

Managing Results & Monitoring Quality

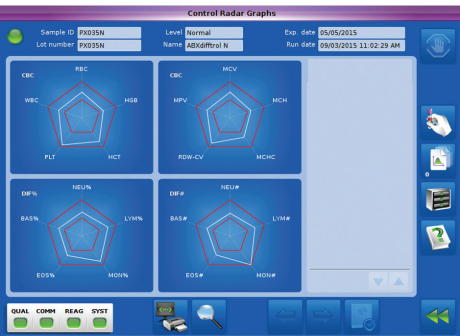
Multi Connection Capacity

Bidirectional communication to LIS or middleware.
ASTM with **query mode**.
HL7 compatible, suitable for POLs connection.



Quality & Traceability

- Automatic **reagents management**.
- Logs archiving**.
- Levey Jennings & radar graphs**.
- Overlapping QC** : 6 active control levels.
- Accreditation support tools**.
- Online Quality Control Program**.



Data Management

10,000 patient results storage.
Patient data export in **PDF** or **Excel** formats.
Customizable Printing Out Format Reports.



HORIBA Medical International Support

- Help Line Support
- E-Learning Training Program
- Worldwide Representation

<http://www.horiba.com/medical/contacts>



PHYSICAL SPECIFICATIONS

Dimensions & Weight:				
Analyzer	Height 62 cm 24 in	Width 53 cm 20 in	Depth 67 cm 26 in	Weight 36 kg 77 lbs

Printer (optional):
Compatible models with Linux drivers

Throughput:
43 samples/hour

Sample Management:
Autonomy of 40 tubes in 1 hour
Continuous Loading
STAT Mode
Rack Automatic Mixing
Tubes Positive Identification

Sound Level:
54 dBA

Operating Temperature & Humidity:
+15°C (+59°F) to + 30°C (+86°F)
Relative humidity of 30%-80% maximum, without condensation

Specimen Volume:
CBC mode: 20µL
DIF mode: 20µL

Power Requirements:
Power supply: 100 V to 240 V (+/- 10%), 50 Hz to 60 Hz
Power consumption: 165 VA
Heat output: 403 KJ/h (382 BTU/h)

Reagents:
2 reagents for analysis :
ABX Diluent (10L or 20L)
Whitediff 1L (cyanide free)

1 reagent for daily shutdown :
ABX Cleaner 1L

MEASUREMENT PRINCIPLES

WBC & Differential
Method:
• Cytometry : Double Hydrodynamic Sequential System 'DHSS'
• Optical Reading : Absorbance
• Impedance Variation

HGB Measurement
Method:
• Spectrophotometry

RBC & PLT Detection
Methods:
• Impedance Variation
• Analogic Digital Conversion

HCT Measurement
Method: analogical integration



SOFTWARE SPECIFICATIONS

Data Processing
Color LCD touch screen: 12.1 in.
Operating System: Linux™
Connection: RS232, Ethernet, USB
Communication: ASTM & HL7 protocols
Capacity: 10 000 results + graphs
Options: keyboard, mouse and bar code reader

Quality Control
3 controls levels (low, normal, high)
Target values download (USB)
QC results compatible with HORIBA Medical Quality Control Program (QCP)
Levey-Jennings graphs
Radar graphs
XB on 3 or 9 parameters
Overlapping QC (6 active QC files)

PARAMETERS & PERFORMANCE DATA

27 Parameters:			
WBC	RBC	PLT	
NEU# & NEU%	HGB	MPV	
LYM# & LYM%	HCT	PCT*	
MON# & MON%	MCV	PDW*	
EOS# & EOS%	MCH	P-LCC*	
BAS# & BAS%	MCHC	P-LCR*	
LIC# & LIC%	RDW-CV	RDW-SD*	

Linearity:	Linearity Limits	Visible Range	Unit
WBC	0 - 300	300 - 999	10 ⁹ /L
RBC	0 - 8	8 - 18	10 ¹² /L
HGB	0 - 240	240 - 300	g/L
HCT	0 - 0.67	0.67 - 0.80	L/L
PLT	0 - 2500	2500 - 4000	10 ⁹ /L
PLT (concentrate)	0 - 4000	4000 - 5000	10 ⁹ /L

Precision (Repeatability):			
Parameters	CV (%)	Range	Unit
WBC	<3.0	4 - 100	10 ⁹ /L
RBC	<2.0	3.6 - 6.2	10 ¹² /L
HGB	<1.5	120 - 180	g/L
HCT	<2.0	0.36 - 0.54	L/L
PLT	<5.0	180 - 500	10 ⁹ /L

* RUO parameters (Research Use Only)

CERTIFICATION

98/79/EC (IVD)
EN ISO 13485
EN ISO9001
IEC 61010-1
IEC 61010-2-081
IEC 61010-2-101
EN 61326-1
EN 61326-2-6
IEC 61000-3-2
IEC 61000-3-3
UL 61010-1
CAN/CSA-C22.2 61010-1



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Ref : 1300011328 - Sujet à des modifications / © March 2017 HORIBA Medical - HORIBA ABX SAS - France - RCS Montpellier 328 031 042
HORIBA Medical invite les utilisateurs de ses systèmes à lire attentivement les instructions de bonne utilisation présentes dans les manuels utilisateur.



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«Hematology Everywhere, and Beyond»



Delivering Safe Patient Care to Small-Mid Size Laboratories

Cost Effective Hematology Solution

Tailored for various environments:
hospitals, satellite labs, emergency
departments, doctors' offices, small
independent labs,...



Mrs Catalina ANDONE,
Technical Director of Clinica Sante Lab, Bucharest, Romania

*'The Yumizen H550 perfectly fits today's lab requirements : high performance and economical inputs.
The Yumizen H550 is very easy to use and shows excellent correlation with reference hematology systems.'*



Providing Walk-away Capability

The Yumizen H550 is designed to provide rapid testing and full hematology diagnosis

The Yumizen H550 is a **compact** hematology system with integrated **sample rack auto loading**.

It provides the operator with a **full walk-away capacity of 40 tubes with continuous loading**.

Based on **proven and innovative technologies**, the Yumizen H550 answers the need for a robust analyzer and requires **no user maintenance**.



Sample Management

In order to ensure a reliable process, the Yumizen H550 allows:

- **Automatic rack mixing**,
- **Positive identification** of tubes.

The 10-tube racks are compatible with Yumizen H1500/2500.

STAT Mode for urgent samples.
Anytime, on **open** and **closed** tubes.
Compatible with various **micro tubes**.
Ideal for **pediatrics** and **critical care**.



Ensuring Safe Diagnosis

Reliable Analysis

The new Yumizen H550 technologies provide added value advantages:

- **Only 3 reagents** : Diluent, Cleaner and Whitediff®,
- **Low consumption** and **ergonomic reagent management**,

- Unique **Whitediff®** is a cyanide free lysis reagent for HGB measurement and WBC counting & differential.

Based on micro-sampling of **20 µL of whole blood**, the Yumizen H550 can run any type of blood sample including pediatrics.

27 parameters with full **WBC 6 Differential** : LYM%#, MON %#, NEU %#, BAS %#, EOS%# and LIC%# (Large Immature Cells).

Specific parameters for Iron Deficiency Anemias diagnosis & PLT disorders:
RDW-CV, RDW-SD, P-LCC, P-LCR.

Timely Results

User-friendly **touch screen software**.

Comprehensive menus with graphs & flags.

Easy handling with minimal operator training.

Expert alarms system for interpretation guide.

