

## HA-17600, 2 Counting Channels Hematology Analyzer With Touch Screen



**HA-17600**

### Features:

- 20 parameters+3 histograms.
- 2 counting channels, 3-part differentiation of WBC.
- 2 Counting mode: whole blood and pre diluted.
- 60 samples per hour.
- Up to 50000 sample results (including histograms) can be stored
- 10.4" TFT color LCD with touch screen
- Built-in thermal printer, optional external printer
- External AC adapter avoids electronic noises, enhancing accuracy
- Multi-language software available on request.

Model	HA-17600
Parameters	WBC, LYM#, MID#, GRA#, LYM%, MID%, GRA%, RBC, HGB, MCHC, MCH, MCV, RDW-CV, RDW-SD, HCT, PLT, MPV, PDW, PCT, P-LCR and Histograms for WBC, RBC and PLT
Principles	Electrical resistance for counting WBC, RBC and PLT
Performance	Parameter Precision (CV %): WBC (109/L) 2.0(7.0-15.0) RBC (1012/L) 1.5(3.50-6.00), HGB (g/L) 1.5(110 – 180) MCV (fL) 0.4(80.0 – 110.0), PLT (109/L) 4(100 – 500)
Sample Volume	Prediluted: 20µL, Whole Blood: 9.8µL
Aperture Diameter	WBC 80µm; RBC 50µm
Throughput	60 samples per hour
Display	10.4" TFT Color LCD with touch screen, Resolution: 800×600
Alarms	Error messages
Carryover	WBC/RBC/HGB<0.5%, PLT<1.0%
Input/Output	RS-232, USB, LAN, keyboard and mouse interface
Printout	Thermal printer, 55mm width paper, various printout formats, external printer optional
Operating Environment	Temperature: 15°C~35°C; Humidity: 10%~90%
Power Requirement	AC 110-220V, 50/60Hz
Dimension(mm)	L436×W363×H367
Weight	18Kg

## SACA-11904C, High Quality Chemistry Analyzer With 7 Filters, Color LCD



**SACA-11904C**

### Features:

- Easy Windows operation system with mouse, large color LCD display.
- Reagent open system supports flow cell and cuvette mode, close system on request
- Analytical modes include kinetic, fixed time, bichromatic end point with/without reagent blank or sample blank, linear or non-linear calibration curves
- Real-time curve monitoring enhances the reliability of result
- Large memory, up to 160 test protocols can be programmed
- Powerful QC function: Westguard Multi-rule, Levey Jennings plot, 2 controls per test
- Auto self-check when power on
- With lamp sleeping and wake-up function
- Easy software upgrade by SD card, support USB mouse and keyboard
- Multiform result output including patient comprehensive report
- Compact design enables USER-DIY maintenance
- Multi-language software available on request.

Model	SACA-11904C
Principle	Absorbance
Photometric range	-0.500~3.000Abs
Resolution	0.001Abs(displayed), 0.0001Abs(calculated)
Light Source	Halogen lamp
Wavelengths	340, 405, 500, 546, 578, 620, 670nm, 1 more filter optional
Wavelength Accuracy	±1nm
Band Width	8nm
Aspirate Volume	100~300µL
Carryover	<0.1%
Memory	160 test protocols, minimum 500 test result
Interface	RS-232, USB, SD card interface
Flow Cell	25µL Metal-quartz flow cell
Cuvette Mode	12.5mm*12.5mm cuvette optional
Temperature Control	25°C, 30°C, 37°C, ±0.1°C
Display	7" color LCD
Input	USB mouse and external keyboard
Output	Build-in printer or external printer (optional)
Net Weight	8KG
Dimensions(mm)	L460×W330×H140
Power supply	AC 110-220V±10%, 50~60Hz

### SACA-11904CV, Semi-Auto Chemistry, High Quality Analyzer Special For Veterinary Use



**SACA-11904CV**

#### Features:

- Easy Windows operation system with mouse, large color LCD display.
- Support up to 12 kinds of animal: 8 kinds fixed, 4 kinds open.
- 34 most common tests fixed, 20 more can be defined by user.
- Reagent open system supports flow cell and cuvette mode, close system on request.

