

# Production Engineering - Medical Equipment Division

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## Neurology / EEG / EMG

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Click here for: [Surgical Microscopes](#)

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### Stimulus generator - \$875



List: \$3,400. MedCon: VG. Radionics 433-A stimulus generator. 117 V, 50/60 Hz.

Features:

- generates 1 ms duration square wave pulses
- adjustable pulses/sec
- adjustable volts dials with 1X and 10X multipliers
- active stimulus flashing indicator light and audible click
- output jacks
- Operating Instructions printed on top of the instrument
- 9.5-foot power cord with hospital grade plug

Overall dimensions of the unit:

- width: 8.25 in.
- depth: 6.5
- height: 6

Shipping weight is about 8 pounds.

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### Electromyography connect box - \$475



List: \$1,980. MedCon: VG. Circon Surgitek OM-5 patient connect box, model 45104-502.

Features:

- plus, minus and ground lead connectors
- three pressure inputs, 7-pin, Pabd, Pves, and Pura
- 10.5 foot cable with 15-pin connector to EMG machine
- patient clip-on on back

Overall dimensions of the unit:

- width: 4 in.
- depth: 6.5
- height: 1.5

Shipping weight is about 3 pounds.

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## Electro convulsive therapy ECT unit - \$2,975



List: \$10,850. MedCon: VG. Mecta model SR electro convulsive therapy ECT unit. 120 V, 48-62 Hz. Instrument does not have the stimulus output cable.

Features:

- dual channel chart recorder
- patient ECG cable and monitor function
- chart recorder, 25 and 50 mm/sec speeds
- stimulus characteristics
  - bidirectional square wave pulse
  - 90 Hz. frequency
  - 1.0 ms pulse width
  - duration, 0.1-4 seconds in 256 steps
  - energy range, 2.5-101.4
- LCD message and display screen
- channel 1 and 2 instrument amplifier output connectors on back of unit
- 9.5 foot power cord with hospital grade plug

Curiously, the model SR-2 has less in the way of adjustable controls (stimulus control dials) than the SR. This may be due to presets for optimal settings.

Overall dimensions of the unit:

- width: 21.5 in.
- depth: 16.25
- height: 7.75

Shipping weight is about 45 pounds.

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## Neuromuscular stimulator - \$475



List: \$2,900. MedCon: VG. Medtronic Respond II neuromuscular stimulation system. Used for retarding disuse atrophy, relaxing spastic



muscles, and muscle reeducation

Features:

dual channel with two sets of lead cables included

- adjustable pulse rate, 3-50/sec
- adjustable cycle on and off times, 2-55 sec
- adjustable rise and fall times
- stimulator with belt clip has dimensions of 3.5 x 5 x 1.25 inches
- operates on 3 AA alkaline batteries or one AA rechargeable battery pack
- clinician control panel
- instruction manual
- selection of electrode pads

Overall dimensions of the case:

- width: 14 in.
- depth: 11
- height: 3.25

Shipping weight is about 4 pounds.

## EMG / Evoked potential system - \$4,750



List: \$66,800. MedCon: VG. Nihon Kohden Neuropack 8 electromyograph and evoked potentials system, model MEB-4200A. 117 V, 60 Hz.

Features:

- mobile cart with transport handle, front-locking casters, supplies drawer and supplies bin on back of unit
- 4-channel amplifier
- adjustable time scales, gains, waveforms and stimulator output
- a variety of EMG, visual and auditory tests including PR-VEP, ABR, SSEP, MUP SEP trends
- 13-inch color monitor with adjustable brightness and contrast
- keyboard for patient data entry
- Nihon Kohden JB-482B headbox
- Nihon Kohden RY-440B hand-held stimulator
- chart recorder, 8.25 inch paper
- floppy disk drive
- additional equipment receptacle on cart could support photic stimulator and arm
- 8.5-foot power cord with hospital grade plug



control panel






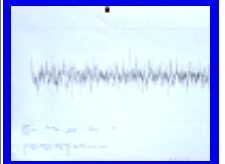


accessories  
connection panel



manufacturer's  
plate

RY-440B

	monitor (setup screen)		I/O panel		stimulator other accessories
	JB-482B headbox		I/O panel		report format






Overall dimensions of the unit:

- width: 35 in.
- depth: 31
- height: 47

Shipping weight is about 300 pounds.




## Nicolet EEG accessories - priced as shown

List:\$1,300-\$3,300. MedCon: VG.

1		Nicolet EP 2 channel amplifier Shipping weight is about 3 pounds. 1 units in stock (without cable)	\$727
2		Nicolet remote OR headbox cable (3 row, 26-pin connector) for interface to EP 4 ch amp Shipping weight is about 1 pound. 2 units in stock	\$677
3		Nicolet IES 405-2 isolated electrical stimulator IES SC201/202 cable (15-pin m/f) Shipping weight is about 2 pounds.	\$673
4		Nicolet S403 stimulator with integrated cable, 7-pin connector intensity dial with bar graph indicator (0 -100 %) Shipping weight is about 1 pound.	\$475
5		Nicolet photic lamp, model 672-604800 threaded hole on bottom for attaching to mounting screw 11.5 foot cable with 5-pin connector Shipping weight is about 2 pounds.	\$674

## EEG accessories - \$975 each

List: \$2,000-\$4,900 each. MedCon: VG. XLTEK EEG accessories. Removed from known working systems that were retired due to computer issues.

1		XLTEK 32-channel headbox connectors for 26- and 37-pin cables one unit has pole clamp on back	2 units in stock Shipping weight is about 3 pounds.
2		XLTEK 32-channel breakout box 14.5 foot cable with 37-pin connector	2 units in stock Shipping weight is about 2 pounds.
3		XLTEK XLPS-1P photic stimulator and XLPS-1F flash unit adjustable flash frequency, 0-32 Hz., sync in and monitor out coaxial video connectors, power on and flash indicator lights Flash unit has 15.5 and 16.5 inch arms, adjustable tilt ball mount for flash aim, and 19-foot cable. 120 V, 60 Hz.	2 units in stock Shipping weight is about 10 pounds.

