESSORIES

Internal Ni-Cd high capacity battery	Printer
Carrying case	1 paper roll
Patient cable 4 leads	2 reusable paddles
Manual English, Italian, on request	Mains adaptor charger
Spanish, Turkish	Disposable paddle*+cable*

*Only for 33457

RESCUE LIFE MANUAL AND SEMIAUTOMATIC AED DEFIBRILLATORS

RESCUE LIFE DEFIBRILLATORS
- BTE (Biphasic Truncated Exponential) discharge type
- Impedance compensated energy delivery
- Energy selection from 2 to 230J directly from rotative selector
- ECG "R" wave synchro or asynchro mode
- AED mode in accordance to AAMI DF39 (only 33591)
- Internal memory for 50 hours ECG events and usage review recording (only 33591)
- Brilliant TFT Color display 5.7" backlight, high resolution
- Adjustable HR and SpO_2 alarm limits
- Simple to navigate user interface thanks to multifunctional trim knob

33591 + 33595

TECHNICAL SPECIFICATIONS
Display:
- High contrast TFT colour LCD 5.7" (320x240 pixel)
- ECG through the discharge paddles (1 trace) or through 3, 10 leads patient cable for 6, or 12 traces and SpO_2 trace and value
Automatic change over when plugging the patient cable
- Filters: 50/60 Hz, base line, low pass
- Heart rate indicator
ECG monitoring
Bandwidth: 0.5 to 120 Hz (-3db) with filters off
ECG trace parameters:
- Velocity 5, 10, 25, 50 mm/sec.
- Gain 5, 10, 20 mm/mV with patient cable; auto with paddles
- HR digital readout on the display from 20 to 300 bpm (± 2%)
Alarm: HR max settable 250 bpm, HR min settable 20 bpm
Pulse oxymetry (SpO_2)
- Oxygen saturation range: 0 to 100%
- Pulse rate range: 18 to 300 pulses per minute
- Accuracy SpO_2: 70-100% ± 2 digits for adults using the finger clip sensor

- SpO_2 Alarms (min. 65%)
Non-invasive pacemaker (33591 only)
- Rectangular wave
- Pulse Time: 22 ms
- Pulse Current: MAX 150 mA
- Pulse Voltage: MAX 150 V
Printer:
- Auto printing mode
- Integrated thermal printer for ECG traces and events documentation hardcopy including SpO_2 in %
- Paper speed 5, 10 and 25 mm/sec.
- Paper width: 58 mm
Safety:
- Two hand safety shock release
- Ecg input isulation CF class
- Internal discharge after 30 sec. of standby after charge
Power supply:
internal Ni-Mh high capacity batteries (charging time 95%: 2 hours)
universal mains adaptor charger 110/230 VAC, 50/60 Hz
Dimensions: 36 x 24 x 34 cm   Weight: 5.5 kg
Made in Italy

33591

GIMA code	RESCUE LIFE DEFIBRILLATOR
33590	Rescue life defibrillator
33591	Rescue life AED defibrillator with pacemaker
33448	Disposable paddles - box of 2 adult
33593	Cable for disposable paddles
33592	SpO_2 probe*
33594	ECG cable 10 leads
33595	Rescue life bag
33250	Thermal paper

*To be installed when you order defibrillator

STANDARD ACCESSORIES

Internal Ni-Mh batteries	Printer
1 paper roll	Patient cables 3 leads
2 reusable paddles	
Manual: English, Italian	Main adaptor charger

AUTOMATIC* EXTERNAL DEFIBRILLATORS WITH ECG

EXTERNAL DEFIBRILLATOR - AED

The convincing feature of the new PRIMEDIC™ HeartSave is its easy, safe and speedy operation. With the new biphasic "Current Controlled Defibrillation" pulse, we are setting new standards in defibrillation technology.

The device performs an automatic ECG analysis within 12 seconds and decides whether a defibrillation is necessary.

Then a touch of a button is enough to trigger the life-saving electric pulse that eliminates the ventricular fibrillation.

Thus valuable seconds and minutes are used to save life. A range of 4 models available: use for patients > 8 years or > 25 kg

HEART SAVE AED

Automatic external defibrillator with integrated one-channel ECG, acoustic and optical user guidance and data backup.

HEART SAVE AED-M with monitor

Automatic external defibrillator incl. monitor for indication of operation duration, ECG, heart rate, identified VF/VT.

HEART SAVE 6 with monitor (cardio version)

Same as AED-M with 6-channel ECG leads

HEART SAVE 6S with monitor (cardio version)

Same as SAVE 6 with addition of SpO$_2$ measurement

High resolution LCD monitor gives important information for resuscitation

Menu button

Connection socket for save pads and ECG cable

Trigger button for real single-button operation. You can save a life with only one button.

Status display

AHA/ERC GUIDELINES 2005 CONFORMITY

IP55 WATER-CLASS-PROTECTED

GERMAN QUALITY

33385

Main features:
- One-button operation
- Intuitive and easily handling
- Status indicator
- Can be operated either from Lithium-Battery or NiCd Akupak
- No energy selection required
- Charging time < 10 sec.
- 3-shock cycle < 60 sec.
- SaveCard, at least 60 minutes, for internal ECG and voice recording
- Regular self-test
- Dim. approx. 26x26x8,5 cm, weight approx. 2 kg
- Made in Germany

Cardiological emergencies require practice and, most of all, promptness. With the automatic start when removing the lid, we set further standards with regard to promptness.

STANDARD ACCESSORIES

Lithium Battery (110 shocks) or rechargeable battery with charger
SpO$_2$ probe (SAVE 6S only)
ECG cable 3 leads (SAVE 6 and SAVE 6S only)
Save pads   Briefing protocol   Manual

EXTERNAL DEFIBRILLATOR	VOICE VERSION AND MANUAL			
With lithium battery - 110 discharges	**English Italian Spanish**	**Greek Portuguese**	**French* German**	**Other languages****
HEART SAVE AED	33384	33391	33392	33394
HEART SAVE AED-M with monitor	33385	33396	33397	33399
WITH AKUPAK RECHARGEABLE BATTERY AND POWERPAK CHARGING UNIT				
HEART SAVE AED-M with monitor	33440	-	-	33446
HEART SAVE 6 with monitor	33450	33452	33453	33456
HEART SAVE 6S with monitor	33460	33462	33463	33466

** We can provide other following languages: Russian, Chinese, Iranian, Dutch, Turkish, Czech, Polish, Danish, Swedish, Finnish (only 33394, 33399, 33346), Norwegian, Arab, Brazilian, Hungarian, Thai, Japanese, Rumanian, Lithuanian(only 33394, 33399), Slovenian (excluding 33466), Icelandic (only 33394, 33399, 33446). Please specify with order.   * Available in 20 days

ACCESSORIES				
Lithium BATTERY - not rechargeable	33387	33387	33387	33387
Akupak Rechargeable battery	33400	33400	33400	33400
PowerPak Battery charger for code 33400	33407	33407	33407	33407
SAVE PADS (self-adhesive electrode, including 2 pole cable, razor and gloves)	33388	33386	33386	33386

TECHNICAL SPECIFICATIONS									
	AED	**AED-M**	**6**	**6S**		**AED**	**AED-M**	**6**	**6S**
Defibrillation					**LCD Monitor**				
Wave: biphasic, current controlled pulse	•	•	•	•	95 x 72 mm (diagonal 4.7"/120 mm)		•	•	•
					320 x 240 (pixel size 0,36 x 0,36 mm)		•	•	•
Energy 140-360 j	•	•	•	•	Storage battery status display		•	•	•
Charging time: < 12 sec	•	•	•	•	Speed 25 mm/s		•	•	•
Operating modes: asynchronous	•	•	•	•	Heart rate, number of defibrillation, number of VF/VT, total resuscitation time		•	•	•
ECG					**Electrodes**				
Lead: II	•	•			Non polarized electrodes, 2 years storage	•	•	•	•
I, II, III, aVr, aVf, aVl			•	•	Cable length 1,5 m	•	•	•	•
Patient's impedance range: 20-200 Ohm	•	•	•	•	**Data backup**				
Heart rate: 30-300 per min	•	•	•	•	Internal memory 8 MB backup	•	•	•	•
VF:VT Detection					Removable memory 128 MB	•	•	•	•
VF/VT Detection	•	•	•	•	Voice recording	•	•	•	•
Manual override			•	•	**Power supply**				
Analysis time 6-12 sec	•	•	•	•	Lithium battery or Rechargeable (Power pack 90-260 V, 50/60 Hz)	•	•	•	•
VF threshold 0,2 mV	•	•	•	•	**Battery:**				
Asystole threshold <0,2mV	•	•	•	•					
Artefact-Pacemaker detection	•	•	•	•					
Pulse Oxymeter									
Nellcor				•					

Battery:

	Lithium **or** Rechargeable		AED	AED-M	6	6S
Type	LiMnO$_2$	NiCd	•	•	•	•
Battery storage	5 Years	-	•	•	•	•
Discharges	110	56	•	•	•	•
Monitoring	11 h	5 h	•	•	•	•
Voltage	16 V	10,6 V	•	•	•	•

* For European legislation "Automatic Defibrillator" are those with automatic ECG detection. "Automatic" is consequently referred to ECG only while defibrillator is manual.

I-PAD PUBLIC ACCESS DEFIBRILLATOR

The i-PAD NF 1200 is a semi-automatic external defibrillator designed for minimally trained individuals. It provides simple and direct voice prompts and indications for a straightforward rescue operation.
It is lightweight and battery powered for maximum portability. It is designed to treat Ventricular Fibrillation (VF) and Fast Ventricular Tachycardia. These two are the most common causes of sudden cardiac arrest (SCA).
In SCA, the heart of the victim suddenly stops pumping.
The only effective treatment for VF is the application of a defibrillating shock.
It may be used on children 1-8 years old (less than 25 kg) with pediatric reduced energy pads, over with adult pads. Supplied with a set of adult pads, lithium battery (150 Shocks or 4 hours operating time), manual.
TRAINER: simulates all the functions of I-PAD, with 8 standard rescue scenarios.

Information button
State LED
Battery pack
IrDA port used for data communication
Pads connector guide
Shock button

CE 0470
FDA Approved

SPECIALLY DESIGNED FOR PUBLIC USAGE

Voice version and manual	I-PAD DEFIBRILLATOR AND TRAINER					
	Spanish	French	Portuguese	Italian	English	Other languages*
DEFIBRILLATOR	33408	33409	33413	33414	33416	33417
TRAINER	-	-	-	33424	33405	33406

GIMA code	Accessories for I-PAD	
33418	Lithium battery pack	*Available languages: German, Czech, Dutch, Korean, Japanese, Thai, Greek, Polish
33448	Disposable pads - kit of 2 pcs	
33443	Disposable pediatric pads - kit of 2 pcs	
33422	Carrying bag	
33423	Wall cabinet with alarm sound	
33403	Communication connector + software - for event recording download with key file	

33405   33423   33422

TECHNICAL SPECIFICATIONS

Operating mode:	Semi-automatic.	Charge time from "Shock advised":	< 10 seconds, typical.
Waveform:	e-cube biphasic (Truncated exponential type); impedance compensated.	Voice instruction:	Voice messages guide through use of defibrillator.
Energy:	200J fixed.	Controls:	Shock Button, i-Button, On/Off Button.
Adult:	nominal 150 J into a 50 ohm load.	Indicators:	7 LEDs (different colors), i-Button.
	Infant/child: nominal 50 joules into a 50 ohm load.	Patient isolation:	Type BF.
		Battery:	12 Volt DC, 4.2 Ah, lithium manganese dioxide, disposable long-life primary cell
Shock energy accuracy:	Within ±3% (200J into 50Ω).		
Shock to shock cycle time:	Typically less than 20 seconds.	Battery capacity:	Min.120 Shocks or 4 hours of operating time.
Protocol:	Voice prompts and indicators guide through protocol.	Data recording:	Data Stored: First 40 minutes of ECG and the entire incident's events and analysis decision.
Charge control:	Automatic by Software (Arrhythmia Detection System and Charging Control).	Size - Weight:	220x281x82 mm - 2.2 kg (4.84 lbs) with battery pack

CU-ER1 PARAMEDIC AUTOMATED EXTERNAL DEFIBRILLATOR

CU-ER1 is an automated external defibrillator with monitor and ECG functions.
Main features:
• **Intelligent Arrhythmia Detector**
• **Efficient and effective e-cube Biphasic Truncated Exponential shock waveform**
• **Lightweight and highly portable**
• **Versatile Power Supply**
Rechargeable battery pack, AC/DC adapter, car cigar lighter jack (optional)
• **Intelligent data management system**
ECG of the patient and relevant events are recorded all throughout the rescue operation.
Recorded data may be transferred to a PC or reviewed in the device.
Supplied with rechargeable battery (minimum 4 hours for full charge), battery charger, adult pads with cable, user manual and carrying bag.

TECHNICAL SPECIFICATIONS

• **ECG Monitor**
- Patient connection: defibrillation pads, ECG electrodes
- Bandwidth: monitoring mode: 0.3 to 40Hz (-3 dB)
- EMS Mode: 1-30Hz
- Heart rate: digital 30 to 300 bpm (±3bpm)
• **Defibrillator**
- Waveform: e-cube biphasic (biphasic truncated exponential type)
- Charging time: less than 10 seconds
- Sensitivity & specificity: meets AAMI guidelines
- Defibrillation electrodes: multifunctional electrodes (disposable. pre-gelled)
• **Voice & text prompts**
- Voice prompts guide the user through the rescue protocol
- All user interfaces are supported in local language
• **Data storage & management**
- Internal flash memory: 12 hours of event and ECG recording
- Review the patient ECG. incident details and device information
- Transmit multi patient data to PC
• **Display**
- Screen type: high resolution display (graphic LCD)
- Screen size: 4 inches (10.16 cm) diagonal. 320x240 pixels
- Sweep speed: 25mm / sec. nominal
- Viewing time: 3.2 seconds

• **Automatic self-test**
- Power on self-test / run time self-test / manual self-test
- Periodic self-test (daily/weekly/monthly)
• **AC adapter**
- Input : 100 - 240V AC 50/ 60Hz - 170VA
- Output: +12V DC 3.6A
• **Battery pack**
- 12V 4.5Ah nickel-metal hydride battery pack (rechargeable)
- Charging time: minimum of 4 hours for full charging
- Capacity: when new. minimum of 200 shock deliveries (fully charged)

CE 0470
FDA Approved

Paramedic

Voice version and manual	CU-ER1 AUTOMATED EXTERNAL DEFIBRILLATOR					
	English	Italian	Spanish	French	Portuguese	Other languages*
DEFIBRILLATOR	33550	33454	33552	33553	33554	33555
TRAINER	33560	33561	-	-	-	-

GIMA code	Accessories for CU-ER1	
33563	Rechargeable battery**	*German, Czech, Korean, Japanese, Thai, Chinese, Russian, Persian.
33564	Battery charger	
33565	Disposable pads - kit of 2 pcs	
33569	Pediatric disposable pads - kit of 2 pcs	
33567	ECG cable - 3 lead	
33404	Communication connector + software** for event recording download with key file	
33568	Car cigar lighter jack	

*Need CU-ER1 serial number

LCD Screen Displays
- The ECG of patient
- Energy of the shock to be delivered
- Shock count
- Heart rate
- Battery stauts
- Elapsed time

Size: 305x250x94 mm
Weight: 2.7Kg

FIRST AID CERVICAL COLLARS

AMBU® PERFECT™

Adjustable in 12 sizes

34640

Adjustable in 16 sizes

34641

ONE PIECE FIRST AID COLLAR
Made in polyethylene with washable internal part made in EVA (kind of rubber) fixed to structure by plastic rivets. With a tracheal hole, removable chin support and velcro fastener.
X-ray translucent. Available in 6 sizes differentiated by safety closure colour or in a set of 6 in a bag.

GIMA code	ONE PIECE FIRST AID NECK COLLARS
34620	One-piece collar - infant
34621	One-piece collar - pediatric
34622	One-piece collar - stout (bull-neck)
34623	One-piece collar - adult small
34624	One-piece collar - adult medium
34625	One-piece collar - adult large - tall
34626	Set of 6 collars in a bag

TWO PIECES FIRST AID COLLAR
Made in polyethylene with washable internal part made in EVA (kind of rubber) fixed to structure by plastic rivets. With a tracheal hole, removable chin support and velcro fastener on the back. X-ray translucent. Available in 6 sizes differentiated by safety closure colour or in a set of 6 in a bag.

GIMA code	TWO PIECES FIRST AID NECK COLLARS
34630	Two-piece collar - infant
34631	Two-piece collar - pediatric
34632	Two-piece collar - stout (bull neck)
34633	Two-piece collar - adult small
34634	Two-piece collar - adult medium
34635	Two-piece collar - adult large - tall
34636	Set of 6 collars in a bag

AMBU® COLLARS
Ambu® Perfect™ ACE collars are rigid collars, available in 2 versions, adult and pediatric, both adjustable in different sizes/positions.
Adult has 16 adjustments, covering neckless, short, regular and tall.
Paediatric has 12 adjustments, covering infant, child, small adult. Made in polyethylene.

GIMA code	ADJUSTABLE NECK COLLARS
34640	Ambu collar paediatric-yellow
34641	Ambu collar adult-white

UNIVERSAL COLLARS

SEMIRIGID SPLINT KIT

34051   **34052**   **34053**

UNIVERSAL CERVICAL COLLARS
Collars made of foam coated PVC.
Washable, non toxic, with velcro straps.
X-Ray translucent.
Available in 3 sizes or in a set of 3 in a bag.

| GIMA code	NECK COLLARS
34050	Set of 3 collars in a bag
34051	Cervical collar - small
34052	Cervical collar - medium
34053	Cervical collar - large

34119 SEMIRIGID SPLINT KIT
Kit of 3 splints (arm, wrist, leg) in nylon carrying bag.
All splints are made of vinyl covered nylon, with lightweight stays providing high strength support.
Adjustable velcro for easy use.

■ FIRST AID AIR CUSHION AND SEMIRIGID SPLINTS
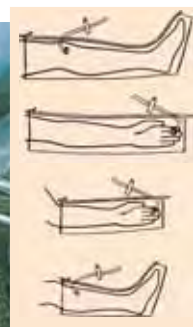
• 34106 FIRST AID AIR CUSHION SPLINTS
Indispensable instrument for first aid in case of accidents, cutting and crushing injuries.
Prevent surface bleeding without stopping the circulation and secure painless transportation of the injured part.
The bandage is a transparent cover of PVC easy to clean and reusable, resistant against water and shifting weather conditions. X-rays can penetrate and medical diagnosis can be made without removing the bandage.The long tube (14.5 cm) with the valve make the inflation of the bandage easy, even by the injured part himself.
Set of 4 different pieces: leg, foot, arm, hand in a 4 compartment bag, with inflation pump.

• 34123 BOSTON SPLINTS
Adaptable light-weight splints, x-ray translucent, coated with a non-toxic material which can be easily washed and disinfected.
Size cm 92x11. Made in Italy

ALUMINIUM SPLINTS soft lining
With curved edges to avoid harming yourselves. Aluminium thickness 1.2 mm.
Made in Italy
• 34120 SPLINTS - size 13x500 mm
• 34121 SPLINTS - size 19x500 mm
• 34122 SPLINTS - size 24x500 mm

34121

■ GIMASPLINTS IN 5 SIZES: LEG, ARM, FOREARM, WRIST AND ELBOW

GIMASPLINTS
These supports immobilize your limbs in an efficient and practical way. Each splint can be shaped to fit the patient's personal need. It ensures a high degree of rigid support: thanks to inner part made of neoprene lined with 100% laminated, absorbent-proof nylon assembled to a rigid metal splint.
A velcro band allows a quick fixing.
Available in 5 sizes or in a bag set of 5 pieces.

GIMA code	GIMASPLINTS
34680	Splint for leg
34681	Splint for arm
34682	Splint for forearm
34683	Splint for wrist
34684	Splint for elbow/ankle
34685	Set of 5 splints

34682
34683
34681
34684
34680

■ VACUUM SPLINT KIT

• 34689 VACUUM SPLINT KIT
The set includes vacuum splints for arm (70x50 cm), leg (100x70 cm) forearm (50x30 cm) and a nylon bag.
Produced with high quality materials these splints allow perfect immobilization of the lower and upper limbs by removing the air inside.
Equipped with an outside valve, to avoid troubles to the patient, and three velcro straps. Made in vinyl covered nylon, x-ray translucent.

• 34084 ALUMINIUM MINI PUMP - for vacuum splints
• 34093 ALUMINIUM PUMP - for vacuum splints and mattress

34093
34084
34689
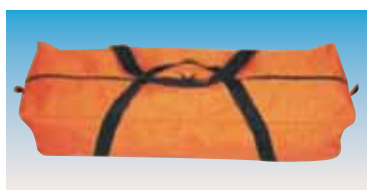
169

GIMA STRETCHERS AND SPINAL BOARDS

34101

• 34101 GIMA STRETCHER 2 - foldable in 2
Emergency stretcher is sturdy, but lightweight in construction, with aluminium frame and three solid iron cross-bars for heavy use.
Reinforced nylon bed, fluid repellent and anti-tearing.

• 34107 GIMA STRETCHER 4 - foldable in 4
Made of high strength alloy material and water-tightness material.
Light weight, easy to carry, foldable in 4.
Length foldable in 2 parts, width foldable in 2 parts.
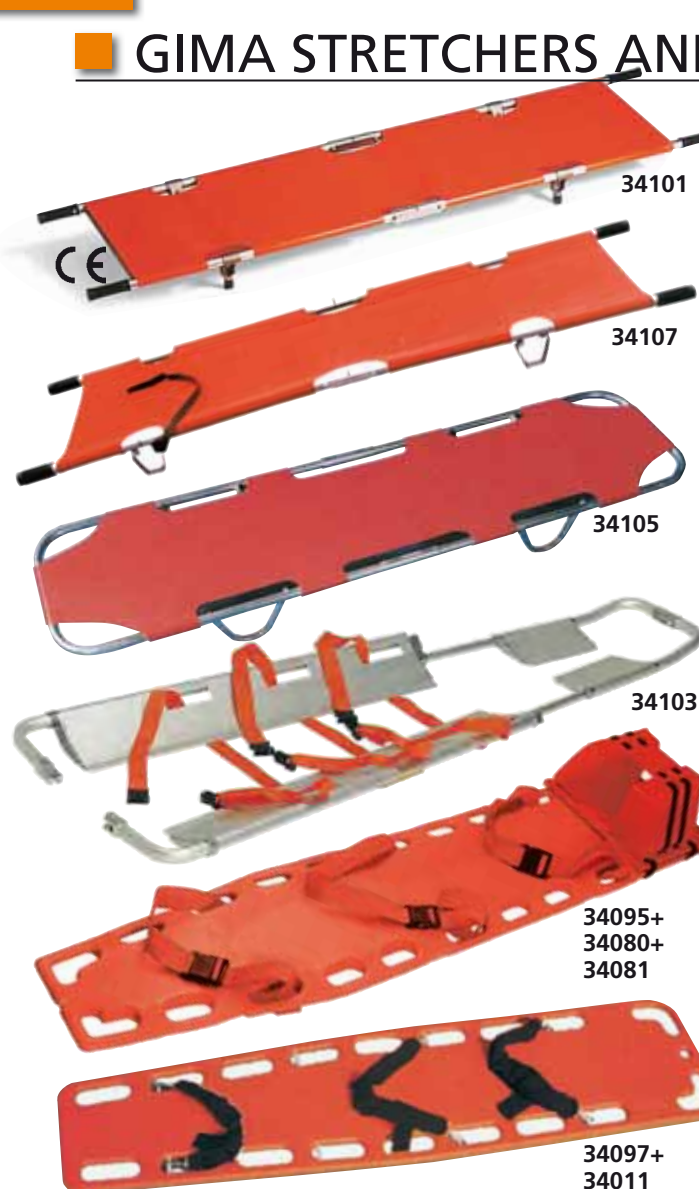
34101

34107

34107

• 34105 STACKABLE STRETCHER - foldable in 2
Used in small rooms where it is necessary to store a large number of stretchers. PVC does not absorb blood or body fluids.
Strong lightweight aluminium construction with vinyl coated poliester

34105

• 34103 SCOOPING STRETCHER
A wonderfully practical scooping stretcher makes it possible to put the stretcher under the patient without moving him/her much. The shape of the stretcher has been designed to immobilise the patient in the best way during transport.
- effective hooking and unhooking device for stretcher uncoupling
- adjustable stretcher length with automatic locking device
- bag with 3 quick unhooking safety belts for patient immobilisation
- once folded can be easily stored inside the ambulance
- completely built in light and sturdy aluminium

34103

• 34095 SPINAL BOARD
100% x-ray translucent, washable, disinfectable and impervious to all fluids.
Compatible with all head-immobilisation devices and strapping system.
Colour orange.

**34095+
34080+
34081**

• 34097 SPINAL BOARD WITH SAFETY PINS
Strong and lightweight high density PE spinal board, with two fibre reinforced plastic stays. Provided with metal pins for better fixation of immobilisation belts Excellent for water rescues.

Metal pins

2 fibre reinforced plastic stays

**34097+
34011**
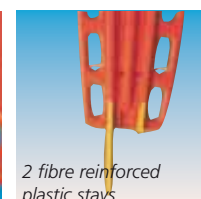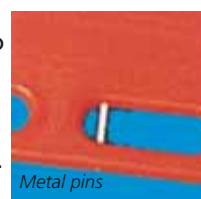
TECHNICAL SPECIFICATIONS	GIMA 2	GIMA 4	STACKABLE	SCOOPING	SPINAL	SPINAL WITH PINS
Open size cm:	203x50x14	221x53x16	195x54x3	min 171x43 max 212x43	183x40x4.5	183x46x5
Folded size cm:	96x50x17	104x19x12	96x54x3	120x43	-	-
Weight:	6 kg	5 kg	4 kg	8 kg	7.6 kg	7 kg
Load:	120 kg	130 kg	200 kg	150 kg	150 kg	200 kg

VACUUM MATTRESS

• 34089 MAT PLUS VACUUM MATTRESS
PVC, X-ray translucent mattress provided with 4 immobilization straps and 12 transport holes.
Suitable for any kind of emergency situation.
Size: 210x90 cm.
Weight: 11.2 kg.
Loading capacity: 150 kg.
Supplied in nylon bag size 86x43x17 cm, pump not included.