Model	SACA-11904CV
Principle	Absorbance
Photometric range	-0.500~3.000Abs
Resolution	0.001Abs(displayed), 0.0001Abs(calculated)
Light Source	Halogen lamp
Wavelengths	340, 405, 500, 546, 578, 620, 670nm, 1 more filter optional
Wavelength Accuracy	±1nm
Band Width	8nm
Aspirate Volume	100~300µL
Carryover	<0.1%
Memory	54 test parameters, up to 500 sample results
Interface	RS-232, USB, SD card interface
Flow Cell	25µL Metal-quartz flow cell
Cuvette Mode	12.5mm*12.5mm cuvette optional
Temperature Control	25°C, 30°C, 37°C, ±0.1°C and ambient temperature
Display	7" color LCD(640 x240 discernibility,256 colors)
Input	USB mouse and external keyboard
Output	Build-in printer or external printer (optional)
Net Weight	8KG
Dimensions(mm)	L460×W330×H140
Power supply	AC 110-220V±10%, 50~60Hz

- Analytical modes include kinetic, fixed time, bichromatic end point with or without reagent blank or sample blank, linear or non-linear calibration curves
- Real-time curve monitoring enhances the reliability of result
- Powerful QC function: Westguard Multi-rule, Levey Jennings plot, 2 controls per test
- Auto self-check when power on
- With lamp sleeping and wake-up function
- Easy software upgrade by SD card, support USB mouse and keyboard
- Compact design enables USER-DIY maintenance
- Multi-language software available on request

### SACA-19100, Semi-Auto Chemistry, Grating Inside, PC Controlled



**SACA-19100**

#### Features:

- PC controlled system, Windows XP, displays the reaction curve in real-time.
- Continuously adjustable grating, enhances the stability and reliability of result.

Model	SACA-19100
Principle	Absorbance
Absorbance Range	-0.500 ~ 3.500Abs
Resolution	0.001 Abs (displayed), 0.0001Abs (calculated)
Light Source	Halogen lamp
Wavelengths	Continuously adjusted grating, wavelength range is 330 - 800nm, 1nm by step adjustment
Wavelength Accuracy	± 1nm
Band Width	< 6nm
Flow cell	Metal - quartz flow cell
Temperature Control	25°C,30°C,37°C,±0.1°C and ambient temperature
Carryover	< 1%
Memory	300 test protocols, up to 10000 test results, support SD to expand memory
Printer	All printers compatible with Windows
Interface	RS-232, USB
Power Supply	AC 100V - 240V ± 10%,50-60Hz
Net Weight	9KG
Dimensions (mm)	L368xW192xH266

- Reagent-open system supports flow cell & cuvette mode, close system on request
- Analytical modes include kinetic, fixed time, bichromatic end point with or without reagent blank or sample blank, linear or non-linear calibration
- Powerful QC program: Westguard multi-rule, Levey-Jennings plots, 2 controls per test
- Large memory, up to 300 test protocols can be stored
- Multifunction result output including patient comprehensive report
- Compatible with all popular external printers connected to PC
- Easy communication with PC
- Powerful internet connection enables remote data sharing and OS update
- Compact design enables USER-DIY maintenance
- Multi-language software available on request.

### SACA-19200, Semi-Auto Chemistry, Low Level Photometer Provides Basic Solution



**SACA-19200**

Model	SACA-19200
Principle	Absorbance
Absorbance Range	-0.500 ~ 3.500Abs
Resolution	0.001 Abs (displayed), 0.0001Abs (calculated)
Light Source	Halogen lamp
Wavelengths	340, 405, 500, 546, 620nm, 3 more filters optional
Wavelength Accuracy	± 1nm
Band Width	< 8nm
Flow cell	Metal - quartz flow cell
Temperature Control	25°C,30°C,37°C,±0.1°C and ambient temperature
Carryover	< 1%
Display	LCD display
Interface	RS-232 serial cable
Output	Internal and external printer (optional)
Power Supply	AC 100V - 240V ± 10%, 50-60Hz
Net Weight	7KG
Dimensions (mm)	L370xW284xH318

