

Pentra XLR Process efficiency in Hematology



Pentra XLR

Compact and reliable hematology platform including reticulocytes by fluorescence

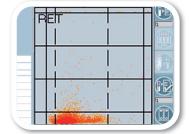
- 36 parameters
- 80 samples/hour
- Enhance productivity, quality, flexibility
- Increase your expertise in anaemia characterization
- Add value to your hematology lab



More productivity

Facilitate diagnosis with full reticulocyte parameters





Full synergy with HORIBA Medical high range solution: same reagent, same QC, same technology

- RET#: Reticulocyte count (#).
- RET%: Reticulocyte percentage (%).
- RETH%*, RETM%*, RETL%*.
- IRF: Immature Reticulocyte Fraction.
- RHCc*: Reticulocyte Hemoglobin Cellular content (pg).
- MRV*: Mean Reticulocytes Volume (fl, μm³).
- CRC%: Corrected Reticulocyte Count (%).

Save time and increase efficiency



80 samples/hour instrument with large walk-away capacity

- Auto-loader with large capacity (100 tubes).
- Onboard view of reagent levels, test in progress and ratio of flagged samples.



More quality

More flexibility



Easy to use platform and intuitive software

- Touch screen software.
- Direct access to interface by icons.
- Contextual toolbar and help online.

Standardise lab processes and traceability



Auto-rerun and reflex with user settings

- Out of range results may be instantly confirmed with additional analyses.
- Fully programmable re-sampling according to haematology criteria, delta check, flags and limits.



Secured automatic validation

- Precise patient reports showing test results, demographics, graphs, flags, remarks.
- Data storage management (10 000 patient results) with export to USB key.

Advanced technology solutions to meet your lab's Quality needs

Optimize Quality Assurance

Traceability (1) and (2)

- Access to all information logs concerning instrument status (calibration, quality control, settings, maintenance, laboratory information system, patients...).
- 3 control levels with barcode identification for RET and DIFF.
- Control results displayed in charts and Levey-Jennings graphs.
- XB results and graphs available from 100 files.
- Repeatability test management.

Quality control export to QCP (3)

- Comparison with pair labs in real time.
- QC result easily exported by USB (XML format).

Benefit of proven technology

A concentration of technology

 6 recognized measurement principles included on a single analyser.

Reference methods	CBC	DIFF	RET
Impedancemetry	0	0	0
Flow cytometry		0	0
Cytochemistry		0	
Fluorometry			0
MDSS***	0	0	0
DHSS***		0	0

Extended linearity with CDR**

 Enables an automatic extension of linearity in case of out-of-range samples. Samples are automatically flagged, re-sampled, then diluted to generate a result within an extended linearity range.

Robust and reliable platform

 More than 1 000 Pentra XL 80 are currently successfully used throughout the world, they are particularly appreciated for their accuracy, their convenience and the efficiency of their results.



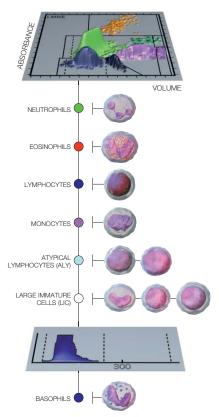


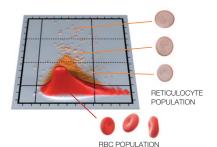




(3)

Results





^{*} RUO parameters (Research Use Only)

^{**} CDR: Customized Dilution Ratio

^{***}HORIBA Medical patents

Multi-faceted solutions to maximize your lab's Flexibility needs

Space saving: Compact with integrated PC

Compact platform providing 36 parameters

- · Continuous workload.
- Easy access to samples.
- Stat sampling on open and closed tubes.

Single screen to view all data

- 36 parameters.
- Histograms, colour matrix.
- Flags and remark.





Comprehensive settings options and secured validation

Integrated validation station

- Automatic and customizable validation to meet your laboratory requirements.
- Focus on abnormal results.
- Programmable Delta check flags for accurate patient follow-up.
- Automatic calculation of Wintrobe constants according to manual data input.

Compatibility with ABX Pentra ML data management

- Complete patient hematology file.
- Standardisation of lab validation rules.
- Same expertise between core and satellite labs.



