



**HORIBA**  
Medical

# ABX Micros 60

Technical specifications

**PHYSICAL SPECIFICATION**

- Dimensions & Weight:
 

Height	Width	Length	Weight	
Analyzer	42 cm	36 cm	32cm	14 Kg
	16.5 in	14.2 in	12.6 in	30.9 lb
- Printer: Laser
- Throughput:
  - Up to 60 samples/hour in Open Tube
  - Up to 55 samples/hour in Close Tube
- 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: CBC Mode - 10 µl / CBC 3 part DIFF - 10µl
- Power Requirements:
  - Power supply from 90 Vac to 240 Vac
  - 50 Hz to 60 Hz
  - Power consumption Maximum 230 VA

**METHODS & TECHNOLOGIES**

- RBC/PLT detection principles
 

Method	Impedance	0.5 -
Ruby diameter	50 µm	0.2 -
Depression of count	200 mb	2.0 -
Duration of count	2 (or 3) x 6 seconds	1.8 -
Dilution ratio	1/15 000	10 -
		25 -
- 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 Calculation

**NORMES**

- CE 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

**SOFTWARE SPECIFICATIONS**

- Data Processing :
  - LCD screen with 2 lines of 40 alphanumerical characters
  - Capacity: Last result + graphics or 78 results with optional memory smart card
  - Mother board: 68HC11 microprocessor
  - Transmit results & QC to LIS
  - Unidirectional connection RS 232
- Quality control management :
  - Optional Lite DM data management software
  - Smart card based QC - standalone (31 controls x 3 levels)

**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	0.5 - 100 x10 <sup>9</sup> /mm <sup>3</sup>	100 - 150 x10 <sup>9</sup> /mm <sup>3</sup>
RBC	0.2 - 8 x10 <sup>9</sup> /mm <sup>3</sup>	8 - 18 x10 <sup>9</sup> /mm <sup>3</sup>
HGB	2.0 - 26 g/d	26 - 30 g/dL
HCT	1.8 - 80%	80 - 90%
PLT (Whole blood)	10 - 2200 x10 <sup>9</sup> /mm <sup>3</sup>	2200 - 6000 x10 <sup>9</sup> /mm <sup>3</sup>
PLT (PLT concentrate)	25 - 4000 x10 <sup>9</sup> /mm <sup>3</sup>	4000 - 6000 x10 <sup>9</sup> /mm <sup>3</sup>
- Precision:
 

Parameter	%CV	at
WBC	≤2.5	10 x10 <sup>9</sup> /mm <sup>3</sup>
RBC	≤2	5 x10 <sup>9</sup> /mm <sup>3</sup>
HGB	≤1.6	15 g/dl
HCT	≤2.0	45%
PLT	≤5.0	300 x10 <sup>9</sup> /mm <sup>3</sup>
LYM%	≤5.0	40%
MON%	≤10	10%
GRA%	≤3	50%
- Carry-over:
 

WBC	<0.5%
RBC	<0.5%
HGB	<0.5%
HCT	<0.5%
PLT	<2%

# ABX Micros 60

Process efficiency in Hematology



AD-041113-1 Rev.1

**HORIBA**  
Medical  
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# ABX Micros 60

Complete hematology profile  
16 parameters



- 60 samples per hour
- Open or Closed tube
- Compact and lightweight
- Micro-sampling:  
10µl of whole blood per cycle

## Solutions adapted to your needs

### > Concept and Technology

- **CBC**  
Impedance, selective lysing (LMG)
- **Liquid valves**  
Precise volumes and reliability
- **No compressor**  
Stepper motor and low noise

### > Automatic Maintenance

Automatic cleaning of the sampling probe

### > 16 parameters

RBC, WBC, HGB, HCT, MCV, MCH, MCHC, PLT, MPV, RDW, LYM (% and #), MON (% and #), GRAN (% and #), WBC, RBC and PLT histograms

### > Flexible with a list of options

- **Lite DM software**  
comprehensive QC management  
customizable test panels  
cumulative reporting  
EMR / LIS connectivity
- **Quality control management**  
Smart card based QC-standalone  
(31 controls x 3 levels)
- **Sampling mode**  
Open tube, or  
Closed Tube (4 position tube holder)
- **Identification mode**  
Alphanumerical (with internal keyboard)  
Barcode reader (for patient's ID number)
- **Integrated Reagents**  
Bottles
- **Memory**  
Last result, or  
Smart card reader - standalone  
(storage of 78 results with graphics on rewritable memory smart card)

● Simple and easy menu

● Fully-automatic analysis cycle

● Only 3 reagents (diluent, lyse, cleaner)



Patient Data Management



Sampling  
on Open tube



Sampling  
on Closed tube



Barcode reader



Keyboard



ABX Micros 60  
Open Tube