



Diagnostic Equipments



LABOMED INC.

FACA-200

Fully Automatic Chemistry Analyzer



Labomed introduces an automatic chemistry analyzer with varying testing capacities.

200 tests/hour

CABINET IS OPTIONAL

Accessories

Item	Specification	Quantity
FACA-200		
Operation Manual		1 pc
Reagent Bottle	20ml(s)	22 pcs
Reagent Bottle	30ml(s)	22 pcs
Washing Solution Bucket	5L	1 pc
Sample Cup		150 pcs
Power Cable		1 pc
RS232 Cable	3M	1 pc
Software installation CD		1 pc
Cuvettes		48 pcs
Cuvette holder		6 pcs
Liquid level sensor module		1 pc
Strainer		6 pcs
Silicon tube	Φ7.5*Φ4.5	2 meters
Silicon tube	Φ12*Φ8	1 meter
Silicon tube	Φ4Φ*2	1 meter
Yellow green line		2 meters
Fuse		4 pcs

(all of these accessories are included with the FACA-200)



Labomed, Inc. is certified by ISO 9001-2013, has CE Conformity and is FDA Licensed.

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Features

System Functions

Type: Fully Automated, Random Access Biochemistry Analyzer.

Throughput: 200 tests, up to 280 tests/hr with ISE (optional).

Test Mode: End point, Kinetics, Fixed Time, Immunospectrophotometry, Monochromatic, Bi-chromatic and Multi-Standard Analysis, Linearity and Nonlinearity Calibration, Single and Dual Reagents can be used.

Test Setting: Programmable for single-parameter, multi-parameter, combined parameter, batch test.

Parameter Setting: Completely open for editing test parameters and calculation parameters.

Sample System

Sample Tray: 44 sample positions for primary tubes, test tubes and various sample cups, Whole sample tray is removable and replaceable. Any position can be aligned as the emergency test position.

Sample Volume: 3 μ L – 30 μ L, programmed by 0.1 μ L step.

Sample Handling: Dilute and retest automatically when the sample's concentration is beyond limitation.

Sample Probe: Liquid level detection and collision protection.

Probe cleaning: Automatic washing for both inside and outside, carry over <0.1%.

Syringe: High performance syringe, durable and maintenance free.

Optional item: Bar code reader.

Reagent System

Reagent Tray: 44 positions for Single and Dual reagents, reagent positions can be aligned freely.

Refrigeration: Refrigerated reagent compartment, 24 hours non-stop cooling with Peltier element to maintain temperature 4-15).

Reagent Bottle Volume: 35ml and 20ml, Slope bottom design.

Reagent volume: 150 μ L – 300 μ L, programmed by 0.1 μ L step.

Reagent Probe: Automatically detecting the liquid level; collision protection.

Reagent pre-heating function, inventory checking.

Real time monitoring of reagent residual volume and auto alarm.

Probe Cleaning: Washing for both inside and outside, carry over <0.1%.

Reaction System

Reaction Tray: 44 reaction cuvettes with 6mm optical path, good UV penetrability, low consumable, low cost.

Reaction Technology: Back – Dividing – Light – Technology.

Reaction Volume: 250 μ L – 300 μ L.

Temperature: 37 $^{\circ}$ C, with $\pm$ 0.1 $^{\circ}$ C fluctuation.

Mixing System: Independent mixer.

Cleaning: Supports automatic cleaning of cuvettes and allows for complete drainage to reduce carry over.

Water consumption: 5L/hour.

Liquid Detection: Detergent, distilled water, waste liquid automatic detection and alarm.

Optical System

Light Source: Halogen lamp 6V/ 10W, life span > 3000 hours.

Wavelength: 340nm, 405nm, 450nm, 492nm, 505nm, 546nm, 578nm, 620nm, 670nm, 700nm

Wavelength Accuracy: $\pm$ 2nm.

Detector: Photoelectron Diode Array.

Absorbance Range: 0.000 Abs -3.000 Abs.

Calibration and Quality Control

Calibration Mode: Linear (one-point, two-point and multi-point), Logit-Log4P, Logit-Log5P, Spline, Exponential, Polynomial, Parabola.

QC Rules: Westgard Multi-rule.

QC Mode: Intra-day and inter-day QC.

Operating System

Computer: Windows 2000 System or above.

Data Management: Large capacity for results and reaction curves to be displayed, saved and printed.

Report: Edit and print complete reports, format editable, supports network printing.

Port: RS-232.

Filters:

FACA200 will have 10 filters 340,405,450,492,505,546,578,620,670,700nm

Working Conditions

Power: 220V $\pm$ 22V, 50/60Hz $\pm$ 1Hz

Power Consumption: <400VA

Environmental Temperature: 15 $^{\circ}$ C – 30 $^{\circ}$ C

Humidity: <85%

Dimension: 760 (L) x 560 (W) X 530 (H) mm

Weight: >85 Kgs

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Technical Specifications

Model	FACA-200
Sample System	Sample tray: 44 sample position
	Sample volume: 3~30ul, programmed by 0.1ul step
	Sample probe: Liquid level detection and Collision protection automatically
	Probe cleaning: automatic washing both inside and outside, Carry over <0.1%
	Automatic sample dilution
Reagent System	Reagent tray: 44 positions for single & dual Reagents.
	Refrigeration: Refrigerated reagent
	Compartment 24h Cooling system maintaining temperature 4~15°C
	Reagent bottle size: 20ml and 35ml
	Reagent volume: 150~300ul, programmed by 0.1ul step
	Reagent probe: Liquid level detection and collision protection automatically
	Pre-heating function inventory checking.
Reaction System	Real-time monitoring of reagent volume and auto alarm
	Probe cleaning: automatic washing both inside and outside, Carry over <0.1%
	Reaction tray: 48 reaction cuvettes
	Reaction technology:
	Back-Dividing-Light technology
	Reaction volume: 200~300ul
	Reaction Temperature: 37°C±0.1°C
Optical System	Mixing system: Independent mixing probe
	Light source: Halogen-tungsten lamp
	Wavelength: 340nm, 405nm, 450nm, 494nm, 505nm, 546nm, 578nm, 620nm, 670nm, 700nm
	Linear range: 0~3ABS
Control and Calibration System	Calibration mode: Linear (one point, two point and multi-point), Logit-Log4P, Logit-Log 5P, spline, exponential, polynomial, parabola
	Control rules: Westgard multi-rule
Operation Unit	Operation system: Windows 2000 system or above
	Interface: RS-232
Working Conditions	Power Supply: 220V±22V, 50/60HZ±1HZ
	Power consumption: ≤400VA
	Temperature: 15~30°C
	Humidity: ≤85%
Dimension	Water consumption: 5L/h
	760 (L) X 570 (W) X 1000MM
	Weight approx. 85kgs