34088

34089

• 34088 MAT VACUUM MATTRESS
PVC, X-ray translucent mattress with 6 transport handles, perfectly fit the patient body.
Sturdy material and careful execution make it suitable for Civil Defence, Fire Brigades, Industry and First-aid on the mountains.
Size: 200x75 cm.
Weight: 8.8 kg.
Loading capacity: 150 kg.
Supplied in nylon bag size 70x43x15cm, pump not included.
• 34093 ALUMINIUM-PUMP for vacuum mattress
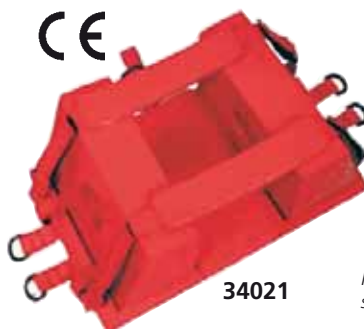**• 34094 REPAIR KIT**

34093

GIMA

HEAD IMMOBILIZERS

34020   34021   34079   34080

Radiolucent material, suitable for x-ray chamber

HEAD IMMOBILIZERS
GIMA introduces four models of head immobilizers, different in shape, material and colour.
All are composed of two head blocks and two straps to prevent any head movement of the injured person during transport.

GIMA code	Type	Colour	Material
34020	FERMO-1	yellow	PE foam covered with vinyl
34021	FERMO-2	red	NBR foam dipped with PVC
34080	STOP	orange	High density foam+water repellent coating
34079	CONTOUR	yellow	Moulded antitoxic PVC and polyurethane

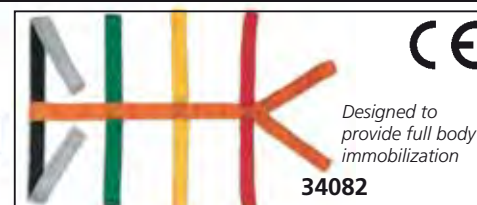# IMMOBILISATION BELTS FOR STRETCHERS AND SPINAL BOARDS

34010   34012   34011   34013   34082

Designed to provide full body immobilization

GIMA code	Type	Colour	Size cm	Max load kg	Buckle style	To be used with
34010	Belt-A	red	5x213	60	plastic snap-lock	stretchers + boards
34011	Belt-B	black	5x213	60	2 swivel speed clip + plastic snap-lock	spinal boards with pin
34012	Belt-C	red	5x213	200	automatic quick release (unique belt)	stretchers + boards
34013	Belt-D	black	5x213	200	automatic quick release (belt in 2 pcs.)	stretchers + boards
34081	Set 3 Belts	orange			quick release plastic hook	stretchers + boards
34082	Ragno/Spider	mix	5x46x183	-	velcro strapping system	spinal boards
32794	Nylon bag	red	-	-	-	contains up to 3 belts
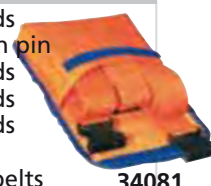
34081

DISASTER POUCHES

CARRYING COT

34090

• **34116 DISASTER POUCH - PVC**
Made of PVC (Inner transparent PVC, over black), provided with two long slide fasteners.
Colour: black.
Loading capacity: 150 kg.

• **34117 DISASTER POUCH - vinyl**
Made of vinyl covered nylon conform to standard EN 1865.
Provided with a long slide fastener.
Colour: Blue.
Loading capacity: 150 kg.

• **34090 CARRYING COT**
Made in polyester, PVC coated, anti-putridity, waterproof, easy to wash, and x-ray translucent material. With 8 handles for a more secure patient transport. Size 190x60 cm.
Supplied in a bag. Loading capacity: 150 kg.

EXTRICATION KITS

34028   34027

Supply horizontal flexibility and vertical rigidity support

• **34027 SPINAL IMMOBILIZER TYPE A**
• **34028 SPINAL IMMOBILIZER TYPE B**
GIMA presents 2 different shape of spinal immobilizers, both are ideal for the immobilization and setting free of patients from emergency situations.
They allow to fix vertically and horizontally the head and spine of the patient to limit any injuries caused by wrong transport.
Supplied with different colour buckles and belt for easy use, padded cushion velcro straps and waterproof bag.

171

AUTOMATIC LOADING STRETCHER

Maximum height position Standing (90 cm)

After loading

On loading (23 cm)

• 34055 AUTOMATIC LOADING STRETCHER

Automatic stretcher to load and unload patients from emergency vehicles, can be moved by only one person. Specially designed with roll-in system to easily load and unload patients from emergency vehicle without lifting them. Legs fold under cot automatically as stretcher is rolled into the vehicle. Lock-in operating position as cot is removed from vehicle, left-hand and right-hand control levers unlock front and back legs respectively so as to be folded when cot is loaded. Polyethylene covered legs allow cot to roll smoothly in and out of vehicle. Mattress, belts, side rails and fixing devices are included.
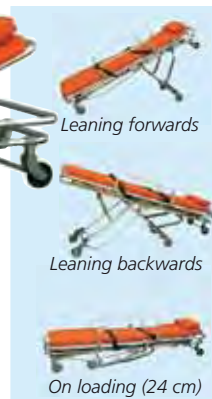
TECHNICAL SPECIFICATIONS
Size: 190x54x90 cm
Weight: 40 kg
Load: 159 kg

Fixing device in vehicle

MULTIPOSITION STRETCHER

Leaning forwards

Leaning backwards

On loading (24 cm)

• 34056 MULTIPOSITION AUTO STRETCHER

Multifunctional automatic stretcher with adjustable positioning system, easily adjustable to the position required during emergency treatments in combination with ambulance. The stretcher can bend through 6 different grades, forwards or backwards. The back of the stretcher is fixed by pneumatic springs moving in the range of 0 to 60 degrees, also equipped by front and back fixed supports. It can be locked into place inside ambulance at proper position. Mattress, belts, side rails, I.V. stand and fixing devices are included.

TECHNICAL SPECIFICATIONS
Maximum size (LxWxH):   198x53x98 cm
Minimum size (LxWxH):   198x53x34 cm
Load: 159 kg
Net weight: 40 kg
Maximum angle of leaning forwards: 11 degrees
Maximum angle of leaning backwards: 25 degrees
The height scope of touching down (6 grades):
  98 cm- 94 cm - 87 cm
  77 cm- 60 cm - 34 cm

Fixing device in vehicle

AUTOMATIC LOADING AND MULTI LEVEL, X-FRAME STRETCHERS

• 34062 CARRERA SELF LOADING STRETCHER
- loading height 44-60 cm - yellow/black
• 34063 CARRERA SELF LOADING STRETCHER
- loading height 54-70 cm - yellow/black

The Carrera cot is a one-piece /one-man stretcher trolley. The platform is available with a semi-automatic backrest lifting system. Sidebars have a built-in mechanism to avoid pinching of sheets and for added safety to the patient.
Easy to clean and to load onto the vehicle for the single operator, thanks to the "Back-saving self effect"
and to the "self-assist" system integrated in the pistons. Bigger wheels (Ø 200 mm) for added stability (2 with brake)
Weight: 29 kg.
Mattress and rails included.

34062

Mattress 185x50x8 cm

34064

Available also black and yellow

• 34064 ENDURO MULTI-LEVEL STRETCHER
• 34065 ENDURO MULTI-LEVEL STRETCHER
- with Fowler position - chrome/black

The Enduro multi-level cot is a simple stretcher trolley ideal for use in Hospitals and easy to handle for the operators. It has an X-frame stretcher with 8 different adjustable positions. A special alloy for the frame and HDPE for the board are a guarantee of quality and flexible endurance. The board is equipped with a semi-automatic telescopic backrest lifting system and allows for Trendelenburg positioning of the patient. It is possible to order model with boards that also bend into Fowler position. Sidebars have a built-in mechanism to avoid pinching of sheets and for added safety to the patient. Fully welded it is guaranteed to be a strong companion. Bigger wheels for added stability and an extraordinary weight load capacity of approximately 250 kg.
Weight: 45 kg.

| GIMA code	ACCESSORIES FOR SELF-LOADING STRETCHER AND MULTI-LEVEL STRETCHER
34066	Mattress - orange (for 34064, 34065) 185 x 50 x 8 cm
34067	Two pieces belt with metal hook
34068	Front blocking
34069	Back blocking

GIMA

BASKET STRETCHER

• 34098 BASKET STRETCHER - orange
This shell is a new design for a wide range of rescue situations.
It is built in high density cross-linked polyethylene, to
avoid splintering and cracking.
The surface is impervious to body fluids and
petroleum products, easy to keep clean.
The basket is in non-absorbent orange colour,
it will not rust or corrode, resistant to the
effects
of chemicals and extreme temperatures.
The tubular aluminium frame is permanently
fastened to the shell to ensure maximum strength
and rigidity of the stretcher. Moulded-in hand holds. Built in brass grammets provide
four strategically positioned lifting points to ensure a safe and effective means of raising
or lowering the patient. Includes 3 quick-release restraints to hold the patient securely,
mattress and foot-rest.
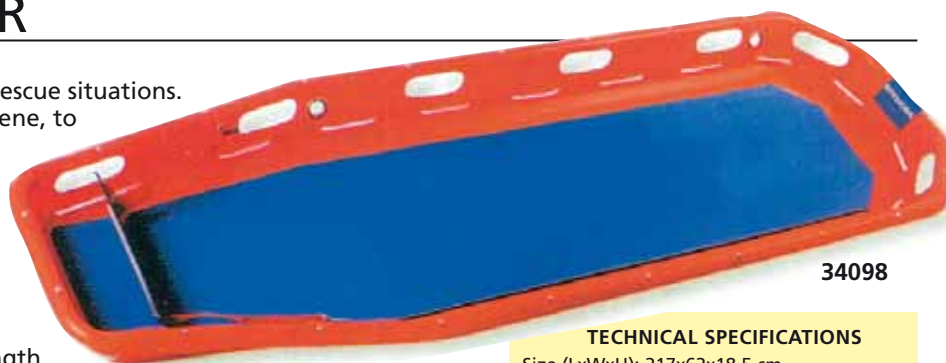
34098

TECHNICAL SPECIFICATIONS
Size (LxWxH): 217x62x18.5 cm
Load capacity: 278 kg
Weight: 13.5 kg

34098+34099

• 34099 LIFTING BRIDLES
Adjustable, can be used for horizontal and vertical patient lifting. Manufactured in durable
woven nylon with sound steel attachment hardware and brass locking mechanism.

• 34100 FLOTATION SYSTEM

34098+34100

WHEELCHAIR STRETCHER

• 34057 WHEELCHAIR STRETCHER
Specially designed for confined areas such as narrow
hallways or multiple landing stairways; anywhere access
is seriously limited.
Two rearstationary wheels, two back handles and two
adjustable front handles facilitate transport on most
floor types.
Locking safety latch maintains chair position during use.
Loading capacity: 150 kg.

TECHNICAL SPECIFICATIONS
Folded size: 92x52x16 cm
Wheelchair size:
- back height: 91 cm - width: 50 cm
- seat height: 49 cm - width: 50 cm
Weight: 8 kg

34057

FOLDING STAIR CHAIR AND EVACUATION CHAIR

• 34058 EVACUATION CHAIR - orange/chrome
Designed and built for emergency patient removal from confined spaces.
Folded it can be stored in most ambulances. Manufactured from chromed
steel with brakes on the front wheels. Seat cover made of vinyl coated nylon,
easily washable.
Folds in one movement, equipped with two quick-release patient restraints.

• 34059 FOLDING CHAIR - black/yellow
                          - orange/chrome on request
A cost effective choice for moving patients through difficult situations.
Four non-slip grip handles make lifting the patient safer and easier.
Two large rear wheels provide easy manoeuvering.
Tough, orange, vinyl coated seat cover easy to clean, resists stain and
provides bacteriostatic protection.
Supplied with a set of 3 plastic buckle belts. Made in Italy

TECHNICAL SPECIFICATIONS		
	34059 FOLDING	34058 EVACUATION
Height (open/closed):	92 cm	98/78 cm
Width:	48 cm	41 cm
Depth with retracted handles:	59 cm	-
Depth with extended handles:	125 cm	open 80 cm
Depth when folded handles:	19 cm	closed 31 cm
Weight:	10 kg	12 kg
Load:	165 kg	116 kg

34058

34059

173

ELECTRONIC VENTILATOR 170

• 34030 ELECTRONIC VENTILATOR
• 34031 KOMPAK ELECTRONIC VENTILATOR
Automatic ventilator designed for: first aid, ambulances, inter and intra-hospital transfer of critically ill patients. It is a time cycled, pressure limited, electronically controlled ventilator with an intermittent flow pneumatic unit. It provides stable tidal volume and respiratory rate. The wide range of volume and respiratory frequencies allows use for both children and adults. It is equipped with a newly conceived mixer which allows a stable separation between oxygen and ambient air regardless of the ventilation rate and respiratory pressure. An additional valve allows the patient to breathe ambient air when the unit is not operating. The patient circuit is provided with a low resistant valve, it is autoclavable and easy to use; the non-rebreathing valve is equipped with a special pressure reducing device that makes it suitable for both children and adults. Compact, light-weight, easy to regulate thanks to a clear interface, provided with alarms it has no parts in motion: thus it allows patient safety even if used by personnel with limited training.
Made in Italy.
Kompak ventilator with transport case.
An aluminium and nylon case containing ventilator, oxygen cylinder with pressure regulator ready for use.
• 34035 CORRUGATED TUBE
• 34036 PATIENT CIRCUIT (valve+corrugated tube)
• 34037 BATTERY

34030

Minute/Volume selection knob

Airway pressure limit selection knob

LED for battery condition and feeding screening

34031

STANDARD ACCESSORIES	
Patient circuit (corrugated tubing with non re-breath valve)	
Power cable	Adult face-mask
Oxygen tube	Battery
Manual: English, Italian, French	UNI adaptor
2 l oxygen cylinder (34031 only)	Pressure reducer (34031 only)
Aluminium/nylon case (34031 only)	
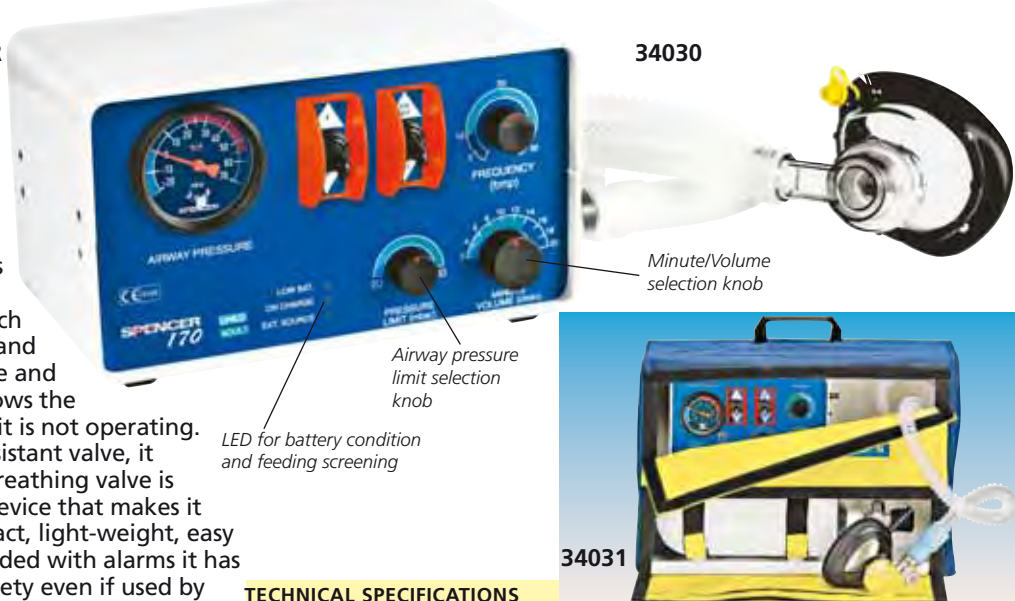
TECHNICAL SPECIFICATIONS	
Drive	Electronic
Mode (visual sign)	5-30 BPM
Flow	2 to 20 l/min
I/E Ratio	1:2
Oxygen concentration	60%-100% Patented system
Mechanical overpressure relief	15-60 cm H_2O - adjustable
Medical gas supply	3,5 bar ± 0,5
Battery operation	Approx. 4 hours
Audible and visual alarms	Low battery - gas supply
Other indications displayed	Medical gas supply
Alarm reset	30 sec.
Manometer	-20 +70 cm H_2O
Vacuum sensor	Switch
External/Internal source	12 V DC
Dimensions	295x160x155 mm (34030), 455x147x363 (34031)
Weight	4,3 kg (34030), 12 kg (34031).

AUTOMATIC VENTILATOR 118

• 34032 AUTOMATIC VENTILATOR 118
Versatile, simple and economical, it is a ventilator with pneumatic logics control. Its intrinsic properties and its small dimensions make it suitable for any emergency situation: first aid, ambulance, patient transport. It is a time cycled constant volume ventilator, with
- infinitely adjustable respiratory frequency (from 10 to 40 breaths per minute)
- infinitely adjustable minute volume (from 3 to 24 l/min)
- Oxygen concentration selectable by means of a single action switch between 100% and 55% without change of minute volume
- low gas consumption
- airway pressure gauge
- no electrical supply, the operation is ensured.
- with only one fluid source.
The non-rebreathing valve is equipped with a special pressure reducing device that makes it adjustable for both adults and children. Small dimensions, sturdy, light-weight, ideal for rescue everywhere and in every circumstance.
Made in Italy
• 34035 CORRUGATED TUBE - 117 cm
• 34036 PATIENT CIRCUIT (valve+corrugated tube)

34032

STANDARD ACCESSORIES
Patient circuit (corrugated tubing with non re-breath valve)
Adult face-mask
Oxygen tube - UNI adaptor
Manual: English, Italian

TECHNICAL SPECIFICATIONS	
Operating mode	Flow chopper
Control	Volume-time cycle
Respiration frequency	5 to 38 breaths/min.
Inspiratory-expiratory phase time I:E	1/1.5 ±10%
Minute volume (MV)	2 to 18 l/min ±15%,infinitely adjustable
O_2 conc. of breath. gas when driven by O_2:	
Switch set to "Air Mix"	55% O_2 - 80% O_2
Switch set to "No Air Mix"	100% O_2
Safety valve	60 mbar ±10% mechanical overpr. relief
Airway pressure gauge range	-20 to +70 mbar
Pression gauge accuracy	from -20 to +10 mbar: 2 mbar
	from +10 to +70 mbar: 5 mbar
Drive gas	O_2 or air
inlet pressure	from 3 to 4.5 bar at flow of 60l/min
Gas consumption	approx. 1.3 l/min
Pneumatic main switch	I-O
Dead-space volume	approx. 12 ml.
Dimensions	80x240x198 mm.
Weight	2.1 kg.
Ambient pressure	600 to 1200 mbar
Case	Polyethylene high density ABS

ΙΝΕΜΑ ΣΟΦΟΥΛΗ 83 ΡΟΔΟΣ ΤΗΛ: 2241032238

GIMA

FIRST AID - PARAMEDICAL - EMERGENCY

OXYGEN CYLINDERS: 0.5, 2, 3, 5, 7 AND 10 LITRES

CE 0434

34507
34505
34503
34502
34500

34167
34166
34169 34168

Oxygen therapy masks are produced with non toxic material, complete with adjustable elastic clip for nose and connecting tube

34172

CYLINDERS FOR OXYGEN THERAPY (empty)
Ready for use available in five sizes: 0.5, 2, 3, 5 and 7 l.
Steel cylinders for therapeutic oxygen at 200 bar pressure, with valve and safety lock.
These cylinders are ideal for home and hospital therapeutic use, particularly in case of desultory oxygen supply.
Supplied in a robust plastic bag (5 and 7 l) or soft bag (2 and 3 l) with cover. Oxygen cylinders are provided with a pressure reducer with two-stage release valve (0-12 l/min) and high pressure manometer to indicate oxygen quantity in the cylinder (Code 34510/34511) and face mask (excluding 34500/34520).

GIMA code		OXYGEN CYLINDERS WITH INTEGRATED PRESSURE REDUCER				
UNI	NF	Litres	Flow	Size	Weight kg	
34500	34520*	0.5	fixed 6 l	Ø60x400mm	2.75	-
34502	34522*	2	0/12 l	Ø110x410mm	4.5	with soft bag + cover
34503	34523*	3	0/12 l	Ø110x530mm	5.5	with soft bag + cover
34505	34525*	5	0/12 l	Ø140x550mm	9	with plastic bag + cover
34507	34527*	7	0/12 l	Ø140x680mm	11	with plastic bag + cover
GIMA code		PRESSURE REDUCERS				
34510	34530*	Integrated pressure reducer with valve for 2/3 litres				
34511	34531*	Integrated pressure reducer with valve for 5/7 litres				
34539		Cover protection for cylinders 2/3/5/7 litres				
GIMA code		OXYGEN THERAPY MASKS				
34166		Oxygen therapy mask - adult - with tube				
34167		Oxygen therapy mask - paediatric - with tube				
34168		HI-Oxygen therapy mask - adult - with tube				
34169		HI-Oxygen therapy mask - paediatric - with tube				
34276		Disposable oxy tube - 2m				
34172		Oxy glasses - nasal cannulas				

GENERAL PURPOSE CYLINDERS (empty)
Supplied with valve. Ideal for apparatus, anaesthesia can be used with pressure reducer code 34540-34541 or other standards.

GIMA code					OXYGEN CYLINDER WITH VALVE AND ACCESSORIES
UNI	NF BULL NOSE	DIN	BRITISH STANDARD	PIN INDEX	
34545	34555*	34565*	34575*	34585*	Oxygen Cylinder 5 l. with valve - Ø 140 x 550 mm
34548	34558*	34568*	34578*	34588*	Oxygen Cylinder 10 l. with valve - Ø 140 x 900 mm
34540	34550*	34560*	34570*	34580*	Pressure reducer
34541	34551*	34561*	34571*	34581*	Pressure reducer complete with flow meter and humidifier
34590	34590	34590	34590	34590	Humidifier autoclavable at 121° C

* Products not in stock, available in 15 days

34548
34545 CE 0434

34511 + 34539 CE 0434

34511

34540 CE 0434
Port for humidifier 34590

34541
Autoclavable humidifier 34590 included

34590

PRESSURE REDUCER with valve
Pressure reducer with valve and index flowmeter adjustable 0-12 l/min, suitable for cylinders 1 to 3 litres (code 34510/34530) and 5 to 7 litres (34511/34531).
Pressure reducer includes two stages, release valve and high pressure manometer.
Thread cylinder connection: E25/E17 conical refill thread connection UNI 21.7 x 1/14" or NF Ø 22.91 x 1.514
Apparatus to be connected with cylinder without valve.

• **34541 PRESSURE REDUCER - WITH FLOWMETER AND HUMIDIFIER**
Pressure reducer with release valve and H.P. manometer with adjustable ball flowmeter 0-15 l/min and autoclavable humidifier apparatus to be connected with cylinder valve.
• **34540 PRESSURE REDUCER**
Same as code 34541, with adjustable flow 0-15 l/m in 9 steps (1/1.5/2/3/4/6/9/12/15), LP* port, without flowmeter and humidifier.
• **34177 TROLLEY FOR OXYGEN CYLINDER - 5 l -7 l**
• **34178 TROLLEY FOR OXYGEN CYLINDER - 10 l**

* Low pressure port (for ventilators,...)

34178

■ AMBU® MARK IV RESUSCITATORS

Boys - 2
Adults-4
Adults large - 5
Prematures - 0A
Children - 0

• 34200 AMBU® MARK IV RESUSCITATOR - adult
Designed in accordance with the original double wall principle, the new 100% latex-free Ambu bags are more robust and provide users with exceptional visual and tactile lung condition feedback during manual resuscitation, making operation safer and more secure.
Built-in pressure limitation prevents compression if there is any resistance in the patient's airways.
Suitable for adults and children over 15 Kg (3 years).
Supplied with face mask N°5 and single shutter valve.
Autoclavable at 134°C.
Maximum volume 1300 ml.

• 34204 AMBU® MARK IV RESUSCITATOR - baby
Same as 34200, but suitable for neonates, infants and children up to 20 kg (approx 4-5 years).
Supplied with face mask N°0A and oxygen reservoir tube 250 mm.
Maximum volume 300 ml.

• 34217 AMBU MARK® IV RESUSCITATOR - adult with kit bag
Same as code 34200, supplied with helicoidal mouth-wedge, tongue holding forceps, 3 Guedel airways (small, medium and large) and oxygen tube, all fitted in a resistant nylon bag.

TRANSPARENT SILICONE AMBU FACE MASKS - Latex-free
The silicone face masks are self-inflating and the cuff pressure can be regulated for an easy and efficient seal. They are comfortable to grip and feature a thumb rest so rescuers can achieve a tight seal. Visual checks of bleeding, vomitus and spontaneous breathing can be made through the transparent dome. Autoclavable at 134°C

GIMA code	AMBU TRANSPARENT LATEX-FREE FACE MASKS AND RESERVOIR
34210	Ambu Baby N° 0A - newborns/prematures - blue*
34205	Ambu Baby N° 0 - newborns/children - blue
34206	Ambu N° 2 - boys - blue
34207	Ambu N° 3/4 - adults/small - blue
34208	Ambu N° 5 - adults - blue
34209	Ambu N° 6 - adults/large - blue
34215	Reservoir bag 1500 ml - adult

34217

■ GIMA RESUSCITATORS - DOUBLE CHAMBER, WITH QUALITY MASK

GIMA RESUSCITATOR BAG - with double chamber
Highly professional resuscitator bag with an antistatic autoclavable and self expanding rubber internal bag and with extra soft external bag.
Available in 2 models: adult and infant.
All models are equipped with connections in accordance with EN 1281-1 directives for peep valve, intubation fitting, oxygen reservoir, oxygen intake and face masks.
All equipped with removable and autoclavable valve.
Made in Italy.
• 34240 RESUSCITATOR BAG - adult
Supplied with facemask N° 4 - volume 1900 cc
• 34241 RESUSCITATOR BAG - with kit bag
Same as 34240 supplied with helicoidal mouth-wedge, tongue holding forceps, 3 Guedel airways (small, medium and large) and oxygen tube, all fitted in a resistant nylon bag.

