

Stay zen ...



The Yumizen effect !

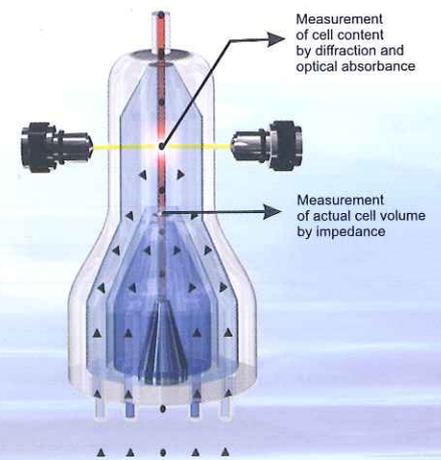
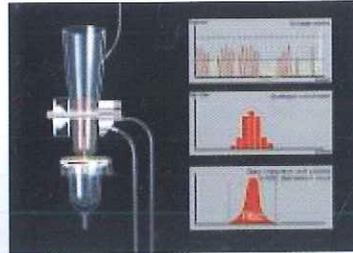
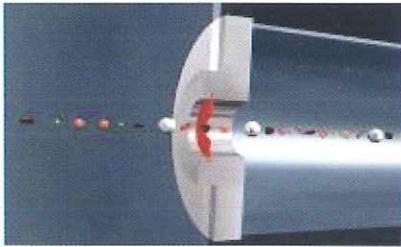
- 6 Part Hematology Analyzer
- Only 2 Reagents per Analysis
- DHSS & VCF
- Complete Platelet Indices
- Artificial Intelligence System
- Color Patient Report



Yumizen
H500

Follow us on 

Technologies VCF & DHSS



- Volume
- Cytochemistry
- Flow Cytometry
- DHSS® Double Hydrodynamic Sequential System

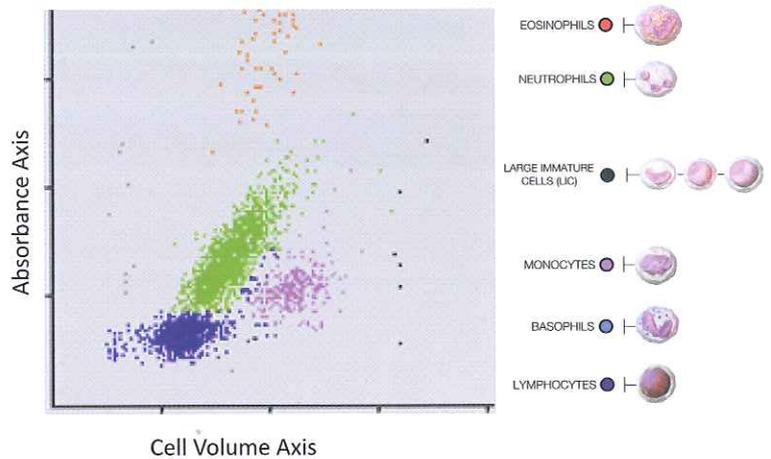
DHSS (Double Hydrodynamic Sequential System) for Cytochemistry and Flow Cytometry:

Cytochemistry

- Temperature controlled reagent cytochemistry produces excellent cell differentiation
- 48 hours post-draw stability

Flow Cytometry

- Precise cellular identification by injecting the prepared sample into a double hydrofocusing cytometer: impedance (cell volume measurement) & optical (analysis of the internal cellular structure by measuring light absorbency).



• 6 Part Hematology Analyzer

• Artificial Intelligence System

• Only 2 Reagents Per Analysis

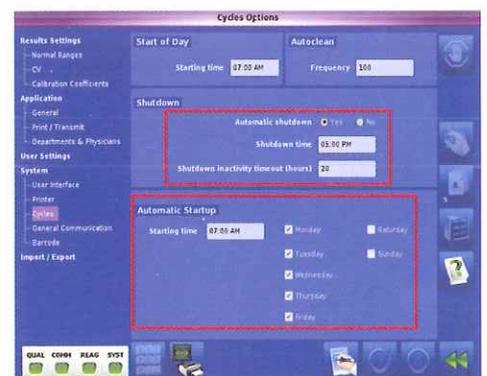
6 Part Hematology Analyzer

Only 2 Reagents Per Analysis

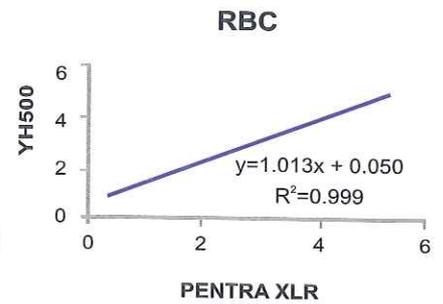
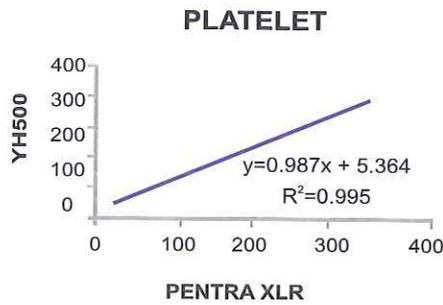
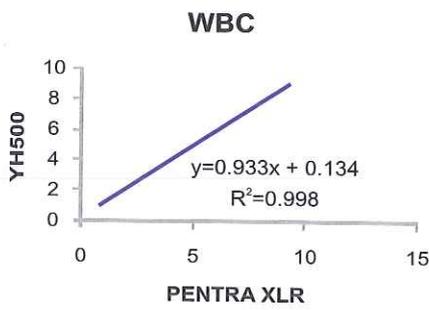
Artificial Intelligence System