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Testing items

Acid Phosphatase	Phosphorus (Inorganic)
Albumin	Sodium (Na+)
Alkaline Phosphatase (ALP)	Total Protein
Amylase	Triglycerides
Aspartateamino Transferase - AST (SGOT)	Urea
Alanineamino Transferase - ALT (SGPT)	Uric Acid
Blood Urea Nitrogen	Urine protein
Bilirubin - Direct	
Bilirubin - Total	
BUN	
C3	
C4	
Ca+ (Calcium)	
Cholesterol	
Chloride (Cl-)	
CK (Creatine Kinase)	
CK-MB	
CO2	
Creatinine	
CSF protein	
GGT (Gamma-Glutamyl Transferase)	
Globulin	
Glucose	
High Density Lipoprotein	
HDL Cholesterol	
Hemoglobin	
IgA	
IgG	
IgM	
Inorganic Phosphorus	
Iron	
K+ (Potassium)	
LDH (Lactate Dehydrogenase)	
LDL Cholesterol	
Lipase	
Low Density Lipoprotein	
Mg (Magnesium)	
Non Esterified Fatty Acid	



FACA-261

Fully Automatic Biochemistry Analyzer

Labomed introduces an automatic biochemistry analyzer with varying testing capacities.

FACA-261-ISE 390 tests/hr True Random Access
FACA-261 240 tests/hr True Random Access

Features

Random access and direct reading system
 Automatic washing system for both sample and reagent probe
 Liquid level detection and collision protection for both sample and reagent probe
 Reliable cooling system for reagent chamber
 Powerful reaction cuvette washing system
 User-friendly interface
 ISE module and barcode scanner (optional)
 Works with Windows XP and Windows 7.
 Enzyme Kinetic GPT GOT tests.



Testing items

Glucose	Potassium
Blood Urea Nitrogen	Gamma-Glutamyl Transferase
Creatinine	High Density Lipoprotein
Total Cholesterol	Low Density Lipoprotein
Triglycerides	Lactate Dehydrogenase
Total Bilirubin	Creatine Kinase
Total Protein	Magnesium
Albumin	Uric Acid
Globulin	Non Esterified Fatty Acid
Aspartateamino Transferase	Amylase
Alanineamino Transferase	
Alkaline Phosphatase	
Chloride	
Calcium	
Phosphorous	
Sodium	



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Technical Specifications

Model		FACA261
Assay Model		Random access with direct reading system
Method		End point, Kinetic, Fixed time, Immunoturbidimetric, 1-2 reagent, Multistandard, reagent/serum blank, etc
Assay Item		40 assay
		ISE mould (Na ⁺ , K ⁺ , Cl ⁻ / Li ⁺) available on request
Throughput	1 Reagent	257 test/h(max)
	2 Reagent	150 test/h
	With ISE	+120 test/h
Sample Position		60
		Including standard, control and stat; either serum cup or primary tube available
Channels/Filters		340nm, 380nm, 405nm, 505nm, 520nm, 546nm, 576nm, 620nm, 670nm, 700nm, 750nm, 800nm
Sample Volume		1~100ul, 0.1 ul / step
Reagent Position		40 or 80 (optional)
Reagent Volume		R1:1~400ul, 1ul / step, R2:1~400ul, 1ul / step
Reagent / Sample Probe		With liquid level sensor, collision sensor, teflon coating and automatic washing station
Reaction Time		0~999 seconds
Cuvette		High quality uv-transmitted plastic cuvette. Quartz glass cuvettes on request
Cuvette Washing		8 channels automatic washing system for reaction cuvettes
Probe And Mixer Washing		Independent washing station for each sample/reagent probe and mixer
Alarm		Automatic alarm for malfunction (eg: collision, reagent / sample insufficiency, full waste container, etc)
Calibration		Linear, Non-linear, Multi standard, K factor
Sample Dilution/Retest		Sample can be diluted and retested if results are out of range or sample is insufficient. Also with calibrator auto diluting function
Wavelength		340~810nm
Light Source		Halogen lamp
Absorbance Resolution		0.0001A
Absorbance Accuracy		±0.0003A(0~2.5A)
Repeatability (CV %)		≤2%
Quality Control		Levy Jennings quality control program at 3 levels
Bar Code		Optional
Printer		Multiple report formats available
Test Control Function		New card control system available on request
Language		English, French, Spanish, German, Russian, etc
System		Windows XP or Vista ; Windows 7
Power Supply		220V / 50Hz or 110V / 60Hz (optional)
Dimension		85×72×53 (cm)
Weight		85Kg
Test Menu		T.BILI r-GT/GGT CHO Ca APOB-1/B CHE
		D.BILI ALP/AKP TG CL APOB CREA
		TP UREA CK P CK-MB Mg
		ALB CREA LDH C ASO AFU
		Lactic Acid ALT/GPT UA α-HBDH CO ₂ FMN
		LP(a) AST/GOT GLU AMY LDL-C HDL-C
		CHE LA TBA ADA HS-CRP PA
		Fe Cu Zn C3 C4 IgG
		IqM IqA and drug toxicity, etc

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FACA-301

Fully Automatic Biochemistry Analyzer

Labomed introduces an automatic biochemistry analyzer with varying testing capacities.

There are two different systems:

FACA-301-ISE	480 tests/hr	True Random Access
FACA-301	300 tests/hr	True Random Access

Features

- Random access and direct reading system
- Automatic washing system for both sample and reagent probe
- Liquid level detection and collision protection for both sample and reagent probe
- Reliable cooling system for reagent chamber
- Powerful reaction cuvette washing system
- User-friendly interface
- ISE module and barcode scanner (optional)
- Works with Windows XP and Windows 7.
- Enzyme Kinetic GPT GOT tests.



