

SPECIFICATIONS

System Function

Description	3 - Part differential hematology analyzer
Throughput	72 Samples/Hour
Technology & Principle	WBC/RBC/PLT : TIC technology (Electrical Impedance) HGB : Photoelectric colorimetry (Cyanide Free Reagent)
Parameters	24 Parameters + 3 Histogram
Sampling modes	Open vial sampling Whole blood 8.5 µl Pre-diluted blood 20 µl
Data storage	Up to 10,00,000 results with histogram
Controls & Calibration	L-J, X, X-R, X-B four control modes, manual and auto calibration

Dilution Ratio

WBC/HGB	Whole blood (1:232), Capillary blood (1:400)
RBC/PLT	Whole blood (1:40000), Capillary blood (1:45000)

Aperture Diameter

WBC	100 µm
RBC/PLT	68 µm

Interface

External Printer	Connected via USB host
Connectivity	Mouse, Keyboard, Printer, Barcode reader & Flash disk
LIS & HIS	Available with HL7 protocol

Reagents

D35	Diluent - 20 L
L35	Lyse - 500 mL

Physical Characteristics

Display	10.4" color LCD touch screen display with 800x600 resolution
Dimensions	395x305x380 mm (HxWxD)
Weight	20 Kg
Printer	In-built thermal printer

Operating Environment

Storage temperature	-10 to 50° C
Working temperature	18 to 32° C
Relative humidity	80% Max at 32° C
Power supply	AC 100/240V, 50/60 Hz, 180 VA

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Bridging
Innovation
with Precision



Mispa HX35

Automatic 3 Part Hematology Analyzer

YOUR BEST PARTNER IN DIAGNOSTICS

Speed & Reliability In Perfect Harmony

Mispa HX35 is an excellent choice for those seeking a reliable and efficient hematology analyzer. Mispa HX35 is a 3-part differential system promises quality CBC (Complete Blood Count) testing, which is essential for accurate diagnosis and safe patient care. The compact design not only makes it space-efficient but also contributes to its ease of use. Its stability and low maintenance requirements further highlight the system's practicality, making it an attractive option for health-care providers seeking a cost-effective solution without sacrificing quality. The emphasis on both speed and reliability makes the Mispa HX35 a compelling choice for clinical settings.



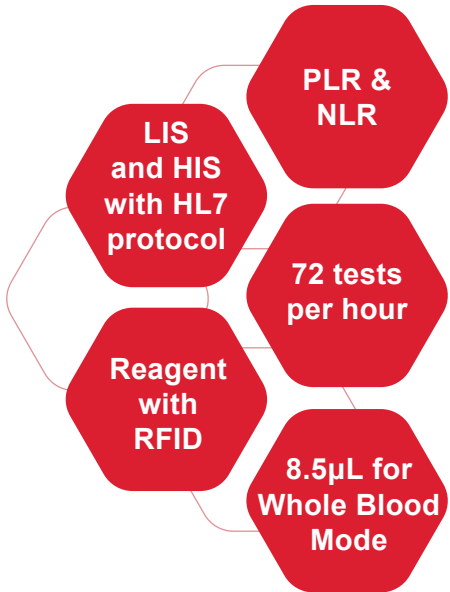
24 Parameters

WBC, LYM#, MID#, NEU#, LYM%, MID%, NEU%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PCT, PDW-SD, PDW-CV, P-LCR, P-LCC, NLR, PLR



Accurate and Precise Results

- Advanced Transducer Impedance Counting (TIC) Technology
- Auto internal & external probe cleaning
- High precision syringes
- Internal preheating for diluent for every test
- 68µm and 100µm ruby apertures



Easy to Use

- 10.4" color LCD touch screen display
- Working status indicator light
- Mouse & keyboard connection by USB
- Internal storage of lyse



Cost-effective

- Tidy fluid system with low reagent consumption
- Only 2 reagents for sample testing



Low and Easy Maintenance

- Special self-checking function during initialization
- Auto clog removing function
- Error messages



Perfect Software Function

- Friendly interface and illustrate icons
- Data storage up to 10,00,000 results with histogram
- L-J, X, X-R and X-B QC methods
- LIS & HIS available with HL7 protocol

ACCURACY

Parameter	Accuracy Range	Acceptable Limits (%)
WBC	3.5X10 ⁹ /L ~ 9.5X10 ⁹ /L	≤±8.0%
RBC	3.8X10 ¹² /L ~ 5.8X10 ¹² /L	≤±4.0%
HGB	115g/L ~ 175g/L	≤±4.0%
MCV	80fL ~ 100fL	≤±3.0%
HCT	35% ~ 50%	≤±5.0%
PLT	125X10 ⁹ /L ~ 350X10 ⁹ /L	≤±10.0%

PRECISION

Parameter	Precision Range	Acceptable Limits (%)
WBC	3.5X10 ⁹ /L ~ 6.9X10 ⁹ /L 7.0X10 ⁹ /L ~ 15.0X10 ⁹ /L	≤3.5% ≤2.0%
RBC	3.0X10 ¹² /L ~ 6.0X10 ¹² /L	≤1.5%
HGB	100g/L ~ 180g/L	≤1.5%
MCV	76fL ~ 110fL	≤1.0%
HCT	35% ~ 50%	≤2.0%
PLT	100X10 ⁹ /L ~ 149X10 ⁹ /L 150X10 ⁹ /L ~ 500X10 ⁹ /L	≤5.0% ≤4.0%

LINEARITY

Parameter	Linearity Range	Acceptable Limits (%)
WBC	0.0X10 ⁹ /L ~ 10.0X10 ⁹ /L 10.1X10 ⁹ /L ~ 99.9X10 ⁹ /L 100.0X10 ⁹ /L ~ 300.0X10 ⁹ /L	≤±0.3X10 ⁹ /L ≤±5% ≤±9%
RBC	0.0X10 ¹² /L ~ 1.0X10 ¹² /L 1.01X10 ¹² /L ~ 8.0X10 ¹² /L	≤±0.05X10 ¹² /L ≤±5%
HGB	0g/L ~ 70g/L 71g/L ~ 280g/L	≤±2g/L ≤±2%
HCT	0% ~ 35% 35% ~ 67%	≤±4% (HCT) ±6%
PLT	0.0X10 ⁹ /L ~ 100X10 ⁹ /L 101X10 ⁹ /L ~ 999X10 ⁹ /L 1000X10 ⁹ /L ~ 4000X10 ⁹ /L	≤±10X10 ⁹ /L ≤±10% ≤±11%