

Mastering the analysis process to deliver reliable results

- A real throughput of 120 samples per hour for CBC-DIFF-NRBC and 120 slides per hour
- Automatic 360° rotative sample mixing for perfect homogeneity
- Up to 56 parameters with :
 - NRBC in routine included in both CBC and DIFF cycles
 - Optical platelets (optical extinction technology)
 - Low value cycle (LVC) with extended counting
 - White and red blood cell immature channels
 - Reticulocyte immaturity gradient (High, Medium, Low)
- Expert multi sites validation station embedding standard rules packages (ISLH rules, Rerun, Reflex, Comment, Validation)
- Body Fluids : 6 parameters (BFWBC, BFRBC, BFPN#, BFPN%, BFMN#, BFMN%)



Yumizen
H2500

Yumizen
H1500

Yumizen
P8000

Yumizen

H2500

Yumizen

H1500



Dimensions & Weight: (without CIM and SPS)

Analyzer (WHD) : 868x730x665. 94.2 kg
 Analyzer + CIM (WHD): 868x730x987. 114.7 kg
 Pneumatic Unit (WHD): 204x313x473. 15 kg

Printer - laser in option

Throughput:

Automatic mode :
 . 120 tests/hour for CBC - DIFF
 . 60 tests/hour for Retic, Optical Platelet extinction and for extended mode (Low Value Cycle)
 . Sampling volume (Rack & STAT): 110 µL

Temperature:

15-30°C without SPS
 19-26°C with SPS

Noise emitted:

< 60 dB

Power:

100 V to 240 V, 50 to 60 Hz

Export:

Frontal USB plug

Screen:

Color LCD touch screen 12.1in

Computer:

intel celeron
 2 GB RAM
 Connectors : 1xVGA, 3xRS232, 2xUSB2, 2xUSB3, 2xETH, 2xPS2
 (Mouse & keyboard), 2 audio jacks (line-out & mic-in)
 HDD : 500 GB, 5400 RPM, Serial-ATA/300

Graphical User Interface:

Flat design oriented conform to Horiba graphical chart

Storage capacity:

100 000 results (include Graphics and Runs)
 equivalent to 6 months with 500 tests per day

Graphic results:

9 Histograms, 4 Multi histograms, 4 Matrix

Complete Blood Count (CBC):

WBC, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV
Research Use Only (for US market only): PCT, PDW, MIC%, MAC%, TNC

Differential Leucocyte Count (WBC Diff):

LYM#, LYM%, MON#, MON%, NEU#, NEU%, EOS#, EOS%, BAS#, BAS%
Research Use Only (for US market only): ALY#, ALY%, IMG#, IMG%, IML#, IML%, IMM#, IMM%, LIC#, LIC%

Reticulocyte Count (Ret):

Available only on H2500 : RET#, RET%, CRC, IRF, RHCC
Research Use Only (for US market only): MFI, PIC, MRV, RETH%, RETM%, RETL%

Erythroblast Count (NRBC):

NRBC #, NRBC%

Body Fluid Count (BF):

BFWBC, BFRBC, BFPN#, BFPN%, BFMN#, BFMN%

Optical Platelet Extinction : PLT Ox

Available only on H2500 model

Reagents:

. ABX Diluent (10L or 20L)
 . ABX Basolyse (5L)
 . Nucediff (1L)
 . ABX Lysebio (1L)
 . ABX Fluocyte (0.5L) - only on H2500
 . ABX Cleaner (1L).

Linearity

WBC : 0 - 300 10³/mm³
 RBC : 0 - 8 10⁶/mm³
 HGB : 0 - 24 g/dL
 HCT : 0 - 67 %
 PLT : 0 - 5 000 10³/mm³
 PLT Ox : 0 - 5000 10³/mm³
 RET% : 0 - 35 %
 RET# : 0 - 1.2 10³/mm³
 BFWBC : 0 - 10 000 10⁶/L
 BFRBC : 0 - 5 000 000 10⁶/L

Precision

WBC: 4-10 10³/mm³ CV < 2%
 RBC: 3.6-6.2 10⁶/mm³ CV < 2%
 HGB: 12-18 g/dL CV < 1%
 HCT: 36- 54 % CV < 2%
 PLT : 150 - 500 (CV < 5%)
 PLTOx : 150 - 500 10³/mm³ (CV < 6%)
 LYM%: 25-50 % CV < 5%
 MON%: 2-10 % CV < 15%
 NEU%: 45-80 CV < 3%
 EOS%: 1-5 % CV < 20%
 BAS: 0.5-2.5 % CV < 30%
 MCV: 80-100 fL CV < 1%
 MCH: 27-32 pg CV < 2%
 MCHC: 32-36 g/dL CV < 2%
 LIC%: 0.5-3 % CV < 40%
 RDWCV: 10-16 % CV < 3%
 RDWSD: 37-49 fL CV < 4%
 RET#: 0.02-0.1 10³/mm³ CV < 20%
 RET%: 0.5-3 % CV < 12%
 CRC: 0.75-2.3 % CV < 15%
 IRF: 0.15-0.3 CV < 25%
 MRV: 100-120 fL CV < 4%
 RETL%: 70-95 % CV < 5%
 RETM%: 5-30 % CV < 30%
 RETH% : 3 - 10 % CV<60%
 NRBC% : 0-2.5% CV +/- 1.5%
 BFWBC: 15-100 10⁶/L CV < 20%
 BFRBC: 10.000-100.000 10⁶/L CV < 10%

Standards:

EN 61326-1 : 2013
 EN 61326-2-6 : 2013 Class B
 IEC 61010-1 : 2010
 IEC 60825-1: 2014
 IEC 61010-2-081 : 2015
 IEC 61010-2-101 : 2015
 UL 61010-1 : 2012 R4.16
 UL 61010-2-081 : 2015
 UL 61010-2-101 : 2015
 CAN/CSA-C22.2 No. 61010-1-12 + G11 + G12 (R2017) /
 No. 61010-2-081: 15 / No. 61010-2-101: 15
 NF EN 50581: 2012
 EN ISO 13485 : 2016
 EN ISO 14971 : 2012

Directives:

98/79/EC (IVD)
 2012/19/EU (WEEE)
 2011/65/EU (ROHS)
 2006/66/ (Batteries and Accumulators)
 1907/2006 (REACH)

Options:

Yumizen SPS with throughput 120 slides/hour
 Yumizen H1500 or H2500 with CIM for tracking with Yumizen T6000



FRANCE +33 (0)4 67 14 15 15 - 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 2923-5439 - 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>