Testing items

Glucose	Potassium
Blood Urea Nitrogen	Gamma-Glutamyl Transferase
Creatinine	High Density Lipoprotein
Total Cholesterol	Low Density Lipoprotein
Triglycerides	Lactate Dehydrogenase
Total Bilirubin	Creatine Kinase
Total Protein	Magnesium
Albumin	Uric Acid
Globulin	Non Esterified Fatty Acid
Aspartateamino Transferase	Amylase
Alanineamino Transferase	
Alkaline Phosphatase	
Chloride	
Calcium	
Phosphorous	
Sodium	



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Technical Specifications

Model		FACA301				
Assay Model		Random access with direct reading system				
Method		End point, Kinetic, Fixed time, Immunoturbidimetric, 1-2 reagent, Multistandard, reagent/serum blank, etc				
Assay Item		40 assay				
Throughput	1 Reagent	ISE mould (Na ⁺ , K ⁺ , Cl ⁻ / Li ⁺) available on request				
	2 Reagent	300 test/h (max)				
	With ISE	240 test/h				
Sample Position		60				
		Including standard, control and stat; either serum cup or primary tube available				
Sample Volume		1~100ul, 0.1 ul / step				
Reagent Position		40 or 80 (optional)				
Reagent Volume		R1: 1~400ul, 1ul / step, R2: 1~400ul, 1ul / step				
Reagent / Sample Probe		With liquid level sensor, collision sensor, teflon coating and automatic washing station				
Reaction Time		0~999 seconds				
Cuvette		High quality uv-transmitted plastic cuvette. Quartz glass cuvettes on request				
Cuvette Washing		8 channels automatic washing system for reaction cuvettes				
Probe And Mixer Washing		Independent washing station for each sample/reagent probe and mixer				
Alarm		Automatic alarm for malfunction (eg: collision, reagent / sample insufficiency, full waste container, etc)				
Calibration		Linear, Non-linear, Multi standard, K factor				
Sample Dilution/Retest		Sample can be diluted and retested if results are out of range or sample is insufficient. Also with calibrator auto diluting function				
Wavelength		340~810nm				
Light Source		Halogen lamp				
Absorbance Resolution		0.0001A				
Absorbance Accuracy		±0.0003A(0~2.5A)				
Repeatability (CV %)		≤2%				
Quality Control		Levy Jennings quality control program at 3 levels				
Bar Code		Optional				
Printer		Multiple report formats available				
Test Control Function		New card control system available on request				
Language		English, French, Spanish, German, Russian, etc				
System		Windows XP or Vista ; Windows 7				
Power Supply		220V / 50Hz or 110V / 60Hz (optional)				
Dimension		85×72×53 (cm)				
Weight		90Kg				
Test Menu	T.BILI	r-GT/GGT	CHO	Ca	APOB-1/B	CHE
	D.BILI	ALP/AKP	TG	CL	APOB	CREA
	TP	UREA	CK	P	CK-MB	Mg
	ALB	CREA	LDH	C	ASO	AFU
	Lactic Acid	ALT/GPT	UA	α-HBDH	CO ₂	FMN
	LP(a)	AST/GOT	GLU	AMY	LDL-C	HDL-C
	CHE	LA	TBA	ADA	HS-CRP	PA
	Fe	Cu	Zn	C3	C4	IgG
	IgM	IgA	and drug, toxicity, etc			

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FACA- 401

Fully Automatic Biochemistry Analyzer

We offer six types of Fully Automatic Biochemistry Analyzers: (ISE = Electrolyte Testing)

FACA-401 400 test/hr True Random Access

Features

Random access and direct reading system
Automatic washing system for both sample and reagent probe
Liquid level detection and collision protection for both sample and reagent probe
Reliable cooling system for reagent chamber
Powerful reaction cuvette washing system
User-friendly interface
ISE module and barcode scanner (optional)
Reagent Tray
80 reagent positions for FACA-401.
Cooling reagent chamber may work independently for 24 hours.
Sample Tray
88 reagent positions for FACA-401.
Cuvette
Either high quality UV-transmitted plastic cuvettes or quartz glass cuvettes available.
Reagent Tray
80 reagent positions for FACA-401.
Cooling system may work independently for 24 hours.
Independent Mixer
2 mixers for FACA-401.
Sample Probe/Reagent Probe
1 sample probe and 1 reagent probes for FACA-401.
With liquid-level sensor, anti-collision sensor and automatic cleaning function.
ISE Module available upon request.
Cuvette Washing Station - 8 channels automatic washing station.
Independent Mixer - ensuring quick and complete reaction.
Reaction Cuvette - High quality, UV-transmitted plastic cuvettes, or quartz glass cuvettes (optional).
Reagent Bottle - More convenient and economical ready-to-use reagent kits.
Works with Windows XP and Windows 7.
Enzyme Kinetic GPT GOT tests.
CABINET IS OPTIONAL.



Testing items

Glucose	Gamma-Glutamyl
Blood Urea	Transferase
Nitrogen	High Density
Creatinine	Lipoprotein
Total Cholesterol	Low Density
Triglycerides	Lipoprotein
Total Bilirubin	Lactate Dehydro-
Total Protein	genase
Albumin	Creatine Kinase
Globulin	Magnesium
Aspartateamino	Uric Acid
Transferase	Non Esterified
Alanineamino	Fatty Acid
Transferase	Amylase
Alkaline Phos-	
phatase	
Chloride	
Calcium	
Phosphorous	
Sodium	
Potassium	



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Technical Specifications

Model		FACA401				
Assay Model		Random access with direct reading system				
Method		End point, Kinetic, Fixed time, Immunoturbidimetric, 1-2 reagent, Multistandard, reagent/serum blank, etc				
Assay Item		80 assay				
Throughput	1 Reagent	400 test/h				
	2 Reagent	400 test/h				
	With ISE	+120 test/h				
Sample Position		80				
		Including standard, control and stat; either serum cup or primary tube available				
Sample Volume		1~100ul, 0.1ul / step				
Reagent Position		2 x 40				
Reagent Volume		R1:1~400ul, 1ul / step, R2:1~400ul, 1ul / step				
Reagent / Sample Probe		With liquid level sensor, collision sensor, teflon coating and automatic washing station				
Reaction Time		0-999 seconds				
Cuvette		High quality uv-transmitted plastic cuvette. Quartz glass cuvettes on request				
Cuvette Washing		8 channels automatic washing system for reaction cuvettes				
Probe And Mixer Washing		Independent washing station for each sample/reagent probe and mixer				
Alarm		Automatic alarm for malfunction (eg: collision, reagent / sample insufficiency, full waste container, etc)				
Calibration		Linear, Non-linear, Multi standard, K factor				
Sample Dilution/Retest		Sample can be diluted and retested if results are out of range or sample is insufficient. Also with calibrator auto diluting function				
Wavelength		340~810nm				
Light Source		Halogen lamp				
Absorbance Resolution		0.0001A				
Absorbance Accuracy		±0.0003A(0~2.5A)				
Repeatability (CV %)		≤2%				
Quality Control		Levy Jennings quality control program at 3 levels				
Bar Code		Optional				
Printer		Multiple report formats available				
Test Control Function		New card control system available on request				
Language		English, French, Spanish, German, Russian, etc				
System		Windows XP or Vista ; Windows 7				
Power Supply		220V / 50Hz or 110V / 60Hz (optional)				
Dimension		100x85x70 (cm)				
Weight		137Kg				
Test Menu	T.BILI	r-GT/GGT	CHO	Ca	APOB-1/B	CHE
	D.BILI	ALP/AKP	TG	CL	APOB	CREA
	TP	UREA	CK	P	CK-MB	Mg
	ALB	CREA	LDH	C	ASO	AFU
	Lactic Acid	ALT/GPT	UA	α-HBDH	C0 ₂	FMN
	LP(a)	AST/GOT	GLU	AMY	LDL-C	HDL-C
	CHE	LA	TBA	ADA	HS-CRP	PA
	Fe	Cu	Zn	C3	C4	IgG
	IgM	IgA	and drug, toxicity, etc			

