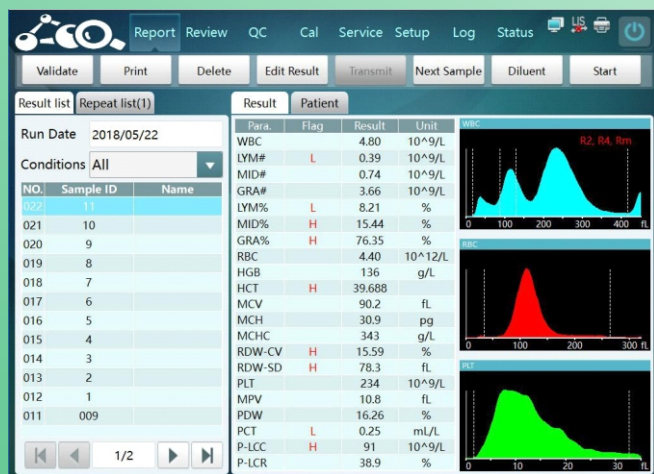


SC-60+

Hematology Analyzer





10 inches large display with capacitive touch screen.

Clear display of all parameters results with three histograms in colors.

Access to detailed results of both parameter and histograms.

Wired or wireless keyboard and mouse supported.

Daily results also on display.

The screenshot shows the 'Next Sample' form with sections for Blood Mode (Venous Blood, Capillary, Prediluted), Sample (Sample Prefix, Sample ID), Patient Info. (Name, Gender, Birthday, Age, Dept., Bed No., Ref. Group, Sam. Type, Submitter, Medical NO., Remarks), and OK/Cancel buttons.

More option in patient data entry like, birthday, department, Bed No., Referred by, sample type, submitter, Medical no., remarks etc.

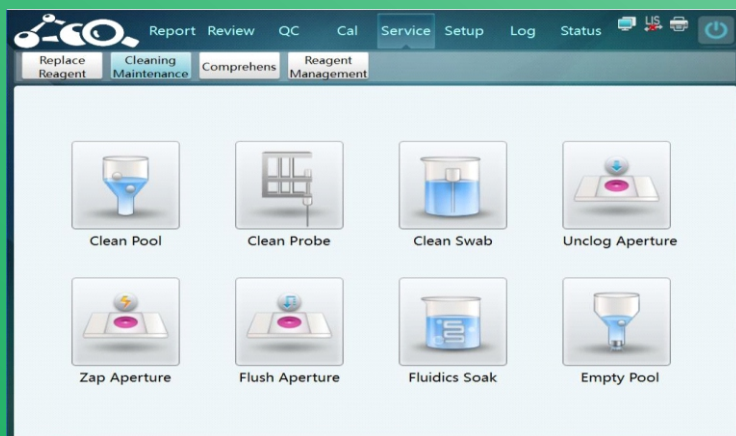
Different Age group - years, months, days and hours.

Three sample mode -

Venous - 10µl

Capillary - 10µl

Prediluted - 20µl



Convenient for maintenance , safe and environment friendly
3 doors design , convenient for maintenance.

Complete self-test function, automatic pipeline washing during start-up and shut-down to ensure good status for the machine.

Multiple ways to prevent blocking to ensure the smoothing of the pipelines.

Reagent	Validity	Decap date	Decap validity days	Decap expiry date	Volume	Remarks
Diluent	2019/05/15	2018/05/22	60	2018/07/21	18839 mL	---
Lyse	2019/05/15	2018/05/22	60	2018/07/21	464 mL	---

Edit

Automatic Reagents Monitoring RFID cards for both diluent and lyse solution.

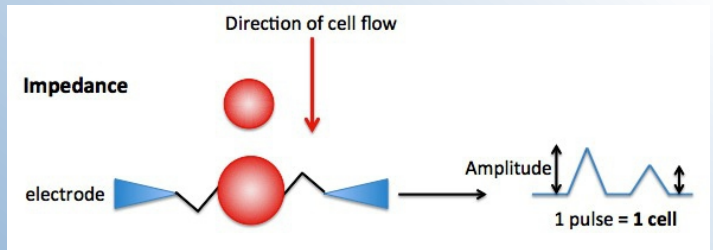
No need to enter manually the LOT, EXP. and Volume of the reagents.

Cynide Free Lyse reagent.

