

SC-60 ultra

AUTOMATED HEMATOLOGY ANALYZER



SC : SERIES OF HEMATOLOGY ANALYZER

Fully automated 22 parameters haematology analyzer



Technical specification

Throughput	60 samples per hour
Sample volume	9 µl
Technology	• Impedance (WBC, RBC, PLT) • Spectrophotometry (HGB)
22 parameters	WBC, LYM% and #, MID% and #, GRA% and #, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PCT, PDW-SD, PDW-CV, P-LCC, P-LCR
Curves	RBC Curve, WBC curve, PLT curve
Dimensions	280 x 400 x 460 mm (W x D x H)
Weight	18 kg
Power	• 90 to 250 V • 50 to 60 Hz • Less than 50 VA
Interface	• LAN port support HL 7 protocol • 4 Pcs USB ports, 1 PC Ethernet port support • LIS communication, Support Printer, Keyboard, Mouse, Barcode Scanner
Output User's interface	• 10.4 inch LCD colour touchscreen • Built-in numerical keyboard • Built-in thermal printer

Software specification

Multilanguage	Bulgarian, Brazilian Portuguese, Chinese, Deutsch, English, French, Italian, Magyar, Polish, Portuguese, Romanian, Russian, Serbian, Spanish
Calibration	Automatic or manual
Quality control	• 6 batches: 100 run/batch • Table and Levey Jennings graphs
Archives	• Mass storage (USB): up to 6,00 000 patients
Traceability	• Patient identification: name, patient ID, sample ID • Daily log • Reagents monitoring: lot number, expiry date, volume • Service log
Sample mode	• Whole Blood, Capillary whole Blood Mode, pre-diluted mode • Only 9 µl
Reagents	• SC Diluent 20L • SC Lyse 500 mL • SC Maintenance Solution 50 mL

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Let our experience....
be your guide....



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Manufacturing Licence No.: MFG/IVD/2023/000121

Next Sample Edit(* Mandatory)

Sample ID * 4 Patient ID

Name Gender

Date of Birth DD-MM-YYYY Age Years

Patient Type Ref Group General

Department Bed No.

Draw Time DD-MM-YYYY HH-MM Delivery Time DD-MM-YYYY HH-MM

Clinician

Comments

Get LIS ✓ OK ✗ Cancel

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

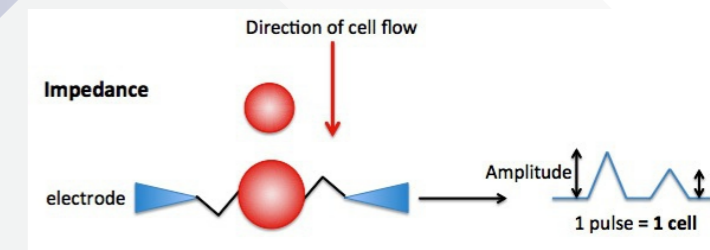
Different Age group - years, months, days and hours.

Three sample mode -
Venous - 9µl
Capillary - 10µl
Prediluted - 20µl

Accurate Results, stable and reliable SC-60 ultra 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



10.4 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.

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

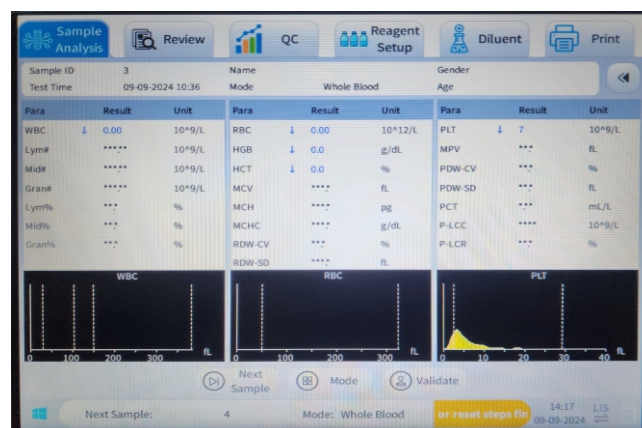
High performance Quadra PTFE liquid syringe

Works on Vacuum Technology
Hint for Pathological Flags

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.



Sample Analysis Review QC Reagent Setup Diluent Print

Maintenance Clean Fluidics

Germ hole Unclog Aperture Clear WBC aperture Clear RBC aperture

Last maintenance: Succeeded 09-09-2024 10:17

Last maintenance: Succeeded 09-09-2024 10:18

Probe Cleanser Soaking Overall soak

Last maintenance: Succeeded 09-09-2024 10:28

Drain Drain WBC Bath Drain RBC Bath

startup process 14:25 LIS 09-09-2024

Excellent Performance

High Quality Componentes

Innovative System

Unique Structures

Exquisite Control

Economic CPT

Solenoid Valve from - SMC, JAPAN

Sample Needle made by internationally renowned needle Company Ito Corporation, JAPAN

The best tubing in the Industry Saint-Gobain Group, FRANCE

Tube joints from the most complete range of medical connectors in the world - Value plastic series from Nordson Medical, USA

Use a long lifespan syringe assembly - ceramic + polymer material combination
Very high quality and very stable vaccum pump technology Nash Pumps , Germany

Adopt the most stable, flexible and fast ARM + FPGA chip combination system Texas Instruments, USA

Performance

Parameter	Linearity Range	Precision (CV%)	Carryover
WBC (10 ⁹ /L)	0 - 3 0 0	≤3.5% (4.0-6.9)	≤ 0 . 5 %
		≤2.0% (7.0-15.0)	
RBC (10 ¹² /L)	0 - 8 . 0 0	≤1.5% (3.50-6.50)	≤ 0 . 5 %
HGB (g/L)	0 - 2 8 . 0	≤1.5% (100.0-180.0)	≤ 0 . 5 %
M C V (fL)		≤0.5% (70.0-110.0)	≤ 0 . 5 %
PLT (10 ⁹ /L)	0 - 4 0 0 0	≤5.0% (100.0-149.0)	≤ 1 . 0 %
		≤4.0% (150.0-500.0)	