

ABX Micros 60 / *im*²

Hematology Analyzer and System Specifications

-PHYSICAL SPECIFICATION

- Dimensions

Analyzer	Height 16.5"	Width 14.2"	depth 12.6"	Weight 30.9 lb
Management System	2.75	18.25"	8.5"	43.0 lb
- Printer: Digital Laser
- Throughput:
 - Up to 55 samples/hour in Closed Tube
 - Up to 60 samples/hour in Open Tube (sold separately)
- Sound Pressure Level: <60 dBA
- Operating Temperature & Humidity:
 - 16 - 34°C (61 - 93°F) room temperature
 - Maximum relative humidity 80% for temperature up to 31°C (88°F) decreasing linearity humidity at 40°C (104°F)
- Specimen Volume: 10 µL
- Power Requirements:

Power supply	from 90 Vac to 240 Vac 50 Hz to 60 Hz
Power consumption	Maximum 230 VA
- Reagents:
 - ABX Minidil LMG
 - ABX Alphalyse-360
 - ABX Miniclean
 - ABX Minoclar

METHODS & TECHNOLOGIES

- RBC/PLT detection principles

Method	Impedance
Ruby diameter	50 µm
Depression of count	200 mb
Duration of count	2 (or 3) x 6 seconds
Dilution ratio	1/15 000
- HGB measurement

Method	Photometry
Wavelength	555 nm
Dilution ratio	1/250
- HCT measurement

Method	Numeric integration
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- WBC measurement

Method	Impedance
Ruby diameter	80 µm
Depression of count	200 mb
Duration of count	2 (or 3) x 6 seconds
Dilution ratio	1/250
- 3 part Differentiation

Method	Impedance + specific lyse action
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- MCV, MCH, MCHC, RDW, PCT*, PDW* Calculation

CERTIFICATION	UL	CSA
NF EN 60601-1.	UL 3101-1	C22.2 n°1010-1
NF EN 61326. B		
NF EN 61000-3-2		
NF EN 61000-3-3		

Your choice from (4) scrub colors!



SYSTEM SPECIFICATIONS

- DELL OptiPlex Small Form computer
 - 53 GHz, 3M
 - 1 GB RAM
 - 80 GB Hard Drive
 - 8X CDRS-DVD
 - 3.5", 1.44MB Floppy disk Drive
- 17" flat-screen monitor
- Microsoft WINDOWS XP PRO
- PC AnyWhere
- Adobe PDF Creator

PARAMETERS & PERFORMANCE DATA

- 16 Parameters

WBC	RBC	PLT
LYM# & LYM%	HGB	MPV
MON# & MON%	HCT	
GRA # & GRA%	MCV	
	MCH	
	MCHC	
	RDW	
- Linearity:

Parameter	Linearity Limit	Visible Range
WBC	0 - 100 x10 ³ /mm ³	100 - 150 x10 ³ /mm ³
RBC	0 - 8 x10 ⁶ /mm ³	8 - 18 x10 ⁶ /mm ³
HGB	0 - 26 g/dL	26 - 30 g/dL
HCT	0 - 80 %	80 - 90%
PLT (Whole blood)	0 - 2200 x10 ³ /mm ³	2200 - 6000 x10 ³ /mm ³
PLT (PLT concentrate)	0 - 4000 x10 ³ /mm ³	4000 - 6000 x10 ³ /mm ³
- Precision:

Parameter	%CV	at
WBC	<2.5	10 x10 ³ /mm ³
RBC	<2	5 x10 ⁶ /mm ³
HGB	<1.5	15 g/dl
HCT	<2.0	45%
PLT	<5.0	300 x10 ³ /mm ³
LYM%	<5.0	40%
MON%	<10	10%
GRA%	<3	50%
- Carry-over:

WBC	<0.5%	63.0 x 10 ³ /mm ³
RBC	<0.5%	7.58 x 10 ³ /mm ³
HGB	<0.5%	23.4 g/dL
PLT	<0.5%	988 x 10 ³ /mm ³

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Hematology Analyzer Interconnected *M*iddleware

- 16 Parameters
- Patient File Management
- EMR and LIS ready!



FCD-0173 Rev.4

HORIBA

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ABX Micros 60

Complete hematology profile 16 parameters

- ▶ 55 samples per hour
- ▶ 10uL sampling on whole blood
- ▶ Fully-automatic analysis cycle
- ▶ Simple menu-driven system with user prompts
- ▶ Only 3 reagents (diluent, lysing agent, cleaner)
- ▶ Automatic cleaning of the sampling probe

Concept and technology

- ▶ **CBC & 3-DIFF:**
Impedance Technology & specific Lyse action
- ▶ **ABX Liquid valves:**
Precise volumes and reliability,
without pinch valves
- ▶ **No compressor:**
Stepper motor, dependable and low noise
- ▶ **Easy to Operate:**
Single button startup/shutdown



Single Button
Operation



Bar-code reader



Closed tube sampling
(4-position holder
supports 125 or
500uL, 3 or 5 mL)



- ▶ Color-coded at-a-glance information
- ▶ "Dashboard" design facilitates pushing out information
- ▶ Visual QC display window tracks performance

Quality Control Features

- ▶ Load assay values from disc
- ▶ Westguard Rules:
 - Real Time (1-2S & 1-3S)
 - On Demand (2-2S, R-4S, 4-1S, 10x)
- ▶ Selectable formats for viewing QC performance

Review and Edit

- ▶ Comprehensive sample tracking and routing
- ▶ Abnormal results are highlighted
- ▶ Sample rerun capability with display of multiple runs on single screen
- ▶ Customizable offline testing fields

Flexible Patient Reporting

- ▶ Customizable cumulative or individual reports available
- ▶ Output to printer and /or archived .pdf-file

EMR and LIS Ready

- ▶ Results output in HL7 or ASTM

Delta Checking

- ▶ Color flags, execution of rules based upon failure

Increased Efficiency

- ▶ Virtually limitless storage of patient data

Remote QC capability

- ▶ Simple remote workstation configuration
- ▶ Auto-connect for QC viewing and printing