## Facial nerve probe - \$975



List: \$4,300. MedCon: VG. Magstim concentric bipolar probe, p/n 1061-00.

Features:

- used with Magstim Neurosign 100 nerve monitor
- probe has 75 mm shaft, 8 foot cable, 2-pin connector
- Pilling sterilizing case (52-1185) included

Overall dimensions of the case:

- width: 11.5 in.
- depth: 7
- height: 2

Shipping weight is about 2 pounds.












## 32 channel digital EEG unit - \$4,975



List: \$44,750. MedCon: VG. Nicolet Bravo digital electroencephalograph. 100-120/200-240 V, 60/50 Hz.

Features:

- Systim model 460 computer (also labeled as JN440BX 800-PS/128) with connectors for EEG and EP amps
- Bravo EP and Nic Vue software
- Optquest Q71 16 inch diagonal color monitor, model no. VCDTS21348-2M
- Nicolet 32 input OR head box and amplifier
- Nicolet SP 4-channel amplifier
- Nicolet IES 405-2 2-channel isolated electrical stimulator
- photic lamp
- jacks for USB microphone and auxiliary monitor
- 4 locking casters

	32 input head box and amplifier		monitor screen shot showing software
	SP 4-channel amp		Bravo EP main menu
	isolated electrical stimulator		patient data review
	photic lamp		data acquisition
			back of machine

Overall dimensions of the unit:

- width: 24 in.
- depth: 32.5
- height: 45.25

Shipping weight is about 220 pounds.

## EEG monitor - \$3,750

List: \$16,275. MedCon: VG. Aspect Medical Systems A-1000 EEG monitor. 100-240 V, 50-60 Hz.





## Features:

- LED display of bi spectral index
- digital signal converter is included and connects on back of instrument
- soft buttons to respond to menu choices
- freeze, event mark, and print buttons
- alarm sets and silence
- I/O on back of instrument for printer, strip chart recorder, raw EEG and processed EEG
- pullout instruction cards describe setup, features, and sample lead montages



screen shots showing various setup parameters



pullout instruction cards give overview of instrument operations

## Overall dimensions of the unit:

- width: 12 in.
- depth: 12
- height: 7.25

Shipping weight is about 30 pounds.

## Electro convulsive therapy ECT unit - \$2,750



List: \$9,355. MedCon: VG. Mecta model SR electro convulsive therapy ECT unit. 120 V, 48-62 Hz. Instrument does not have the stimulus output cable.

## Features:

- dual channel chart recorder
- patient ECG cable and monitor function
- stimulus control dials
- LCD message screen
- channel 1 and 2 instrument amplifier output connectors on back of unit
- 9.5 foot power cord with hospital grade plug

Overall dimensions of the unit:

- width: 21.5 in.
- depth: 16.25
- height: 7.75

Shipping weight is about 45 pounds.







## Digital EEG/ EMG Electroencephalograph / electromyograph - \$5,750










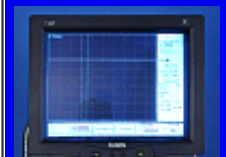

List: \$58,600. MedCon: VG. Cadwell Sierra Central Lab, EEG-EP-EMG. Electroencephalograph Evoked potential Electromyograph. 100-120 V, 50-60 Hz.

Features:

- Cadwell Central Lab EEG-EP-EMG console on cart with transport handle, drawer, bottom shelf, and locking castors
- running DOS ver. 6.22; Cadwell Sierra (EP-EMG) and Easy Writer (EEG) software use graphical interfaces (see screen shots below)
- complete range of upper and lower motor and sensory nerve tests, evoked potentials and editable EEG montages
- Philips 15.5 inch diagonal color video monitor, model 107T6
- full keyboard plus dedicated keys on console including patient, test, start, channel, flash, stored montages, and analysis functions
- F1-F4 keys on console activate prompts displayed in boxes at bottom of monitor screen
- I/O panel on back of unit includes video, ext spk, printer, serial keyboard, aux video and LAN
- right side has floppy disk drive and I/O panel for headphones, goggles, VEP/aux, amp, electrical stimulators 1 and 2, and footswitch
- Sierra Cadwell 4 channel amplifier, attached to mount

	console and keyboard		patient information		facial nerve test
	4 channel amplifier		Sierra EP and EMG test selection menu		4 channel VEP



	side and back I/O panels		BSEP 60 db		EEG software setup
	headphones, electrical stimulator, and goggles		NCV/F/N menu nerve selection		EEG software edit configuration
	main Cadwell screen select Sierra or Easy Writer programs		ulnar F wave test		EEG software montage setup

Overall dimensions of the unit:

- width: 24 in.
- depth: 30
- height: 52

Shipping weight is about 200 pounds.



## Electroencephalograph - \$2,475







List: \$65,300. MedCon: VG. Nihon Kohden 21-channel electroencephalograph, model EEG-4421A. 117 V, 60 Hz.

Features:

- Nihon Kohden photic lamp, model LS-703A
- Nihon Kohden electrode junction box, model JE-423A
- 10.5 inch diagonal monitor
- control panel has filters, channel selector, electrode selector, sensitivity, mode selector, pattern selector, etc.
- paper report printer, 15 & 5/8 x 11 & 3/4 inch perforated sheets
- transport handle

	monitor
	control panel

	junction box
	chart recorder control panel
	photoc lamp
	I/O panels

Overall dimensions of the unit:

- width: 44.5 in.  
for the
- height: 50

Shipping weight is about 300 pounds.

## Electromyograph with video tracking - \$3,750



List: \$23,400. MedCon: VG. Nicolet BMSI 6000 EMG system with video tracking.