#### Features:

- Easy keypad operation with LCD display.
- Wavelengths range is 330-800nm, 5 standard filters, 3 more filters optional.
- Reagent open system supports flow cell and cuvette mode, close system on request
- Analytical modes include kinetic, fixed time, bichromatic end point with or without reagent blank or sample blank, linear or non-linear calibration curves
- Up to 60 programs and 2200 test results can be stored
- Excellent QC function, 2 controls per test
- Internal thermal-sensitive printer
- Compact design enables USER-DIY maintenance
- Multi-language software available on request.

### SACA-19600, Semi-Auto Chemistry, Grating Inside, Touch Screen And USB



**SACA-19600**

Model	SACA-19600
Principle	Absorbance
Absorbance Range	-0.500 ~ 3.500Abs
Resolution	0.001 Abs (displayed), 0.0001Abs (calculated)
Light Source	Halogen lamp
Wavelengths	Continuously adjusted grating, wavelength range is 330 - 800nm, 1nm by step adjustment
Wavelength Accuracy	± 1nm
Band Width	< 6nm
Flow cell	Metal - quartz flow cell
Temperature Control	25°C,30°C,37°C,±0.1°C and ambient temperature
Carryover	< 1%
Memory	200 test protocols, up to 10000 test results, support SD to expand memory
Display	6.4" color/mono LCD
Interface	RS-232,support VGA,2 USB, SD, Ethernet
Output	Built-in printer, or external printer (optional)
Input	Touch screen, USB mouse and keyboard optional
Power Supply	AC 100V - 240V ± 10%,50-60Hz
Net Weight	11KG
Dimensions (mm)	L370xW284xH318

#### Features:

- Easy Windows operation system with large touch-screen.
- Displays the reaction curve in real-time.
- Continuously adjustable grating, enhances the stability and reliability of result
- Reagent-open system supports flow cell and cuvette mode, close system on request
- Analytical modes include kinetic, fixed time, bichromatic end point with or without reagent blank or sample blank, linear or non-linear calibration
- Powerful QC program: Westguard multi-rule, Levey-Jennings plots, 2 controls per test
- Large memory, up to 200 test protocols and 10000 results can be stored, compatible with SD card
- Multiform result output including patient comprehensive report
- Multi-interface support RS-232,VGA,USB,SD and Ethernet
- Easy communication with PC
- Powerful internet connection enables remote data sharing and OS update
- Compact design enables USER-DIY maintenance
- Multi-language software available on request.

### SACA-19900, Semi-Auto Chemistry, Grating Inside, Easy Keypad Operation With LCD Display



**SACA-19900**

#### Features:

- Easy keypad operation with LCD display
- Continuously adjustable grating, enhances the stability and reliability of result.
- Reagent open system supports flow cell and cuvette mode, close system on request.
- Analytical modes include kinetic, fixed time, bichromatic end point with or without reagent blank or sample blank, linear or non-linear calibration curves
- Powerful QC program: Westgard multi-rule, Levey-Jennings plots, 2 controls per test
- Large memory, up to 204 protocols and 5400 results can be stored
- Additional recloser design with lamp saving
- Powerful internet connection enables remote data sharing & OS update
- Compact design enables USER-DIY maintenance
- Multi-language software available on request.

