

ABX Micros ES 60

Process efficiency in Hematology





A new generation hematology analyzer based on the Micros concept, universally recognized for its reliability, robustness and high quality results



- 60 samples per hour (OT Version)
- CBC + 3 DIFF (16 parameters)
- Large color touch screen
- Comprehensive quality control program

Closed tube version



*Available in closed tube version (optional external barcode reader for open tube version)

Integrated barcode reader* Secured identification (patient, QC and reagent lot numbers)



(optional external printer in closed tube and open tube versions)

✓ Integrated ticket printer

- . Full data print-out
- . PLT, RBC, and WBC curves



■ USB connection

- . Archiving patients and QC results
- . Downloading QC target values



(optional bottle version)

■ Unique pack system

- . Innovative ABX patent
- . Ready to use
- . Optimized packaging
- . Simplify your lab organisation

ABX Micros Concept "Zero maintenance" system

- > **ABX Micro-sampling**Only 10µl of whole blood per analysis
- > **ABX Liquid valves**Precise volume and reliability
- > **ABX stepper motor vacuum pump**Noiseless running (no-compressor)

More Powerful, More Intuitive, More Secured, More Connectivity...

The perfect combination of intuitive use and innovative technologies

- User friendly interface with rapid access to all menus and virtual keyboard
- User profile management with different access levels
- Flexible data exchange for patient results and quality control
- Multi-connection capability (network and peripherals)

Easy interpretation ▶

Control all the parameters from the main screen
Access to detailed results (normal ranges and curves)
1000 patient results capacity
Unlimited patient report archiving (external viewer)
Customized reporting format





Comprehensive quality control program

3 simultaneous activated blood control levels Levey-Jennings graphics XB management Upload / Download control information

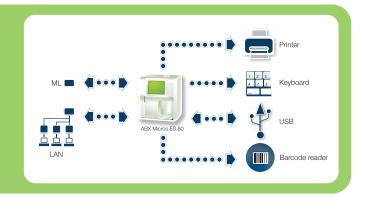
Automatic system monitoring >

Real-time instrument status with help messages
Automatic reagent test count down
Automatic daily maintenance and operational alerts
Complete traceability in compliance with accreditation standards
(users, reagents, controls, maintenance...)



Full Connectivity Integrated Technologies

- > **Software**Java™ Linux Operating System, HTMI
- > Hardware: 7 connections ports RS232 (2), USB (3), PS2 (1), RJ45 (1)
- > ABX and ASTM protocols available
- > HL7 Protocol for EMR



ABX Micros ES 60





PHYSICAL SPECIFICATIONS

· Dimensions & Weight:

Weight Height Width Depth 16.9 in 14.2 in 14.2 in 30.9 lb 43 cm 36 cm 36 cm 16 kg

• Throughput*:

OT: 60 samples/hour CT: 50 samples/hour

* Throughput performance is reachable in optimized conditions with an admitted margin for variation of 10%.

Sound Pressure Level:

< 60 dBa

· Operating Temperature & Humidity:

16 to 30°C (61 to 86°F) room temperature. Maximum relative humidity 85% for temperature up to 30°C (86°F)

• Specimen Volume:

CBC + 3 part DIFF 10 µL

• Power Requirements:

from 100 V to 240 V (± 10%) Power supply 50 Hz to 60 Hz

Power consumption Maximum 110 VA

• Reagents:

- ABX Minipack LMG

- ABX Minidil LMG

- ABX Minilyse LMG

- ABX Miniclean

- ABX Alphalyse 360 (0,36L)

METHODS & TECHNOLOGIES

• RBC/PLT Detection Principles

Method Impedance Ruby diameter 50 µm Depression of count 200 mb

2 (or 3) x 6 seconds Duration of count

Dilution ratio 1/15 000

HGB Measurement

Method Photometry Wavelength 550 nm Dilution ratio 1/250

HCT Measurement

Method Numeric integration

WBC Measurement

Method Impedance Ruby diameter 80 µm 200 mb Depression of count

Duration of count 2 (or 3) x 6 seconds

Dilution ratio 1/260

• 3 Part Differentiation

Method Impedance + specific lyse action

• MCV, MCH, MCHC, RDW

Calculation

SOFTWARE SPECIFICATIONS

8.4" LCD screen

256,000 colors, 640 x 480 pixel resolution

Inverter card for LCD screen

Touch screen technology

Secure digital memory card: 512 Mo 58mm thermal printer with rapid paper loading

Linux Operating System

PARAMETERS & PERFORMANCE DATA

• 16 Parameters:

WBC RRC MCH PIT LYM# & LYM% **HGB MCHC** MPV MON# & MON% HCT **RDW**

GRA# & GRA% MCV/

· Linearity:

Visible Range Parameter Linearity Limit **WBC** 0.0 - 100 x 10³/mm³ 100 - 150 x 10³/mm³ **RBC** 0.0 - 8 x 10⁶/mm³ 8 - 18 x 10⁶/mm³ **HGB** 0.0 - 24 g/dL 26 - 30 g/dL 0.0 - 70 % HCT 80 - 90% 2200 - 6000 x 10³/mm³

PLT (Whole blood) 0 - 2200 x 10³/mm³

Precision:

%CV **Parameters** Range **WBC** <2.5 4-10.0 x 103/µL **RBC** <2.0 4-7 x 106/μL HGB 12-18 g/dl < 1.5 **HCT** < 2.0 36-54% PLT <5.0 200-500 x 10³/μL

• Carry-over:

WBC <1% **RBC** <1% HGB <1% **PLT** <1%

CERTIFICATIONS

EN 61326: 2001 EN 61326-2-6: 2006 IEC 61010-1: 2001

IEC 61010-2-81: 2001 / A1: 2003 IEC 61010-2-101: 2002

UL61010-1: 2004 C22.2 N°61010-1: 2004

In Vitro Diagnostics Directive: 98/79/EC

cTUVus mark





FRANCE +33 (0)4 67 14 15 15 - BENELUX +32 (0)3 281 49 08 - ITALY +39 / 06 51 59 22 1 - SPAIN +34 / 91 - 353 30 10 - PORTUGAL +351 / 2 14 72 17 70 UK +44 (0) 1604 542650 - POLAND +48 / 22 6732022 - USA +1 / 949 453 0500 - BRAZIL +55 / 11 5545 1500 - THAILAND +66 / 2 861 59 95 CHINA +86 / 21 3222 1818 - INDIA +91 / 11 4646 5000 - GERMANY AXON LAB AG +49 / 7153 92260 - DISTRIBUTORS NETWORK +33 (0)4 67 14 15 16 HORIBA Medical online: http://www.horiba.com/medical