34240 *UNI fully compatible reusable and autoclavable valve*
Size: 330 x Ø 125 mm
Capacity: 1900 cc
Connection for PEEP valve
All connectors comply with EN 1281-1 directives

34242

• 34242 RESUSCITATOR BAG - infant
Supplied with facemask N° 2 - volume 400 cc

34241

176
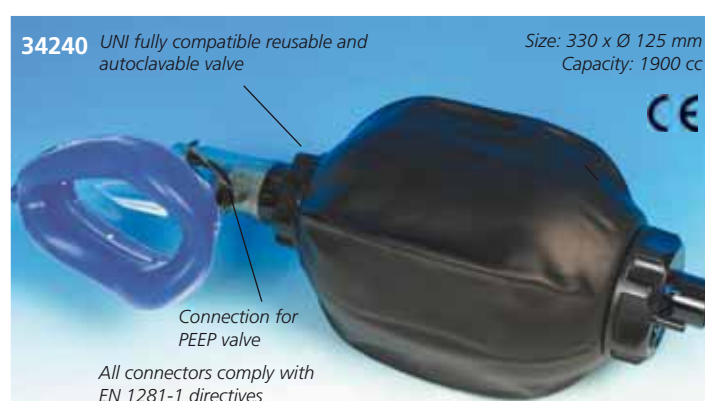
GIMA

GIMA RESUSCITATORS WITH DOUBLE STAGE VALVE

Connection for PEEP valve

Mask connection

34231 Resuscitator with kit bag and facemask N° 4

Intubation fitting

Oxygen reservoir connection and oxygen tube connection

GIMA RESUSCITATOR BAGS
The line offers 3 models of different size: adults, children, infants and an adult kit. All models are supplied with pressure relief valve and equipped with connector under EN 1281-1 directive for: peep valve, intubation fitting, reservoir, oxygen intake, face mask. Each resuscitator can be completely disassembled for cleaning and sterilization. Made in Italy.

• **34230 RESUSCITATOR BAG - with mask N°4 - adult**
With a special double stage valve at 54 m/bar. Volume 1800 cc.
• **34233 RESUSCITATOR BAG - with mask N°3 child**
With a special double stage valve at 54 m/bar. Volume 800 cc.
• **34232 RESUSCITATOR BAG - with mask N°2 - infant/newborn**
With a special double stage valve at 54 m/bar. Volume 400 cc.
• **34231 RESUSCITATOR BAG - adult with kit bag**
Same characteristic as code 34230. It is supplied with helicoidal mouth-wedge, tongue holding forceps, 3 Guedel airways (small, medium and large) oxygen tube, in a nylon bag.
• **34271 NYLON BAG - spare**

Double side overpressure valve at 54 m/bar avoids inconvenients in case of a regurgitation due to the presence of food in the stomach of the patient

Size 330 x Ø120 mm
Capacity = 1800 cc

Size 235 x Ø78 mm
Capacity=400 cc

34230

34232 Pediatric resuscitator with child facemask N° 2

SILICONE TRANSPARENT AUTOCLAVABLE RESUSCITATORS

SILICONE RESUSCITATORS - latex free
Transparent resuscitators made of silicone and polysulfone fully autoclavable at 134°C without limit.

• **34244 SILICONE RESUSCITATOR KIT - adult**
Supplied with silicone face mask N° 4, 60 cm H_2O pop-off valve, oxygen tube 2 metres, autoclavable reservoir valve and 2500 ml reservoir bag. Volume: 1600 ml.
• **34245 SILICONE RESUSCITATOR - adult**
Supplied with silicone face mask N° 4. Volume: 1600 ml.
• **34246 SILICONE RESUSCITATOR - child**
Supplied with silicone face mask N° 3 and 40 cm H_2O pop-off valve. Volume: 550 ml.
• **34247 SILICONE RESUSCITATOR - infant**
Supplied with silicone face mask N° 1 and 40 cm H_2O pop-off valve. Volume: 280 ml.

34245

DIN EN ISO 9002
Zert. - Nr 15 100 3001

0476

All resuscitators are LATEX FREE

Intake valve

0476 **34244**

0476 **34246**

0476 **34247**

RESUSCITATOR BAGS SINGLE-USE, SINGLE PATIENT - LATEX FREE

PVC Resuscitators - single patient use
Disposable resuscitator bag with disposable mask. Complete with no return membrane valve and connection for PEEP valve.
PVC disposable, transparent mask shaped to allow a perfect adhesion to the patient's face. Latex free.
• **34277 PVC RESUSCITATOR - adult**
Supplied with single use mask N° 5. Volume: 1600 ml
• **34248 PVC RESUSCITATOR - child**
Supplied with single use mask N° 3 and 40 cm H_2O pop-off valve. Volume: 500 ml
• **34249 PVC RESUSCITATOR - infant**
Supplied with single use mask N° 1 and 40 cm H_2O
Pop-off valve - Volume: 280 ml

DIN EN ISO 9002
Zert. - Nr 15 100 3001

34277

AMBU® SPUR II RESUSCITATOR - THE NEXT GENERATION

AMBU SPUR II RESUSCITATOR - single patient
Ambu SPUR II provides users with exceptional tactile and visual feedback during resuscitation. The bag is highly responsive, with minimal mechanical resistance. Furthermore the characteristic design provides optimum stroke volume with perfect recoil. Range includes infant, pediatric, and adult sizes. All Ambu SPUR II resuscitators come in individual, resealable plastic carrying bags, complete with mask, reservoir bag (34235, 34236 only) and oxygen tube. The bags themselves are color-coded for fast identification of infant, pediatric, and adult sizes.

- 34235 AMBU SPUR II ADULT - with face mask and reservoir bag
- 34236 AMBU SPUR II PEDIATRIC - with face mask and reservoir bag
- 34237 AMBU SPUR II INFANT - with face mask

Thin-walled compression bag allows for lung compliance and "feel"

Integrated handle for user comfort and uniform compression

Unique single-shutter valve system for reliable functionality

Swivel between valve and mask permits 360° positioning of the Ambu SPUR II in relation to the patient

SafeGrip™ surface for secure handling in stressful environments

Medication port permits quick medication delivery without disconnecting the Ambu SPUR II from the ET tube

TECHNICAL SPECIFICATIONS

		34235	34236	34237
Suitable for		adult > 30 Kg	baby 10 to 30 Kg	infant < 10 Kg
Stroke volume	1 hand	800 ml	450 ml	150 ml
	2 hand	1475 ml		
Resuscitator volume		1475 ml	635 ml	220 ml
Size (Lenght x diameter)		295x127 mm	234x99 mm	168x71 mm
Bag reservoir volume		2600 ml	1500 ml	-
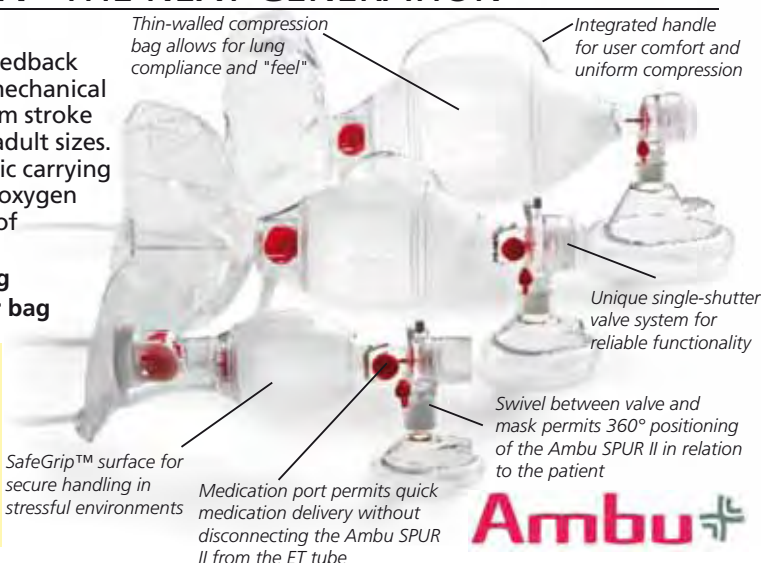
GIMA SILICONE AUTOCLAVABLE FACEMASKS AND ACCESSORIES

GIMA AUTOCLAVABLE FACE MASKS
Made in silicone and polysulfone (sizes 3, 4, and 5) or all in silicone (sizes 0, 1 and 2) Completely transparent, allowing a total visibility. They can be used with any resuscitator and lung ventilator

GIMA PLUS AUTOCLAVABLE FACE MASKS - ANAESTHESIA MASKS
Provided with blue silicone inflating cuff and unbreakable transparent polysulfone hood. They can be used with any resuscitator or lung ventilator. Available in 5 sizes. Latex free.

INJECTABLE AIR CUSHION FACE MASKS - ANAESTHESIA MASKS
Quality disposable single patient face masks provided of connector for air inflation and colour coded ring.

AUTOCLAVABLE UP TO 40 TIMES

AUTOCLAVABLE UP TO 120 TIMES

SINGLE PATIENT

GIMA code	SILICONE FACE MASKS LATEX FREE	GIMA code	GIMA PLUS FACE MASKS LATEX FREE	GIMA code	GIMA SINGLE PATIENT FACE MASKS LATEX FREE
34220	Facemask N° 0 - infant/small	34252	Face mask N°2 - child/small	34440	Facemask N° 0 - infant small
34221	Facemask N° 1 - infant/large	34253	Face mask N°3 - child/large	34441	Facemask N° 1 - infant large
34222	Facemask N° 2 - child/small	34254	Face mask N°4 - adult/small	34442	Facemask N° 2 - child small
34223	Facemask N° 3 - child/large	34255	Face mask N°5 - adult/large	34443	Facemask N° 3 - child large
34224	Facemask N° 4 - adults/small	34250	Face mask N°6 - adult/extralarge	34444	Facemask N° 4 - adult small
34225	Facemask N° 5 - adults/large		**HIGH QUALITY**	34445	Facemask N° 5 - adult large

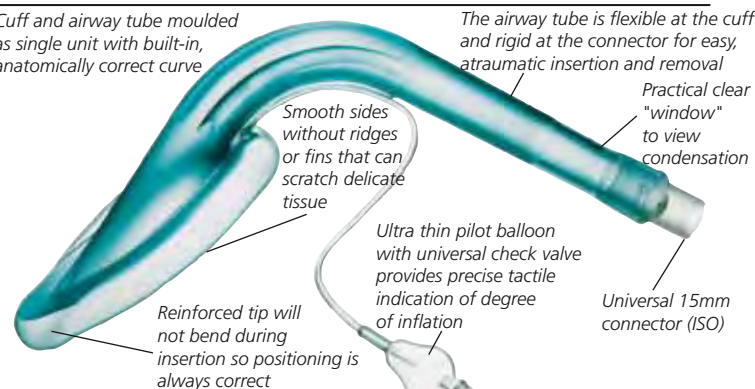| GIMA code	OXYGEN RESERVOIR	To be used with GIMA codes
34275	OXYGEN RESERVOIR - 2500 ml - without valve	34244 - 34245 - 34277 - 34200 (need valve 34279), 34230 - 34240, AMBU, LAERDAL and TECNOGAZ resuscitators
34257	SINGLE USE OXYGEN RESERVOIR - 1000 ml - with valve	34246 - 34247 - 34267 - 34204 - 34232 - 34233 - 34242
34258	SINGLE USE OXYGEN RESERVOIR - 2500 ml - with valve	34244 - 34245 - 34277 - 34200 - 34230 - 34240
34279	RESERVOIR VALVE - autoclavable	34275
	VALVES AND ACCESSORIES FOR RESUSCITATORS	To be used with GIMA codes
34259	NON-REBREATHING VALVE with 60 cm H$_2$O Pop-off - autoclav.	34244 - 34245 - 34277
34227	PEEP VALVE - 30 mm (5-20 cm H$_2$O)	34244 - 34245 - 34277 (need adaptor 34228)
34228	PEEP VALVE ADAPTOR - internal Ø 22 mm, external Ø 30 mm	34230 - 34240 - 34200
34276	OXYGEN TUBE - 2 m	34227
34271	NYLON BAG	All resuscitators
34256	REAR VALVE (intake valve)	All resuscitators 34244 - 34245 - 34246 - 34247

GIMA

■ AMBU® AURAONCE™ DISPOSABLE LARYNGEAL MASK

AMBU® AURAONCE™ DISPOSABLE LARYNGEAL MASKS
AuraOnce has a special curve that carefully replicates natural human anatomy. Molded directly into the tube, the unique shape makes correct insertion easy without abrading the upper airway. AuraOnce's curve also ensures that the patient's head remains in a natural supine position when the mask is in use without extra stress on the upper jaw. Moreover, Auraonce is specially designed to give the airway tube the flexibility needed to adapt to individual anatomical variances and wide range of head positions. AuraOnce has a D-shaped airway tube to give a firm and ergonomical grip during insertion. In short, positioning is fast and accurate, with least possible internal pressure.
- Packaged sterile and ready for use
- Colour coded pouch with directions for use
- Available in 5 sizes fitting a wide range of patients.

Cuff and airway tube moulded as single unit with built-in, anatomically correct curve

The airway tube is flexible at the cuff and rigid at the connector for easy, atraumatic insertion and removal

Practical clear "window" to view condensation

Smooth sides without ridges or fins that can scratch delicate tissue

Ultra thin pilot balloon with universal check valve provides precise tactile indication of degree of inflation

Universal 15mm connector (ISO)

Reinforced tip will not bend during insertion so positioning is always correct

TECHNICAL SPECIFICATIONS
Maximum intra-cuff pressure:	60 cm H_2O
Airway connector:	15 mm male (ISO)
Tube/cuff material.	PVC

Code	AMBU® AURAONCE™	Patient weight	Maximum cuff inflation volume
34406	Laryngeal Mask N 2 - pink	10-20 kg	10 ml
34407	Laryngeal Mask N 2.5 - pink	20-30 kg	14 ml
34408	Laryngeal Mask N 3 - green	30-50 kg	20 ml
34409	Laryngeal Mask N 4 - yellow	50-70kg	30 ml
34410	Laryngeal Mask N 5 - blue	70-100 kg	40 ml

■ LARYNGEAL MASKS FOR SAFE AND EASY INTUBATION

SILICONE REUSABLE LARYNGEAL AIRWAY MASK
1. Optimal anatomical design ensure convenient and safe insertion. Universal 15 mm connector. **2.** See-through flexible airway tube, clear guideline for easy insertion. **3.** Tiny protruding bumps minimize the vomiting substance flowing from exophagus and into the lung. **4.** Seamless cuff formation offers maximum comfort. **5.** Strengthened oval tip prevents possible bending during insertion. **6.** Thin walled pilot balloon facilitates the sensing of the inflation tube.

C€ 0434

Each laryngeal airway mask is individually serialized for identification and traceability purposes

GIMA code	Size	Patient range	Weight range	Cuff volume (ml. of air)
34424	1.5	infant	5-10 kg	7 ml
34425	2	infant	10-20 kg	10 ml
34426	2.5	child	20-30 kg	14 ml
34427	3	boy	30-50 kg	20 ml
34428	4	adult	50-70 kg	30 ml
34429	5	adult	>70 kg	40 ml

1
2
3
4
5
6

AUTOCLAVABLE UP TO 40 TIMES

■ STERILE GUEDEL AIRWAYS

C€ 0434

GIMA code	GUEDEL AIRWAYS - STERILE FLEXIBLE, TRANSPARENT, GUEDEL AIRWAYS	Minimum order
34431●	Guedel airway 40 mm - pink - newborn - 000	box of 10
34432●	Guedel airway 50 mm - blue - newborn - 00	box of 10
34433●	Guedel airway 60 mm - black - child - 0	box of 10
34434▲	Guedel airway 70 mm - white - boy - 1	box of 10
34435▲	Guedel airway 80 mm - green - adult/small - 2	box of 10
34436●	Guedel airway 90 mm - yellow - adult/small - 3	box of 10
34437●	Guedel airway 100 mm - red - adult/medium - 4	box of 10
34438●	Guedel airway 110 mm - orange - adult/large -5	box of 10
34439	Mixed Guedel airways pack of 1 pcs. of ● marked and 2 pcs of ▲ marked airways for a total of 10 pcs.	

■ STERILE CUFFED AND UNCUFFED ENDOTRACHEAL TUBES

GIMA code	UNCUFFED ENDOTRACHEAL TUBES - STERILE	Minimum order
34385	Uncuffed Endotracheal tube Ø 3mm - 16.5 cm	box of 10
34386	Uncuffed Endotracheal tube Ø 4mm - 21 cm	box of 10

C€ 0123

GIMA code	CUFFED ENDOTRACHEAL TUBES - STERILE	Minimum order
34387	Cuffed Endotracheal tube Ø 3.5 mm - 18.5 cm	box of 10
34388	Cuffed Endotracheal tube Ø 5 mm - 24.5 cm	box of 10
34389	Cuffed Endotracheal tube Ø 6 mm - 28.5 cm	box of 10
34390	Cuffed Endotracheal tube Ø 6.5 mm - 29.5 cm	box of 10
34391	Cuffed Endotracheal tube Ø 7 mm - 31 cm	box of 10
34392	Cuffed Endotracheal tube Ø 7.5 mm - 31.5 cm	box of 10
34393	Cuffed Endotracheal tube Ø 8 mm - 33 cm	box of 10
34394	Cuffed Endotracheal tube Ø 8.5 mm - 33 cm	box of 10
34395	Cuffed Endotracheal tube Ø 9 mm - 33 cm	box of 10
34396	Cuffed Endotracheal tube Ø 10 mm - 33 cm	box of 10

Ø: Internal diameter

STANDARD LARYNGOSCOPE BLADES AND SETS

Mc INTOSH BLADES

34321
34319
34320
34318

MILLER BLADES

34311   OXY connection   34310

34303
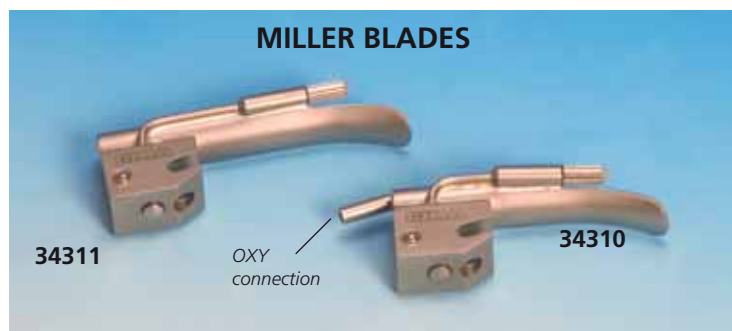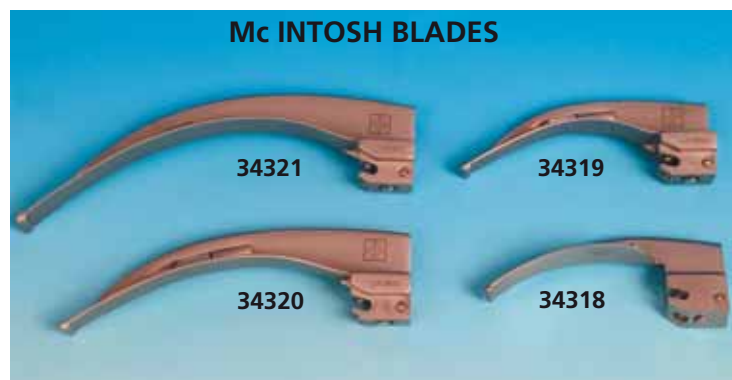
Great features of the unique GIMA blades
- Standard bulb gives cool bright illumination
- Light ergonomic, satin finish handle
- Stainless Steel contacts guarantee long working life
- Easy sterilization without removal of bulb
- Full range of McIntosh & Miller blades, latex free
- ISO 7376:2003 fittings allow use of blades with existing handles
- Set is packaged in an anti-shock case and in cardboard box

GIMA code	STANDARD LARYNGOSCOPE SETS (HANDLE+BLADES)	
34301	Pediatric set	2 blades MILLER 0-1
34305	Pediatric set	3 blades MILLER 0-1, Mc INTOSH 0
34306	Doctor set	3 blades MILLER 1, 2, 3
34302	Adult set	3 blades Mc INTOSH 2-3-4
34303	Adult set	4 blades Mc INTOSH 1-2-3-4

GIMA code	BULBS AND HANDLES FOR LARYNGOSCOPE - ROUGH	
34352	Small handle - pediatric	
34354	Large handle - adult	
34324	Small Bulbs for MAC N°0 and MILLER N°00,0,1	
34325	Large Bulbs for MAC N°1,2,3,4 and MILLER N°2,3 *compatible with Kawe and Riester*	

34324   34325   34352   34354

GIMA code	STANDARD BLADES	Overall Length mm	Distal Width mm
34310	Blade N° 00 MILLER OXY - premature	65	12.5
34311	Blade N° 0 MILLER - premature/newborn	75.5	11.5
34312	Blade N° 1 MILLER - babies	103	11.5
34313	Blade N° 2 MILLER - adults	155	16.5
34314	Blade N° 3 MILLER - adults/large	195	16.5
34317	Blade N° 0 Mc INTOSH - newborn	80	13
34318	Blade N° 1 Mc INTOSH - babies	90	14
34319	Blade N° 2 Mc INTOSH - infants	100	14
34320	Blade N° 3 Mc INTOSH - adults	130	18
34321	Blade N° 4 Mc INTOSH - adults/large	156	18

DISPOSABLE F.O. LARYNGOSCOPE BLADES MILLER AND MC INTOSH

SINGLE-PATIENT USE LARYNGOSCOPE F.O. BLADES
Choice of 5 different blades: Mc Intosh N° 2,3,4 and Miller N° 0,1.
All blades are tested for tensile strength.
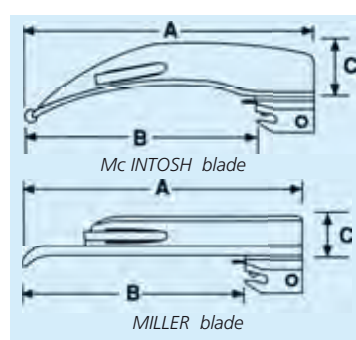Individually packed, not sterile.

• **34381 EMERGENCY PACK:** plastic handle +3 disposable blades Mc Intosh N° 2,3,4
• **34382 NYLON BAG - empty**
• **34384 EMERGENCY CASE:** plastic handle+6 disposable blades

COMPATIBILITY WITH ALL "GREEN" F.O. SYSTEMS

DISPOSABLE BLADES

34377
34376
34366
34365
34381

GIMA code	DISPOSABLE BLADE NOT STERILE	Overall Length mm	Distal Width mm
34481	Metal handle		
34364	Plastic handle		
34365	N° 0 Miller - premature	90	22
34366	N° 1 Miller - children	103	22
34375	N° 2 Mc Intosh - infants	104	24
34376	N° 3 Mc Intosh - adults	132	24
34377	N° 4 Mc Intosh - adults large	156	24
34359	Bulb for plastic - handle		

34384

FIBRE OPTIC LARYNGOSCOPES: "GIMA GREEN" LINE

This range of fibre optic blades conforms to the standard ISO 7376:2003, and fit on handles from the other brands applying the standard such as HEINE, RIESTER, WELCH ALLYN, MEDICON,... The halogen light source in the handle is conducted to the tip of the blade through an extra large fibre optic bundle (external Ø 5.0 mm) to produce a cold light, brighter illumination. All F.O. bundles can be easily removed during sterilization procedures to prevent damages and assure a longer life to the unit. The range includes both Mc Intosh and Miller blades, handles with standard or re-chargeable batteries.