Model	SACA-19900
Principle	Absorbance
Absorbance Range	-0.500 ~ 3.500Abs
Resolution	0.001 Abs (displayed), 0.0001Abs (calculated)
Light Source	Halogen lamp
Wavelengths	Continuously adjusted grating, wavelength range is 330 - 800nm, 1nm by step adjustment
Wavelength Accuracy	± 1nm
Band Width	< 6nm
Flow cell	Metal - quartz flow cell
Temperature Control	25°C, 30°C, 37°C, ±0.1°C and ambient temperature
Aspirate Volume	0~3000µl
Carryover	< 1%
Memory	Up to 204 protocols and 5400 results can be stored
Display	LCD display
Interface	RS-232
Output	Built-in printer, or external printer (optional)
Power Supply	AC 110V - 220V ± 10%, 50-60Hz
Net Weight	8KG
Dimensions (mm)	L360xW318xH185

### FACA-1240, Fully Automated Chemistry, Discrete, Constant Throughput 120 Test/Hours, Random Access



**FACA-1240**

#### Features:

- Automatic, Random Access.
- Up to 240 tests per hour.
- Reagent pre-heating, liquid level detection.
- Automatic 10 steps washing system (optional), Low carry-over.
- Labor saving. Simple programming and real walk-away operation.
- 24 hours non-stop Reagent cooling compartment.
- Reagent open system, close system on request.
- Micro-volume for sample and reagent.
- User-friendly software based on Windows XP.

#### System Function

Automatic, Random Access, STAT sampling priority, Barcode-Reading support (optional)

Model	FACA-1240
Throughput	200 tests/hour, Constant throughput around 120 tests/hour
Contents of the testing	Clinical chemistry, Immunoturbidimetric
Analytical modes	End-point, Two-point, Kinetic
Programming	Open system with user defined programs and calculation

#### Sample/Reagent Handling

Sample/Reagent tray	40 positions for samples and 40 positions for reagents in refrigerated compartment
Refrigerated temp.	4 ~ 15°C
Reagent volume	R1: 180 ~ 450 µL, 1 µL adjustable R2: 30 ~ 250 µL, 1 µL adjustable
Sample volume	3 ~ 45 µL, 0.5 µL adjustable
Sample & Reagent probe	Collision protection, Liquid level detection & Inventory checking
Probe cleaning	Automatic washing both inside and outside, carry over <0.1%

Pre-heating for reagent

#### Reaction System

Reaction positions	81 cuvettes, 9 cuvettes/strip
Cuvette	Optical length 5mm
Reaction volume	180 ~ 500ul
Reaction temp.	37°C, fluctuation ±0.1°C

Independent mixing probe, Automatic washing system

#### Measuring and Optic System

Lamp	Halogen lamp
Absorbion range	0 ~ 3.500Abs±1%
Wavelengths	8 wavelengths, including 340nm, 405nm, 450nm, 510nm, 546nm, 578nm, 630nm, 670nm
Resolution	0.0001ABS

#### Working Condition

Power supply	AC 100/240V 50/60 Hz
Temperature	10 ~ 35°C
Humidity	35 ~ 80%
Water consumption	Max 2.5 L/hour
Dimention(cm)	L800xW600xH650
Gross weight	80KG

## FACA-1200CB, Fully Automated Chemistry, Flow Cell, Stable Throughput, Bench Top



FACA-1200CB (Bench Top)

## Features:

- Simplicity of operation and flexibility with user friendly software under Windows OS.
- Reagent open system, close system on request.
- Stable throughput with reliable results, cost effective.
- STAT sample priority enabled.
- Liquid level detection for sample and reagent probes.
- Dual reagent assay supported with mixer.
- Air/Water rinse flow cell, auto/manual rinse, low carryover.
- Analytical modes including Multi-stand, Fixed time, End-point and Kinetic.
- Built-in QC Management and Multi-form report output.
- Large memory, up to 1 million patients' data can be stored and unlimited programs defined.
- Compact design gives ease in maintenance.
- Slave analyzer available to get higher throughput.
- Multi-language software available on request.

