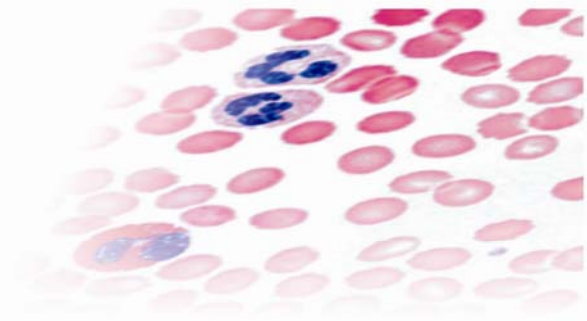


Orion 60

Hematology Analyzer



... The Cutting Edge Technology



- 3 Part Differential with 20 parameters with colored histograms
- Pre-Diluted Mode for analysis of Pediatric samples
- Dual counting chambers for better accuracy and precision
- Double convolution technology for better accuracy of PLT measurement
- Float discriminator for manual calibration of the analyzer
- Auto probe washing (internal and external) for repeated performance
- Upto 12000 sample results in memory along with histograms
- Provisions to enter demographical details like Patient Name, Age, Gender, Blood Group, Case History, Bed No., Patient ID, Operator ID, Department

Orion 60
Hematology Analyzer

Ocean
medical technologies

...because life is precious

Quality Control

- Extensive Quality Control Menu with L-J graph.
- Error alarms for Histogram abnormalities, bubble and clog in transducers, out of linearity, low and high results.
- Interactive Help menu for detailed guidance to the user.

Technical Specifications

Principle:

Electrical Impedance for counting and SFT method for Hemoglobin.

Parameters:

3 Part Differential with 20 parameters (WBC, LYM, MID, GRAN, LYM%, MID%, GRAN%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-SD, RDW-CV, PLT, MPV, PDW, PCT, P-LCR).

Display:

10.4" color LCD display with 640x480 dots resolution.

Printout:

In-built thermal printer. Option to attach external printer. Eight reporting formats.

Sample Vol.:

Venous Mode - 9.6 μ l Capillary Mode - 9.6 μ l Pre-diluted Mode - 20 μ l

Measurement:

Double transducers for measuring WBC, RBC and Platelets.

Aperture Diameter:

WBC - 100 μ m, RBC/PLT - 80 μ m

Throughput:

60 test/hr. Sleep mode for idle time.

Result Memory:

Up to 12000 sample results along with histograms can be stored.

Quality Control:

Extensive Q.C menu with facility to have L-J graph, Mean, S.D and CV.

Calibration:

Stable factory calibration. Manual calibration feature provided for user.

Performance:

Parameter	Repeatability (CV%)	Linearity Range
WBC	$\leq 2.5\%$ (7.0 - 15.0)	0.01 - 99.9 $\times 10^3/\mu$ L
RBC	$\leq 2.0\%$ (3.5 - 6.0)	0.01 - 9.99 $\times 10^6/\mu$ L
PLT	$\leq 5.0\%$ (200 - 500)	1 - 999 $\times 10^3/\mu$ L
HGB	$\leq 1.5\%$ (110 - 180)	1 - 30 g/dL
MCV	$\leq 0.4\%$ (80 - 110)	40 - 150 fL

Cross Contamination:

WBC, RBC & HGB : <0.5%; PLT <1%

Interface:

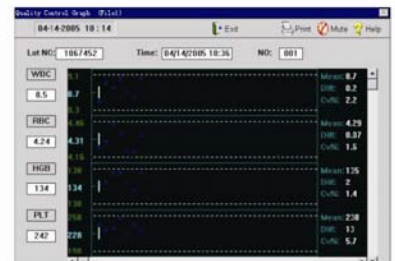
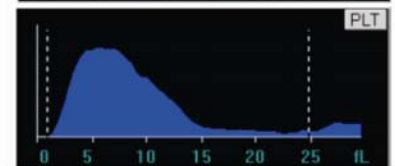
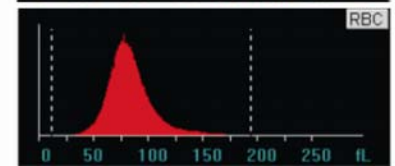
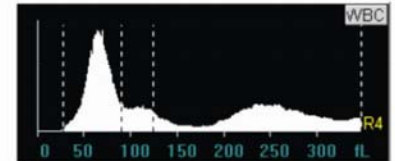
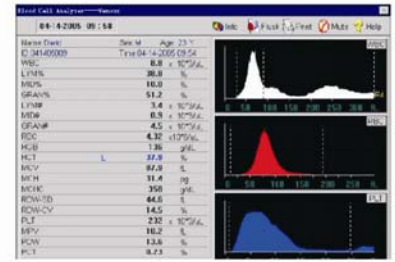
1 Parallel Port, 2 USB Ports, 2 PS2, 2 RS-232 and 1 VGA interface.

Working Environment:

Temperature : 15°C - 35°C Humidity: 30% - 85%

Power Requirements:

AC 100-240V, 50/60 Hz.



Group	Para	Lower	Upper	Para	Lower	Upper
General	WBC	4.0	11.0	MCV	80.0	99.0
	LYM%	20.0	40.0	MCH	26.0	32.0
Man	MID%	1.0	15.0	MCHC	32.0	36.0
Woman	GRAN%	50.0	70.0	RDW-SD	37.0	54.0
Child	LYM%	8.0	41.0	RDW-CV	11.5	14.5
Baby	MID%	8.1	1.8	PLT	100	500
Deflec 1	GRAN%	2.0	7.0	MPV	7.4	10.4
Deflec 2	RBC	3.50	5.50	PDW	18.0	17.0
Deflec 3	HGB	110	160	PCT	0.10	0.20
Default	HCT	36.0	46.0	M-LCR	13.0	43.0



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Due to continuous development, specifications and shape are likely to change without prior notice.