Features:

- OmniTech OEM-S2122D00NM computer (100-240 V, 60/50 Hz.) with Windows NT 4.00 operating system
- ViewSonic Professional Series PF775 16 inch diagonal color monitor, 100-240 V, 60/50 Hz.
- Nicolet NicVue software
- Ikegami video camera with Computar TV zoom lens (1:1.2/12.5-75)
- Panasonic model WV-7225 pan tilt
- Nicolet Tracker LC, 100/120/230/240 V, 50-60 Hz.
- Benwin CLT 15 speakers
- Nicolet MicroSAMS BMSI 128 channel digiplex amplifier
- LookingGlass software provides video display window which can be hidden or overlaid anywhere on the NicVue screen
- response button
- KeyTronic keyboard
- LogiTech mouse
- Shure VP64A microphone
- microphone amp box
- cart has power bar with eight AC outlets, back transport handle, supplies rack, and locking castors



Overall dimensions of the unit:

- width: 24.25 in.
- depth: 32.5
- height: 72

Shipping weight is about 250 pounds.

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## Electro convulsive therapy unit - \$1,475



List: \$4,900. MedCon: VG. Hittman Medcraft B24-III ECT unit. 115 V, 50/60 Hz.

Features:

- patient leads
- voltage adjustment knob and analog gauge
- timer
- treatment button and output verification light
- footswitch
- 8 foot power cord with hospital grade plug

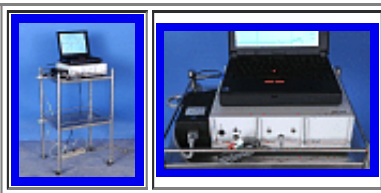
Overall dimensions of the unit:

- width: 15 in.
- depth: 8.5
- height: 9

Shipping weight is about 20 pounds.

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## Incontinence biofeedback system - \$3,750

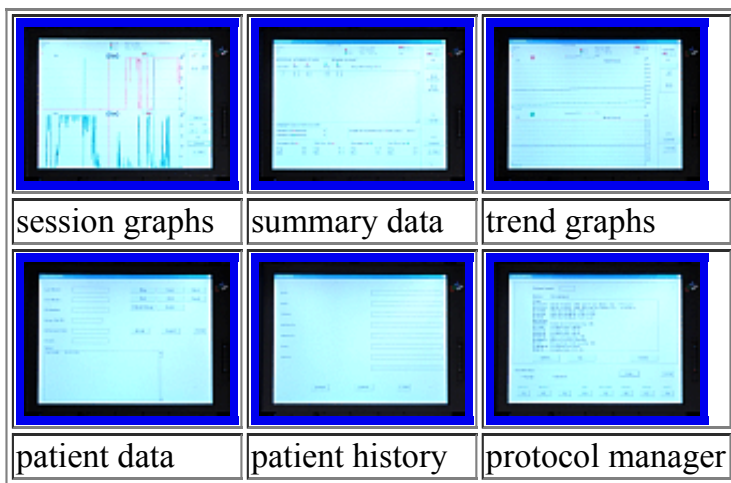


List: \$26,100. MedCon: VG. Hollister InCare PRS 9500 pelvic floor therapy machine.

Features:

- EMG with biofeedback
- instrument has connectors for EMG electrodes and pressure sensors as shown in the above photograph
- 6V transformer from 120/240 V, 50/60 Hz.
- IBM ThinkPad computer with Windows 95 serves as user interface and monitor; 16VDC transformer from 100-240 VAC, 50/60 Hz.

- multiple formats for data screens as shown in the screen shots below



Overall dimensions of the console:

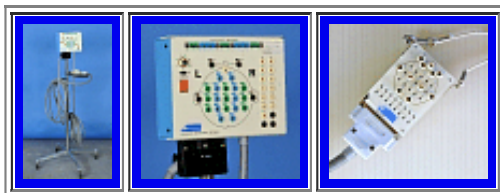
- width: 13.75 in.
- depth: 12
- height: 4.25

Overall dimensions of the uniton cart:

- width: 21.25 in.
- depth: 17
- height: 40

Shipping weight is about 65 pounds.

## EEG junction box - \$1,250 the set



List: \$8,300. MedCon: VG. Nihon Kohden JE-412A and JE-103A electrode junction boxes. The JE-412A has a 60-pin connector to EEG machine and the JE-103A has a 45-pin connector to the JE-412A.





Overall dimensions of the JE-412A

- width: 8 in.
- depth: 2.5
- height: 6.25

Shipping weight is about 45 pounds (as shown on stand).

## Nicolet EEG amplifiers - priced as shown

List: \$2,900. MedCon: VG. Nicolet EEG amplifiers as shown below.

 	Nicolet Endeavor amplifier connectors for two headboxes firewire data transfer interface	\$975
 	Nicolet EEG amplifier connector for 32 channel headbox EPP, coaxial, and 7-pin connectors	\$975

Shipping weight is about 2 pounds each.

## Breathing biofeedback system - \$875



List: \$4,300. MedCon: VG. RFB Technologies System-I computerized diaphragmatic breathing retraining system. 115 V, 60 Hz.

Features:

- Sentinel Instrument Corp. audiovisual headset
- respiration LED bar graph
- LED digital display of RQ and time
- 30, 40, 50 and 60 minute timer select
- headphone jack on front of unit
- controls for sensitivity, signal select and volume mixer
- back of unit has I/O for recorder, microphone, sensor, headset and PC analog
- power on/off toggle

Overall dimensions of the unit:

- width: 12.75 in.
- depth: 7
- height: 4.5

Shipping weight is about 8 pounds.

## Facial nerve stimulator - \$975



List: \$3,200. MedCon: VG. Hilger model 2R facial nerve stimulator. 110 V, 60 Hz.

Features:

- nerve/muscle toggle with active option indicator lights
- adjustable current intensity knob
- AC power on light
- 2-point stimulator and other lead cables included
- AC power cord included



Overall dimensions of the unit:

- width: 7 in.
- depth: 6
- height: 6.5

Shipping weight is about 10 pounds.