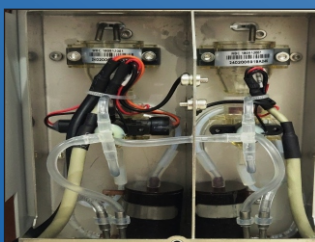
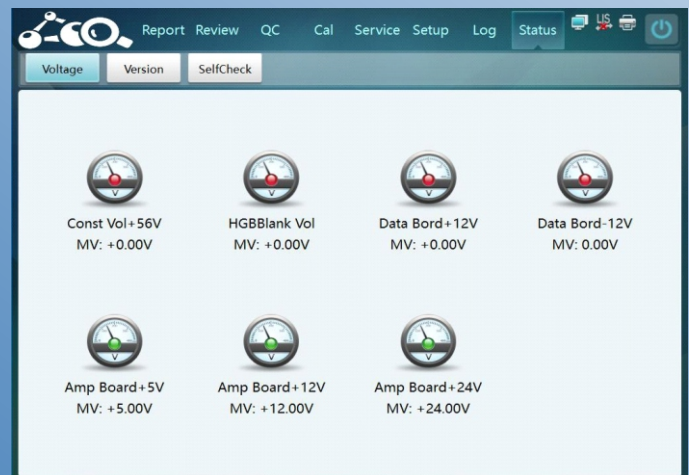
Accurate Results, stable and reliable
SC-60+ works on Electric Impedance
method which is best principle to
measure blood cell count

Cell particles guide, accurate signals
reflect the size of the cells.
PLT simulation curve, reduce the
influence of RBC with PLT counting.

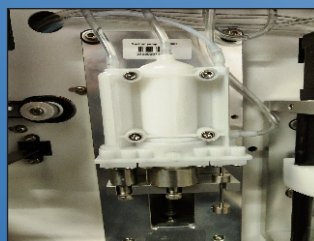
External wide power supply and
anti-interference components make
the machine more stable and reliable



Very sensitive hardware check
program, like self check, all board
(Altera Corporation, USA) voltages,
valves check etc., help engineer to
rectify the problem in minimum time.



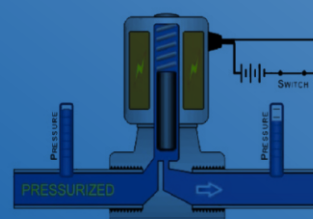
High performance Dual
Chamber with steel body
cover to prevent dust



High performance Quadra
PTFE liquid syringe



High performance Quadra
PTFE waste/pressure
syringe



Electromagnetic Solenoid Valves from
world famous brand - SMC , Japan
for better pressure control & flow

Technical Parameters

Serachem SC-60⁺ Hematology Analyzer



SPECIFICATIONS

Throughput*:
OT: 60 samples/hour

* Throughput performance is reachable in optimized conditions with an admitted margin for variation of 10%.

Sound Pressure Level:
< 60 dBa

Operating Temperature & Humidity:
16 to 30°C (61 to 86°F) room temperature.
Maximum relative humidity 85% for temperature up to 30°C (86°F)

Specimen Volume:
CBC + 3 part DIFF 10 µL and Pre dilution 20 µL

Power Requirements:
Power supply Adaptor Power Supply

Reagents:
- Serachem Lyse
- Serachem Diluent
- Serachem Cell Clean

METHODS & TECHNOLOGIES

RBC/PLT Detection Principles

Method	Impedance
Ruby diameter	70 µm
Depression of count	200 mb

HGB Measurement

Method	Photometry
Wavelength	550 nm

HCT Measurement

Method	Numeric integration
--------	---------------------

WBC Measurement

Method	Impedance
Ruby diameter	100 µm
Depression of count	200 mb

3 Part Differentiation

Method	Impedance + specific lyse action
--------	----------------------------------

MCV, MCH, MCHC, RDW, PCT*, PDW*
Calculation

SOFTWARE

10.0" Color LED screen
Operating system LINUX
Inverter card for LED screen
Touch screen technology
With external mouse & keyboard
58mm thermal printer with rapid paper loading
Storage : 50000 samples with histograms & patient information

PARAMETERS & PERFORMANCE DATA

21 Parameters:

WBC	RBC	MCH	PLT
LYM# & LYM%	HGB	MCHC	MPV
MID# & MID%	HCT	RDW -CV	RDW-SD
GRA# & GRA%	MCV	PDW*	P-LCR
			P-LCC

Linearity:

Parameter	Linearity Limit	Visible Range
WBC	0 - 100 x 10 ⁹ /mm ³	100 - 150 x 10 ⁹ /mm ³
RBC	0 - 8 x 10 ⁶ /mm ³	8 - 18 x 10 ⁶ /mm ³
HGB	0 - 26 g/dL	26 - 30 g/dL
HCT	0 - 80 %	80 - 90%
PLT (Whole blood)	0 - 2200 x 10 ⁹ /mm ³	2200 - 6000 x 10 ⁹ /mm ³
PLT (PLT concentrate)	0 - 4000 x 10 ⁹ /mm ³	4000 - 6000 x 10 ⁹ /mm ³

Precision:

Parameters	%CV	Range
WBC	<2.0	4-10.0 x 10 ³ /µL
RBC	<1.5	4-7 x 10 ⁶ /µL
HGB	<1.5	12-18 g/dl
MCV	<1.0	36-54%
PLT	<4.0	200-500 x 10 ³ /µL

Carry-over:

WBC	<2%
RBC	<2%
HGB	<2%
HCT	<2%
PLT	<2%

* RUO parameters (Research Use Only)



EC REP

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