NEW HANDLES WITH RE-CHARGEABLE BATTERIES

COMPATIBILITY WITH ALL "GREEN" F.O. SYSTEMS

Laringoscopi a Fibre Ottiche

34452

Mc INTOSH blade

MILLER blade

34496 + 34487 + 34488

Charging time 6 hours (34490) and 4 hours (34489)

GIMA code	"GIMA GREEN" FIBRE OPTIC BLADES	A	B	C
34460	MILLER N° 00 OXY blade - Premature	65	40	8.5
34461	MILLER N° 0 blade - Newborn	75	50	8.5
34462	MILLER N° 1 blade - Infant	102	77	8.5
34463	MILLER N° 2 blade - Child	153	128	11
34464	MILLER N° 3 blade - Adult	195	170	11
34469	Mc INTOSH N° 0 blade - Newborn	80	55	13
34470	Mc INTOSH N° 1 blade - Infant	92	67	14
34471	Mc INTOSH N° 2 blade - Child	100	75	17
34472	Mc INTOSH N° 3 blade - Adult	130	105	18
34473	Mc INTOSH N° 4 blade - Adult large	155	130	18
34474	Mc INTOSH N° 5 blade - Adult x-large	175	150	23

GIMA code	"GIMA GREEN" FIBRE OPTIC SETS
34450	Empty box without sponge
34451	Pediatric set 2 blades Miller 0-1
34454	Pediatric set 3 blades Miller 0-1, Mc. Intosh 0
34452	Adult set 3 blades Mc. Intosh 2-3-4
34453	Adult set 4 blades Mc. Intosh 1-2-3-4
34455	Doctor set 3 blades Miller 1-2-3
	"GIMA GREEN" STANDARD HANDLES AND ACCESSORIES
34480	Pediatric metal handle (2xAA batteries) - 2.5 V
34481	Adult metal handle (2xC batteries) - 2.5 V
34364	Adult plastic handle (2xC batteries)
34485	Halogen bulb 2.5 V (minimum order 6 pcs)
34486	F.O. Light guide for "GIMA Green" - specify code
	"GIMA GREEN" RE-CHARGEABLE HANDLES AND ACCESSORIES
34487	Pediatric re-chargeable metal handle (3.5 V)
34488	Adult re-chargeable metal handle (3.5 V)
34496	Charging station (including pediatric adaptor, wall support)
34489	Pediatric re-chargeable battery 3.5 V/700 mAh
34490	Adult re-chargeable battery 3.5 V/1300 mAh
34491	Halogen Bulb 3.5V

FIBRE OPTIC SET FOR DIFFICULT INTUBATIONS

• **34492 FLEXI F.O. SET**
Deluxe boxed set including one F.O. handle, one F.O. blade N° 3 Mc-Intosh (130x18 mm) for difficult intubations and bulb. The movable blade tip facilitates lifting of the epiglottis and enables a perfect visibility at the intubation process even in case of difficult anatomical conditions. A better visibility and a lower lever force reduce the risk of injury of the larynx and the teeth.
Autoclavable to 135° C.
- Stainless steel construction, matt finish
- Can be used with all Green Spec Handles
- Compatible to ISO 7376:2003 Green Standards
- Channel provides improved viewing area
- 4.0 mm fiber b undles for maximum light output
• **34495 FLEXI F.O. SET 2 BLADES**
Same as 34492 but with two blades: N°3 and N°4 Mc-Intosh.
• **34493 FLEXI F.O. BLADE N° 3 Mc-Intosh**
• **34494 FLEXI F.O. BLADE N° 4 Mc-Intosh** (155x18 mm)
• **34485 BULB 2.5 V - spare**

34492

MASK FOR MOUTH-TO-MOUTH REANIMATION

CPR MASK

CE 0476

AIRWAY

Easy and quick to use in any emergency

Soft PVC contour for tight seal to any patient's face

34216

34218

34278

Silicon 100% mask

• **34216 LIFEKEY MASK**
Pocket mask for mouth-to-mouth reanimation.
Its special one-direction valve allows oxygen to flow straight to the patient and minimizes risks of cross-contamination Single-use, sterile, made in atoxic transparent material, easy to use and carry. Suitable for adults and children.
minimum order: pack 10 pcs.

• **34218 CPR MASK - pocket resuscitator**
The CPR pocket mask is a non-invasive, latex free mask with inflatable cuff and an integral non-rebreathing valve and efficient filter to prevent direct mouth contact with the patient's face when providing mouth-to-mouth resuscitation. It can be used on adult, child and infant. Supplied in a compact plastic box with a corrugated tube for an easier use.

• **34278 AIRWAY - for adult/children**
Composed of a mouthpiece, a special one-way non re-breathing valve and a transparent cardiopulmonary resuscitation mask.
It protects the rescuer from the patient's exhaled gases, minimizing the risk of contamination. The special valve allows oxygen to flow freely in one direction straight to the patient, while the noxious vapors exhaled by the patient exit through the side port of the valve, ensuring maximum efficiency and hygiene. Mask's transparency allows the rescuer to detect any matter regurgitated by the patient.
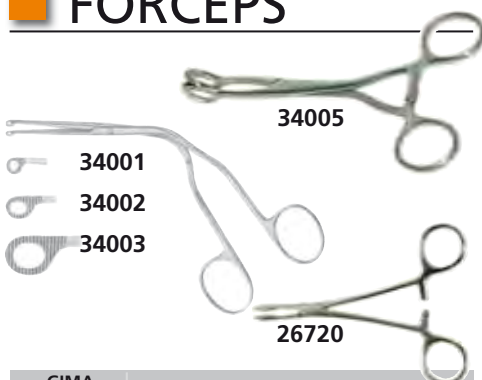
Ambu

GIMA

FORCEPS

34005

34001
34002
34003

26720

GIMA code	STAINLESS STEEL FORCEPS
34001	Magill Forceps - 15 cm
34002	Magill Forceps - 20 cm
34003	Magill Forceps - 25 cm
34005	Collin Forceps - 20 cm
26720	Pean Forceps - 16 cm
26710	Pean Forceps - 20 cm

MOUTH OPENERS

34272

34273

34274

GIMA code	PLASTIC DEVICES
34273	Teeth screw driver
34272	Helicoidal mouth opener Pinocchio
34274	Tongue holding forceps

STYLETS

Intubation stylets:
- Coated with low friction material
- Colour coded for easy identification
- Malleable enough
- Can be easily lenghtened or shortened
- Sold in box of 25
- Individually packed
- Non sterile

Handle

Adjustable stop

Single non sterile pouch - box of 25 pouches

Round tip

GIMA code	Size	Colour	Ø mm	Length mm
34397	infant	blue	2.0	306
34398	child	grey	2.6	425
34399	adult	green	3.3	465

EMERGENCY SCISSORS

GIMA code	EMERGENCY SCISSORS
34127	Emergency Scissors - 23.5 cm x 10.8 cm
34128	Universal Scissors - 15 cm
34126	Universal Scissors - 20 cm
34125	Lister Bandage Scissors - 11 cm
34129	Lister Bandage Scissors - 15 cm
34130	Lister Bandage Scissors - 18 cm

Autoclavable Stainless steel AISI 420

Weight: 540 g.

34128

34126

34127

All purpose, first aid scissors, small enough to fit in the pocket of an emergency operator, easily cuts bandages, leather and plaster casts. Plastic coloured finger-contour handles for maximum comfort. Autoclavable at 136°C

Supplied with transport bag

Made in Italy

34129

BURNFREE® - BURN CARE PRODUCTS

CE

34872

FDA COMPLIANT

34871

34870

34875

34876   **34878**

34884

A complete range of burn care products with superior benefits:
- Dissipates heat on contact
- Cools the burn site, relieves pain, calms the burn victim, helps stop the burn process.
- Covers the burn, helps to prevent contamination.

Sterile burn and wounds dressings
Made of a soft open-cell foam, saturated with Burnfree® gel. Sterile to reduce risk of contamination or infection.

Pain relieving gel
Ideal for all minor burns (including sunburns), cuts and abrasions, available in bottle or single use dose 3.5 g.

GIMA code	BURNFREE® PRODUCTS
34869	Burn Dressing - 5x5 cm - box of 120 pcs.
34870	Burn Dressing - 5x15 cm - box of 10 pcs.
34871	Burn Dressing - 10x10 cm - box of 10 pcs.
34872	Burn Dressing - 20x20 cm - box of 5 pcs.
34873	Burn Dressing - 30x30 cm - box of 20 pcs.
34875	Pain Relieving Gel - bottle 118 ml
34876	Pain Relieving Gel - 3.5 g packs - box of 20 pcs.
34877	Pain Relieving Gel - 3.5 g packs - box of 2000 pcs
34884	Pocket Burn Kit (1 sterile dressing 5x5, 2 gel bags 3.5 g , 2 gel bags 0.9 g)
34878	Burn Kit (2 sterile dressing 5x15 cm, 1 gel bottle 118 ml, 20 gel bags 3.5g and 4 rollers gauzes)

HYPOTHERMIC BLANKET

• **34086 HYPOTHERMIC BLANKET**
Reflects and retains over 80% of radiated body heat to keep a person warm and protected even at subzero temperature. Waterproof, reusable, wind proof, lightweight.

Made of polypropylene Fralom fibre coupled to a metallized polyethylene fibre.

Size 200x150 cm

BURNFREE® - FIRE BLANKET

BURNFREE FIRE/TRAUMA BLANKETS
Provides immediate physical, smoke and heat shielding protection from fire.
Cools and moistens burns.
Supplied in barrel bag with strap

BURN FREE

GIMA code	Blanket Size	Weight	Barrel bag size
34879	91x76 cm	2,3 kg	41x33x5 cm
34880	183x152 cm	6.9 kg - 15 lbs	51x21.5x22.3 cm
34881	244x152 cm	10.9 kg	51x21x22.3 cm

ISOTHERMIC COVER

• **34085 EMERGENCY COVER**
Suitable for protection against cold and heat. Silver side in keeps the warmth of the body, gold side out reflects sunbeams.

Size: 160x210 cm. Weight: 67 g

FIRE RETARDANT BLANKET

• **34087 FIRE RETARDANT BLANKET**
Made in glass fibre. Can be used to extinguish small fires.
Size: 150x180 cm

34087

INSTANT ICE: SPRAY OR BAG IN TNT OR PE

CE 0476   **TNT**

PE

34110

34111   **34112**

• **34110 INSTANT ICE - TNT 14x18 cm bag (non woven fabric)**
• **34111 INSTANT ICE - PE 14x18 cm bag (polyethylene)**
                              minimum order: pack of 25 bags.
Icy-pack "instant ice" is recommended for cryotherapy.
Excellent in case of traumas to soothe the pain and to prevent haematomas, swellings, etc.
Easy and quick to use anywhere and anytime.
Press the bag to break the inner bubble and shake to mix contents. The blend you obtain drops temperature of the pack down. Activates at -6°C, reaches 0°C in 30 minutes (at environment temperature of 20 °C).
• **34112 SPRAY INSTANT ICE - bottle 400 ml.**
Ecological, useful for small bruises, haematomas or trauma, in first aid or sport applications. Spray on the injured area at 20 cm distance. (see the reference temperature chart).
Content: Ammonium nitrate + water.

EMERGENCY KITS COMPLETE WITH STANDARD EMERGENCY DEVICES

27171

34163

*Capacious bag, made in water proof, anti-scratch cordura, with yellow refractive strips.
With 1 large central compartment, 1 front and 3 lateral pockets. Can be carried on shoulders (braces) or hand (2 handles)*

34156

GIMA presents 8 different emergency kits available in aluminium case, cordura bag, cordura rucksack.

EMERGENCY RUCKSACK:
- 27171 LOGIC 2 RUCK SACK - empty - 40x25xh47 cm
- 34162 "GIMA 8" EMERGENCY RUCKSACK - filled
- 34163 "GIMA 9" EMERGENCY RUCKSACK - filled
- 34164 "GIMA 10" EMERGENCY RUCKSACK - filled - without cylinder

EMERGENCY ALUMINIUM CASE:
- 34159 ALUMINIUM CASE - empty - 40x35x10 cm
- 34160 "GIMA 1" EMERGENCY CASE - filled
- 34161 "GIMA 2" EMERGENCY CASE - filled

EMERGENCY BAG:
- 27165 EMERGENCY BAG - empty - 35x50x23 cm
- 34155 "GIMA 6" EMERGENCY BAG - filled - without cylinder
- 34156 "GIMA 4" EMERGENCY BAG - filled
- 34157 "GIMA 5" EMERGENCY BAG - filled

PERSONALIZED EMERGENCY KIT
WE CAN PROVIDE KITS WITH YOUR REQUESTED PRODUCTS.
Code 34158 minimum order 5 kits

34161   *Aluminium emergency case*

"GIMA" EMERGENCY KITS: STANDARD ACCESSORIES	CASES		BAGS			RUCKSACKS		
	GIMA 1 34160	GIMA 2 34161	GIMA 4 34156	GIMA 5 34157	GIMA 6 34155	GIMA 8 34162	GIMA 9 34163	GIMA 10 34164
Steel 0.5 l rechargeable oxygen cylinder (empty), with bronze reducer high pressure manometer and litre-dosage distributor. UNI standard	•	•	•	•		•	•	
Silicone resuscitator bag with facemask N° 4	•	•				•	•	•
Autoclavablae resuscitator bag with facemask N°4			•	•	•			
Silicone facemask N°2 - pediatry		•				•	•	•
3 Guedel airways small-medium-large	•	•	•	•	•	•	•	•
Teeth screw driver and tongue holding forceps	•	•				•	•	•
Helicoidal mouthwedge and tongue holding forceps			•	•	•			
Atoxic tubing for connection to oxygen cylinder	•	•	•	•	•	•	•	•
Laryngoscope with 3 single use blades			•			•	•	
Laryngoscope with 3 s/s Mc-Intosh blades				•			•	•
Palm aneroid sphygmomanometer - London	•					•	•	•
Aneroid sphygmomanometer			•	•	•			
Stethoscope			•	•	•			
Rappaport Stethoscope	•					•	•	•
Universal scissors			•	•	•	•	•	•
Res-q-Vac hand suction unit			•			•	•	•
Magill forceps			•			•	•	•
Pen light			•			•	•	•
Tourniquet Gima			•			•	•	•
Oxygen mask	•	•	•	•		•	•	
Emergency cover	•					•	•	•
Burn Free dressing 10x10	•					•	•	•
5 coloured pouches						•	•	•

INTUBATION BAG WITH EMERGENCY ACCESSORIES

- 27133 INTUBATION BAG - empty
- 34152 INTUBATION KIT - complete
- 34153 INTUBATION KIT F.O. - complete

Compact nylon bag suitable for various uses: 2 internal zip pockets, 9 elastic retainers for instruments, made in water-proof anti-scratch material, blue colour.
Size: 32x22.5x h 7.5 cm.

34152

2 zip pockets

STANDARD ACCESSORIES	34152	34153
Mc Intosh Laryngoscope s/s blades N 1, 2, 3	3	3 F.O.
Laryngoscope metal handle	1	1
Magill forceps	1	2
Tongue holding forceps	1	1
Guedel cannula	3	5
Mouth opener	1	1
Scissors cm 14.5	1	1
Endotracheal tubes	-	4

GIMA RESUSCITATION KITS

AVAILABLE WITH OR WITHOUT CYLINDER

• 34181 SPEED 1 RESUSCITATION KIT - UNI cylinder
• 34182 SPEED 2 RESUSCITATION KIT - NF cylinder
• 34183 SPEED 3 RESUSCITATION KIT - without cylinder
• 34180 SPEED EMPTY CASE - with sponge
• 34222 FACEMASK N° 2 - child small

First aid kits for reanimation, very useful for medical and dental rooms, sport clubs, factories, ambulances…
Case made of anti-shock plastic.
Size: 43 x 32 x 11 cm. Made in Italy.

STANDARD ACCESSORIES	SPEED 1	SPEED 2	SPEED 3
Silicone resuscitation bag - autoclavable	•	•	•
Silicone Face mask n° 4	•	•	•
Oxygen cylinder 0.5 l (empty). UNI standard	•		
Oxygen cylinder 0.5 l (empty). NF standard		•	
High pressure manometer	•	•	
Guedel airways (small + medium + large)	•	•	•
Helicoidal mouthwedge + Tongue holding forceps	•	•	•
Atoxing tubing for connection to oxygen cylinder	•	•	•
Plastic case	•	•	•

34181

SPLINTER REMOVAL KIT

Small metallic splinters, eye tool device

34192

34190

Anti-abrasive nylon loop   *"NEODIMIO" magnetic point*

• **34190 SPLINTER REMOVAL KIT**
Includes everything to remove splinters and for first aid medications. In a polypropylene box size 235x190x43 mm:
1 Eye wash solution 100 ml with an eye glass
1 magnifying glass, 2 sterile gauze pads 18x40 cm
1 Professional removal pencil, 1 mirror.
1 stainless steel tweezers 11.5 cm
• **34192 PROFESSIONAL REMOVAL PENCIL**
Small metallic splinters eye tool remover. On one side you have a NEODIMIO magnetic point, which enables you to withdraw all metallic splinters avoiding any dangerous eventual eye approach. On the other side you have an antiabrasive nylon loop which is used for non metallic splinters. The body is made of anodised aluminium and the neoprene seals guarantee a better pencil hold. Supplied in a box and CE marked.

EYE WASH SYSTEMS

• **34889 DROP - eye wash station**
It contains, in a thermo-formed wall kit, all necessary items for an efficent first emergency eye wash: 2 sterile saline solutions of 500 ml, 2 integrated eye cups and one mirror.

• **34891 BURN FREE EYE WASH - personal and portable - 240 ml bottle**
Innovative, cost effective

34889

answer for emergency eye wash needs. This multi-use eye wash is a saline solution which remains sterile to the very last drop. It is now easier and quicker to flush eyes when a standard eye wash station is not

34891

available. It is hand held and allows for flushing of the eye constantly for more than 15 minutes with just one 240 ml spray bottle. This method of applications meets or exceeds all regulatory standards.
The gentle spray cleans and thoroughly flushes the eye.

34891

FIRST AID FAMILY CASE

Case in polypropylene

Size: 235 x 190 x 43 mm

34136

• **34136 FAMILY FIRST AID CASE**
• **34450 EMPTY CASE**
Small first aid case suitable for use anywhere and anytime: (at home or office, in the car or boat...). Made in Italy

STANDARD ACCESSORIES	
2 sterile gauze pads 18x40 cm	3 antiseptic wipes
1 pair of scissors. 1 plastic tweezers	1 adhesive dressing 10 x 6 cm
1 sterile bandage 60x40 cm	1 gauze bandage 5 cm
1 cotton wool pack 5 g	1 adhesive plaster roll 2 cm x 1m
1 pack of 10 adhesive plasters	1 pair of protection gloves
1 tissue pack 10 pcs	Guidance Leaflet 5 languages

FIRST AID CASE

• **34194 SMALL KIT - plastic case**
Size: 250 x 190x90 mm - 1.4 kg
See content of kit at page 186
• **34188 REFILL PACK for 34194**
• **34139 EMPTY PLASTIC CASE**
250x190x90 mm

*Advised for offices of 3-5 people
Meets Italian law 388-Art. 2*

34194

FIRST AID PLASTIC CASES AND METAL CABINETS

Advised for offices of 6-10 people

• **34196 MEDIUM KIT - plastic case** • **34197 MEDIUM KIT - metal cabinet**
Size: 275x240x123 mm - 2 kg   Size: 370x300x140 mm - 3.8 kg
• **34141 EMPTY METAL CABINET** 370x300x140 mm

Advised for offices of 10-30 people
Meets Italian law 388-Art. 1

• **34198 LARGE KIT - plastic case** • **34199 LARGE KIT - metal cabinet**
Size: 395x270x135 mm - 6.2 kg   Size: 460x300x140 mm - 7.5 kg
• **34189 REFILL PACK** for code 34198-34199
without sphygmomanometer
• **34138 EMPTY PLASTIC CASE** 395x270x135 mm

• **34143 METAL CABINET**
Supplied with 3 internal metal shelves, removable bottle
floor support, 2 small shelves on the door, lock and key.
Size 402x582x202 mm - 12.9 kg
• **34145 EMPTY METAL CABINET** 402x582x202 mm

STANDARD CASES / CABINETS CONTENT	34194	34196 34197	34198 34199	34143	34151
Bags liquid soap		3		3	
Bags antiseptic wipes		3		3	
Bottle antiseptic solution 125 ml	1	1			
Bottle antiseptic solution 250 ml				1	
Bottle antiseptic solution 500 ml			2	3	2
Oxygenated water bottle				1	
Ammonia bag		2		2	
Pair protective gloves, sterile	2	2	5	5	5
Box of 10 assorted plasters	1	1	2		2
Box of 100 assorted plasters Plastosan				1	
Box of 100 assorted 7x2 cm Plastosan				1	
Adhesive plaster roll 2,5 cm x 5 m	1	1	2	2	2
Elastic bandage with clip 4,5 cm x 7 m				1	
Pack of 8 assorted gauze bandages				1	
Gauze bandage 10 cm x 3,5 m	1	1			
Tubular net gauze			1	1	1
Pack of sterile compress 10 x 10 cm	3	3	10	10	10
Pack of sterile compress 18 x 40 cm	1	3	2	6	2
Pack of cotton wool	1	1	1	3	1
Mask with face shield			1	1	1
Pair of scissors cm 14,5	1	1	1	1	1
Sterile forceps	1	1	2	2	2
Haemostatic lacet	1	1	3	3	3
Sphygmomanometer + Stethoscope			1	1	1
Sterile blanket 40 x 60 cm			1	2	2
Pack of instant ice, single use	1	1	2	2	2
Digital thermometer			1	1	1
Trash bag	1	1	2	5	2
First aid multilanguage booklet	1	1	1	1	1
Guidance leaflet	1	1	1	1	1
Irrigating solution 250 ml	1	1			
Irrigating solution 500 ml			3	3	3
Triangular blanket 96x96x136 cm		1		4	
Isothermic blanket gold/silver 160x210cm				1	
Sterile burn gel sachet 3.5 g				3	
Compressive Emocontrol bandage				1	
Pinocchio helicoidal open mouth Vento				1	
Autoclavable resuscitator with facemask N° 4					1
Oxygen bottle 0.5 l empty - UNI standard					1
Guedel airways					3
Atoxic tube for oxygen					1
Mouth opener					1

• **34151 GIMA 3 - FIRST AID CASE + OXYGEN**
 Advised for up to 50 people
Meets Italian law D.M. 388 (15.7.03) art. 1 + emergency kit.
Emergency kit includes:
- autoclavable resuscitation with security valve, and silicone
  mask n. 4.
- oxygen bottle 0.5 l (empty) with reductor and oxygen
  distributor - UNI standard.
- 3 guedel airways, atoxic tube for connection to oxygen,
  mouth opener.
• **34148 GIMA 3 - EMPTY PLASTIC CASE**

34148

34151

GIMA

HYPOR-PLAST

Extensible adhesive bandage
White extensible 100% polyester non-woven on roll. Extremely breathable and very conformable. Hypoallergenic, reliable skin friendly acrylic adhesive.
Indications: ideally suited to fix medications and other medical devices.

GIMA code	EXTENSIBLE ADHESIVE BANDAGE
34863	roll m 10 x 5 cm
34864	roll m 10 x 10 cm
34865	roll m 10 x 15 cm

EMOCONTROL

• 34782 EMOCONTROL
Emocontrol is an easy, quick and effective elastic bandage for injuries and small haemorrhages. Length 4.5 m, width 10 cm with a 10x10 cm pad and 2 clips. English, italian instructions.
Made in Italy

COHESIVE BANDAGES

ELASTIC COHESIVE BANDAGES
Cohesive bandage with instantaneous and lasting fixation. It adheres only to it self and not to the skin, hair or clothing. Doesn't slip, is air-permeable, with stretchability of approx 115%. Comfortable, well tolerated by skin, it adapts perfectly to part to be treated. Versatile to use, easy to apply, permits free movement. Made in Italy.
• **34710 COHESIVE BANDAGES 6 cm x 4 m - box of 72 pcs**
• **34711 COHESIVE BANDAGES 8 cm x 4 m - box of 72 pcs**
• **34712 COHESIVE BANDAGES 10 cm x 4 m - box of 36 pcs**
• **34713 COHESIVE BANDAGES 12 cm x 4 m - box of 36 pcs**

ZINC-OINTMENT BANDAGE

zincaband "E"   CE 0373

• 34715 ZINC-OINTMENT ELASTIC BANDAGE 10 cm x 5 m
Homogeneously soaked in zinc ointment is ready for use and stretchable in length. Each band is packed in sealed metal bag and carton box. Made in Italy.

TEXTILE COMPOSITION
Viscose 71% - Polyamide 29% - Soaked with zink oxide, gelatine, glycerin, propil-hydroxybenzoate, metil-hydroxybenzoate, water. Elasticity: 60% (+/-10%)

BANDAGES, COTTON WOOL

34841

34836

GIMA code	BANDAGES AND COTTON WOOL
34840	Gauze bandage 3.5 m x 5 cm - pack of 12
34841	Gauze bandage 3.5 m x 7 cm - pack of 10
34842	Gauze bandage 3.5 m x 10 cm - pack of 6
34837	Cotton wool 100 g - box of 50 packs
34836	Cotton wool - 250 g - box of 10 packs
34838	Cotton wool 1000 g - box of 10 packs

FABRIC SPORT TAPES

CE   34754

Made in Italy

34755

GIMA code	ZINC OXIDE WHITE FABRIC TAPE NON ELASTIC ADHESIVE BANDAGE	Minimum order
34753	Tape 14 m x 2.5 cm - for finger	box of 48
34754	Tape 14 m x 3.8 cm - for wrist	box of 30
34755	Tape 14 m x 5 cm - for ankle	box of 24

ELASTICATED BANDAGES

34720

Elasticated bandage for containment, individually protected by a single cellophane, in a box.
Available in 2 versions:
- **Non adhesive** (65% cotton and 35% polyamide fibre)
- **Adhesive** (99.7% cotton and 0.3% polyamide).
Made in Italy.

GIMA code	ELASTICATED BANDAGES
34720	Bandage size 5 cm x 4.5 m - box of 20 pcs
34721	Bandage size 7 cm x 4.5 m - box of 20 pcs
34722	Bandage size 10 cm x 4.5 m - box of 20 pcs

GIMA code	ELASTICATED ADHESIVE BANDAGES
34730	Adhesive bandage size 6 cm x 4.5 m
34731	Adhesive bandage size 8 cm x 4.5 m
34732	Adhesive bandage size 10 cm x 4.5 m

ELASTICATED TUBULAR NET

surgifix

Elastic tubular net for the application of gauze and medication.
Due to its versatility it is suitable for all parts of the body.
The special structure of the material allows a stretching which holds without compressing.
Made in Italy.

m 25   CE

GIMA code	Range	Length under tension: 25 m		
34701	1		4	
34702	2	1		7 *small*
34703	3			
34704	4			
34705	5		5	
34706	6	2		8 *medium*
34707	7			
34708	8		6	
34709	9	3		9 *large*

STERILE ADHESIVE DRESSINGS

34848
34845

• **34848 OCULAR ADHESIVE DRESSING**
Sterile, extremely absorbent ocular dressing on hypoallergenic permeable adhesive backing.
Suitable for a safe and comfortable eye medication.
Size 6.5 x 9.5 cm - box of 10 pcs.

• **34845 STERILE ADHESIVE DEVICE for cannula fixation**
Size 8 x 5.8 cm - box of 50 pcs.

TNT+PE STERILE DRAPES

Rectangular non woven fabric tape (TNT+PE) with or without central protected adhesive hole, easy to apply.
Sterile disposable device. Made in Italy

TNT STERILE DRAPES	With hole Ø 7x9 mm	Without hole	Minimum order
TNT sterile drape 50x50 cm	34960	34950	box of 200 pcs.
TNT sterile drape 50x75 cm	34961	34951	box of 150 pcs.
TNT sterile drape 75x100 cm	34962	34952	box of 50 pcs.
TNT sterile drape 150x100 cm	34963	34953	box of 33 pcs.