Whitediff® 1L



Regression & Correlation Analysis



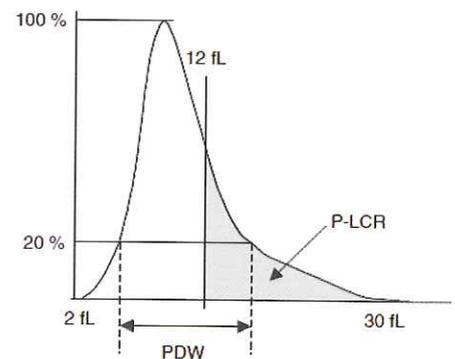
Repeatability With 1:5 Dilution

	WBC	RBC	HGB	HCT	PLT	MCV	RDW
MEAN	1.03	1.05	3.4	9.1	8	86.6	13.4
SD	0.02	0.025	0.05	0.2	1	0.35	0.3
CV	1.78	2.16	2.06	2.23	13.2	0.41	2.38
MIN	1	1.03	3.4	8.9	6	86.1	12.9
MAX	1	1.11	3.6	9.6	9	87.4	13.9

*Applicable For Even Low Platelet Count

Extended Platelet Indices

- ▶ **P-LCC (#)** : Count of Large Platelets with a Volume >12 fL.
- ▶ **P-LCR (%)** = P-LCC/PLT

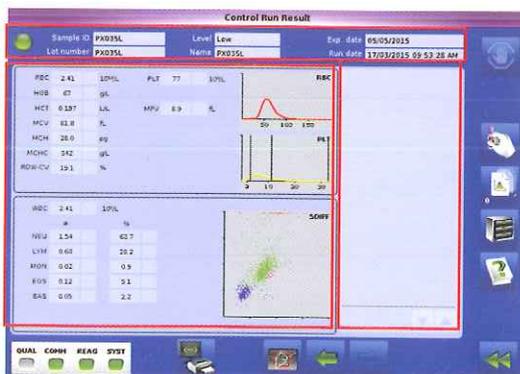


• Quality Control

• Complete Report

• Color Patient Report

Complete Report



Uni-dimensional time progressive graph

Quality Control



Bi-dimensional multi-variable quantitative graph



Yumizen H500



PHYSICAL SPECIFICATIONS

Dimensions & Weight:

	Height	Width	Depth	Weight
Analyzer	48 cm 16 in	40 cm 19 in	48 cm 19 in	23 kg 51 lbs

Printer (optional):

Compatible models

Throughput:

50 samples/hour

Sound Level:

53 dBA

Operating Temperature & Humidity:

+15°C (+59°F) to +30°C (+86°F)

Relative humidity of 30%-80% maximum, without condensation

Specimen Volume:

OBC mode: 20µL

DIFF mode: 20µL

Power Requirements:

Power supply: 100 V to 240 V (+/- 10%), 50 Hz to 60 Hz

Power consumption: 165 VA

Heat output: 348 kJ/h (330 BTU/h)

Reagents:

2 reagents for analysis :

ABX Diluent (20L)

Whitediff 1L (cyanide free)

1 reagent for daily maintenance :

ABX Cleaner / ABX Miniclean 1L

MEASUREMENT PRINCIPLES

WBC & Differential

First Dilution: 1/51 with ABX Diluent

Final Dilution: 1/121 with Whitediff

Incubation: 22 sec at 37°C

Methods:

- Cytometry : Double Hydrodynamic Sequential System 'DHSS'

- Optical Reading : Absorbance

- Impedance Variation

Aperture Diameter: 60µm

Counting: 11 x 1 sec

HGB Measurement

First Dilution: 1/51 with ABX Diluent

Final Dilution: 1/121 with Whitediff 1L

Incubation: 12,5 sec at 37°C

Method:

- Spectrophotometry : at a wavelength of 555 nm

Measurement: 10 x 0,3 sec

RBC & PLT Detection

First Dilution: 1/51 with ABX Diluent

Final Dilution: 1/10251 with ABX Diluent

Method:

- Impedance Variation

- Analogic Digital Conversion

Counting: 12 x 1 sec

RBC histogram: 256 channels from 30 to 300 fL

PLT histogram: 256 channels from 2 to mobile threshold

HCT Measurement

Method: analogical integration

Calculation: MCV, MCH, MCHC, RDW-CV, RDW-SD*, PCT*, PDW*, P-LCC*, P-LCR*

SOFTWARE SPECIFICATIONS

• Data Processing

Color LCD touch screen: 12,1 in.

Operating System: Linux™

Connection: RS232, Ethernet, USB

Communication: ASTM protocol

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, mean value of 20 runs

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:

Parameters	Linearity Limits	Visible Range	Unit
WBC	0 - 300	300 - 600	10 ⁹ /L
RBC	0 - 8	8 - 18	10 ¹² /L
HGB	0 - 240	240 - 300	g/L
HCT	0 - 67	67 - 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	150 - 500	10 ⁹ /L

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

* RUO parameters (Research Use Only)

HORIBA
Medical

HORIBA India Private Limited

246, Okhla Industrial Estate Phase III, New Delhi - 110020, India, Tel: +91 (11) 4646 5000 / 4669 5001 Fax :+91 (11) 4646 5020 / 4669 5010
<http://www.horiba.com>, **Toll Free No. 1800 -103 - 4470**, **E-mail: pentramicros.hin@horiba.com**

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>