Operational efficiency

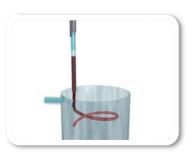
MDSS***

(Multi-Distribution Sampling System)

- Micro-sampling and complete homogenization of blood samples with reagents.
- Precise aliquot volumes.
- Only 35 μL in CBC mode and 53 μL in CBC+DIFF mode and 35 μL in RET mode.

Low reagent consumption

- Real-time status Overview.
- 10 or 20 L choice for diluent.





Pentra XLR Haematology analyzer



PHYSICAL SPECIFICATIONS

Dimensions & Weight:

Height Width Depth Weight 32.3 in 22.4 in 126 lb 21.5 in 54 cm 82 cm 57 cm 57 kg

Printer:

Laser

Throughput:

Up to 80 samples/hour in automatic mode Up to 80 samples/hour in stat mode

Sound Pressure Level:

< 60 dBa

Operating Temperature: 16 to 34°C (61 to 93°F) room temperature

Specimen Volume: CRC 35 uL CBC + DIFF 53 µL RET 35 µL

Power Requirements:

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

Power consumption Maximum 230 VA Heat ouput Maximum 670 Kj/h

Reagents:

Only 5 reagents and 1 diluent :

ABX Diluent 10 or 20L ABX Lysebio (cyanide free)

ABX Cleaner ABX Eosinofix ABX Basolyse II ABX Fluocyte

PARAMETERS

CBC: WBC RBC HGB HCT MCV MCH MCHC PLT MPV PCT* PDW* RDW-CV RDW-SD

Differential Leukocytes:
NEU# & NEU% LYM# & LYM% MON# & MON% EOS# & EOS%

BAS# & BAS% ALY*# & ALY*% LIC*# & LIC*%

Reticulocytes:
RET% RETH%* RETH%* RETL%* CRC% IRF% MRV* RHCc*

CERTIFICATION

98/79/FC (IVD) IEC 61010-1 IEC 61010-2-81 cTUVus Mark IEC 61010-2-101 EN 61326-1 UL 61010-1

CAN/CSA-C22.2 61010-1 FN 61326-2-6

IEC 61000-3-2 IEC 61000-3-3

SOFTWARE SPECIFICATIONS

Data Processing:

Colour LCD touch screen: 12 in Operating System: Windows XP Embedded™ Capacity: 10 000 results + graphs Celeron 566 MHz RAM (256 MB), Hard disk (10 GB mini) External DVD/CD drive connected to instrument USB port RS 232C, TCP/IP, USB connections User defined flagging limits Transmit patient files & QC to LIS

Uni-directional & bi-directional connections ASTM protocol inside

Quality Control Management:

36 selectable QC files XB: 100 operator selectable files with statistics (20 results per file) With-in run

Levey-Jennings graphs

Logs:

Reagents, quality controls, calibration, blank cycle, maintenance, data handling, settings, communication, errors, by date

Patient reports management:

Delta check

Anteriority (Matrix, curves, data)

Manual input

PERFORMANCE DATA

Standard

0 - 120

< 20.0

< 15.0

Linearity:

WBC

RFT#

CRC

RBC	0 - 8	0 - 8	8 - 18
HGB	0 - 24	0 - 24	24 - 30
HCT	0 - 67	0 - 67	67 - 80
PLT (whole blood)	0 - 1 900	1 900 - 3 800	3 800 - 5 500
PLT (concentrate)	0 - 2 800	2 800 - 5 600	5 600 - 7 500
RET%	0 - 42		
RET#	0 - 1.5		
Precision:			
Parameters	CV (%)	Range	Unit
WBC	< 2.0	4.0 - 10.0	10 ³ /µL
RBC	< 2.0	3.6 - 6.2	10 ⁶ /µL
HGB	< 1.0	12.0 - 18.0	g/dL
HCT	< 2.0	36 - 54	%
PLT	< 5.0	150 - 500	10 ³ /μL
RET%	< 12.0	0.5 - 3.0	%

0.02 - 0.10

0.75 - 2.3

CDR ** Mode

120 - 360

CDR ** Visible range

360 - 550

10⁶/µl

Unit

10³/µL

106/µL g/dL

10³/µL

 $10^3/\mu L$ 10⁶/µL

** CDR: Customized Dilution Ratio





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