ADHESIVE DRESSINGS

CE 0546

34852
34855

GIMA code	STERILE HYPOALLERGENIC ADHESIVE DRESSING WITH CENTRAL NON-WOUND-STICKING ABSORBANT PAD	Minimum order
34850	Sterile adh. dressing 7.2 x 5 cm	box of 8 pcs.
34851	Sterile adh. dressing 10 x 10 cm	box of 6 pcs.
34852	Sterile adh. dressing 10 x 15 cm	box of 4 pcs.
34853	Sterile adh. dressing 10 x 8 cm	box of 50 pcs.
34854	Sterile adh. dressing 10 x 15 cm	box of 50 pcs.

GIMA code	HYPOALLERGENIC EXTENSIBLE NONWOVEN ADHESIVE DRESSING TO BE CUT, WITH HIGHLY ABSORBENT CENTRAL WOUND PAD	Minimum order
34855	Size 1 m x 6 cm - box of 1 roll	10 boxes
34856	Size 5 m x 6 cm - carton of 12 boxes Recommended for sensitive skin	1 carton

BWT ADHESIVE DRESSING
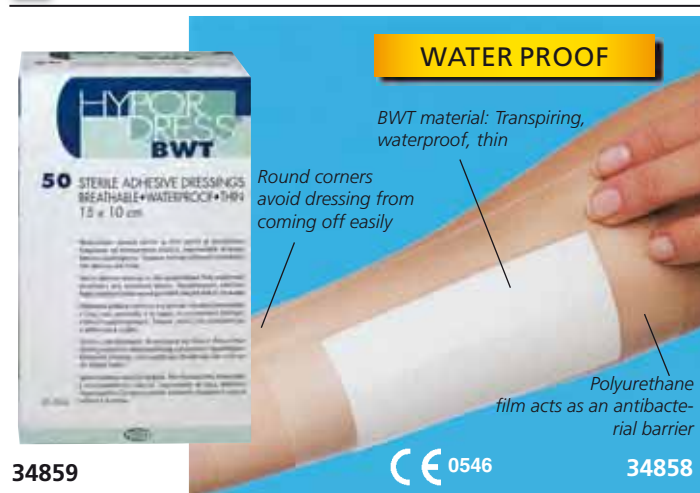
WATER PROOF

BWT material: Transpiring, waterproof, thin

Round corners avoid dressing from coming off easily

Polyurethane film acts as an antibacterial barrier

34859
CE 0546
34858

GIMA code	STERILE HYPOALLERGENIC ADHESIVE DRESSING WITH CENTRAL NON-WOUND-STICKING ABSORBANT PAD
34857	Sterile adh. BWT dressing 8 x 6 cm - box of 50 pcs.
34858	Sterile adh. BWT dressing 10 x 10 cm - box of 50 pcs.
34859	Sterile adh. BWT dressing 10 x 15 cm - box of 50 pcs.

PLASTER ROLLS

CE   CE   CE

34803
SKINTONE FABRIC
34804
NON WOVEN
34802
CLEAR PLASTER

Each roll is supplied with a plastic roll cover except code 34808

PLASTER ROLLS - MADE IN ITALY				
Skintone fabric	Hypoallergenic Non woven	Hypoallergenic Clear Plaster	Size	Minimum order
34803	34804	34802	5 m x 2.5 cm	box of 12 rolls
-	34808	-	9.14 x 2.5 cm	box of 10 rolls
34806	34807	-	5 m x 5 cm	box of 6 rolls
34799	Shop Display: for showing up to 88 boxes (32 x 25 x h63 mm)			

ADHESIVE PLASTERS AND SPRAY

SPRAY

34817   34814   34818   34819
Up to 40 applications.

GIMA code	HYPOALLERGENIC ADHESIVE PLASTERS	Minimum order
34809	Water resistant - 19 x 72 mm	2000 (100 box of 20)
34814	Water resistant - 5 mixed sizes	2000 (100 box of 20)
34817	Sensitive skin - 5 mixed sizes	3200 (80 box of 40)
34818	Family mix strips - 10 mixed sizes	2400 (100 box of 24)
34819	Spray plaster - bottle of 30 ml	

GIMA

ORIGINAL 3M MEDICATION PRODUCTS

GIMA code	3M code	3M MEDICATION PRODUCTS	Minimum order
		TEGADERM™ STERILE - transparent film dressing	
34900	1624W	TEGADERM™ - 6 x 7 cm - sterile	box of 100 pcs.
34901	1626W	TEGADERM™ - 10 x 12 cm - sterile	box of 50 pcs.
34902	1627	TEGADERM™ - 10 x 25 cm sterile	box of 20 pcs.
34903	1628	TEGADERM™ - 15 x 20 cm sterile	box of 10 pcs.
34895	3582	TEGADERM™ + PAD 5x7 cm sterile	box of 50 pcs.
34896	3586	TEGADERM™ + PAD 9x10 cm sterile	box of 25 pcs.
		SURGICAL TAPES	
34904	1530-0	MICROPORE™ - h 12,5 mm x 9.14 m	box of 24 rolls
34905	1530-1	MICROPORE™ - h 25 mm x 9.14 m	box of 12 rolls
34906	1530-2	MICROPORE™ - h 51 mm x 9.14 m	box of 6 rolls
34907	1530-3	MICROPORE™ - h 76 mm x 9.14 m	box of 4 rolls
34941	1527-1	TRANSPORE™ - h 25 mm x 9.14 m	box of 12 rolls
34942	1527-2	TRANSPORE™ - h 51 mm x 9.14 m	box of 6 rolls
34925	1538-1	DURAPORE™ - h 25 mm x 9.14 m	box of 12 rolls
34926	1538-2	DURAPORE™ - h 51 mm x 9.14 m	box of 6 rolls
34930	29911	MEDIPORE™ - h 50 mm x 9.14 m	box of 1 roll
34931	29912	MEDIPORE™ - h 100 mm x 9.14 m	box of 1 roll
34933	29914	MEDIPORE™ - h 200 mm x 9.14 m	box of 1 roll
		STERI-STRIP™ STERILE - skin closure	
34909	R1540	STERI-STRIP™ - 3 x 75 mm	50 bags of 5 strips
34910	R1541	STERI-STRIP™ - 6 x 75 mm	50 bags of 3 strips
34908	R1542	STERI-STRIP™ - 6 x 38 mm	50 bags of 6 strips
34911	R1546	STERI-STRIP™ - 6 x 100 mm	50 bags of 10 strips
34912	R1547	STERI-STRIP™ - 12 x 100 mm	50 bags of 6 strips
34914	R1548	STERI-STRIP™ - 25 x 125 mm	25 bags of 4 strips
34913	R1549	STERI-STRIP™ - 12 x 50 mm	50 bags of 6 strips
34915	-	STERI-STRIP™ - 3 x 75 mm	1 bag of 5 strips
34916	-	STERI-STRIP™ - 6 x 75 mm	1 bag of 3 strips
34917	-	STERI-STRIP™ - 6 x 100 mm	1 bag of 10 strips
34918	-	STERI-STRIP™ - 12 x 100 mm	1 bag of 6 strips

34941   **34925**

34912   **34911**   **34910**

STERILE MEDICATION, SUTURE, CATHETERIZATION KITS

KIT CONTENT	26930 medication	26931 suture	26932 suture removal	26933 catheters
Field cloth	•	•	•	•
Cushing surgery forceps		•		
Needle Holder		•		
Anatomy forceps	•	•	•	
Ring shaped forceps	•	•	•	•
Styptic clamp (Kelly forceps)		•		
Straight scissors		•		
Gauze swabs 7.5x7.5 cm 8 ply	•	•	•	
5 Gauze plugs 35 mm	•	•	•	
Latex medium gloves		•	•	
Disposal bag big	•	•	•	•
Littauer scissors		•	•	
Medication plaster 15 x 12 cm		•	•	
Gauze swabs 10x10 cm 8 ply		•	•	
TNT+PE length of cloth	•		•	•
3 Gauze plugs		•	•	
TNT compresses				•
Vinyl gloves				•
Water syringe				•
Single dose lubricant				•
Single dose disinfectant				•

- 26930 MEDICATION KIT - sterile
- 26931 SUTURE KIT - sterile
- 26932 SUTURE REMOVAL KIT - sterile
- 26933 CATHETERISATION KIT - sterile

26930

26932

26980

26981

26982

- **26980 ANATOMY FORCEPS - box of 100 - sterile**
- **26981 NEEDLE HOLDER - box of 20 - sterile**
- **26982 LITTAUER SCISSORS - box of 30 - sterile**

GAUZE PADS AND TAMPONS

0373

34772   **34780**   **34790-1-2**
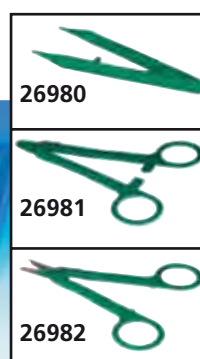
GIMA code	GAUZES - NON STERILE	Minimum order
34770	Cotton gauze pad 5x5 cm - 16 ply - 100 pcs.	20 bags
34771	Cotton gauze pad 7.5x7.5 cm - 12 ply - 100 pcs.	10 bags
34772	Cotton gauze pad 10x10 cm - 16 ply - 100 pcs.	10 bags
34773	Cotton gauze pad 10x20 cm - 12 ply - 150 pcs.	10 bags
34780	Round gauze tampons Ø 30 mm - 100 pcs.	30 bags
34781	Round gauze tampons Ø 50 mm - 100 pcs.	15 bags
34790	Cotton gauze pad 10x10 cm - pack of 1 kg	20 packs
34791	Cotton gauze pad 20x20 cm - pack of 1 kg	20 packs
34792	Cotton gauze pad 30x30 cm - pack of 1 kg	20 packs

STERILE COTTON GAUZE PADS

0301

34764   **34763**

GIMA code	COTTON GAUZE PADS - STERILE	Minimum order
34760	Size 10x10 cm - box of 150 bags of 25 pcs	1 box
34761	Size 15x15 cm - box of 100 bags of 25 pcs	1 box
34762	Size 20x20 cm - box of 100 bags of 25 pcs	1 box
34763	Size 18x40 cm - carton of 50 box of 12 pcs	1 carton
34764	Size 36x40 cm - carton of 50 box of 12 pcs	1 carton

◼ BARRYCIDAL "30": A WIDE-SPECTRUM DISINFECTANT

CHEMICAL COMPOSITION

Active ingredients:
- Alkyl (C_8H_{17}) -dimethyl benzil ammonium chloride: 9.75%
- Disobuthyl Phenoxy ethoxy ethyl dimethyl benzil ammonium chloride: 3.25%

Inactive ingredients:
- Sodium nitrite: 4.5%
- Propylenic glycol: 10%
- Water: 72.5%

Italian Health Ministry authorization N° 3139

• **35760 BARRYCIDAL "30" - diluted**
Dilution 1:100 ready for use. 1 l bottle with 10 cc measurer cap. In each box of 24 bottles are included 1 dispenser and 1 spray. Acts in 30 seconds   **minimum order: 24 bottles**

• **35762 BARRYCIDAL "30" - concentrate, to be diluted**
Tube 225 cc. for appoximatively 24 l.
Barrycidal "30" is a broad spectrum disinfectant. $C\epsilon$ **0373**
Thanks to its high activity and non-toxic properties, it is an ideal germicide without problems of tolerability.
It is active on gram positive and gram negative bacteria while it exhibits powerful microbiological action also on fungi, moulds and viruses such as HIV and HBV.
Useful for skin disinfection and surgical instruments disinfection (15 minutes of immersion).

◼ DISINFECTANT POWDER

• **36640 GERMOCID PERACETIC POWDER - box of 500 g** $C\epsilon$ **0546**
Cold sterilizer disinfectant: the peracetic acid which forms from the reaction of hydrogen peroxide (which is obtained after dissolving the product into water) and tetracetiletilendiammina carries on an efficacious biocid action towards **spores**, **virus** (HIV, HBV, HCV), **bacteria**, **mycobacteria** and **fungi**. At the concentrations of 1.6% it carries on **sterilization in 10 minutes**. The product is active in 15 minutes from dissolution, solution remains active for max 24 hours. Suitable for a cold rapid sterilization and disinfection of endoscopes, surgical and dental instruments, transducer, etc. It can be used also with automatic washing machines for endoscopes.
No environmental impact: once in contact with discharge water, it degrades immediately into acetic acid, water, oxygen. Made in Italy.

CHEMICAL COMPOSITION

100 g of product contain:

Tetracetiletilendiammina	24.8 g
Sodium Perborate Monohydrate	50.094 g
Citric Acid (Anhydrous)	24.8 g
Sequestering	0.1 g
Antioxidizing	0.2 g
Dyes	0.006

◼ BOXES FOR COLD STERILIZATION
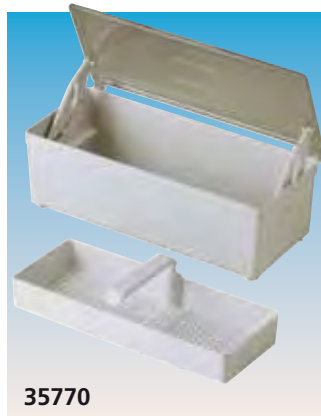
35770   35772

• **35770 STERILIZATION BOX - 1.5 l (26x12xh8 cm)**
• **35772 STERILIZATION BOX - 3 l (28x18xh10 cm)**
Useful plastic box, with an internal removable perforated instrument tray, specially developed for cold sterilization of medical instruments. White colour.
Code 35772 is autoclavable. Made in Italy.

◼ GERMOCID SPRAY

CHEMICAL COMPOSITION

100g of product contain

Clorexidine digluconate	0.1 g
Benzalconium chloride	0.1 g
Ethanol	45 g
2-Propanol	15 g
Essential oils, coloration and depurated water as needed for	100 g

Appearance: green liquid
Smell: characteristic pine $C\epsilon$ **0546**

• **36615 GERMOCID BASIC - 750 ml**
For disinfection and fast cleaning of every kind of medical surface materials which are not sensitive to alcohol like arm, handle and different dentistry objects.
- Disinfectant action: the association between Clorexidine and Quaternary ammonium Salt and the high alcoholic content guarantee a large action spectrum towards:
- Bacteria gram+ and gram-, fungus and virus HIV, HBC, HCV (HEPATITIS B and C) **in 1 minute of contact.**
- Fungus, microbacteria and TBC **in 5 minutes of contact.**
Strong detergent power and fast evaporation.
It is not de-activated by organic substances.
- Bactericide, viruscide and fungicide activity.
Sold in box of 12 - only 2 bottles come with vaporizer.

36615

◼ ENVIRONMENT DISINFECTANT

• **36616 ENVIRONMENT DISINFECTANT - bottle of 1 litre**
• **36617 ENVIRONMENT DISINFECTANT - tank of 3 litres**
Concentrated liquid detergent-disinfectant for instruments and environments. Dilute it in water to a ratio of 0.5% for the disinfection and the cleaning of surfaces, counter, tiles, floors, sanitary fixtures, also using floor-washing machines.
Suitable in large areas (hospitals, clinics, rest homes, gyms, swimming pools) for the disinfection and cleaning of surfaces.
- Disinfectant action: guarantee a wide protection against virus, fungus, bacteria gram+ and gram-.
- Detergent action: contains non-ionic surface active agents to enhance the cleaning of surfaces. Well tolerated on skin, do not swallow.

36617   36616

CHEMICAL COMPOSITION

100 g of product contain:

Chloride of didecildimetilammonium	10 g
Isothiazolinomagnesium Chloride sol	0.2 g
Diluents and essential oils as needed for	100 g

Appearance: pale yellow liquid
Smell: citronella
Biodegradability: detergent according to rules CE n° 648/2004
Italian Health Ministry authorization N° 9658

GIMA

HYGIENIC GEL

• **36600 HYGIENIC GEL - 80 ml**
No need of water to wash and clean your hands, dries up in few seconds.
Contains a hygienic agent with germicide and pleasant lemon flavour.
Made in Italy.

mimimum order: 12 bottles

Place here your logo: minimum 500 pcs.

ALCOHOL SWABS/PADS

• **36601 QUICKPAD DISPENSER**
Convenient to handle and ideal for cleaning the skin before injections, blood checks, infusions… The fleece pads are saturated with 70% Isopropyl Alcohol. The tight fitting lid prevents evaporations. Size 50x50x80 mm contains 150 pads, size: 44x44 mm, sterilized by Gamma radiation. **150 ALCOHOL SWABS**

U.S. and International Patents FDA Reg. #8010920

NOVALCOL: SKIN DISINFECTANT AND FUNGICIDE

• **36609 - NOVALCOL - 250 ml box of 12 bottles**
• **36611 - NOVALCOL - 1 l**
• **36613 - NOVALCOL - 3 l**
Novalcol can be used pure before and after the injection, or previously diluted in the ratio of 1:4 (1 part of Multialcol and 4 parts of water) in the preoperative cleaning of the patient (or for those confined to bed). Useful for disinfecting, cleaning and deodorizing rooms, floors, surfaces, tiles, sanitary facilities, etc. Novalcol is non toxic, non irritant and non inflammable. It does not stain or hurt.
Efficient against gram$^+$, gram$^-$ - virus.

Instructions on the bottle in English - Italian

CHEMICAL COMPOSITION
Dideculdimentilammonium Chloride	100 mg
O-Fenilphenol	20 mg
Isopropylic Alcohol	3.6 mg
Soluble essential oils of lemon	1 g
Djestuff E124	0.2 mg
Deionized sterilized water as needed for 100 g	
Made in Italy.	

Italian Health Ministry Registration PMC 13428

36613

36609   36611

OXYGENATED WATER

• **36604 OXYGENATED WATER (Hydrogen peroxide) - 250 ml - box of 12**
• **36606 OXYGENATED WATER (Hydrogen peroxide) - 1 l**
Made in Italy.

36604

36605

DISINFECTANT WIPES

36625

DISINFECTANT WIPES
• **36625 - tube of 100 wipes**
• **36626 - box of 400 bags**
Active against bacteria, virus and mycetes are ideal for children since they do not burn. Indispensable in the house, the car, in sporting events.
Indicated for the disinfection of: insect bites - (applied on the skin as an insect repellent) - skin before and after injections - disinfection of hands and other body parts.
Instructions on the box in English - Italian

36626

SPRAY DISINFECTANT

• **36620 GERMOCID SPRAY DISINFECTANT - 400 ml**
mimimum order: 12 pcs
Spray disinfectant for environment, instruments and people, with high bactericidal power.
- Disinfects and deodorizes the air of crowded and smoky areas (hospital, classrooms, examination and surgery rooms, bathrooms, cars, trailers).
- Disinfects without burning
- Disinfects hands and injection area
- Active against the effects of perspiration
Instructions on box in English - Italian

36620

CHEMICAL COMPOSITION
100 g contain: O-phenilphenol 20 mg; alkylbenziloleilammonium chloride 100 mg. Essential oils composition: isophropylic alcohol, propellers and other ingredients as needed for 100 g. Made in Italy.

Italian Health Ministry registration PMC 7604

CHEMICAL COMPOSITION
Each 100 g contains: Chloride of alkylbenziloleilammonium 0.5% - O-fenil-phenol 0.01% - Alchil iso-chinolina bromide 0.2% - Scent excipient detergent (Alchil-poliglicolerere) and water as needed. Made in Italy.

Italian Health Ministry registration PMC 12671

GERMOCID SOAP

• **36630 GERMOCID SOAP - 1l**
Antiseptic liquid for disinfection of skin and hands. It is studied for people who need frequent washing as surgeons, medical and hospital attendants. Made in Italy.
Sold in box of 12 - only 2 pieces come with vaporizer.
Italian Health Ministry registration PMC 16161

SURGERY DISINFECTANT

• **36632 NEO STERIXIDINA SOAP - 1l**
Recommended for preparation of hands before surgical intervention and for complete washing of patients.
Direct action towards bacteria gram$^+$, gram$^-$, virus.

4% CHLOREXIDINE

CHEMICAL COMPOSITION
Each 100 g contains: Chlorexidine digluconate 4 g - Lauryl dimetilamino oxide 5 g - Poloxen 25 g - Isopropylyc alcohol 4 g - Parfum 0.25 g - Gluconic Δ lactone 0.6 g Colorants E124 0.005 g - Depurated water as needed for 100g.

Italian Health Ministry registration PMC 18980

■ MULTIUSI GEL

- 36646 MULTIUSI GEL - 50 ml - box of 24 tubes
- 36647 MULTIUSI GEL - 75 ml - box of 24 tubes
- 36641 MULTIUSI GEL - 50 ml - box of 36 pcs.
- 36642 MULTIUSI GEL - 150 ml - box of 24 pcs.
- 36644 MULTIUSI GEL - 1000 ml

Cleanser hygienic for hands without water. Ready-to-use product, which contains ethyl alcohol for a rapid and effective hands antisepsis.
It has been studied to sanitize and **clean hands without using water.** Thanks to its particular formula it destroys 99.9% of germs and bacteria on the hands in just a few seconds. It dries fast and leaves hands soft and fresh. Its disinfecting power is combined with an effective skin-protecting action, it guarantees hygienic protection in few seconds. Dermatologically tested.

36647 36646 36644 36642 36641

■ SKIN SOAP

- 36671 FRAGRANCE SKIN SOAP - 1000 ml

Delicate skin protective. Fragrance, soothing moisturizer active agents, respects the lipid mantle and it is delicate on skin, leaving it fresh and pleasantly soft.
It is used for the daily hygiene as a normal liquid soap.
Suitable for the personal hygiene too.

■ CHLOREXIDINE DISINFECTION LINE

36638

Suitable for hands skin disinfection.

36635 36637

- 36635 GERMOXID DISINFECTION - 250 ml - box of 12 bottles
- 36637 GERMOXID SPRAY DISINFECTION - 100 ml - box of 12 bottles
- 36638 GERMOXID WIPE - box of 400 wipes

Germoxid is a ready-to-use disinfectant for skin that contains chlorexidine with long-lasting bactericidal action. Chlorexidine has a proven broad-spectrum effectiveness against Gram + and Gram - bacteria. The molecular structure of chlorexidine is very similar to that one of epidermis proteins and it is therefore rapidly and constantly absorbed by the skin. Chlorexidine is particularly suitable for skin disinfection: clinical research has demonstrated that chlorixidine triggers an immediate skin bacterial flora reduction till 87%. Chlorixidine is particularly safe for medical operators thanks to its high epidermis compatibility, it neither irritates the skin nor stains.
Available in 3 versions: liquid (250 ml), spray (spray dispenser allows a quick and efficient action and is eco-friendly) or wipes (ready-to-use disinfecting wet wipes containing chlorixidine).

■ DENTAL DISINFECTION - BACTERICIDAL MOUTHWASH

- 36655 GERMORAL MOUTHWASH - bactericidal mouthwash

One display containing 12 bottles of 300 ml
Indispensable for daily oral hygiene, Germoral prevents and acts against the formation of bad smells because it stops fermentation in the oral cavity. It performs an essential antiplaque and bactericidal action. Particularly suitable for smokers, prosthesis or paradontic teeth users or after dental surgery for disinfecting the oral cavity. If regularly applied it prevents and acts against inflammations, gingival disorders, dental plaque formation.

- 36650 GERMOXID MOUTHWASH - 1 l with chlorexidine

Specifically formulated to guarantee the highest hygienic standards and oral cavity disinfection. Chlorexidine is the most widely used and effective germicidal agent and acts against gram + and gram - bacteria, giving an overall anti-plaque and anti-gingivitis action. Germoxid with its anti-plaque and bactericidal action guarantees efficient and long-lasting protection up to 12 hours. Its alcohol-free formula assures that neither gum irritation nor a burning sensation will be felt. It contains Aloe Vera in its formula: this is a particularly suitable extract for oral hygiene with high cicatrizing power.

36655 36650

■ SURGEON BRUSHES

- 25719 SCRUB KIT - sterile - box of 32

Sterile hand-cleaning hospital kit. It includes a scrub, a sponge and a plastic spatula for cleaning nails.
Dry, without detergent.
Sterilization method: ETO

- 25704 CHLOREXIDINA SCRUB KIT - sterile
- 25705 PVP-IODIO SCRUB KIT - sterile

Same as 25719 but with chlorexidine (4%) or iodio (7,5%) disinfectant
minimum order: box of 32 pcs

- 25715 PERFECTION BRUSHES

Nylon brushes for cleaning before and after operation. These brushes are autoclavable (at 100°C for not more than 5 minutes) and can be stored in any standard brush dispenser in hospitals. Resistant and reliable. Supplied in boxes of 12 units.

STERILIZABLE IN AUTOCLAVE

GIMA

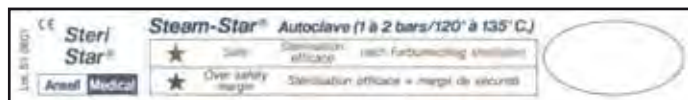# TESTS FOR AUTOCLAVE AND HOT AIR STERILIZATION

*Notice "Sterilisé" and two stars drawing change colour **from pink to brown** to show effectiveness of 160°C - 1 hour or 180°C - 30 minutes or 200°C - 15 minutes sterilization and **to black** to show safety margin, doubling sterilization time for each temperature.*

• **35840 "DRY STAR" INDICATOR**
- for hot air sterilization
- No special stocking requirements
Made in Japan

CE CLASS D
EN 867

minimun order: 1,000 pcs.

*Notice "Sterilisé" and three stars drawing change colour **from pink to brown** to show effectiveness of 121°C - 15 minutes or 134°C - 3 minutes and 30" sterilization and **to black** to show safety margin of 121°C - 20 minutes and 134°C - 5 minutes sterilization*

• **35850 "STEAM STAR" INDICATOR - autoclave**
Indicator for sterilization by autoclave with pressure 1 to 2 bar 120°C/135°C.
- No special stocking requirements
- Safety and reliability
Made in Japan

CE CLASS D
EN 867
minimum order: 1,000 pcs.

