

ABX **Micros 60** ●

Process efficiency in Hematology



ABX **Micros 60**

**Complete haematology profile
18 parameters**



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

• Simple and easy menu

• Fully-automatic analysis



Smart Card



Sampling
on Open tube



Sampling
on Closed tube



Barcode

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

> 18 parameters

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

> Flexible with a list of options

- **Quality control management**
Smart card based QC
(31 controls x 3 levels)
- **Sampling mode**
Open tube, or
Closed Tube (4 position tube holder)
- **Identification mode**
Alphanumeric (*with internal keyboard*)
Barcode reader (for patient's ID number)
- **Integrated Reagents**
Bottles, or
ABX Minipack LMG (*slide-in / slide-out reagent pack, integrating reagents and waste*)
- **Memory**
Last result, or
Smart card reader
(*storage of 78 results with graphics on rewritable memory smart card*)

cycle

- Only 3 reagents (diluent, lyse, cleaner)



reader



Keyboard



ABX Minipack LMG



ABX Micros 60
Open Tube

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: 80 column dot matrix printer
- 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
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

NORMES

- CE

UL	CSA
NF EN 60601-1.	UL 3101-1
NF EN 61326. B	C22.2 n°1010-1
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 smart card based QC (31 controls x 3 levels)

PARAMETERS & PERFORMANCE DATA

- 18 Parameters

WBC	RBC	PLT
LYM# & LYM%	HGB	MPV
MON# & MON%	HCT	PCT*
GRA # & GRA%	MCV	PDW*
	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	≤1.6	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%
RBC	<0.5%
HGB	<0.5%
HCT	<0.5%
PLT	<2%

*(RUO parameter, Research Use Only.)



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Medical

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