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## Peripheral nerve stimulator - \$375 each



List: \$722. MedCon: VG. Neuro Technology DigiStim II

Features:

- monitors effects of muscle relaxants
- locates nerves in anesthetized tissues
- Medtronic 5455S cable for electrodes
- adjustable current dial
- LCD window for mA delivered to patient
- indicator lights for battery and pulse
- 10 sec/1 sec twitch toggle
- train of 4/ repeat toggle
- 50/100 Hz tetanus toggle
- back of unit has electrode connectors labeled high and low
- iv pole clamp
- operates on 9 V battery

Overall dimensions of the unit:

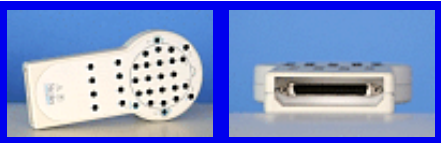

- width: 6 in.
- depth: 11
- height: 2.75






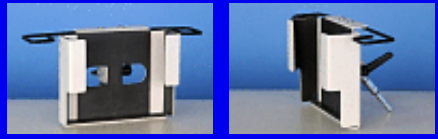

Shipping weight is about 5 pounds. 3 units in stock.

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## Nicolet EEG accessories - \$875 each

List: \$5,600. MedCon: VG. Nicolet EEG head boxes, amplifiers, control and switching units.

1.		32 channel head box 3 units in stock
2.		model 32 input amplifier

3.		VKS O. R. headbox (labeled ET 16A and ET 16B)
4.		ET216A and ET 216B headboxes
6.		EA-2 amplifier
7.		IES-9 control unit 2 units in stock
8.		IES-D9 switching unit labeled as 1 (2 units) or 2 (3 units)
9.		amplifier holder
10.		amplifier holder with articulating arm for cart mount

Shipping weight is about 10 pounds each.

## Electrical stimulator - \$275

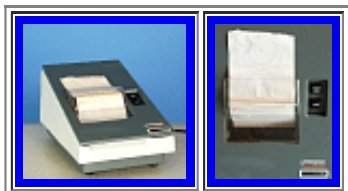


List: \$695. MedCon: F.

Cadwell Sierra Wave StimTroller. Constant current, 0-100 mA. Cracked plastic casing.

Shipping weight is about 2 pounds.

## Neuropack printer - \$475



List: \$1,900. MedCon: VG. TECA Inter spec Neurotrac printer.  
100/120/220/240 V, 50/60 Hz.

Features:

- 25-pin printer interface
- 11 cm thermal paper with head diagram
- print and paper feed buttons

Overall dimensions of the unit:

- width: 8.25 in.
- depth: 14
- height: 2.5

Shipping weight is about 25 pounds.

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## R/F Radio frequency generator - \$1,750



List: unknown. MedCon: VG. Prototype RF generator from UCLA Medical Center. 110 V.

As this is a prototype, it may also be used for investigational, and not clinical, use. we reserve the right to decline selling this item to inappropriate customers.

Features:

- RF pushbutton to deliver stimulus
- digital windows for RF voltage and current
- RF output module has 4 catheter leads
- blue module has defibrillate, DC ablate and RF ablate connections

Overall dimensions of the unit:

- width: 17 in.
- depth: 11
- height: 3.75

Shipping weight is about 30 pounds.

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## Pain management system - \$850



List: \$2,675. MedCon: VG. PTI Neuroprobe 500, catalog 150500. Electrotherapy pain control device.

For stimulation of nerves during EEG, EMG, neurology and rehabilitation work .

Features:

- adjustable time and rate for A and B outputs
- preset protocols include subsensory, IFC sensory, IFC motor, noxious probe and nerve block

modalities

- effectiveness enhanced by combined sensory and motor stimulation
- probe jacks as indicated in the photograph (probes not included)
- adjustable detector sensitivity
- uses 4 size D batteries, disposable or rechargeable

Overall dimensions of the unit:

- width: 9.25 in.
- depth: 6.75
- height: 2.75

Shipping weight is about 15 pounds.

## EEG system, 32 channel - \$4,975





List: \$85,900. MedCon: G. Cadwell Spectrum 32 EEG computer. 120/240 V, 50/60 Hz.











Features:

- 14.5 in. and 11 in. diagonal monitor screens
- optical disc drive and floppy drive
- keyboard
- rolling cart with two locking casters and two drawers, crack in molding
- EEG leads module, model S32 and stimulator module
- audio mixer and auxiliary tape deck
- system includes a box of electrodes and lead wires
- system useful for creating brain maps, and has applications in neuro psychology and neuropsychiatry

System does the following tests:

- EEG
- auditory
- somatosensory
- visual
- cognitive
- NCV
- multi-modality

EEG leads module	
keyboard	
optical and floppy drives	

EEG trace monitor	
stimulator module	
auxiliary tape deck	
audio mixer	
I/O ports and connections	
monitor controls	
Main menu	
utility selection screen	
channel input configuration	
patient records	
scan control, record and playback screen	
test selection screen:	
<ul style="list-style-type: none"> <li>• EEG</li> <li>• auditory</li> <li>• somatosensory</li> <li>• visual</li> </ul>	



- cognitive
- NCV
- multi-modality



Overall dimensions of the unit:

- width: 30 in.
- depth: 24.5
- height: 51

Shipping weight is about 300 pounds.

## 17 channel electroencephalograph - \$1,875

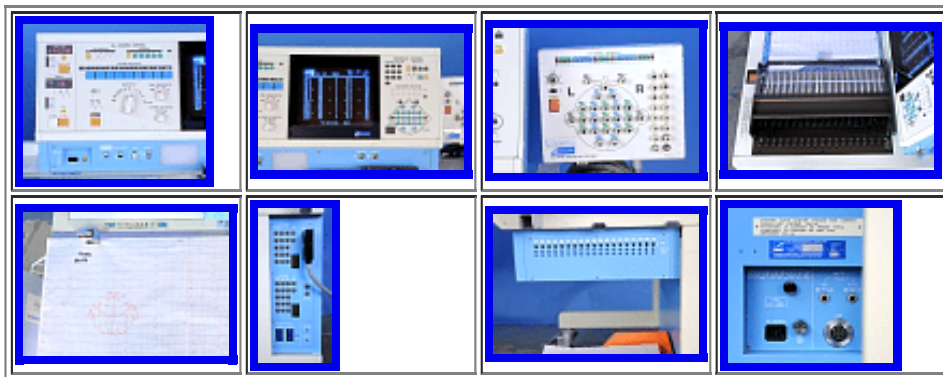


List: \$68,900. MedCon: VG. Nihon Kohden model EEG-4317B electroencephalograph. 117 V, 60 Hz.