BOWIE & DICK TEST READY FOR USE

• **35853 UPSTAR - "BOWIE & DICK" - test**
Bowie & Dick test ready for use
Stability of colour change
High sensibility, detect any anomaly
minimum order: box of 30 tests

CE CLASS B
EN 867

35853

Satisfactory: green uniform colour

Not Satisfactory: Central red colour Time and/or temperature and/or steam pressure uncorrect

STEAM AND DRY HEAT ADHESIVE TAPE INDICATORS

35846   **35842**

CE

For sterilization at 134° brown strips appear in 3 min. For sterilization at 121° brown strips appear in 15 min.

MEET UNI EN 867-PART 1-2 (CLASS A) AND AS CHEMICAL INDICATORS ISO 11140-1

STEAM AND DRY HEAT TAPE INDICATORS
Gima range of tapes is specially formulated for packing purposes as well as to show visibly that the pack has undergone a sterilization cycle. The backing of the different tapes is made of strong, semicreped, impregnated paper which gives excellent conformability during the application. Steril tapes unwind easily and can be torn by hand without difficulty.
Special adhesives formulated to withstand high temperature and humidity ensure excellent bond to paper, plastic, non-wovens, board, metal, glass and linen.

TAPE INDICATOR - 50 M	Width 19 mm	Width 24 mm	Minimum order
Dry Heat Tape - hot air sterilizer	35842	-	12 rolls
Steam Tape - autoclave	35846	35847	12 rolls

DISTILLER: SYSTEM OF WATER DISTILLATION

Size Ø 20 cm x h 36 cm

• **35690 WATER DISTILLER**
The autoclaves must run with distilled or demineralised water to avoid problems on electrovalves and on internal mechanism and white traces of limestone on the sterilized tools and devices.
Distiller produces 100% distilled water in a cheap and safe way.
It produces 4 litres in about 6 hours.
It is equipped with an automatic control thermostat with block system at the end of operation.
Supplied with 6 active coal filters, 1 detergent, 1 container for produced distilled water. Operating Voltage: 220V - 50-60Hz.

• **35691 COAL FILTERS FOR DISTILLER - box of 12**
• **35692 DETERGENT FOR DISTILLER**

35690

BRANSON ULTRASONIC CLEANERS

Precision cleaning power
Ultrasonic cleaning is faster and safer than any other method.
Scrubbing soaking and steam don't even come close.
It's powerful enough to remove heavy oils and waxes, penetrating enough to deflux circuit boards, yet gentle enough to clean tiny precision assemblies.
Ultrasonic sound waves moving through a cleaning solution create an effect called cavitation, the rapid formation and implosion of microscopic bubbles.
Heat enhances the process.
The deep-cleaning action of ultrasonics removes even the most stubborn dirt and contaminations.
Branson: pioneer in ultrasonic cleaning
We have selected Branson because their cleaners incorporate years of experience in ultrasonic cleaning:
-easy to handle and safe to fill - frequency higher than average for a deep cleaning - less noise - longer lifetime.
All Branson cleaners are supplied with tank cover.

MT
MECHANICAL
TIMER

MT: with mechanical timer adjustable up to 60 minutes and with a setting for continuous cleaning.

MTH
MECHANICAL TIMER
+
HEATING

MTH: with mechanical timer and heating with special feature to avoid overheating due to absence of liquid.

DTH
DIGITAL TIMER
+
HEATING

DTH: with digital timer, heating with feature to avoid overheating, degas and temperature monitor. Offers maximum control of cycle time and temperature with clear readouts and one touch settings.

Led Display: indicates the tank temperature, set temperature, ultrasonics time or degas time setting, depending on your SELECT OPTIONS choice.

Lights indicate the option selected by pressing "Select option":
- SOLUTION TEMP: display current solution temp. (10-75 °C ±4°C)
- SET TEMP: set tank temperature (01-69°C)
- SET SONICS: set ultrasonic time (01-99 mins., 60 mins default)
- SET DEGAS: set degas time (01-99 mins., 5 mins. default)
- HEAT ON: indicates heat is activated and has been set (SET TEMP).

ULTRASONIC CLEANERS	Branson 2510	Branson 3510	Branson 5510	Branson 8510
	2.8 litres	5.5 litres	9.5 litres	20 litres
MT Mechanical Timer	35501	35510	35520	35531
MTH Mechanical Timer, Heat	35502	35511	35521	35532
DTH Digital Control, Heat, Degas, Timer	35503	35512	35522	35533
Tank size: mm.	240x140x100	290x150x150	290x240x150	495x280x150
Overall size: mm.	338x295x305	399x371x318	399x371x401	599x376x467
Tank capacity: litres (gal)	2.8 (3/4)	5.5 (1 1/2)	9.5 (2 1/2)	20 (5)
Drain and valve kit	NO	Included	Included	Included
Weight: kg (lbs.)	4.1 (9)	4.9 (11)	5.9 (13)	11.8 (26)
Power consumption without heat: W	130	130	185	320
Power consumption with heat: W	239	335	469	881
Frequency:KHz	40	40	40	40
ACCESSORIES				
Tank cover, plastic*or stainless steel**	35507*	35517*	35527*	35537**
Perforated Tray	35508	35518	35528	35538
Beaker positioning cover	35509	35519	35529	35539
Specifications of beaker	or 2 x 250 ml	or 3 x 250 ml	-	-
positioning cover	or 2 x 600 ml	or 2 x 600 ml	4 x 600 ml	6 x 600 ml
Glass beaker 250 ml	35540	35540	-	-
Glass beaker 600 ml	35541	35541	35541	35541

Branson 2510 - 2.8 litres

Branson 3510 - 5.5 litres

Branson 5510 - 9.5 litres

Branson 8510 - 20 litres

GIMA

ULTRASONIC CLEANER

CE

• 35549 GIMA 50 ULTRASONIC CLEANER 0.6 l
This ultra-compact cleaner is very easy to use, effective and economic. Ideal for all those who have to clean articles now and then, **particularly suitable for glasses, jewelry, surgical and dental instruments.**
Electronic, not adjustable timer with plastic cover and basket. No heating. Internal size: 168 x 89 x 55 mm.

GENERAL PURPOSE CLEANER

• 35544 BRANSON GENERAL PURPOSE CLEANER - bottle 1 l concentrate
BRANSON PURPOSE is a cleaning solution developed for use with ultrasonic cleaners. Removes general soils, fingerprints, dust, light oils and greases.
Branson cleaning liquid has been specially developed to provide optimal transfer of acoustic energy. Mainly used in: dentistry, medical and optical applications, laboratory, electronic, gold and silver work.

CHEMICAL SPECIFICATIONS
Concentration: 10-12%
Biodegradability: yes
Phosphate free
Concentration PH: 13.5
Rinsability: good

GERMY GIMA PLUS: GERMICIDAL ULTRAVIOLET LAMPS

CE

AVAILABLE IN 3 SIZES

35751

GERMY GIMA PLUS: ULTRA VIOLET LAMPS
These instruments incorporate a germicidal ultra-violet lamp which rapidly destroys every micro-organism hit by its rays. Recommended to keep the instruments stored inside sterile. Instruments previously sterilized can be preserved for a long time and they are always ready for use (UV treatments do not generate heat).
An inside supporting grate keeps instruments raised from reflecting surface which enables both surfaces to be uniformly irradiated, improving the UV germicidal action. Operator safety is guaranteed by a micro switch which extinguishes the lamp if door is opened.
Solid construction, painted steel outside and reflecting stainless steel inside.
Installation on table or wall.
Operating voltage: 230 V - 50/60 Hz - 1 A
Made in Italy

• 35750 GERMY GIMA PLUS 8 W - 38x20xh17 cm
• 35751 GERMY GIMA PLUS 15 W - 50x24xh20 cm
• 35752 GERMY GIMA PLUS 30 W - 96x24xh20 cm
• 35754 SPARE NEON LAMP - 8 Watt
• 35755 SPARE NEON LAMP - 15 Watt
• 35756 SPARE NEON LAMP - 30 Watt

GIMA QUICK: STERILIZATION IN 2 MINUTES

• 35640   GIMA QUICK - hot bead sterilizer
• 35642   GIMA QUICK PLUS with thermometer
GIMA QUICK hot bead sterilizer has been projected and developed specifically for medical use otherwise it is recommended also for dentistry, podology, veterinary tattoo and beauty studios.
It ensures a quick and effective sterilization.
It sterilizes files and mirrors in 2 minutes, surgical instruments in 2 minutes, curettes and forceps in 3 minutes.
Its constant temperature over 230°C ensures the total destruction of micro-organisms and spores in few seconds.
GIMA QUICK has its casing in epoxydic powders painted steel; the inside cylinder is completely isolated by fibres and glass, wich prevents the heat from being transmitted to the external box.
It can work continuously for the whole day.
Supplied with a pack of glass beads (220 g).
Made in Italy.
• 35645 PYREX BASIN
• 35646 PACK OF GLASS BEADS

CE 0425   **35640**   **35642**

TECHNICAL SPECIFICATIONS	
Outer structure in white painted steel	Weight: 2.8 kg
Size: 130 x 130 x 190 mm	Power consumption: 150 W
Copper plated basket: diameter 5.5 cm	Operating voltage: 220 V - 50 Hz.
depth 7.5 cm	Warranty: 12 months Made in Italy

195

DIGITAL, THERMOVENTILATED HOT AIR STERILIZER, 20, 40, 60, 80 L

35594

CE 0051

Complete line of electronic hot air sterilizers, from 20 to 80 litres, suitable to sterilize a large quantity of instruments, with adjustable temperature.
A ventilation system guarantees in short time a precise temperature in all internal chamber.

Other features:
- electronically controlled high precision and safety
- forced air ventilation
- adjustable temperature from 140°C to 250°C
- adjustable time from 1 to 240 min.
- painted steel external structure, stainless steel internal room.
- door lock with security key
- safety device with double control (electronic and electromechanic) against high temperature.
Supplied with 2 extractable shelves and 1 bottom shelf
Made in Italy

GIMA code	DIGITAL THERMOVENTILATED STERILIZERS	Inside dimensions mm	Outside dimensions mm	Weight kg	Operating voltage	Power consumption	Fuses	Extractable shelves
35594	DT 20 hot air sterilizer - 20 litres	400x235x260	500x410x450	17	230-50/60Hz	615 W	2.60 A	2+1 (bottom)
35595	DT 40 hot air sterilizer - 40 litres	500x310x325	610x480x510	25	230-50/60Hz	815 W	3.50 A	2+1 (bottom)
35596	DT 60 hot air sterilizer - 60 litres	573x364x374	580x530x580	31	230-50/60Hz	1015 W	4.50 A	2+1 (bottom)
35597	DT 80 hot air sterilizer - 80 litres	635x415x410	740x570x630	42	230-50/60Hz	1025 W	4.50 A	2+1 (bottom)

TAU STERIL AUTOMATIC HOT AIR STERILIZERS 1.6 AND 18 LITRES

Shining 18/8 stainless steel non corrosive, almost indestructible sterilization chamber which reflects the heat to reach rapidly desired temperature.

35600

Side and back in epoxidic powder painted

CE 0426

35619

Front door completely made in satin stainless steel

• **35600 TAU STERIL 1.6 - automatic hot air sterilizer**
• **35619 TAU STERIL 18 - automatic hot air sterilizer**
TAU sterilizers have been designed to satisfy all daily medical requirements in the field of sterilization.
Extremely robust, totally automatic, guarantee complete working safety.
TAU 1.6 has double wall and inner insulation, outside it is made of stove-enamelled sheet steel, inside of stainless steel 18/8 (double cover, sterilization chamber and removable perforated tray).
TAU 18 comes complete with safety fuses, neon warning lights to control timer and thermostat, power cable, 3 itallumac treated shelves, shelf extracting tongs.

TECHNICAL SPECIFICATIONS	TAU 1.6	TAU 18
Inside dimensions (mm):	245x115x h55	375x230x h200
Outside dimensions (mm):	310x180x h180	440x310x h380
Weight:	5 kg	14 kg
Operating voltage:	220V	220V
		110V available on request
Power consumption:	250 W	600 W
Fuses:		3.15 A
Thermostat:	Automatic capillary bulb type with self registration from 90° to 200°	
Timer:	from 0 to 120 minutes	
Thermometer:	high precision with capillary bulb	
Made in Italy		

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■ HOT AIR STERILIZERS: GIMETTE 1.5, 7, 21, 28 AND 50 LITRES

GIMETTE 1,5

35601

GIMETTE 7

35607

• 35601 GIMETTE 1.5 - hot air sterilizer
• 35607 GIMETTE 7 - hot air sterilizer

CE 0425

Automatic Gimette are compact and high quality hot air sterilizers with the same reliability and efficiency as larger models.
Outside structure is made of painted plate with anti-scratch epoxy powder.
Stainless steel lid and sterilization chamber
with approx.
Capacity of 1.5 l. and 7 l.
Removable, perforated for air circulation, tray with pliers.
All components certified by most important European brands, assembling in compliance with EN-61010.
A second safety thermostat tiggers in case temperature should exceed 220°C.
Red LED indicates any anomaly in thermoregulation and consequent starting of safety thermostat.

TECHNICAL SPECIFICATIONS

GIMETTE 1,5
Inside dimensions: 245 x 120 x 50 mm = vol. 1.5 dm3
Outside dimensions: 310 x 180 x 180 mm — Weight: 4.3 kg
Power consumption: 250 Watt — Fuse: 1 A
GIMETTE 7
Inside dimensions: 410 x 180 x 90 mm = vol. 7 dm3
Outside dimensions: 490 x 310 x 180 mm — Weight: 8 kg
Power consumption: 400 Watt — Fuses: 2 x 2.5 A
Thermometer: high precision with capillary bulb
Same specifications for both models:
Operating Voltage: 230 V. - 50 Hz.
Thermostat: automatic, adjustable 0-200 °C
Timer: manual from 0 to 120 minutes
2° Thermostat: bi-metallic certified
Green LED: timer, orange LED: heating, red LED: alarm
Made in Italy - Warranty 1 year

GIMETTE 21

35621

GIMETTE 28

35628

• 35621 GIMETTE 21 - hot air sterilizer
• 35628 GIMETTE 28 - hot air sterilizer
• 35629 GIMETTE 50 - hot air sterilizer

CE 0425

Fully automatic hot air sterilizer, with adjustable temperature from 0°C to 200°C, kills off even particularly resistant micro-organisms.
Stainless steel structure is powder painted, except for the door, to assure maximum heat and shock resistance over time.
Four perforated, anodized aluminium trays make hot air circulation easier.
Capacity approximately 20 l., 28 l. and 50 l.
A second safety thermostat tiggers in case temperature should exceed 230°C.
Red LED indicates any anomaly in thermoregulation and consequent starting of safety thermostat.

TECHNICAL SPECIFICATIONS

	GIMETTE 21	GIMETTE 28	GIMETTE 50
Inside dimensions mm:	300x250x260	380x250x260	405x340x350
Approx. volume	20 dm3	28 dm3	50 dm3
Outside dimensions mm:	440x340x400	550x340x400	605x460x480
Weight:	13 kg	17 kg	24.5 kg
Power consumption:	600 Watt	500 Watt	1200 Watt

Same specifications for 3 models:
Operating Voltage: 230 V. - 50 Hz.
Fuses: 2 x 4 A (35621, 35628) 2 x 8 A (35629)
Timer: manual from 0 to 120 minutes Thermostat: automatic
Thermometer: high precision with capillary bulb
2° Thermostat: bi-metallic certified
Green LED: timer, orange LED: heating, red LED: alarm
Made in Italy - Warranty 1 year
User/Service manual in Italian, English, Spanish

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ANDROMEDA VACUUM XP AUTOCLAVE WITH PRINTER 15-21 LITRES

Twin tanks for pure and used water: by using always pure water, the internal components are protected, with benefits in maintenance and service costs

Door gasket

Bacteriological filter

Door opening block with electromagnet

CE 0434

TÜV CHAMBER TEST

MICROBIOLOGIC CERTIFI-CATION

SINCERT

93/42/EEC	Medical device Low
73/23/EEC	tension Electroma-
93/336/EEC	gnetic Compatibility

CLASS S

Andromeda Vacuum is supplied with printer built into the drive board. The printer document certifies the sterilization by indicating all the data related to the cycle.
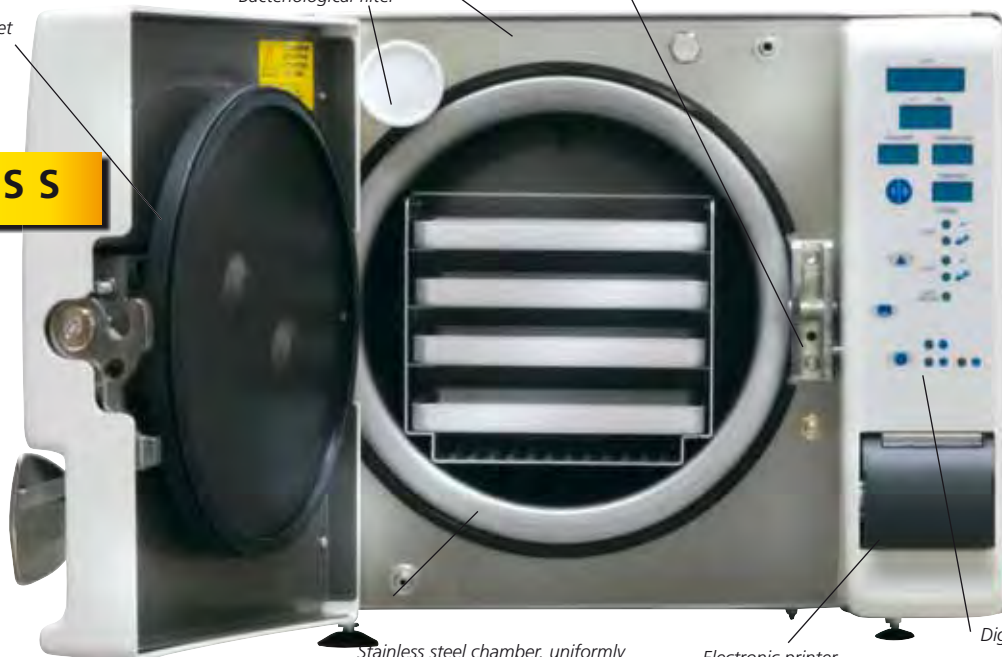
Stainless steel chamber, uniformly heated by a band heating element

Electronic printer

Digital control

• **35651 ANDROMEDA VACUUM XP - 15 litres - 230 V**
• **35662 ANDROMEDA VACUUM XP - 21 litres - 230 V**
Pre-and post-vacuum.
Andromeda Vacuum is provided with powerful vacuum pump which, at the beginning of the cycle, ejects the airpockets from the sterilization chamber, and at the end of the sterilization phase ensures a very good drying.
Rapid preheating
A very new method of preheating, through a special band heating element, gives a high reduction of the preheating times.
Guaranteed sterilization
A sophisticated electronic device gives a constant monitoring of pressure, temperature and time. In case of anomalies there will be an electronic lock of the autoclave and the display will indicate the anomaly.

"Night" cycle with anti-condensate device
Andromeda Vacuum can work also without the operator presence as all functions are automatic.
At the end of each cycle a special device eliminates the backwater of condensate, afterwards there is the automatic sign off, but with electronic storage.
Safety of the operator
Andromeda Vacuum has an electromagnetic block device on the door. The door opens only with atmospheric pressure into the chamber, and after having pressed the push button.

Completely computerized monitoring of all automatic functions, and auto-diagnosis of each component. The total automation of each phase of the cycle prevents any possible human error, also from inexperienced personnel

Timed start, with positioning in "Stand-by" at 80°C and automatic switch off after one hour not in use.

Automatic filling up of the water: a pump allows the filling up, and stops automatically when the maximum level is reached.
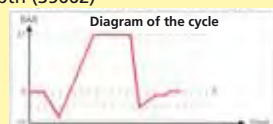
TECHNICAL SPECIFICATIONS

External size: 45 x 39 x 54 cm (35651, 35661), 45x39x66 cm (35662)
Chamber dimension: Ø 24.5x32 cm depth (35651, 35661),
Ø 24.5x43 cm depth (35662)
Weight: 50 kg
Operating Voltage: 230 V - 50/60 Hz
Power consumption: 2000 Watt
Made in Italy
Class S   Cycles

Diagram of the cycle

Andromeda Vacuum is provided with 5 cycles of sterilization: 121° C and 134° C for unwrapped and wrapped instruments, and a "Flash" cycle for the fast sterilizations.

Cycles	Temperature	Max load	Pressure	Total time*
Program 1 Unwrapped instruments	134° C	2.8 Kg	2.2	33
Program 2 Wrapped instruments	134° C	2.8 Kg	2.2	38
Program 3 Unwrapped instruments	121° C	2.8 Kg	1.2	42
Program 4 Wrapped instruments	121° C	2.8 Kg	1.2	46
Program 5 Flash	134° C	2.8 Kg	2.2	16

* pre-heating - vacuum - cycle - drying in vacuum

User manual available in English, French, Spanish, Italian

• **35671 SEALING GASKET - for Andromeda and Europa**
• **35672 BACTERIAL FILTER - for Andromeda and Europa**
• **35673 VAPOR LINE STERILIZATION INTEGRATOR**
- for Andromeda and Europa

EUROPA: AUTOCLAVE WITH PRINTER AND PC CONNECTION

- 35653 EUROPA B EVO AUTOCLAVE - 15 litres
- 35657 EUROPA B EVO AUTOCLAVE - 24 litres

Fractionated Vacuum: B type fractionated vacuum managed by a double phase vacuum pump to ensure complete evacuation of air.

Microprocessor System and Evaluation System Built in: All functions and controls are managed by an updated microprocessor electronic system.

System of integrated valuation: An electronic control ensures a self valuation and the management of all functions.

New electronic control: The control card is integrated in the board to allow temperature settings to be preset, automatic barometric alignment to take place, multifunction graphic display to work and carries the management availability for the integral P.I.D. system.

Safety Door: The door is equipped with three systems to ensure the operators safety: Dynamic, Electromagnetic, and Electronic. The door will only open when the internal pressure is zero, ensuring the operators safety.

6 Automatic cycles without operators: Six automatic sterilization cycles which do not need the operator to be present. All equipped with an anti-condensation function and automatic cut off.

3 Cycle tests for vacuum check: Europa B XP has 3 test cycles available: VACUUM TEST, for the air pockets evacuation BOWIE &DICK TEST, for hollow-tools HELIX TEST.

Warranted drying: The combined vacuum and heat drying cycle ensures that the equipment is totally dry as required.

Stainless steel chamber: The T-PED certified stainless steel cylinder ensures the heat is uniformly dissipated.

Validating System: Prearranged validating system of the sterilization cycle.

Water tanks: A clean water tank and a dirty water tank ensure the best possible sterilization cycle and enhance the working life of your equipments

CE 0434   TÜV CHAMBER TEST

CLASS B

This is a unique autoclave equipped with incorporated printer and PC connection

P.I.D. REGULATION SYSTEM
SPECIAL CONTROL TO MONITOR THE PARAMETERS OF THE STERILIZATION CYCLE

TECHNICAL SPECIFICATIONS

	35653 (15 litres)	35657 (24 litres)
Operating voltage	230V - 50/60 Hz (110V on request)	
External size mm:	510x590x390	510x730x390
Weight kg:	54	58
Max absorbed power	1600W	2400W
Chamber size mm	Ø 245x320	Ø 245x500

Cycles		Materials	Ster. time
121° C	not packed in bags	Fragile solids / Rubber solids	52 min.
121° C	packed in bags	Delicate hollow and porous instruments / Solids instruments	60 min.
134° C	not packed in bags	Fragile solids / Rubber solids	42 min.
134° C	packed in bags	Solid instruments / Hollow and porous instruments	50 min.
134° C PRION		Solid instruments / Hollow and porous instruments	65 min.
134° C POROUS		Hollow and porous instruments not packed in bag / Solid instruments not packed in bag	58 min.

KRONOS B AUTOCLAVE 15 AND 23 L WITH PRINTER

- **35663 KRONOS B AUTOCLAVE - 15 LITRES**
- **35664 KRONOS B AUTOCLAVE - 23 LITRES**

Fractionated vacuum, managed by high performance double-stage pump, ensures complete evacuation of air.

Motor-operated door closure with triple-protection, guarantees better safety, greater ease of handling and self-regulation of the door.

Instantaneous vaporized outside the chamber allows higher sterilization speed and reduces water consumption.

Thermal printer built into the machine allows complete recording of the sterilization cycle. Ensures the user greater cycle control and easy archiving.

Multi-language graphic display offers to operator easier selection of the sterilization cycles, continuous control over the cycle phases and gives graphic indication of the errors committed by the operator.

Connection to PC.

Thick aluminium chamber giving faster sterilization cycle.

- **35665 GASKET - spare**

35663

Instantaneous vaporizer   Graphic display   Connection to PC   Aluminium chamber

TECHNICAL SPECIFICATIONS

	35663 (15 litres)	35664 (23 litres)
Operating voltage	230V - 50/60 Hz (110V on request)	
External size mm:	610x505x400	695x505x400
Weight kg:	56	60
Wrapped/sterilizable weight kg:	3	4,5
Unwrapped/sterilizable weight kg:	4	6
Porous material/sterilizable weight kg:	1	1,5
Max absorbed power	2400W	2400W

Cycles	Materials	Vacuum phases	Ster. time
121° C Hollow** wrapped	Delicate hollow and stainless steel hollow (wrapped)	4	26 min.
134° C Hollow wrapped	Stainless steel hollow (wrapped)	4	14 min.
121° C Solid wrapped	Solid rubber and delicate solids (wrapped)	2	26 min.
134° C Solid wrapped	Stainless steel solids (wrapped)	2	14 min.
134° C Pryon	Stainless steel solid and hollow (wrapped)	4	30 min.
121° C Porous	Delicate, hollow and porous (wrapped)	4	31 min.
134° C Porous	Solid stainless steel, hollow, and porous (wrapped)	4	19 min.
121° C Fast	Solid rubber and delicate (unwrapped)	2	20 min.
134° C Fast	Solid rubber (unwrapped)	2	8 min.
134° C Hollow unwrapped	Hollow rubber and stainless steel (unwrapped)	4	8 min.
134° C Helix/B&D test	Test cycle for Helix and Bowie & Dick	4	7.5 min.
<40° C Vacuum test	Test cycle for vacuum	1	15 min.