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FACA- 601

Fully Automatic Biochemistry Analyzer

We offer six types of Fully Automatic Biochemistry Analyzers: (ISE = Electrolyte Testing)

FACA-601 600 test/hr True Random Access

Features

Random access and direct reading system
 8 channel automatic washing system for both sample and reagent probe
 Liquid level detection and collision protection for both sample and reagent probe, with teflon coating and automatic washing station
 Reliable cooling system for reagent chamber
 Powerful reaction cuvette washing system
 User-friendly interface
 Barcode scanner (optional)
 Reagent Tray
 80 reagent positions for FACA-601.
 Cooling reagent chamber may work independently for 24 hours.
 Sample Tray
 80 reagent positions for FACA-601.
 Cuvette
 Either high quality UV-transmitted plastic cuvettes or quartz glass cuvettes available.
 Independent Mixer
 2 mixers for FACA-601.
 Sample Probe/Reagent Probe
 1 sample probe and 1 reagent probes for FACA-601.
 With liquid-level sensor, anti-collision sensor and automatic cleaning function.
 ISE Module is provided with the unit.
 Cuvette Washing Station - 8 channels automatic washing station.
 Independent Mixer - ensuring quick and complete reaction.
 Reaction Cuvette - High quality, UV-transmitted plastic cuvettes, or quartz glass cuvettes (optional).
 Reagent Bottle - More convenient and economical ready-to-use reagent kits.
 Works with Windows XP and Windows 7.
 Enzyme Kinetic GPT GOT tests.
 CABINET IS OPTIONAL



Testing items

Glucose	Gamma-Glutamyl
Blood Urea	Transferase
Nitrogen	High Density
Creatinine	Lipoprotein
Total Cholesterol	Low Density
Triglycerides	Lipoprotein
Total Bilirubin	Lactate Dehydro-
Total Protein	genase
Albumin	Creatine Kinase
Globulin	Magnesium
Aspartateamino	Uric Acid
Transferase	Non Esterified
Alanineamino	Fatty Acid
Transferase	Amylase
Alkaline Phos-	
phatase	
Chloride	
Calcium	
Phosphorous	
Sodium	
Potassium	



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Technical Specifications

Model	FACA-601
Assay types	Random access
Throughput	760 T/hr(include ISE), 600 T/Hr(biochemical test only)
Analytical methods	End point, Kinetic(Rate), Fixed time, Single standard, Multi-standard, Single wavelength assay, Bichromatic, Bi-reagent assay, Serum blank assay, Immunoturbidimetric assay and ISE assay (K/Na/Ca/Cl/PH)
Sample capacity	2 x 92 primary tube or micro serum cup
Sample/reagent probe	With liquid level sensor, automatically checking and tracking reagent allowance ability, internal and external nano treated, stereoscopic collision protection, plugging probe checking ability
Sample volume	1.0-100ul in 0.1 µl/step
Reagent volume	1-500ul in 0.1 µl/step
Reagent tray	2 reagent trays, barcode scanner available (on request), R3/R4 assay models available
Reagent refrigerator	2-8 °C, 24 hrs available
Reading Cuvette	160 cuvettes, made of ultraviolet transmittable plastic (or quartz glass cuvettes available on request)
Reaction volume	Minimum 120 µl
Reaction disc temp.	Water bath system, 37 ± 0.1°C, (air bath on request)
Cuvette cleaning	Automatic warm water washing station with 8 channels, blank reading for ensuring each cuvette well cleaned before using. Smart detergent clean for high contamination cuvette and probe, efficiently decreasing carry-over
Carry-over	Less than 0.05%
Monochromator	Concave grating
Wavelength range	340-810nm
Alarm	Automatic alarm for lack of reagent, sample, water, or waste filled and other errors, showing the info on monitor
Mixer	2 nano-surface treated mixing probes, with automatic warm water washing station for each one
Quality control	Multi-level QC for the same item automatically monitoring and alarming if the results out of control
Assay Linearity range	Wide linearity range measuring, also with automatically diluting function for high value sample
Calibration	Single or multi-points calibration, supporting linear and nonlinear assay
Data processing	Powerful software for calculating, blanking, multi-analysis, data reviewing, QC and results management, on line monitoring, editing etc.
Data storage	Long-term storage, storage capacity upon PC hard disc
Print	Multi report formats and user-self-defined report format are available
Power supply	AC 110V/60Hz or 220V/50Hz
Dimensions	1200mm x 900mm x 1100mm

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FACA- 801

Fully Automatic Biochemistry Analyzer

We offer six types of Fully Automatic Biochemistry Analyzers: (ISE = Electrolyte Testing)

FACA-801 800 test/hr True Random Access

Features

Random access and direct reading system
8 channel automatic washing system for both sample and reagent probe
Liquid level detection and collision protection for both sample and reagent probe, with teflon coating and automatic washing station
Reliable cooling system for reagent chamber
Powerful reaction cuvette washing system
User-friendly interface
Barcode scanner (optional)
Reagent Tray
80 reagent positions for FACA-601.
Cooling reagent chamber may work independently for 24 hours.
Sample Tray
80 reagent positions for FACA-601.
Cuvette
Either high quality UV-transmitted plastic cuvettes or quartz glass cuvettes available.
Independent Mixer
2 mixers for FACA-601.
Sample Probe/Reagent Probe
1 sample probe and 1 reagent probes for FACA-601.
With liquid-level sensor, anti-collision sensor and automatic cleaning function.
ISE Module is provided with the unit.
Cuvette Washing Station - 8 channels automatic washing station.
Independent Mixer - ensuring quick and complete reaction.
Reaction Cuvette - High quality, UV-transmitted plastic cuvettes, or quartz glass cuvettes (optional).
Reagent Bottle - More convenient and economical ready-to-use reagent kits.
FACA-601/ISE has data to show the expiration of the reagent.
Works with Windows XP and Windows 7.
Enzyme Kinetic GPT GOT tests.
CABINET IS OPTIONAL.