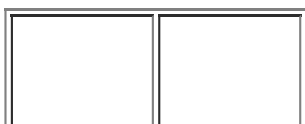
A 17 channel EEG Electroencephalograph machine.

Features:

- JE-412A electrode junction box
- individual and all channel control panels
- CRT display
- programming for EEG montages
- 17 channel pin recorder and paper report with annotation
- adjustable paper speed
- paper catch tray
- connectors for photic lamp and triggers
- 13 foot power cord with hospital grade plug
- operators manual included



views of the control panels, junction box, cable connections, recorder, and report paper



sample pages from the Operator's Manual



Overall dimensions of the unit:

- width: 48.5 in.
- depth: 27.5
- height: 42

Shipping weight is about 300 pounds.

## ECT Electro convulsive therapy device - \$2,975



List: \$9,300. MedCon: G. Mecta model SR-2 electro convulsive therapy device. 104-125 V, 48-62 Hz.

Features:

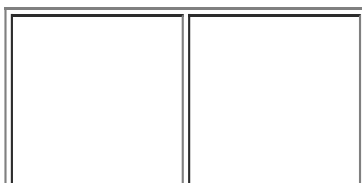
- pulsed waveform
- A and B channels
- adjustable intensity and sensitivity
- recorder (low and high speeds) for strip chart with timeline (seconds from start) and channel A and B voltages printed
- LCD message window
- self test
- two stimulus output cables with electrode plates
- two patient monitor cables
- channel 1 and 2 amplifier outputs in back of unit
- carrying grips
- 1993 manufacture

Overall dimensions of the unit:

- width: 21.5 in.
- depth: 17
- height: 7.5

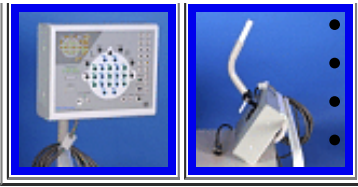
Shipping weight is about 55 pounds.

## EEG junction box - \$975



List: \$4,000. MedCon: VG. Nihon Kohden isolated electrode junction box, model JE-424A.

Features:



- for use with Neurofax EEG
- 16 foot cable
- indicator lights for impedance and active leads
- curved rod with swivel joint for inserting into equipment cart

Overall dimensions of the unit:

- width: 9.5 in.
- depth: 3.25
- height: 7.75

Shipping weight is about 15 pounds.

## EEG junction box - \$975



List: \$4,000. MedCon: VG. Nihon Kohden isolated electrode mini junction box, model JE-913A.

Features:

- for use with Neurofax models JE-901A/911A
- 16 foot cable
- patient neck strap



Overall dimensions of the unit:



- width: 3.5 in.
- depth: 4.5
- height: 1

Shipping weight is about 4 pounds.

## EEG accessories - priced as shown

MedCon: VG. Cadwell EEG accessories.

	S-32 head box	40 electrode jacks connecting cable to EEG machine on/off pushbutton with indicator light 37-pin connector	\$1,375
	control box	4 stimulator jacks and dials connecting cable I/O as shown footswitch jack on back 2 units in stock	\$1,375
		6 auxiliary input jacks gain and offset toggle panel	

	Cadwell auxiliary input converter	10 foot cable, se photo for pin arrangement	\$1,275
	EFS-10 phototoc lamp	adjustable rep rate start/stop pushbutton connecting cable 2 units in stock	\$975

Shipping weight is about 10 pounds, each item.

## Electromyograph EMG parts - \$975



List: \$62,6700. MedCon: Inc. Teca/Vickers Sapphire Premiere EMG unit. 100-120/200-240 V, 50/60 Hz. This is a presumptive working unit (see screen shots that show the BIOS diagnostics) but needs to have the Sapphire analysis software loaded.

### Features:

- Teca Sapphire 4 box
- NEC Multisync 4FGe monitor
- KB101 Key Tronic keyboard
- control panel with 3.5 in. floppy drive, controls for gain, sweep speed, mode, stimulation intensity, etc.
- footswitch
- transport handle
- 14 foot power cord with hospital grade plug



### Overall dimensions of the unit:

- width: 24 in.
- depth: 32
- height: 56

Shipping weight is about 250 pounds.

## Audio evoked potential system - \$1,375



List: \$5,300. MedCon: G. Grason-Stadler GSI 50 audio evoked



potentials system. 100-120 V, 50-60 Hz.

Features:

- 4.5 in. diagonal oscilloscope
- Baer, Cera, MLR and EcochG modes
- adjustable V, Hz and dB
- left/right ear toggle
- paper roll printer
- power on/off push button
- back bumpers

Overall dimensions of the unit:

- width: 20.5 in.
- depth: 15
- height: 6.75

Shipping weight is about 35 pounds.

## EEG - \$1,750



List: \$46,520. MedCon: G. Nicolet model 1A97 electro encephalograph, with stimulation. In excellent condition except has cosmetic crack in plastic of support of operators' desk lamp. Approximate year of manufacture is 1989 or 1990.

Features:

- 32 lead patient electrode box
- fully computerized controls
- analog and digital inputs and output, with standard parallel and RS-232c connections
- 17 channels
- automatic or manual calibration
- allows digital display and analysis of data, with paper recording
- digital timer
- adjustable chart speed

Function selection:

- record input
- Mont
- HFF
- LFF
- SENS
- REF
- Stim
- Mode
- Program

System mode:



- automatic, set 1
- automatic set 2
- manual



Shipping weight is about 300 pounds.

## EEG - Polysomnograph - \$1,750



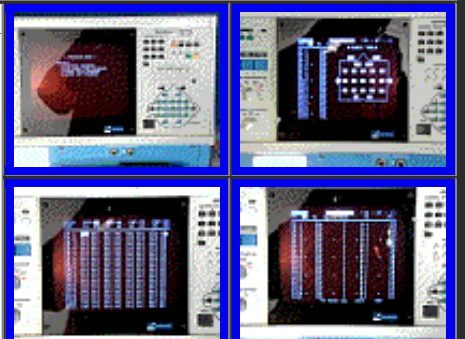
List: \$75,890. MedCon: G. Nihon Kohden EEG, model 4321p.