** Type A and B hollow instruments, in accordance with EN13060

199

NUBYRA 6 LITRES STEAM AUTOCLAVE - CLASS N

• 35647 NUBYRA AUTOCLAVE - 6 litres - 230 V
Electronic steam autoclave for the sterilization of unwrapped instruments. 2 fully automatic, microprocessor controlled, sterilization cycles: at 134°C or 121°C with automatic drying. LCD display with visualization of temperature and pressure for total control of sterilization cycle. Easy closure system with double safety sensor. Air pockets automatic ejection system: thermodynamic system for the ejection of "cold" air pockets. Anodized aluminium chamber, 2 electronic temperature sensors (1 inside chamber and 1 outside) and electronic transducer for better control of pressure. Supplied with 3 aluminium trays. Available on request 110 V.

minimum 10 pieces
• 35648 GASKET - spare

35647

93/42/EEC	Medical device
73/23/EEC	Low tension
89/336/EEC	Electromagnetic
EN 13060	Compatibility

CE 0051

Cycles	Materials	Sterilization time	Drying time	Max load	Working pressure
Not wrapped 121° C	•Fragile solids •Rubber solids •Glass •Turbines if indicated by producer	18 min.	5 min. short dry or 15 min long dry	2.1 kg 700 g load in any tray	1.1÷1.2 bars
Not wrapped 134° C	•Stainless metal solids •Turbines if indicated by producer	6 min.	5 min. short dry or 15 min long dry	2.1 kg 700 g load in any tray	2.1÷2.2 bars

TECHNICAL SPECIFICATIONS

Anodized aluminium chamber: ø 17x27 cm - 6.1l
External size: 44x45xh 35 cm
Trays size: 1 large 15x24x2 cm 2 small 11x24x2 cm
2 sterilization cycles: 121°C and 134°C
Maximum load: 2 kg
Operating voltage: 230V - 50/60 Hz
Max absorbed power: 1,300 Watt
Net weight: 27 kg   Class N
Made in Italy - Warranty: 1 year
User manual:
English, Italian, (French, Spanish on request).

PRESTIGE CLINICAL AUTOCLAVES: EXCELLENCE THROUGH DESIGN

CE 0086
ISO 9001

Only 335 mm

35709
340 mm

PRESTIGE AUTOCLAVES - class N
Prestige is one of the world's largest selling and most cost effective automatic autoclave available, with an enviable reputation for reliability, durability, safety and quality.
- Lifetime warranty on heating element
- Method recommended by healthcare professional worldwide including the World Health Organisation (WHO).
- Each autoclave is computer tested and issued with a unique Performance Test Certificate.
- At only 4.5 kg net weight, offers full device portability.
- Supplied with basket, tray, lifting fork.
Recommended for infection control not only in hospital and general medical and dental surgeries, but also in veterinary, chiropody, professional beauty, tattooists, acupuncture, laboratories and schools. Multilingual user manual. Comply with: IEC 601, DIN 58946, EMC, UL 544, BS3970 part 4, ESCHLE

GIMA code	PRESTIGE MEDICAL AUTOCLAVES
35709	Prestige autoclave 9 litres
35712	Prestige autoclave 12 litres
35720	Silicone sealing gasket
35722	Depressurization valve

TECHNICAL SPECIFICATIONS

	35709	35712
Capacity :	9 l	12 l
Chamber internal dimensions (D/H)	210/236	210/328
Maximum instrument length (diagonal):	228 mm	290 mm
Maximum loading weight:	3 kg	4 kg
Width/height:	340/335	340/420

Same specifications for 2 models:
Sterilizing time: 11 minutes
Cycle time (nominal) minutes: 22 minutes
Operating pressure: 1.40 bar
Sterilizing temperature: 126 °C
Operating voltage: 230 V - 50-60 Hz - Power 1.500 Watt
Made in UK - Warranty: 1 year

35712

GIMA VERTICAL AUTOCLAVE H 100 - 9 LITRES - CLASS N

• 35746 H100 GIMA AUTOCLAVE - 9 litres - 230 V
• 35656 H100 GIMA AUTOCLAVE - 9 litres - 110 V
CE 0068
This autoclave is safe and easy to use. It is used to sterilize surgical instruments and hand-pieces which can be sterilized up to 125°C. All this with a sterilization cycle of 15 minutes. It is composed of an external frame of painted steel and a stainless-steel 18/10 body without any welding, with three safety valves.
Safety systems
- Safety lock to prevent opening of the door during the sterilization cycle; the door can only be opened when pressure inside the chamber is levelled to the ambient one.
- Safety valve for vapour exhaust in case of damage with inside overpressure > 2.5 bar.
- Safety thermostat which occurs if the inner temperature of the chamber rises over 135°C.
- Thermodynamic vacuum.

STANDARD ACCESSORIES
Stainless steel basket
Distilled water bottle 1 l
User manual in English, French, German, Italian, Spanish
Rauclair tube
Electric cable

Safety bolt and valve indicating pressure

TECHNICAL SPECIFICATIONS
External size: 258 x 300 x h 370 mm
Size of the sterilizing chamber:
Ø 220 mm - h mm 215
Removable basket: Ø 210 mm - h mm 215
Sterilizing liquid: distilled water
Absorbed power: 1500 Watts
Operating voltage:
110 V or 230 V - 50/60 Hz
Fuses: type 6.3 x 32 mm - 8A
Operating temperature: 125 °C
Sterilizing time: 15 minutes
Operational pressure:
1.6/1.7 bars (170/180 KPa)

Starting cycle knob

35746

◆ GIMA

■ HYDRA EVO ELECTRONIC 15 OR 18 L STEAM AUTOCLAVE - N

• **35658 HYDRA EVO AUTOCLAVE - 15 litres - 230 V**
• **35659 HYDRA EVO PLUS AUTOCLAVE - 18 litres - 230 V**
Automatic steam autoclaves for the sterilization of unwrapped instruments. Closure system with an operator safety pivot. Thermodynamic system for the ejecting of the "cool" air locks.
Two sterilization cycles: 121°C and 134°C
Automatic phases of pre-heating, sterilization cycle and drying.
Pre-set, non-modificable cycles
All cycles are pre-set at the factory and guarantee perfect and safe sterilization of treated materials. There is no way the operator can manipulate or alter the cycles, and this safeguards against risks deriving from human error.
Pre-set temperatures
The temperatures set for our autoclave cycles are 134°C and 121°C. The 134°C cycles are normally used for the sterilization of solid and ferrous materials. 121°C cycles are normally used for sterilization of thermoplastic and delicate materials.
Water tank
Hydra EVO only has one water tank. This tank must be filled with distilled or demineralized water and acts as a container for collecting the used water which is then re-utilized for new cycles.
Safety on the door
Each door is equipped with 2 locks:
- a mechanical one which does not open when pressure is exerted
- a dynamic one, that operates thanks to a special form of door seal
Safety devices installed
- Certified safety valve
- PED on sterilization chambers
- Insulation of the chamber with certified ceramic material.

35658

93/42/EEC	Medical device
73/23/EEC	Low tension
93/336/EEC	Electromagnetic Compatibility

CE 0434 TÜV **CHAMBER TEST** MICROBIOLOGIC CERTIFICATION SINCERT

Controls on the Autoclave
- Control of the water that enters into the chamber
- Safety Thermostat
- Time Control
The sterilization chamber is completely stainless steel AISI 304 and it is heated by a band shaped heating element which grants uniformity of the heat. Supplied with four aluminium trays and one key for their extraction.
User manual available in English, French, Italian, Spanish.
• **35671 Sealing GASKET - spare**
• **35669 HEATING BAND DHY A035 for 35650, 35654**

TECHNICAL SPECIFICATIONS
Stainless steel chamber: ø 24.5 x 32 cm ø 24.5 x 40 cm (Plus)
External size: 44 x 38 x 50 cm (W x H x D)
Net weight: 35 kg
2 sterilization cycles: 121°C and 134°C
Operating Voltage: 230 V±10% - 50/60 Hz
Power consumption: 1.3 KW
Class N
Made in Italy - Warranty: 1 year

Cycles	Materials	Sterilization time	Drying time	Max load	Working pressure
Not wrapped 121° C	•Fragile solids •Rubber solids •Glass •Turbines if indicated by producer	20 min.	5 min.	2.8 kg 700 g load in any tray	1.2÷1.3 bars
Not wrapped 134° C	•Stainless metal solids •Turbines if indicated by producer	10 min.	5 min.	2.8 kg 700 g load in any tray	2.1÷2.2 bars

■ D-500 DIGITAL SEALING MACHINE WITH DOT MATRIX PRINTER

• **35910 D-500 SEALING MACHINE**
D-500 is a continuous sealing machine for medical pouches according to DIN rules 58953, P7 with dot matrix printer. It allows a 12 mm multi-line seal and features stand-by function and automatic infeed through photocell. D-500 is equipped with **built-in printer** to print different data on the bag (sterilization/expiry dates, statutory symbols) during the sealing process in order to provide constant control on the sterility of your instruments, especially when the paper layer of the sterilization bag is less tight, after 30 days, and consequently

losing instruments sterility. Built in epoxy coated stainless steel. D-500 is a sophisticated unit controlled by a microprocessor and equipped with a device to adjust temperature (displayed by LCD) and printing parameters.
The sealing pressure is automatically adjusted according to the material thickness. It also guarantees 30 mm safety distance between seal and product, according to DIN rules. All medical centres wishing to obtain certifications should use D-500 Sealer. Easy to use and maintenance-free, it is the ideal solution for clinics and hospitals.

• **35912 INK-CARTRIDGE D-500 - spare part**

TECHNICAL SPECIFICATIONS
Infeed speed	6 m/min
Temperature control	by digital thermoregulator
Sealing temperature	80°÷200" C
Temperature tolerance	±2%
Seal	Multiline
Seal width	12 mm
Adjustable free edge	0 ÷ 30
Power supply	230 V-50/60 Hz-single phase
Absorption	600 W
Dimensions	495 x 220 x 172 mm
Net weight	12 kg
Made in Italy	

■ D-351 SEALING MACHINE: ELECTRO-MAGNETE OPERATION

Electromagnet closing

35900

- The electro-magnet guarantees a steady sealing pressure for the whole set period.
- The sealing bar opens automatically at the end of the cycle, requiring no action by the operator.

Quick
- The electro-magnetic system allows a substantial saving of the packing time. Quick foil feeding.

Safe
- The machine does not start the sealing cycle if there is an object with a thickness over 3 mm between the bars.
- The electronic temperature control through a NTC probe provides a perfect temperature accuracy from seal to seal.
- The electronic alarm function avoids any overheating.
- **35902 TEFLON - spare**
- **35903 RESISTOR - spare**

• 35900 D-351 IMPULSE SEALING MACHINE
It is the latest development of the compact impulse medical sealers, conform to DIN 58953 P.7 rules, specially designed to be used in medical, dental, oculistic surgeries and test laboratories.
Main features:
- Sealing and cutting length 35 cm - Safety check with alarm.
- Main board with temperature control to avoid overheating of the sealing wire - Sealing bars closed by electromagnet Complete with foil-roll dispenser and built-in cutting device.
Easy
- By the pressure of only one finger, without using levers, the bars close automatically.

TECHNICAL SPECIFICATIONS
Sealed materials: paper/polyethylene/polyester - Tyvek®
Sealing length: 350 mm
Sealing width: 8 mm as per DIN 58953 P. 7 rules
Electronically controlled sealing time: 0.5 sec.
Cutting length: 350 mm
Foil-roll dispenser 350 mm
Power: 230V- 50/60 Hz single - phase
Max absorption: 700W, only during the sealing time
Dimensions: 44x17.5x31 cm   Weight: 18 kg
Built in accordance with CEI EN 60204- 1 rules
Made in Italy

■ COMPACT SIZE ELECTRONIC THERMOSEALING MACHINE

Made in Italy
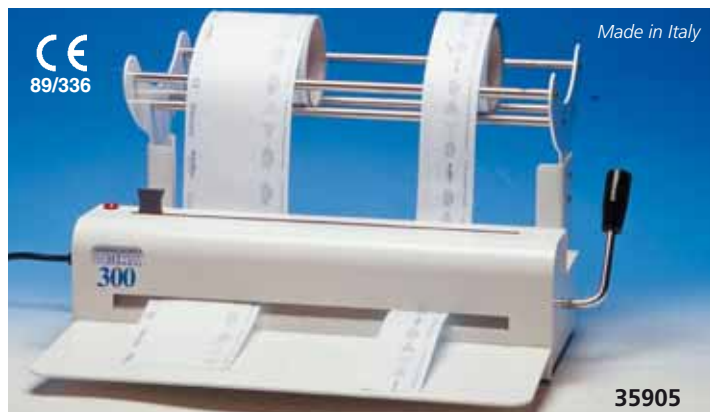
35905

• 35905 GIMA V300 VERTICAL THERMOSEALER
A new concept of Thermosealer.
Vertical thermosealer for small places:
The innovative vertical shape and its compact size enable the use of this machine in any small place.
Its width, including the support plane is only 42 cm.
Safety features:
Security was the first priority in the development of this device, all units are provided with 3 different safety features:
- Protective guard to avoid the contact between fingers and blade of the sealing unit
- protected resistor group
- automatic auto shut-off timer in case of probe failure
Quick sealing in 3 - 5 seconds:
The advanced system of automatic sealing control avoids paper and rolls burning enabling the quick and continuous sealing of hundreds of pieces, **sealing time from 3 to 5 seconds!**
- **35907 TEFLON V 300 - spare**
- **35908 GROUP RESISTOR V300 - spare part**

TECHNICAL SPECIFICATIONS	
Sealing width: 12 mm	Power resistance: 100 W
Sealing length: 300 mm.	Operating Voltage: 220/230 V - 50/60 Hz
Support plane size: 15 cm	115 V on request
Sealing time: 3 to 5 seconds	Size: 42x39.7x14.3 cm
Weight: 5 Kg	All components IMQ, UL, DVE approved

■ ULTRA-COMPACT SEALINGS FOR 300 MM AND 450 MM SEALS

COMPACT SEALINGS
A revolutionary thermosealing at unbeatable price.
Extremely compact, only 12.5 cm depth, allows very quick sealings   in 3-5 seconds.

Available in 2 versions
for 300 mm or 450 mm sealings

- **35920 GIMA B300 COMPACT SEALING**
- **35921 GIMA B450 COMPACT SEALING**
- **35907 TEFLON B300 - spare**
- **35908 GROUP RESISTOR B300 - spare**
- **35923 TEFLON B450 - spare**
- **35924 GROUP RESISTOR B450 - spare**

TECHNICAL SPECIFICATIONS		
	GIMA B300	**GIMA B450**
Sealing length:	300 mm	450 mm
Sealing width:	12 mm	
Sealing time:	3 to 5 seconds	
Power resistance:	100 W	150 W
Weight:	3,5 kg	4,5 kg
Size:	43x12.5x14 cm	59x12.5x14 cm
Operating voltage:	230 V - 50/60 Hz (115 V on request)	
All components, IMQ, UL, DVE approved		
Conform to "Low Tension" CEE 73/23 Made in Italy		

ROLLS FOR AUTOCLAVE AND HOT AIR STERILIZATION

GIMA code	ROLLS FOR HOT AIR STERILIZATION		Minimum order
35801	Flat rolls 200 m x 100 mm	HR 41	3 rolls
35802	Flat rolls 200 m x 150 mm	HR 42	2 rolls
35803	Flat rolls 200 m x 200 mm	HR 43	1 roll

GIMA code	ROLLS FOR AUTOCLAVE AND ETO - FLAT	Minimum order
35810	Flat rolls 200 m x 50 mm	8 rolls
35811	Flat rolls 200 m x 75 mm	8 rolls
35812	Flat rolls 200 m x 100 mm	4 rolls
35813	Flat rolls 200 m x 150 mm	4 rolls
35814	Flat rolls 200 m x 200 mm	2 rolls
35817	Flat rolls 200 m x 250 mm	2 rolls
35815	Flat rolls 200 m x 300 mm	2 rolls
35816	Flat rolls 200 m x 400 mm	1 roll

GIMA code	GUSSET ROLLS FOR AUTOCLAVE AND ETO	Minimum order
35871	Gusset rolls100 m x 100 mm x 25 mm	4 rolls
35872	Gusset rolls100 m x 150 mm x 25 mm	4 rolls
35873	Gusset rolls100 m x 200 mm x 30 mm	2 rolls
35874	Gusset rolls100 m x 250 mm x 32,5 mm	2 rolls
35875	Gusset rolls100 m x 300 mm x 40 mm	1 rolls
35876	Gusset rolls100 m x 400 mm x 40 mm	1 rolls

FLAT ROLLS for hot air sterilization (160-180°C)
Flat rolls manufactured in transparent, high quality plastic to withstand the high temperatures used in hot air sterilization.
Material can be exposed to temperatures between 160-180°C, with exposure time 30 to 120 minutes. Over 180°C rolls become dark and burn. **Each roll is 200 m long.**
FLAT ROLLS for sterilization by autoclave or ethylene oxide gas
Flat rolls consist of transparent, polyester-polypropylene film coupled to medical grade paper which permit steam and gas penetration during sterilization. Steam and gas indicators provide clear colour changes when exposed to sterilization process. **Each roll is 200 m long.**

GUSSET ROLLS for sterilization by autoclave or ETO
Made with coated film PET 12/PP 40 green and 60 g medical white paper. For sterilization of voluminous objects.
Each roll is 100 m long.

FLAT AND SELF-SEAL POUCHES FOR AUTOCLAVE

4. These consist of one layer of laminated transparent film (special type polyester and copolymer polypropylene) and white damp-resistant medical Kraft paper, specially designed to assure a high anti-bacterial protection.
5. The heat-sealed lines (Multiline) are highly resistant and spaced equally; the external welding runs along the entire length of the pouch.
Reels and pouches are certified and are manufactured according to international standards DIN 58953 BS 6871, EN 868-5, CN 13485

OTHER SIZES AVAILABLE
minimum 10,000 pouches

GIMA code	FLAT POUCHES FOR AUTOCLAVE AND ETO	Minimum order
35880	Flat pouches 100 x 300 mm	1,000
35881	Flat pouches 150 x 200 mm	1,000
35882	Flat pouches 150 x 250 mm	1,000
35883	Flat pouches 150 x 300 mm	1,000
35884	Flat pouches 150 x 400 mm	1,000
35885	Flat pouches 200 x 300 mm	1,000
35886	Flat pouches 200 x 350 mm	500
35887	Flat pouches 200 x 400 mm	500
35888	Flat pouches 250 x 400 mm	500
35889	Flat pouches 250 x 500 mm	500
35890	Flat pouches 300 x 400 mm	500
35891	Flat pouches 400 x 600 mm	500
35895	Special size pouches	10,000

SELF-SEAL POUCHES
for sterilization by autoclave or ethylene oxide gas

Self-seal pouches consist of light green, polyester-polypropylene transparent film coupled to medical grade paper which permit steam and gas penetration during sterilization.
Steam and gas indicators change colour when exposed to sterilization.

1. Reinforced corners to prevent dust from collecting near to the opening, reducing the risk of contamination during opening.
2. The laminated transparent film complies with the German standard EN 10/204. The medical paper conforms to the following standards: DIN 58953 (German), Pharmacopea 589 (French), pr EN 868-3 (European) and BS 6256 (English).
3. The chevrons allow rapid and correct opening.

GIMA code	SELF-SEAL POUCHES FOR AUTOCLAVE AND ETO	Minimum order
35860	Self-seal pouches 90 x 165 mm	1,800
35861	Self-seal pouches 90 x 230 mm	1,800
35862	Self-seal pouches 140 x 250 mm	1,200
35863	Self-seal pouches 190 x 330 mm	1,200
35864	Self-seal pouches 190 x 400 mm	1,200
35866	Self-seal pouches 300 x 450 mm	400

■ PULSE OXIMETER

• 34343 OXY-100 VET PULSE OXIMETER
Veterinary pulse oximeter supplied with tongue SpO_2 probe with 2 rubber adaptors for small or large tongues

34343

• 34346 VET SpO_2 PROBE KIT including 2 Y type sensors (small and big animals) and set of 3 rubber probe adapters (small tongue, large tongue, wrapper for ear, leg or tail). See specification at page 161.

■ EtCO₂ + SpO₂

$$EtCO_2 + SpO_2$$

• 33703 VET OXY CAPNOGRAPH
For veterinary applications.
For complete informations see page 162.

■ VET MONITORS

• 33719 BM3 VET MONITOR
• 33723 BM3 PLUS VET MONITOR
• 33781 BM5 VET MONITOR
For complete information and technical specifications see page 158-159.

■ BATTERY ULTRASOUND UNIT FOR VETERINARY USE

Size: 326x162x47 mm
Weight: 1,5 kg

Battery autonomy 2 hours when fully charged (charge time 4 hours)

Power supply: 100-240 V 50-60 Hz

6,4" LCD monitor 256 gray scale

• 33070 KX 5100 PORTABLE ULTRASOUND UNIT - without probes
Full digital B mode ultrasonic diagnostic instrument.
Applicable to abdominal, seminal and small organs examination for Bovine, Equine, Ovine, Canine and Feline.
The smart and compact design, internal rechargeable battery and USB port allow this device to be a fully portable unit.

GIMA code	PROBES			Applications			
	Outlook	Scanning Method	Frequency (MHz)		Pregnancy	Abdominal	Cardiology
33071		Convex	3.5	Ovine		●	
				Canine		●	
33072		Convex	5	Equine		●	●
				Bovine		●	●
33073		Linear	7.5	Ovine		●	
				Feline		●	
33074		Transvaginal	6.5	Canine	●		
				Ovine	●		

• 33967 SONY PRINTER UP-897 MD
• 33075 LOUPES
These loupes are specifically developed for vets who may use this device in illuminated places.
• 33077 VETERINARY SOFTWARE
Images acquisition and storage, data and visit management, customized reports printing, MS Win XP, ME, 2000 full compatibility videograbee directly connected to the instrument's video source for image acquisition.
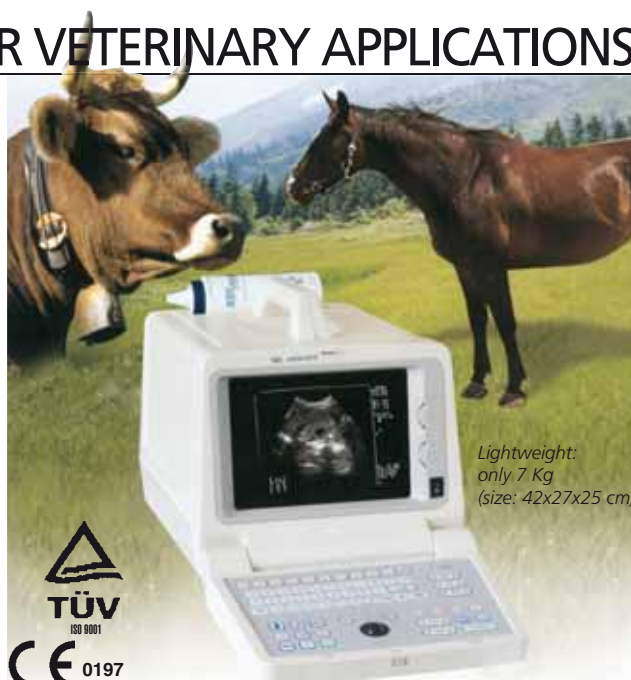
33075
Can be connected to ultrasound

■ PORTABLE ULTRASOUND UNIT FOR VETERINARY APPLICATIONS

• 33936 VETERINARY ECOGRAPH 10" SVGA monitor with two probe connectors, cine memory card, without probes.
- Image reversing: left/right, up/down, positive/negative
- Zooming: x 1.0, x1.2, x1.5, x2.0 with scroll-up depth control
- Measurements: distance, circumference, area, volume (bladder volume, thyroid volume), 15 body marks.
- Reproduction software: Bovine: BPD, CRL, Trunk diameter, Equine: GA, Canine: GS, CRL, HD, BD, Feline: HD, BD
Ovine: BPD, CRL, Trunk, Diameter
- Power supplies: 230V/50 Hz (110V/60 Hz on request)
• 33967 SONY PRINTER UP-897 MD

GIMA code	PROBES		Frequency (MHz)		Applications			
	Outlook	Scanning Method	Main freq.	4-Step Multi-frequency		Pregnancy	Abdominal	Cardiology
33932		Convex	3.5	2.5/3.5/4.0/5.0	Ovine		●	
					Canine		●	
33938		Linear Rectal	5	3.5/5.0/6.0/7.0	Equine	●		
					Bovine	●		
					Ovine	●		
33939		Micro-convex	5	3.5/5.0/6.0/7.0	Feline		●	●
					Canine		●	●

Lightweight: only 7 Kg (size: 42x27x25 cm)

TÜV ISO 9001

CE 0197

VET COLOUR DOPPLER - see page 153

VETERINARY ECG - 1 AND 3 CHANNEL

192x64 pixel LCD

33306

Support USB ink-jet printer for 7 leads printing.120 patient data storage and transfer by USB flash disk, Ethernet or series port
Power: 110-115V / 220-240V, 50/60 Hz

- **33305 VE-100 - 1 channel ECG**
- **33306 VE-300 - 3 channel ECG**
- **33336 ECG-Viewer software (English and Italian)**
- Complete digital design
- LCD display waveforms, parameters configurable
- 7 leads simultaneous acquisition (only 33306)
- built in rechargeable Li-ION battery for 3 hours use (AC/DC supply)
- automatic ECG parameter measurement and analysis (33306 only)
- complete digital filter, avoid baseline drift, AC, EMG interfere. Baseline automatically adjustable, optimize printing position.
- **33801 Thermal PAPER roll 50mm x 25m for 33305**
- **33802 Thermal PAPER roll 80mm x 25m for 33306**
- **33319 5-LEAD VETERINARY ECG CABLE - spare**

VET OTOSCOPES, OPHTHALMO AND DIAGNOSTIC SETS

31442

Open otoscope head is supplied with codes 31422, 31424, 31425

31424

31422

31425

• **31442 PARKER VETERINARY OTOSCOPE**
Includes:
- Kit of 3 reusable plastic cannulas (31447)

31447

31451

• **31424 XENON HALOGEN DIAGNOSTIC SET** - plastic cannulas
Includes:
- Xenon halogen open otoscope head+handle
- Xenon-halogen ophtalmoscope head
- Kit of 5 reusable plastic cannulas (31451)
- Metal tongue depressor holder illuminator
- Nasal specula

31453

Easy adjustable with finger clip

31454

• **31422 XENON HALOGEN OTOSCOPE SET**
Includes:
- Xenon-halogen open otoscope head+handle
- Kit of 5 reusable plastic cannulas (31451)
- Kit of 3 reusable plastic cannulas (31447)

• **31425 XENON HALOGEN DIAGNOSTIC SET** metal cannulas
Includes:
- Xenon-halogen open otoscope head+handle
- Xenon-halogen ophtalmoscope head
- Kit of 3 reusable metal cannulas + 2 metal specula (31453)

GIMA code	VETERINARY SETS AND ACCESSORIES
31451	Kit of 5 reusable plastic cannulas (Ø 2.5, 3.5, 4.5, 5.5, 9 mm)
31447	Kit of 3 reusable plastic cannulas (Ø 4, 5, 7 mm)
31453	Kit of 3 reusable metal cannulas (Ø 4, 5, 6 mm) + 2 slotted metal specula (Ø 7.5, 9.4 mm)
31454	Nasal specula
31427	Xenon halogen otoscope bulb
31428	Xenon halogen ophthalmoscope bulb
31449	Standard otoscope bulb

VET STETHOSCOPE

• **32545 REGALITE VET - black**
Top quality single head stethoscope. Patented multi-frequency "ring-o-raised™" diaphragm system. Chromed plated chestpiece with "SUPERFLEX" inner spring binaural and 1 piece moulded PVC, latex free, tubing 90 cm long. Supplied in deluxe box, with spare soft eartips and one spare diaphragm.