Testing items

Glucose	Gamma-Glutamyl
Blood Urea	Transferase
Nitrogen	High Density
Creatinine	Lipoprotein
Total Cholesterol	Low Density
Triglycerides	Lipoprotein
Total Bilirubin	Lactate Dehydro-
Total Protein	genase
Albumin	Creatine Kinase
Globulin	Magnesium
Aspartateamino	Uric Acid
Transferase	Non Esterified
Alanineamino	Fatty Acid
Transferase	Amylase
Alkaline Phos-	
phatase	
Chloride	
Calcium	
Phosphorous	
Sodium	
Potassium	



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Technical Specifications

Model	FACA-601
Assay types	Random access
Throughput	760 T/hr(include ISE), 600 T/Hr(biochemical test only)
Analytical methods	End point, Kinetic(Rate), Fixed time, Single standard, Multi-standard, Single wavelength assay, Bichromatic, Bi-reagent assay, Serum blank assay, Immunoturbidimetric assay and ISE assay (K/Na/Ca/Cl/PH)
Sample capacity	2 x 92 primary tube or micro serum cup
Sample/reagent probe	With liquid level sensor, automatically checking and tracking reagent allowance ability, internal and external nano treated, stereoscopic collision protection, plugging probe checking ability
Sample volume	1.0-100ul in 0.1 µl/step
Reagent volume	1-500ul in 0.1 µl/step
Reagent tray	2 reagent trays, barcode scanner available (on request), R3/R4 assay models available
Reagent refrigerator	2-8 °C, 24 hrs available
Reading Cuvette	160 cuvettes, made of ultraviolet transmittable plastic (or quartz glass cuvettes available on request)
Reaction volume	Minimum 120 µl
Reaction disc temp.	Water bath system, 37 ± 0.1°C, (air bath on request)
Cuvette cleaning	Automatic warm water washing station with 8 channels, blank reading for ensuring each cuvette well cleaned before using. Smart detergent clean for high contamination cuvette and probe, efficiently decreasing carry-over
Carry-over	Less than 0.05%
Monochromator	Concave grating
Wavelength range	340-810nm
Alarm	Automatic alarm for lack of reagent, sample, water, or waste filled and other errors, showing the info on monitor
Mixer	2 nano-surface treated mixing probes, with automatic warm water washing station for each one
Quality control	Multi-level QC for the same item automatically monitoring and alarming if the results out of control
Assay Linearity range	Wide linearity range measuring, also with automatically diluting function for high value sample
Calibration	Single or multi-points calibration, supporting linear and nonlinear assay
Data processing	Powerful software for calculating, blanking, multi-analysis, data reviewing, QC and results management, on line monitoring, editing etc.
Data storage	Long-term storage, storage capacity upon PC hard disc
Print	Multi report formats and user-self-defined report format are available
Power supply	AC 110V/60Hz or 220V/50Hz
Dimensions	1200mm x 900mm x 1100mm

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BAS-150 TS PLUS

Semi-Automatic Combined Clinical Chemistry and Coagulation Touch Screen Analyzer

The BAS-150 TS Plus is open to being used with all brands of biochemistry reagents. THIS BIOCHEMISTRY ANALYZER CAN TEST Samples In Two Ways, By Suction Pump And By Disposable Cuvette



Comes with keyboard and mouse

Features

Random access and direct reading system
Coagulation Testing
Windows Embedded Compact 7 operating system
7.0" True Color Touch Screen (800 x 480 pixels)
4 USB ports and 1 Ethernet port
Inside multi-function incubator
Universal power supply
Enzyme Kinetic GPT GOT tests.reagent kits.
FACA-601/ISE has data to show the expiration of the reagent.
Works with Windows XP and Windows 7.
Enzyme Kinetic GPT GOT tests.
CABINET IS OPTIONAL.

Accessories

1 power cable
1 pump cassette
1 waste tube
1 aspiration tube
2 rolls of printer paper
1 touch pen
1 lamp house
5 clotting cuvettes
1 clotting cuvette adapter

Technical Specifications

Clinical Chemistry & Coagulation Analyzer

Analysis method:	1 point end, 2 point end (Sample blank), Kinetics, Fixed-time, Coagulation
Optics:	7 filters, 340, 405, 450, 505, 546, 578, 630.
Lamp house:	6V 10W halogen lamp
Display:	7.0" TFT LCD with touch screen, 800*480 pixels
Printer:	Build-in thermal printer, 57mm printer paper
Interface:	4 USB Host; 1 USB Slave; 1 Ethernet port
Power requirement:	Wide power supply AC100-240V, 50/60Hz
Temperature:	25, 30, 37°C and Room temperature
Flow cell capacity & optical path:	32ul, 10mm
Resolution:	0.0001 Abs
Photometric range:	0.0000-3.0000 Abs
Vacuum system programmable:	200 – 5000 ul at least
Memory:	DDR2 SDRAM: 1G bit
Flash:	256 MB
Programs:	Over 300programs, 200000 results can be stored
CPU:	ARM Cortex-A8, 720MHz
Incubator:	Inner multi-function incubator Incubator
Temperature:	37C
Dimensions:	400*300*191 mm (L*W*H)
Weight:	7.5Kg



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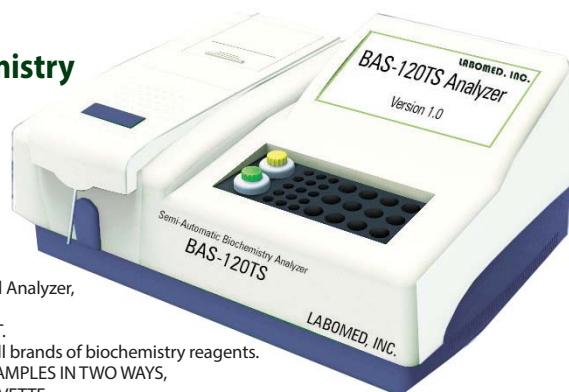
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BAS-120TS