Features:

23 traces

- fully digitally controlled, both computer setup and parameter control
- includes patient lead patch box

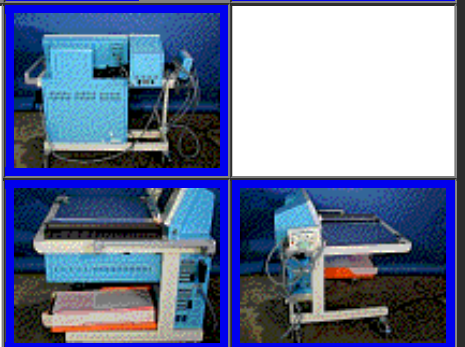
Program selection, and input parameters, lead wire selection screen

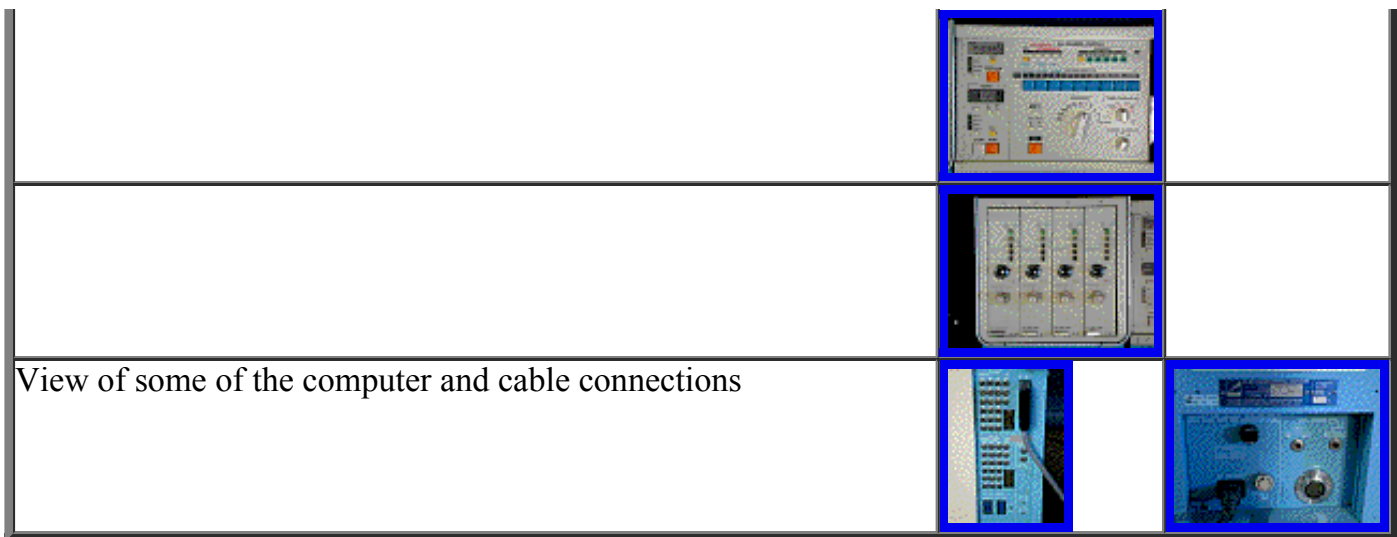


patient electrode connection box, and its control.



back, left and right sides of the unit





Shipping weight is about 300 pounds.

## 21 channel EEG Electroencephalograph - \$1,750



List: \$56,600. MedCon: EX. Nihon Kohden Neurofax series 21 channel EEG recorder. Neurofax model EEG-4321b with a recessed CRT display.









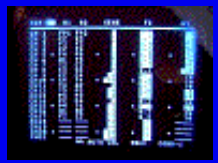
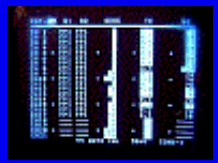
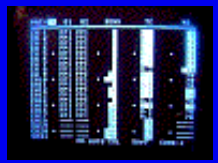
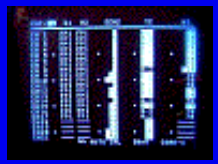
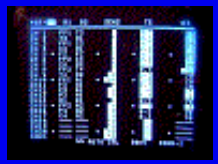
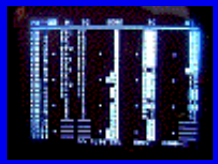
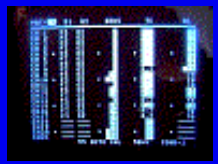
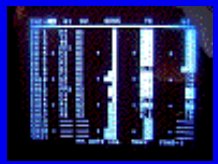
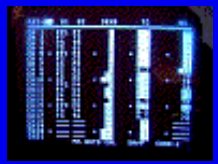
General features:

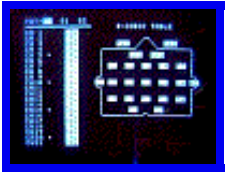









- 21 channel paper recording
- stimulation side
- CRT display
- programmable operation
- y2k compliant
- Pattern programming and easy operation

Specific features:

- Extreme sensitivity for measuring extremely small electrical signals, to 1 microvolt (1/100,000 of a volt)
- Centralized computer control
- CRT display of measuring conditions, such as: Montage, Calibration voltage, Sensitivity
- Time constant
- High-pass filter
- reference
- Buffer amplifiers in electrode junction box
- 34 + 5 electrode terminals available: 23 electrodes for head configuration, 11 multipurpose input terminals, 2 BM terminals and 3 grounding terminals
- easy electrode impedance check (on both CRT and to paper)
- easy configuration of montage
- measurements of unipolar derivation: switching from same side hemispheric earlobe derivation, single side spheric earlobe derivation, average reference derivation and balance non-cephalic reference derivation.
- up to 8 amplifier setting configurations

- larger recording range by using channel invasion recording system
- calibration by square or sine wave
- Auto Ind Cal and calibration voltage mark recording functions
- Current-time mark recording functions
- 2 sets of auto-photoc stimulation programs
- 3 function timer panel
- 2 sets of auto measurement functions
- concurrent recording of waveforms onto both monitor and data recorder
- various patient communication options (speak, microphone, video)
- connections to external computer via RS-232 and GP-1B

An overview of the system			
Clock / timer unit, with clock, manual and record functions, reset and start			
Photo stimulation control module, with frequency (Hz) setting, stimulation and pause modes. 2 automatic modes, manual, random and single modes, start, stop and reset			
Control and programming panel			
			
Some of the set up and programming screens:			
			
			

			
head electrode control panel			
head set up electrode patch box, with indicator LED lights and input connectors			
Data recorder			
View of right side of machine, with alternate input jacks for each input channel			

This machine is still supported by the manufacturer. For Nihon-Kohden's web site, please click here:  
<http://www.kohden.co.jp/intl/neurology.html>

Unit as shown has a stimulation lamp.

