



**PERFEXN CHEM SCIENCE
MFD PVT.LTD.**

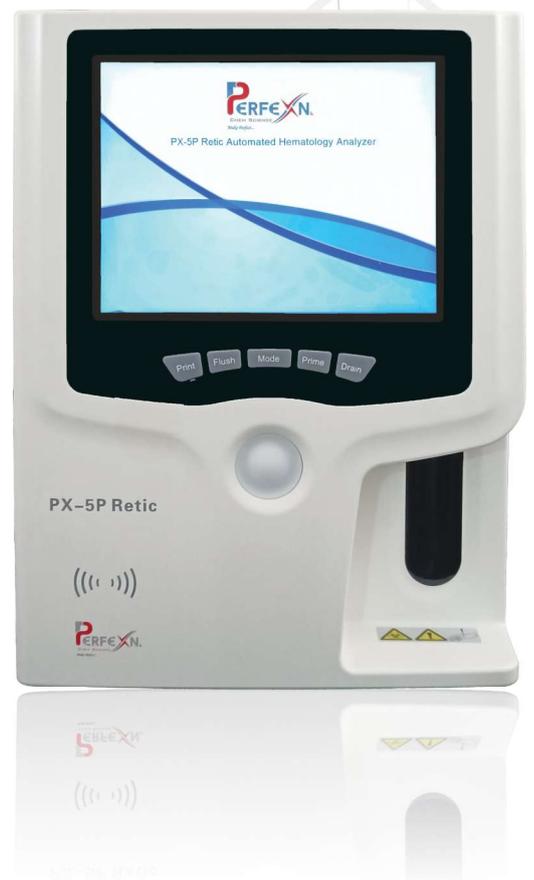
WITH

RETICULOCYTE

PX-5P RETIC

5-PART DIFFERENTIAL

HEMATOLOGY ANALYZER



UNIQUE FEATURES

- › 28 Reportable & 6 RUO* Parameters with 2 Histograms & 2 Scatter grams including Retic_Abs, Retic % as well as IRF
- › Flow Cytometry (FCM) and Multi Angle Scatter Separation (MASS) Technology
- › Unique Resistant RBC Mode Throughput of 60 Sample/Hr.
- › Storage of 2, 00,000 Results with Histogram & Scatter grams
- › Reticulocyte count with RETIC_ABS, Retic % & IRF
- › Impedance method for RBC & PLT counting
- › Combination of WIC & WOC methods for WBC Counting
- › Cyanide Free Reagent for HGB measurement
- › Supports Variety of External colour printers
- › Supports HIS/LIS & HL7 Protocols
- › Compact size design



REAGENTS

DILUENT : 20 Ltr

LYSE : 500 ml

DETERGENT : 10 Ltr

SHEATH : 10 Ltr

Laser Scatter

Multi – angle scatter separation technology (MASS)

Digital Sheath Flow Regulation

Use of only sheath flow reagent for WBC 5 Part Chemical Dye free Technology

Separation System

Use of motor & syringes for separation Ceramic Syringes & high precision motors

Electronics & Mechanical Components

Use of Best Quality Time Tested components and materials that ensures trouble-free long-lasting performance

2D Grams

2D histograms for RBC & PLT

2D scatter grams for 5-part WBC differentials including Eosinophil & neutrophils

Operation Interface

Simple touchscreen operations with user friendly icons Guidance to operator through handy tool icons

Quality Control Solutions

QC programs with 4 options like L-J, X-R, X-B & X Third Party QC solutions available

REQUIREMENTS

Voltage	:	110 – 220V (AC), 1 KVA Online UPS with Isolated Transformer
Temperature	:	15 – 30
Humidity	:	30 – 85%
Size	:	L 490 mm x H 332 mm x W 459 mm
Weight	:	35 KG

LINEARITY

Parameter	Linearity range	Acceptable Limits	Correlation Coefficient R
WBC =	$\frac{0 \times 10^9 / L \sim 10.0 \times 10^9 / L}{10.1 \times 10^9 / L \sim 100.0 \times 10^9 / L}$	$\frac{\pm 0.5 \times 10^9 / L}{\pm 5\%}$	≥ 0.990
RBC =	$\frac{0.10 \times 10^{12} / L \sim 100 \times 10^{12} / L}{1.01 \times 10^{12} / L \sim 8.00 \times 10^{12} / L}$	$\frac{\pm 0.05 \times 10^{12} / L}{\pm 5\%}$	≥ 0.990
HGB =	$\frac{0 \text{ g/L} \sim 70 \text{ g/L}}{71 \text{ g/L} \sim 250 \text{ g/L}}$	$\frac{\pm 2 \text{ g/L}}{\pm 2\%}$	≥ 0.990
PLT =	$\frac{0 \times 10^9 / L \sim 100 \times 10^9 / L}{101 \times 10^9 / L \sim 1000 \times 10^9 / L}$	$\frac{\pm 10 \times 10^9 / L}{\pm 8\%}$	≥ 0.990

SPECIFICATIONS

34 Parameters

WBC, LYM%, MON%, NEU%, EOS%, BAS%, LYM#, MON#, NEU#, EOS#, BAS#,
 RBC, HGB, HCT, MCV, MCH, MCHC, RDW_CV, RDW_SD, PLT, MPV, PDW, PCT,
 P_LCR, P_LCC, RETIC%, RETIC_ABS, IRF
 Research Parameters: ALY#, ALY%, LIC#, LIC%, NRBC#, NRBC%
 2 Histograms for RBC and PLT
 2 Scatter grams: 5-part differential scatter gram
 Eosinophils and Neutrophils scatter gram
 2 3-D stereograms

Principles Of Operation

WBC/DIFF: Flow Cytometry, Semi-conductor laser light multi-dimensional cell classification
 WBC Analysis: Optical and impedance measurements
 RBC/PLT Analysis: Impedance method
 HGB test: Cyanide-free reagent colorimetry

Reagent

Diluent, Sheath, Detergent, Lyse

Sampling Modes

Whole blood 20µL
 Pre-diluent : 20µL

Aperture Diameter

WBC 100µm RBC/PLT 68µm

Throughput

Whole blood: up to 60 samples per hour
 Pre-diluent up to 60 samples per hour

Data Storage

Up to 200,000 sample results with grams

Alarms

Error messages

Display

10.4 inch with touch screen

Size

L490mm x H332mm x W459mm

Power

A 250V

Weight

35KG



Main page



Calibration setting



QC setting



System maintenance

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