Combined Clinical Chemistry and Multitest Analyzer

Touch Screen Analyzer

Combined Clinical Chemistry and Multitest Analyzer Touch Screen BAS-120TS is a TOUCH SCREEN Microprocessor Biochemical Analyzer, which measures the biological indicators, more than 50 elements plus test TT, PT, APTT. The BAS-120TS is open to being used with all brands of biochemistry reagents. THIS BIOCHEMISTRY ANALYZER CAN TEST SAMPLES IN TWO WAYS, BY SUCTION PUMP AND BY DISPOSABLE CUVETTE



Features

Powerful Software, 7.0" Touch Screen, Multi-language, Built-in Printer, USB port for external printer, online operation, keyboard, software update (optional), Very easy to use, user-friendly interface, 50 Biochemistry tests

Technical Specifications

Model	BAS-120TS
Reading Cuvette	Both flow through cell and direct reading cuvette
Measuring Volume	500ul
Incubator	20 incubating positions
Photometric System	Light source: 6V/10W halogen lamp
	Wavelength: 340/405/492/510/546/578/620nm , 2 more filters upon request
	Wavelength accuracy: $\pm 2\text{nm}$
Thermostatic Control	Temperature: 25 °C, 30 °C, 37 °C
	Precision: $\pm 0.1^{\circ}\text{C}$
Measuring System	Method: End point, Fixed time, Multistandards, Differential, Bichromatic, Immunoturbidimetric, etc.
	Measuring Range: 0-3.000 O.D
	Photometric Linearity: $\pm 2\%$ (0-3.000 O.D)
	Photometric Accuracy: $\pm 1\%$ (0-3.000 O.D)
Drift	Carry-over: $\leq 1\%$ $< 0.005 \text{ O.D/hr}$
Test Menu	Chemistry: T.B LI r-GT/GGT CHO Ca APOB-1/B CHE D.B LI ALP/ AKP TG CL APOB CREA TP UREA CK P CK-MB Mg ALB LOH C ASO AFU Lactic Acid ALT/GPT UA a-HBDH CO2 FMN LP(a) AST/GOT GLU AMY LDL-C HDL-C
Quality Control	Excellent Q.C function, Q.C chart may be displayed and printed
Display	7 inch touch screen
Storage	Over 200 programs, 1000 test results
Printer	Built-in thermal printer
LIS Software	Optional
Interface	USB port for external printer, keyboard, software update (optional)
Power Supply	AC 110V/60Hz or 220V/50 Hz
Dimensions	34cm x 38cm x 18cm
Weight	8.0Kg

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BAS-100 TS

Semi-Automatic Clinical Chemistry Analyzer

Touch Screen Analyzer



Comes with keyboard and mouse

Clinical Chemistry Analyzer BAS-100 TS is a new concept designed clinical chemistry analyzing system for biochemical research and clinical diagnostics: Powerful data process function makes it easy to perform data management and statistics: the report may be in a single test or with completed patient data, which will be convenient for clinical diagnostics. **BAS-100 TS** includes a suction pump system. This semi automatic biochemistry analyzer can measure all blood elements and print on built in printer as indicated in the features section.

BAS-100 TS has a built in printer and flow through system to use up to 32uL and incubating system for 37° for kinetic test. The **BAS-100 TS** is open to being used with all brands of biochemistry reagents. Single chip machine, it uses the WindowsCE operating system, it does not require Windows XP or Windows 7.

**THIS BIOCHEMISTRY ANALYZER CAN TEST SAMPLES IN TWO WAYS,
BY SUCTION PUMP AND BY DISPOSABLE CUVETTE**

Features

BAS-100TS uses both a suction pump system and a cuvette system for analytical testing.
 Photometric scanning of Spectrum, Analysis in multiple longitude of wave and kinetics, endpoint, fixed time, kinetic.
 Blank of water or blank of reagent method can be linear or nonlinear, according to the type of reagent you are using.
 Diagnosis of Operation
 Automatic Calibration
 System of aspiration of sample (Pale of flow, Aspiration System, Faslck of Residuals, Tubes, Connectors, Etc)
 Power Cable Included
 Works with WindowsCE operating system. Single chip machine, does not require Windows XP or Windows 7.
 Enzyme Kinetic GPT GOT tests.

Accessories

1 Power Cable, 1 Aspiration Tube, 1 Printer Paper Roll
 1 Lamp House, 5 Clotting Cuvettes, 1 Spare Tubing
 1 Instruction Manual CD, 1 Keyboard Extra
 1 Mouse

Optional Accessories:

2 Reserve halogen Lamp
 4 Rolls of Printer Paper



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EMR500

Clinical Microplate Reader Touch Screen

Eight channel photometers for the sequential and simultaneous for the reading of microplates. Providing the best level of sensitivity for variable assay conditions, with powerful software are able to perform reading and data procession with relative memorization. Single chip machine, can work with itself, or connect with computer. Can use with Windows XP or Windows 7.



Technical Specifications

Measurement System:	8 channels, 96 well plate
Analysis Mode:	Cut-off, single and multi-standard, O.D. bichromatic, dynamic reading, etc.
Reading Speed:	6 seconds (fast kinetic measurements)
Linear Range:	0.001-3.500Abs
Photometric Accuracy:	$\pm 1\%$ or $\pm 0.001A$
Repeatability:	$< 1.0\%$
Stability:	$< 0.005Abs/hr$
Linearity:	$< \pm 1.0\%$
Sensitivity:	$< \pm 0.001A$
Channels Discrepancy:	$< \pm 0.002A$
Optical filters:	405/450/492/630nm
Reading:	Automatic focusing function makes the results more precise
Tray Shaking :	Yes
Storage:	100 programs
Display:	Touch screen
Interface:	RS-232 and USB port
Printer:	Built-in thermal printer (External printers are available on request)
Power Supply :	AC 220V 50Hz or 110V 60 Hz
Dimensions:	46cm*33cm*18cm
Weight:	7.5kg

Accessories

(all standard accessories and consumables required to make the unit fully functional and ready for immediate use)

1 Power Cable, 2 Fuse, 1 USB Cable, 1 Touch Pen

2 Roll of Printer Paper, 1 User Manual, 1 Operation Software CD

Please note: Reagents required should be purchased when you place your order, and must be purchased separately. Please contact us to discuss your reagent needs.