Shipping weight is about 350 pounds each.

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## Therapeutic generator - \$875



List: \$4,232. MedCon: VG. TECA Corp. low volt therapeutic generator, model SP-2/T. 120 V, 60 Hz.

Features:

- adjustable AC frequency, 1-2000 pulses/sec including tetanizing
- AC/DC toggle
- adjustable surges/min including continuous
- adjustable intensity dial



- 0-50 mA meter
- 2 sets of output jacks
- power on/off toggle with red indicator light

Overall dimensions of the unit:

- width: 12.25 in.
- depth: 8.75
- height: 4.25

Shipping weight is about 15 pounds.

---

## Facial nerve stimulator - \$675



List: \$3,200. MedCon: VG. Hilger model 2 facial nerve stimulator

Features:

- nerve/muscle toggle with active option indicator lights
- adjustable current intensity knob
- uses battery pack BP-102, ten 'D' batteries in pack with connection clip
- wooden storage case, 10 x 7 x 8.5 in.

Overall dimensions of the unit:

- width: 6.75 in.
- depth: 6
- height: 6.5

Shipping weight is about 15 pounds.

---

## Sensory testing device - \$975



List: \$3,900. MedCon: VG. Nicolet Sensation, manufactured by Medoc. 115 V, 50/60 Hz.

Features:

- this is a quantitative sensory testing module for use with Nicolet Viking IV, Viking Quest, Spirit and Bravo instruments
- connector for probe (probe not included)
- service, RS232 serial and response unit I/O
- power on/off rocker switch with green indicator lamp

Overall dimensions of the unit:

- width: 17.5 in.
- depth: 12.25

- height: 4.5

Shipping weight is about 25 pounds.

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## Isolation box - \$475



List: \$1,300. MedCon: VG. Nicolet Biomedical isolation box for BMSI series EEG monitoring systems. 100-120/220-240 V, 50-60 Hz. input

Features:

- provides 115 V, 50-60 Hz. output
- eight AC outlets on back of power conditioner
- digiplex connector
- power on/off rocker switch with green indicator lamp

Overall dimensions of the unit:

- width: 22 in.
- depth: 10.25
- height: 4.5

Shipping weight is about 45 pounds.

---

## Visual stimulator - \$650



List: \$3,250. MedCon: VG. Grass PS33 photic stimulator. 115 V, 50/60 Hz.

Features:

- large dial sets flashes/sec (1-60 range)
- single or repeat flashes toggle
- connectors for external monitor and external monitor amplitude dial
- connector for flash lamp (flash lamp not included)
- sync in and sync out connectors
- power on/off toggle switch with orange indicator lamp
- carrying handle

Overall dimensions of the unit:

- width: 10.5 in.
- depth: 9.25
- height: 6.25

Shipping weight is about 15 pounds.

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10 channel portable EEG/EMG - \$1,475



List: \$17,360. MedCon: Inc. Nihon Kohden model Neuropack two portable electroencephalograph and electromyograph. Model MEB 5100a.

Appears to be a working unit, does not have full cabling.

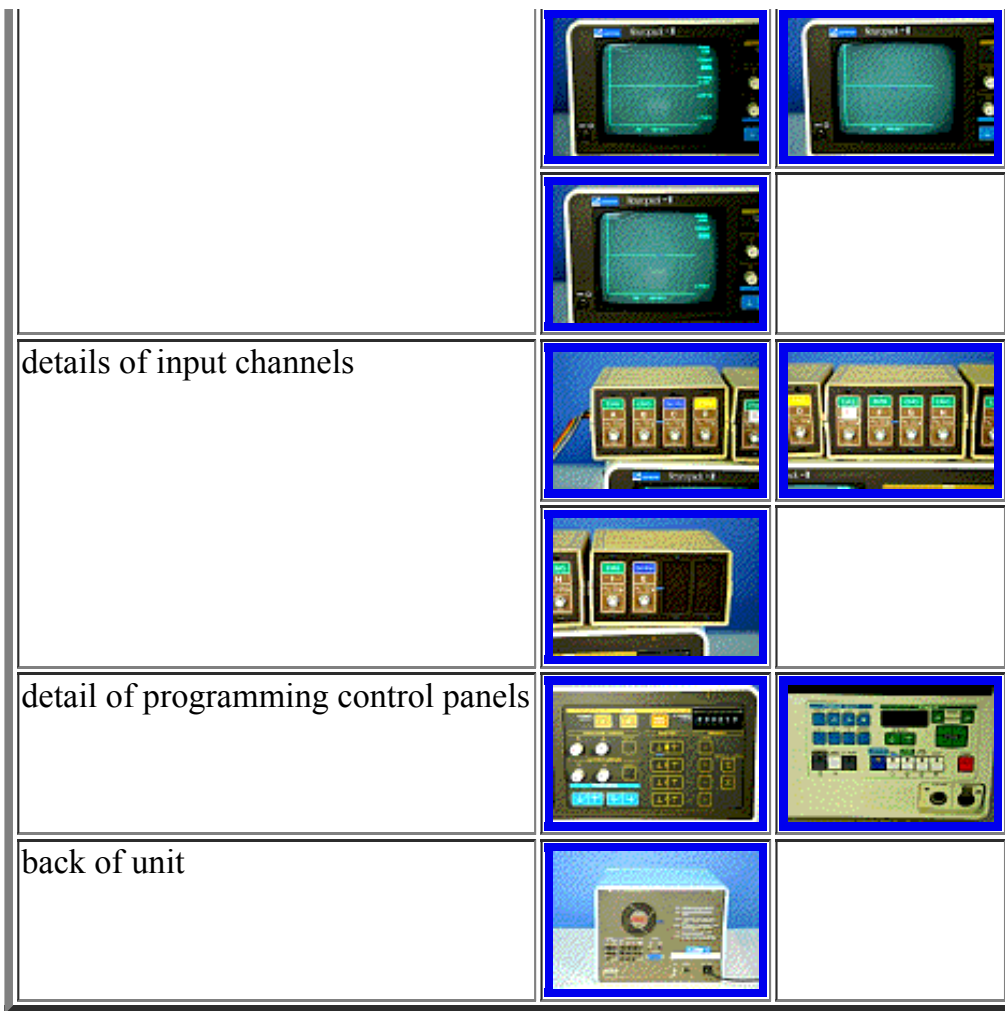
Features:

