ABX **Micros 60**
Technical specifications

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M e d i c a l

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
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
Wavelenght	555 nm
Dilution ratio	1/250

• HCT measurement

Method	Numeric integration

• 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

• 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 x10³/mm³	100 - 150 x10³/mm³
RBC	0.2 - 8 x10⁶/mm³	8 - 18 x10⁶/mm³
HGB	2.0 - 26 g/d	26 - 30 g/dL
HCT	1.8 - 80%	80 - 90%
PLT (Whole blood)	10 - 2200 x10³/mm³	2200 - 6000 x10³/mm³
PLT (PLT concentrate)	25 - 4000 x10³/mm³	4000 - 6000 x10³/mm³

• Precision:

Parameter	%CV	at
WBC	≤2.5	10 x10³/mm³
RBC	≤2	5 x10⁶/mm³
HGB	≤1.6	15 g/dl
HCT	≤2.0	45%
PLT	≤5.0	300 x10³/mm³
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

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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)

Lite^DM V2
Easy • Patient Data Management

Patient Data Management

Sampling on Open tube

Sampling on Closed tube

Barcode reader

Keyboard

ABX Micros 60 Open Tube