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EMW600

Clinical Microplate Washer Touch Screen



An automatic washer for microplates. It is capable of all types of microplate wells and provides automatic plate calibration. 8- or 12- channel modes are available and can be easily fitted to wash single and multiple strips or a complete 96-well plate.

Technical Specifications

Residual Volume:	<2ul/well
Dispensing volume:	50ul ~ 500ul
Dispensing Precision:	<2% CV at 300ul across plate
Dispensing error:	<2%
Working Temperature :	8°C - 50°C
Plate Type:	96/48 well plate or strip plate
Manifolds:	8- or 12- way available
Wash cycles:	0-99
Soak time:	0-3600 seconds
Shaking time:	0-99 seconds
Alarming:	Automatic alarm after washing
Self-test Function:	Automated location check
Storage:	50 programs
Language:	English. Other languages on request
Interface:	RS232 and USB port
Monitor:	Back-illuminated LCD
Power Supply :	AC 220V 50Hz or 110V 60 Hz
Dimensions:	48cm x 40cm x 27cm
Weight:	6.0kg

Accessories

(all standard accessories and consumables required to make the unit fully functional and ready for immediate use)

1 Power Cable, 2 Fuse, 1 Tube
1 8-channel manifold, 1 Lotion bottle A
1 Waste bottle, 1 User Manual



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H-7021

Hematology Clinical Chemistry Analyzer



Analysis samples by one button.

Aspiration probe cleans automatically to avoid the carry-over.

Changing from the mode of peripheral blood to venous blood by one key. The appropriate calibrate program can calculate the peripheral blood and venous blood respectively and save the results automatically.

Internal Real-time monitoring system (continually supervising the micro hole, liquid circulating system and reagent residue), reminding the special results and diagnosing the problem automatically.

Internal automatic capacity of maintenance. Maintaining the apparatus timely,

increasing the reliability of operation. The new liquid circulating system with patent technology can avoid and remove the jam. Open shell to help maintain the liquid circulating system. Special WBC analysis category menu, sieve the abnormal samples. Safe reagent without any harm to the environment. Fully automatic automatization

Capable of blanking at automatic zero setting, Single chip machine, can only update data to PC.

Technical Specifications

Sample Volume:	10ul (whole blood) 20ul (prediluted blood)
Throughput:	60 test /hour
Measurement theory:	Electro-impedance, photometric analysis
Display:	LCD displaying all the reading results of sample
Storage:	200,000 results including histograms
Printing mode:	Internal thermal printer or interface to external printer
Data Input:	Keypad (mouse and keyboard available)
Output:	RS232, USB, Internet access, available for LIS system
Dimensions:	43cm x 32cm x 50.5cm
Weight:	20kg/50 Lbs.
Voltage/power:	AC110-220 60/50Hz 180VA
Parameters:	WBC, LY, MO, GR, LY%, MO%, GR%, RBC, HCT, MCV, RDW-SD, RDW-CV, MCHC, PLT, MPV, PCT, DW, PDW, HGB, WBC Histograms, RBC Histograms, PLT Histograms
QC:	3 QC Program calculates X, SD, CV%, saves data
Language:	English, other languages on request.

Accessories

2 Fuse, 2 Print Paper, 1 Power Cable, 2 Filters, 1 Ground Cable, 3 Hoses of Hemolysin, diluent Waste Sensor, Water Connector, User's Manual, Seal Ring, Lubricant Oil, Brush

OPTIONAL REAGENTS AVAILABLE UPON REQUEST, INCLUDING:

Diluent	1 Box 20 Liter
Detergent	2 Boxes 5 Liter
Hemolysin	1 Bottle 500 ml

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H-7028

Fully Automatic 5-part Differential Hematology Analyzer

H-7028 Fully Automatic 5-part Differential Hematology Analyzer

is a 5-part differential multi-parameter automated Hematology Analyzer designed for clinical laboratories. The analyzer uses light scatter and impedance technology for WBC differential and impedance method for RBC and PLT. With the most updated technology and concepts, it best meets most clinical laboratory requirements for an automated hematology analyzer. The equipment offers user-friendly software, powerful functions, stable part differential, and accurate results.

Features

Automatic alarm and diagnostic for abnormal results or problems.

Sampling Mode: Manual sampling. Closed tube sampling and Auto loader.

The measuring system is constant temperature controlled for stable results.

Precise sampling system and advanced technologies integrated to ensure the analyzer is providing accurate and perfect results.

Multi-language interface (English, Spanish, Russian, French, Others available on request.). Automatic quality management function. Wide linearity range for each parameter. Multi-report format is optional.

Environmentally friendly reagents (free of cyanide).



Technical Specifications

Sampling	Manual without pierce
Auto Loader	None
Barcode	Optional on request
Parameters	28 parameters +3 histograms + 1 scattergram WBC, LYM#, LYM%, NEU#, NEU%, BAS#, BAS%, MON#, MON%, EOS#, EOS%, RBC,HGB, HCT, MCV, MCH, MCHC, RDW-SD, RDW-O/, PLT, PDW, MPV, PCT, P-LCR, ALY#, ALY%, UC#, UC% RSC histogram, PLT histogram, Baso histogram and WBC differential scattergram
Measuring Principle	Impedance for RSC, PLT, Baso, WBC Photometry for HGB WBC diff.: optical light scatter + Impedance
Sample Type	Whole blood: 50 µl or capillary blood: 20 µl
Throughput (T/hr)	60
Reagents	Diluent, Detergent, Lyse, Baso-lyse, Eo-lyse
Cell Dying	More stable and harmonious
Operation System	More User-friendly interface with multilanguages available
Data Storage	More than 5,000 reports
Interface	USB, PS/2 and COM
Power Supply	100-240V, 50/60Hz
Dimensions	400 x 420 x 490mm
Weight	25kg
Work Environment	Temperature 18-28°C, Humidity 30-85%



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IO-005

Electrolyte Clinical Analyzer

Features

Automatic priming and maintenance function.
 Carry-over prevented by automatic probe cleaning.
 Automatic standby function.
 Automatic calibration.
 Low reagent consumption.
 User-friendly software.
 Long-life and stable electrodes.
 Automatically shows any abnormality in electrolyte reading