Model	FACA-1200CB
General Descriptions	Automatic, STAT Available
Principle	Absorbance photometry
Programming	User defined
Throughput	Up to 80 tests/hour
Method	End-point, Kinetic, Fixed time, Single/Dual Reagent, Monochromatic, Bichromatic, Linear / non-linear multipoint calibration
Quality control	QC calculation monthly
Calibration mode	One point/ multi-point, log, exponential, polynomial, parabola
Memory	80G
Report	Multi-forms in result output including patient comprehensive report automatically

## Optical Assembly

Light Source	Halogen lamp
Wavelength	8 filters including 340nm,405nm,492nm,510nm,535nm,546nm,578nm,620nm
Measuring Range	0-3.000Abs $\pm$ 1%
Sensitivity	0.0005Abs

## Operation Overview

Operation system	Windows
Display	15" color LCD or CRT
Interface	RS-232

## Sample &amp; Reagent Handling

Sample position	60 positions
Sample volume	3-500 $\mu$ l (>5 $\mu$ l is recommended), 1 $\mu$ l increment
Sample probe	Liquid level detection
Reagent position	36 positions, refrigerated
Reagent volume	200-500 $\mu$ l, 1 $\mu$ l increment
Reagent probe	liquid level detection
Reaction position	120 positions
Reaction volume	300-500 $\mu$ l
Operation temperature	25°C,30°C,37°C, Room temperature
Temperature regulation	$\pm$ 0.1°C
Rinse	Auto/manual rinse, air/water rinse

Power Supply	AC 200V - 240V $\pm$ 10%,50-60Hz
Working Temperature	$\pm$ 0.1°C
Working Humidity	40-80%
Analytical unit Dimension	1177mm x 1025mm x 638mm
Control unit Dimension	1125mm x 731mm x 710mm
Net Weight	90KG



**FACA-1200CF  
(Floor Standing)**

### FACA-1200CF, Fully Automated Chemistry

#### Features:

- Simplicity of operation and flexibility with user friendly software under Windows OS.
- Reagent open system, close system on request.
- Stable throughput with reliable results, cost effective.
- STAT sample priority enabled.
- Liquid level detection for sample and reagent probes.
- Dual reagent assay supported with mixer.
- Air/Water rinse flow cell, auto/manual rinse, low carryover.
- Analytical modes including Multi-stand, Fixed time, End-point and Kinetic.
- Built-in QC Management and Multi-form report output.
- Large memory, up to 1 million patients' data can be stored and unlimited programs defined.
- Compact design gives ease in maintenance.
- Slave analyzer available to get higher throughput.
- Multi-language software available on request.

Model	FACA-1200CF
General Descriptions	Automatic, STAT Available
Principle	Absorbance photometry
Programming	User defined
Throughput	Up to 80 tests/hour
Method	End-point, Kinetic, Fixed time, Single/Dual Reagent, Monochromatic, Bichromatic, Linear / non-linear multipoint calibration
Quality control	QC calculation monthly
Calibration mode	One point/ multi-point, log, exponential, polynomial, parabola
Memory	80G
Report	Multi-forms in result output including patient comprehensive report automatically

#### Optical Assembly

Light Source	Halogen lamp
Wavelength	8 filters including 340nm,405nm,492nm,510nm,535nm,546nm,578nm,620nm
Measuring Range	0-3.000Abs $\pm$ 1%
Sensitivity	0.0005Abs

#### Operation Overview

Operation system	Windows
Display	15" color LCD or CRT
Interface	RS-232

#### Sample & Reagent Handling

Sample position	60 positions
Sample volume	3-500 $\mu$ l (>5 $\mu$ l is recommended), 1 $\mu$ l increment
Sample probe	Liquid level detection
Reagent position	36 positions, refrigerated
Reagent volume	200-500 $\mu$ l, 1 $\mu$ l increment
Reagent probe	liquid level detection
Reaction position	120 positions
Reaction volume	300-500 $\mu$ l
Operation temperature	25°C,30°C,37°C, Room temperature
Temperature regulation	$\pm$ 0.1°C
Rinse	Auto/manual rinse, air/water rinse

Power Supply	AC 200V - 240V $\pm$ 10%,50-60Hz
Temperature Regulation	$\pm$ 0.1°C
Humidity	40-80%
Dimensions(Floor standing) (mm)	L872×W720×H1069
Gross Weight	180KG
Net Weight	90KG