

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



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

Closed tube version



*Available in closed 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 Lite^{DM}

- Provides Comprehensive Patient & QC Data Management
- Up to four instrument connections
- Connects 3rd party analyzers (Ex: Chemistry, IA, urinalysis)
- Ability to add manual test results

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

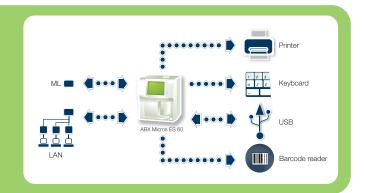
Real-time instrument status with help messages
Automatic reagent test count down
Automatic daily maintenance and operational alerts
Complete traceability in compliance with accreditation standards
(users, reagents, controls, maintenance...)



Full Connectivity

Integrated Technologies

- > **Software** Java[™], Linux Operating System, HTML
- > 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

Process efficiency in Hematology



PHYSICAL SPECIFICATIONS

• Dimensions & Weight:

 Height
 Width
 Depth
 Weight

 16.9 in
 14.2 in
 14.2 in
 30.9 lb

 43 cm
 36 cm
 36 cm
 16 kg

• Throughput*:

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:

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

Power consumption Maximum 110 VA

• Reagents:

- 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

Duration of count 2 (or 3) x 6 seconds

Dilution ratio 1/15 000

HGB Measurement

Method Photometry Wavelength 550 nm Dilution ratio 1/250

HCT Measurement

Method Numeric integration

WBC Measurement

MethodImpedanceRuby diameter80 μmDepression of count200 mb

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
 RBC
 MCH
 PLT

 LYM# & LYM%
 HGB
 MCHC
 MPV

 MON# & MON%
 HCT
 RDW

GRA# & GRA% MCV

· Linearity:

 Parameter
 Linearity Limit
 Visible Range

 WBC
 0.0 - 100 x 10³/mm³
 100 - 150 x 10³/mm³

 RBC
 0.0 - 8 x 10⁵/mm³
 8 - 18 x 10⁵/mm³

 HGB
 0.0 - 24 g/dL
 26 - 30 g/dL

 HCT
 0.0 - 70 %
 80 - 90%

PLT (Whole blood) 0 - 2200 x 10³/mm³ 2200 - 6000 x 10³/mm³

• Precision:

Parameters %CV **WBC** <2.5 4-10.0 x 10³/µL RBC $4-7 \times 10^{6}/\mu L$ < 2.0 HGB 12-18 g/dl <1.5 **HCT** 36-54% < 2.0 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