Technical Specifications

Parameters: K⁺, NA⁺, Cl⁻, Ca²⁺, PH
 Assay Method: Ion selective electrode
 Throughput: 60 tests/hr
 Sample Type: Whole blood, serum, plasma, urine, sweat, dialysate
 Sample Volume: 35-120 ul
 Display: 128mm X 64mm back-illuminated LCD
 Storage: More than 2000 samples and Q.C. data
 Printer: Built-in thermal printer
 Interface: RS-232
 Environment: Temperature: 18~35°C
 Requirements: Humidity: <85%
 Closed or open tube: Yes
 Visible Sample: Yes
 Chamber: Yes
 Analysis Time, sec: 50 seconds
 Sample Rate: Up to 60 per hour or more
 Na serum/plasma: 30-200 mmol/L
 K serum/plasma: 0.5-10 mmol/L
 Cl serum/plasma: 30-200 mmol/L
 Ca⁺⁺: 1.10-5.00 mmol/L
 Automatic Wash: Yes
 Type and frequency: On demand/Automatic
 Language: English, other languages on request
 Power Supply: AC 110 V /60 Hz or 220 V / 50Hz
 Voltage: 220V, max. 15A, 1 Phase
 Frequency: 60Hz
 Power Cord: 3 Pin BT, 1-2 Meter Length
 Regulatory Compliances: ISO, CE
 Safety Standard: UL
 Dimensions: 36cm x 25cm x 26cm
 Weight: 6.0kg
 Accessories: All standard accessories
 Reagents: Reagents for a three month supply for 25-30 samples per day should be ordered at the time you order the equipment.

Accessories

1 Power Cable, 2 Fuse, 1 Pump Tube, 3 Standard Solution A (250ml/bot), 3 Standard Solution B (250ml/bot)
 1 Deproteinization Solution, 1 Reference Electrolyte Solution, 1 Printing Paper, 1 User's Manual

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SCO-2000

Clinical Coagulometer

Labomed's new

SCO-2000 Coagulometer Analyzer

has a Double Reading Channel for testing Prothrombin Time (PT), Activated Partial Thromboplastin Time (APTT), Thromboplastin time (TT) and Fibrinogen Protein (FBG). It tests for Clotting Factors (exogenous or endogenous), Available Ratio (Ration) Activation Degree (%) and International Normalized Ratio (INR) and other ways. Its advanced testing features can eliminate errors. It has an automatic mixing device, and has a customizable ten sets of test parameters, along with a customizable incubation time. Up to 255 records can be stored. It provides 2 detection channels, with sample and reagent preheating, and is supplied with a built-in thermal printer.



Features

Built-in incubator. Automatic stirring system. Up to seven points calibration
Open system for reagent, low reagent consumption (50-100 ul). Large memory and review system. User-friendly software.
Accurate measurement, no influence from pathological sample during the test.

Technical Specifications

TEST MENU

PT	Prothrombin Time (PT)
APTT	Activated Partial Thromboplastin Time (APTT)
TT	Thrombin Time (TT)
FBG	Fibrinogen Concentration
CLOTTING FACTORS	Clotting factors are able to be expressed in the form of time (sec), ratio or INR

TECHNICAL SPECIFICATIONS

MODEL	SCO-2000
READING CHANNEL	Double
BUILT-IN INCUBATOR	37°C ± 0.2°C, capacity for 2x16 sample positions and 2x2 reagent positions
PRINCIPLE	Nephelometry
BEAM SOURCE	Long-life LED
MAGNETIC STIRRING MOTOR	Built-in
DATA INPUT	Membrane keypad
DISPLAY	Back-illuminated LCD
PRINTER	Built-in thermal printer
LANGUAGE	English, other languages available on request
POWER SUPPLY	AC 110V / 60Hz or 220V / 50 Hz
DIMENSIONS	39cm x 34cm x 13cm
WEIGHT	5.5 kg

Accessories

1 Pc Power cable, 200 Pcs Stirring bar, 200 Pcs Cuvette, 2 Pcs Fuse, 1 Roll Print paper
1 Pc Black cap, 1 Pc User's manual



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VH-22

Veterinary Auto Hematology Analyzer (22 Parameters)

One of the important advantages of this instrument is that it is open to working with any proper reagent and with many applications.

Features

60 samples/hour

Continuous Work Time >8h

RS232 joint, USB, PS2, Parallel port

Sample Volume: Twig blood: 20 ul



Technical Specifications

Test Items	WBC, LY#, MO#, GR#, LY%, MO%, GR%, HGB, RBC, HCT, MCV, MCH, MCHC, RDW—CV, RDW—SD, PLT, PCT, MPV, PDW, WBC Histogram, RBC Histogram, PLT Histogram		
Background Count	WBC: $\leq 0.3 \times 10^9/L$ RBC: $\leq 0.03 \times 10^{12}/L$ HGB: $\leq 1g/L$ PLT: $\leq 10 \times 10^9/L$		
Linearity	Test Item	Test Range	Allow Difference of Linearity
	WBC	0 $6.0 \times 10^9/L$	$\pm 0.3 \times 10^9/L$
		6.0 $99.9 \times 10^9/L$	$\pm 5\%$
	RBC	0 $0.99 \times 10^{12}/L$	$\pm 0.05 \times 10^{12}/L$
		1.0 $9.99 \times 10^{12}/L$	$\pm 5\%$
	HGB	0 99 g/L	$\pm 2g/L$
		100 300 g/L	$\pm 2\%$
	PLT	0 $99 \times 10^9/L$	$\pm 10 \times 10^9/L$
		100 $999 \times 10^9/L$	$\pm 10\%$
Repeatability	Test Item	CV(%)	Test Range
	WBC	≤ 2.0	$7.0 \sim 15.0 \times 10^9/L$
	RBC	≤ 0.5	$3.5 \sim 6.0 \times 10^{12}/L$
	HGB	≤ 1.5	$110 \sim 180g/L$
	PLT	≤ 4.0	$150 \sim 500 \times 10^9/L$
Sample Volume	MCV	≤ 0.5	$80 \sim 110fL$
	Twig blood: 20ul		
Dilution Ratio	WBC/HGB: 1:500 RBC/PLT: 1:50000		
Interfaces	RS232 joint, USB, PS2, Parallel port		
Test Speed	60 samples/hours		
Continuous			
Work Time	>8h		

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DW-20

De-Ionized
Water Distiller with Gauge



Technical Specifications

Water Processing Volume:	20L/hour
Installation requires:	
a) Water Conductivity:	<400us/cm
b) Water Pressure:	0.1-0.4 Mpa (if no need extra pump)
c) Water Temperature:	5°C-45°C
Water Speed of Output:	1.5-2L/min
After Purification Conductivity:	>16 Ion< 0.1ppb
Power:	50W
Dimensions:	420mm x 350mm x 500mm
Weight:	25-30 kg



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