- 10 discrete channels of input
- 5 inch CRT display of waveforms and measurements
- paper tape output waveform recorder
- channel selection
- latency memory
- auditory stimulation
- visual stimulation

Programmable selection includes:

- direct
- auditory
- electrical
- visual
- 3 user programmable settings

general machine setup screen		
auditory setup screen		
electrical stimulation setup screen		
visual stimulation setup screens		
examples of display screens		



Shipping weight is about 90 pounds.

## 2 channel portable EMG - \$1,475



List: \$16,700. MedCon: INC. Nihon Kohden Model Neuropack 2 portable EMG machine. Model MEM 7102A.

Unit is in good condition, but is sold without preamp box, Comes as shown in the photograph .

Features:

- built in display screen
- built in strip chart recorder style printer
- computer style keyboard
- floppy disk drive

preprogrammed, built in test protocols for the following studies:






- NCV 1
- NCV 2
- Motor

- H-Reflex
- EMG
- Surface
- F wave upper
- F wave lower
- SSEP Upper
- SEP lower

#### Control panel features:

- channel select (1 or 2)
- stage select
- wave select (1 or 2)
- adjustable vertical gain
- adjustable position
- cursor controller
- adjustable latency amplitude
- record
- menu
- condition
- store
- erase
- monitor
- stim/sweep
- analysis
- stop

Unit also has a built in speaker, and soft keys that vary in function depending on menu displayed.

Close up of front panel	
Screen shot	
controls	
F wave lower monitoring screen	
F wave analysis screen	

example of parameter setting screen



Shipping weight is about 55 pounds.

## 8 channel Polygraph / EEG - \$1,475



List: \$22,340. MedCon: G. Grass model 7 D EEG and Polygraph data recording system.

Unit is missing 1 component shown in the photograph, 3rd item from top

System consists of:

- BSR/GSR calibration panel made by Consol
- Basal Skin resistance / Galvanic skin reflex instrument by Consol
- 8 grass Polygraph DC driver amplifiers, model 7DAF
- 2 Grass low level DC preamplifier, model 7P1F
- 3 Grass wide band AC preamplifier and integrator, model 7P3B
- Grass EKG tachograph pre amplifier, model 7P4F
- other modules and cables as shown



Shipping weight is about 400 pounds.

## Neuroprobe - \$425 each



List: \$2,750. MedCon: VG. MRL neuroprobe. For stimulation of nerves during EEG, EMG, neurology and rehabilitation work

Features:

- adjustable output intensity
- built in battery
- selectable stimulation settings: 15, plus, 200, remoter and meter
- adjustable pulse rate



- adjustable detector sensitivity
- meter display of DC microamperes (0-200)
- pulse rate indicator
- probe output
- patient ground

2 units in stock.

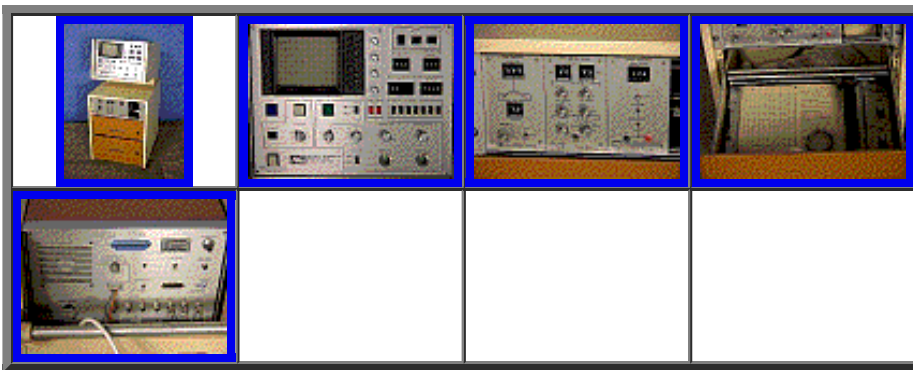
## EEG module - \$975

List: \$9,800. MedCon: G. These are modules for a TECA EEG system, and do not form the complete system by itself. Consists of a TECA sp42a acquisition and analysis module with a ST-10 patient stimulation module. Includes a series of user manual and technical books.



## Research grade EEG - \$750

List: \$11,200. MedCon: F. Nicolet model CA-1000 clinical averager EEG. Unit new in 1983. With display CRT, inputs, trigger controls.



Features:

- 4 channel inputs
- adjustable band pass and sensitivity
- adjustable stimulation
- adjustable analysis time
- adjustable band pass filters

Shipping weight is about 250 pounds. on cart on castors.

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## Neuroprobe - \$475



List: \$1,100. MedCon: G. Elmed neuroprobe. Portable unit, operates off of internal rechargeable batteries. Settings include:

- seconds on time
- continuous / pulsed mode
- positive / negative
- coarse and fine detection sensitivity adjustments
- constant current button
- constant tone button
- stimulate button
- adjustable frequency
- adjustable intensity

Includes footswitch, probe and charger. Shipping weight about 25 pounds.

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# Production Engineering - Medical Equipment Division

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