90 CM LONG Y TUBE

32545

CE

THERMOMETER

FAST ONLY 8 SECONDS

• **25588 VET RECTAL THERMOMETER**
Designed to be ergonomically correct for animals. Selectable setting for pets, pigs and cattle. Suitable also for other animals.

TECHNICAL SPECIFICATIONS
Measurement range: 32 ~ 43°C
Accuracy: ± 0.1°C (35 ~ 39°C);
± 0.2°C (<35°C~ >39°C)
Battery life is approximately 5000 readouts
Dimension: 190x110x35 mm

INSTRUMENTS
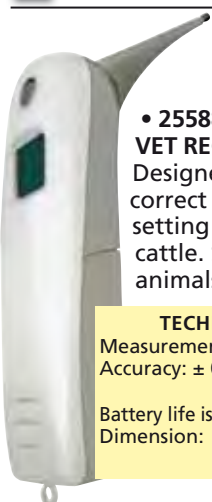
80007

80010
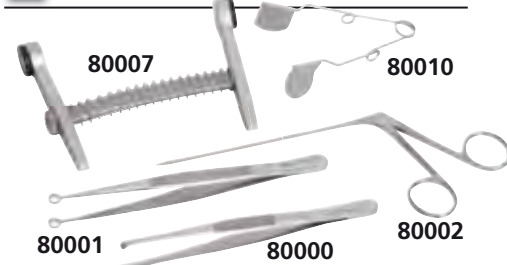
80001

80000

80002

80000 Durante forceps - 15 cm
80001 Terza palpebra forceps - 11 cm
80002 Long Hartmann - 14.5
80005 Mouth opener - 7 cm
80006 Mouth opener - 11 cm
80007 Mouth opener - 15 cm
80010 Rodent mouth opener - 6 cm
80011 Rodent mouth opener - 8.5 cm

VETERINARY SCALES FOR LARGE AND SMALL ANIMALS

UP TO 300 KG

• **27257 ELECTRONIC VET SCALE**
High reliable and professional scale. Robust metal platform with a separate digital display.

TECHNICAL SPECIFICATIONS	
Capacity/Sensitivity:	300 Kg/ 100 g
Dimensions:	950 x 500 x 45 mm
Rechargeable battery pack 15V, 300 mA	
Full recharging time: 14 hours	
Operating time from full recharge:	8 hours
Power supply:	230V/50Hz

• **27258 DIGITAL VET SCALE - medium**
• **27259 DIGITAL VET SCALE - large**
Precise electronic multifunctional scale, available in two sizes.
Quality product with very competitive price.
Made in Europe.

• **27261 DIGITAL SMALL PET SCALE**

TECHNICAL SPECIFICATIONS	
Capacity/Sensitivity:	20 kg/ 10 g (27261)
	100 Kg/ 100g (27258-27259)
Dimensions:	355x635 mm (27258)
	620x830 mm (27259)
Lithium battery:	(included)
4 sensor high precision strain-gauge system	
Automatic switch-off	
LCD display 25 mm	
Lb/Kg/st switchable by user	

DIAGNOSTIC AND OPERATIVE VETERINARY TABLES

• **80300 VETERINARY EXAMINATION TABLE**
Veterinary operating table with enamelled tubular steel frame, with AISI 304 15/10 stainless steel top with hole and a liquid tray holder underneath. Lateral hook to immobilize animals. Made in Italy.
Size: 120x60xh 85. Weight: 24 Kg.

• **80301 VETERINARY OPERATION TABLE**
Veterinary operating table with electric lift (82/102 cm), baked enamelled steel tubular frame and AISI 304 stainless steel top (120x56 cm) with hole and a liquid bucket holder underneath. Manual trendelenburg 15° and antitrendelenburg up to 15°. Lateral hook to immobilize animals. Made in Italy.
Size: 118x56xh 85/102. Weight: 50 Kg. Max load: 90 kg.

FASTENING CAGE

• **80310 TRAVELLING CAGE**
Fastening cage for small animals with reclining front door and sliding back door. Enamelled steel structure with tray made of AISI 304 stainless steel. Made in Italy.
Size: 30x40xh 37 cm.
Weight: 3 kg

URINE STRIPS

ASCORBIC ACID PROTECTED

*Performes highest quality standard. Made in Germany*

• **24100 VETERINARY URINE STRIPS - 11 parameters - bottle of 100 strips**
For examination of glucose, ascorbic acid, ketones, protein, ph-value, blood, nitrite, leukocytes, specific gravity, bilirubin, urobilinogen. Each box includes a special manual for interpretation of results in each of the following animal: horses, pigs, cattles, sheeps, goats, dogs, cats, bunnies and guinea pigs.
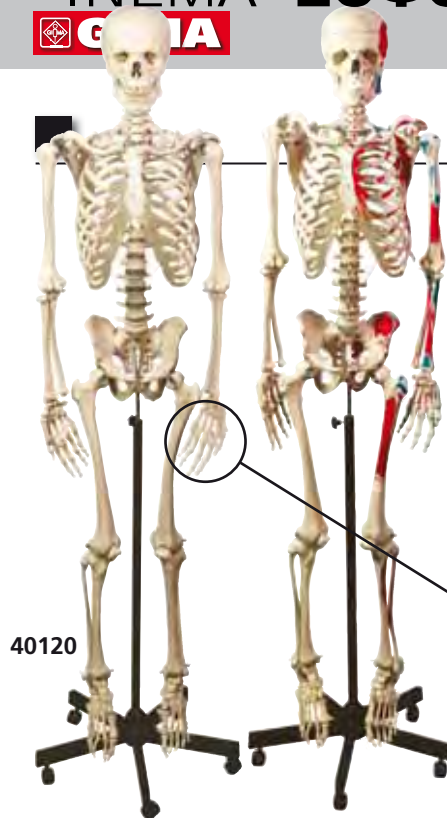Made in Germany by Analitika

VET GLUCOSE STRIP

Glucose Strips
5 strips

VETERINARY

Negative | 100 | 250 | 500 | 1000 | 2000 or more
Glucose 30 sec. mg/dl
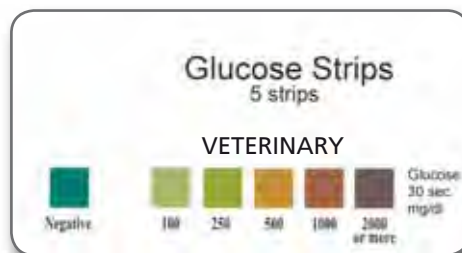
• **24105 GLUCOSE STRIPS**
minimum order: box of 50 strips (10 bags of 5 strips)

Single parameter urine strips specifically developed for veterinary use.

GIMA

SKELETONS AND SKULLS

40125 **40115**

40120

• **40115 MINI SKELETON**
Height: 80 cm Weight: 1.5 kg. This 1/2 life size model shows the anatomy of the human skeleton in high detail. The skull can be disassembled into 3 parts: skullcap, base of skull and mandible. All the main joints are articulated. Arm and legs can be removed easily. Mounted on a stand for hanging.

• **40120 HUMAN SKELETON**
Height: 170 cm Weight: approx 10 kg. This model is a replica of a life size human skeleton and shows all the skeleton part in high details. It's hand-assembled to provide intricate details and long-lasting durability. The main joints are articulated; the upper and lower limbs can be removed easily. The following parts are detachable: Calvarium, Skull, Jaw, Arms, Legs. Supplied with 5-caster roller stan.

• **40125 MUSCULAR HUMAN SKELETON**
Same as code 40120 but with the left side of the skeleton that shows the point of origin (red) and the point of insertion (blue) of the muscles.

• **40160 HUMAN SKULL**
• **40161 HUMAN SKULL - numerated**
Size: 22x14x16 cm - weight: 950 g - 3 parts. A detailed reproduction of a life size human skull with all structural details. The skullcap is removable to show internal details. The mandible is articulated and removable. All of the joints, sutures, fissure, foramina and processes are portrayed with utmost accuracy. Significant structures are numerated (only for 40161).

VERTEBRAL COLUMNS

SKELETAL SYSTEM

40185

40137 **40138** **40180**

40136

Cervical spinal column consists of 7 cervical vertebrae with intervertebral discs, occipital plate, cervical nerves, vertebral arteries, spinal cord and brain stem.

Thoracic spinal column consists of 12 thoracic vertebrae with intervertebral discs, thoracic nerves and spinal cord.

Lumbar spinal column with sacral and coccyx bones. It consist of 5 lumbar vertebrae with intervertebral discs, lumbar nerves and spinal cord. The sacral crest and coccyx are removable

3 lumbar vertebral with hernia and prolapsed intervertebral disc. Shows 3 lumbar vertebrae with spinal nerves, dura mater and 2 intervertebral discs affected by lateral and media hernia.

GIMA code	SKELETAL SYSTEM	Size cm	Weight	Magnif.
40136	CERVICAL SPINAL COLUMN	12x12x32	350 g	1X
40137	THORACIC SPINAL COLUMN	12x12x40	600 g	1X
40138	LUMBAR SPINAL COLUMN	12x12x36	800 g	1X
40180	HERNIA PATHOLOGY	16.5x12x26	300 g	1X
40185	ADVANCED OSTEOPOROSIS	12x12x15	200 g	1X

40130 **40131** **40132** **40133**

FLEXIBLE VERTEBRAL COLUMNS
Fully flexible life size vertebral columns consisting of the occipital plate, cervical, thoracic and lumbar vertebrae, sacrum, coccyx, complete pelvis with symphysis, removable femur heads (only 40130,31,32).
All models also features representation of the vertebral arteries, spinal nerve branches, and a prolapsed L3-L4 intervertebral disc.
On 40131 the left side of the skeleton shows the points of origin (red) and the point of insertion (blue) of the muscles.
On 40131 and 40132 the sacral crest and coccyx are removable to show the sacral section of the spinal card and associated nerve branches.
On 40133 the various regions of the spinal column are colour coded for easy identification.

| GIMA code	FLEXIBLE VERTEBRAL COLUMNS	Size cm	Weight	Magnif.
40130	VERTEBRAL COLUMN with femur heads	95x20x20	3 kg	1X
40131	VERTEBRAL COL with femur + muscle	95x20x20	3 kg	1X
40132	VERTEBRAL COL with femur + open sacrum	95x20x20	3 kg	1X
40133	SPINAL COL with colour coded regions	98x23x23	970 g	1X

KNEE AND SHOULDER

• **40140 SHOULDER JOINT**
Size: 29x12x12cm - 560g - 1 part - 1X Mounted on stand.

• **40145 KNEE JOINT**
Size: 12x12x31cm - 440g - 1 part - 1X
The life size model represents a functional model of knee joint with lateral ligaments, meniscus and patellar ligament.
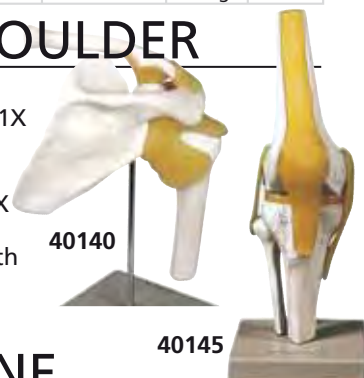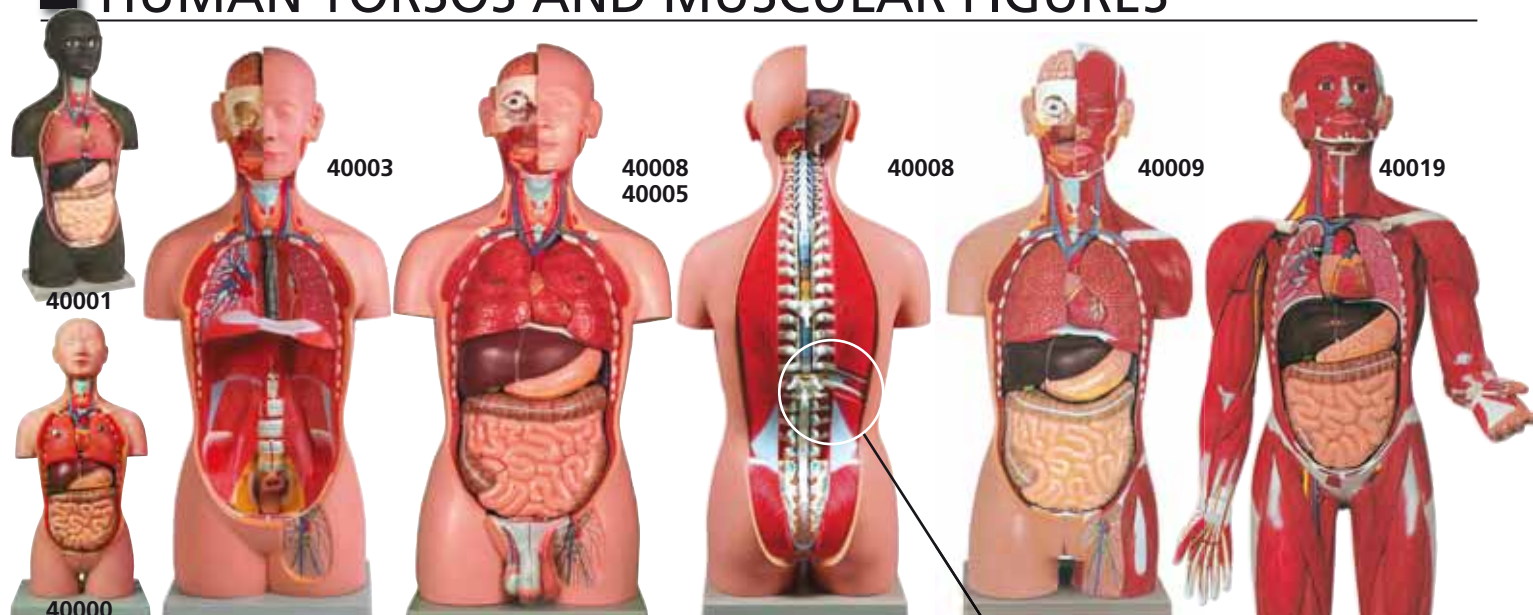
40140

40145

ORAL HYGIENE

• **40200 ORAL HYGIENE**
Size: 12x16x22 cm - weight: 1 kg
Mounted on base.
A 3X life size model that is useful for teaching the correct way to brush teeth. A giant toothbrush is included.

■ HUMAN TORSOS AND MUSCULAR FIGURES

40003

40008
40005

40008

40009

40019

40001

40000

GIMA code	HUMAN TORSOS *SUPPLIED WITH CD ROM GUIDE	Size	Weight	Parts
40000	MINI TORSO	20x15xh45 cm	2.1 kg	16
40001	MINI TORSO - african	20x15xh45 cm	2.1 kg	16
40003	TORSO UNI SEX *	23x33xh90 cm	9 kg	16
40005	TORSO DUAL SEX*	23x33xh90 cm	9.3 kg	25
40008	TORSO DUAL SEX OPENBACK*	23x33xh90 cm	9.3 kg	27
40009	MUSCULAR TORSO DUAL SEX OPENBACK*	23x33xh90 cm	10 kg	28
40019	MUSCULAR FIGURE	30x33xh87 cm	5.3 kg	30

Some of the detachable parts of human torsos:

Removable structures, of codes 40005-8-9, include the following: - eye with optic nerve and extraocular muscles - half of the brain - trachea - descending thoracic aorta and esophagus - right and left lungs (two parts each)- liver with gallbladder - half of one kidney - two part heart - stomach dissected in two parts (not for 40005) - pancreas, duodenum and spleen - small and large intestines - male and female urogenital systems (4 parts each), (on 40009 femal system is provided of fetus detachable in 3 parts) - thoracic vertebra (T12) with spinal cord (code 40008 and 40009 only).

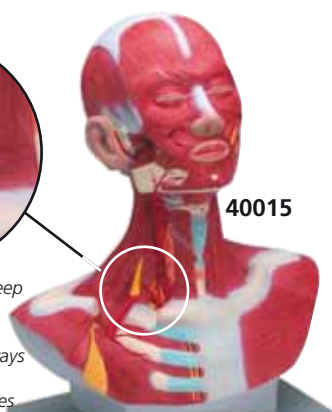*Detachable parts of human muscolar figure 40019:*

■ HEAD MUSCULATURE

• 40015 HEAD/NECK MUSCULATURE
Size: 37x23x46 cm
- 3.1 kg - 1 part - life size

40015

Superficial and deep musculature are well represented as are the path ways of the subclavian and carotid arteries

■ MUSCLES

40017

40016

• 40016 SHOULDER MUSCLE
Size: 23x19x11 cm - 435 g - 1 part - 1X
• 40017 ARM MUSCLE
Size: 74x20x12 cm - 1.9 kg - 7 parts
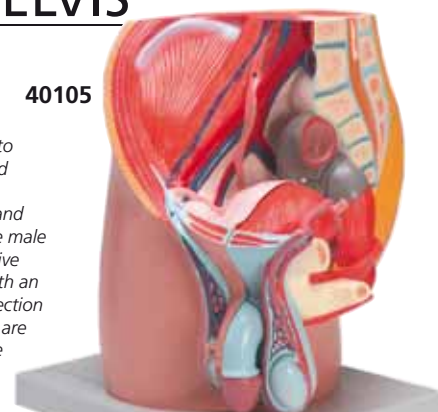**• 40018 LEG MUSCLE**
Size: 110x19x14.5 cm - 5.1 kg - 13 parts
Mounted on base with stand

■ PELVIS

40105

Half penis divided into medial and transverse sections, and half of the male reproductive system with an open dissection of a testis are removable

| GIMA code	PELVIS size	Sex	Kg	Parts	Mag
40100	25x16x27	fem	1.3	3	1X
40105	25x18x27	male	1.5	4	1X

208

GIMA

■ EAR

40040

40041-40042

These models (40041-40042) show the external, middle and inner ear. The eardrum with malleus, incus and stapes are removable. Also cochlea and labyrinth with vestibular and cochlear nerves and 2 bones sections (40042 only) that define the middle and inner ear are removable.

GIMA code	EAR SIZES	Kg	Parts	Mag
40040	16x11x10 cm	0.2	3	1X
40041	33x23x21 cm	1	3	3X
40042	33x23x21 cm	2	5	3X

■ EYE

40031
40033
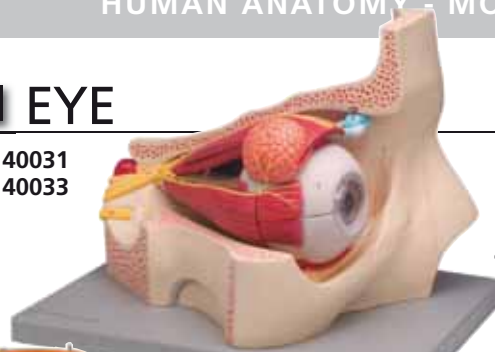
40030

Models show the eye ball with optic nerves and muscles in its natural position in the bony orbit

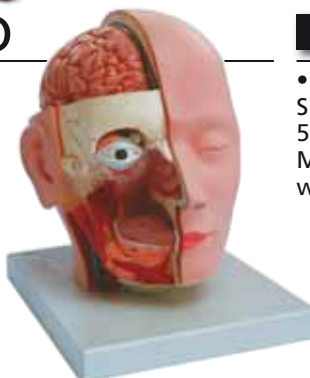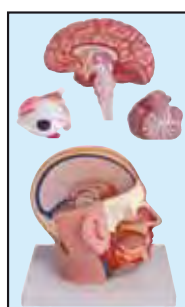| GIMA code	EYE WITH ORBIT SIZES	Kg	Parts	Mag
40030	16x17x26 cm	1.1	6	6X
40031	42x30x31 cm	3.2	4	5X
40033	42x30x31 cm	3.4	11	5X

■ BRAIN

Life size

Can be divided into 9 parts showing the temporal and occipital lobes, the frontal and parietal lobes, the cerebellum, the brain stem and basilary artery

• **40020 BRAIN WITH ARTERIES**
Size: 16x18x16 cm - 1 kg - 9 parts - 1X

■ HEAD

• **40010 HEAD DISSECTION - life size**
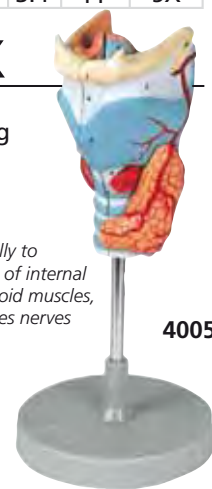Size: 18x25x23 cm - 140 g - 4 parts - 1x

■ LARYNX

• **40058 LARYNX**
Size: 18x11x8 cm - 450 g
5 parts - 2X
Mounted on base
with stand.

Sectioned longitudinally to reveal intimate details of internal structure including hyoid muscles, vessels, bone, cartilages nerves and thyroid gland
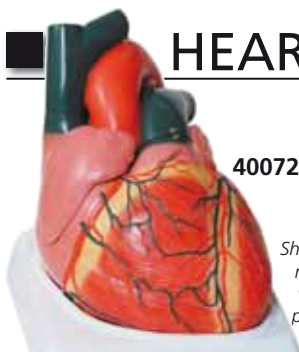
40058

■ SKIN

Anatomical structures are shown in details including the hair follicles, sebaceous glands, sweat glands, erector muscles, Pacinian corpuscles, nerves and blood vessels

• **40060 SKIN MODEL - 70X**
Size: 25x18x28 cm - 1.5 kg - 2 parts - 70X

■ HEART

40072

40071

Show internal structures including cardiac valves and the comparative morphology of the right and left ventricles

GIMA code	HEART SIZES	Kg	Parts	Mag
40071	11x7.5x9.5 cm	0.23	2	1X
40072	24x25x28 cm	2.9	4	3X

■ RESPIRATORY SYSTEM

• **40050 RESPIRATORY SYSTEM**
Size: 26x40x12 cm
- 1.3 kg
- 7 parts life size

■ DIGESTIVE AND URINARY SYSTEMS

40080

This model, 1.5x life size, shows the liver and gallbladder in open section with the complex network of vessels and bile ducts, displayed in different colours to clarity and ease of examination.

Accurate representation of the pancreas, spleen and duodenum. The pancreas is open to show the entire pancreatic duct. The duodenum is partially dissected to expose its internal structure.

40086

Can be opened to show the internal structure of the stomach, including the mucosa, the pylorus, and a section of the gastric wall. Superficial dissection exposes the longitudinal, circular and oblique muscle layers, with nerves and vascular structures
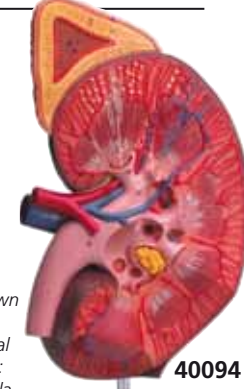
40088

Shows the male urinary bladder with the prostate gland surrounding the urethra

40090

The kidney is shown with the renal capsule. Additional structures include: the cortex, medulla, pyramids with papillae, partially dissected renal pelvis, renal calices, ureter, blood vessels, suprarenal gland with cortex and medulla.

40094

GIMA code	DIGESTIVE AND URINARY SYSTEMS all supplied with table stand	Size	Weight	Parts	Magnif.
40080	LIVER SECTION WITH GALLBLADDER	28x27x14 cm	880 g	1	1.5X
40086	PANCREAS, DUODENUM AND SPLEEN	16x15x23 cm	350 g	1	1X
40088	STOMACH	16x14.5x5 cm	235 g	2	1.5X
40090	MALE URINARY BLADDER WITH PROSTATE	27x20x15 cm	1.2 kg	2	3X
40094	KIDNEY WITH ADRENAL GLAND+RENAL CORPUSCLE	40x15x8 cm	1.2 kg	1	3X