

SPECIFICATIONS

Measurement Principle	Nucleic Acid Fluorescence Staining, Flow Cytometry, Tri-angle Laser Scatter Method for WBC 5-Part Differential Analysis and WBC Counting, Impedance Method for RBC and PLT Counting Cyanide Free Reagent for Hemoglobin Test		
Measurement Parameter	24 Reportable Parameters (WBC, RBC, HGB, MCV, MCH, MCH-C, RDW-CW, RDW-SD, HCT, PLT, MPV, PDW, PCT, P-LCR, BASO#, BASO%, NEUT#, NEUT%, EO#, EO%, LYMPH#, LYMPH%, MONO#, MONO%) 4 Research Parameter (IG#, IG%, OTHER#, OTHER%) 4 Graphs (3D Analysis, 3 Histograms)		
Throughput	80 T/H		
Test Mode	CBC / CBC+DIFF		
Sample Type	Whole Blood / Capillary Blood / Pre-Dilution Blood		
Sampling Method	Auto Sampling		
Sample Volume	20 µL		
Reagent	GD-5 (Diluent) LH-5 (HGB Lyse) DD-5 (Fluorescent Dye) LD-5 (DIFF Lyse) CC-5 (Clean Solution)		
Power requirement	100-240V ≤ 250VA, 50/60Hz		
Interface	Support Bi-directional LIS (HL7)		
Dimensions	390*480*530mm		
Weight	55kg		

Parameter	Linearity	Precision	Carryover Rate
WBC	0 99.9×10 ⁹ /L	≤ 4.0% WBC (4.0~10.0 ×10 ⁹ /L)	≤ 3.5
RBC	0 7.00×10 ¹² /L	≤ 2.0% RBC (3.50~5.50×10 ¹² /L)	≤ 2.0
HGB	0 240g/L	≤ 2.0% HGB (110~160g/L)	≤ 2.0
PLT	0 999×10 ⁹ /L	≤ 8.0% PLT (100 ×10 ⁹ /L ~300 ×10 ⁹ /L)	≤ 5.0



ISO 9001:2015
EN ISO 13485:2016



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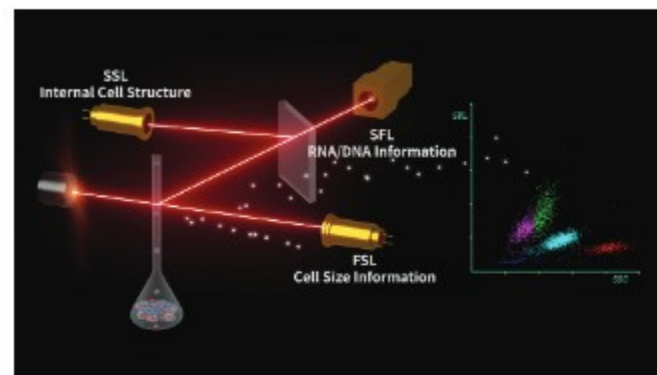
MISPAHX⁵⁸
Automatic 5 Part Hematology Analyzer

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ADL/BR/Mispa HX50 (R01-01/24 Company reserves the right to change any design and technical features of the product at any time, if needed.

Advanced 3rd Generation Technology

Nucleic Acid Fluorescence Staining + Tri-angle Laser Scattering

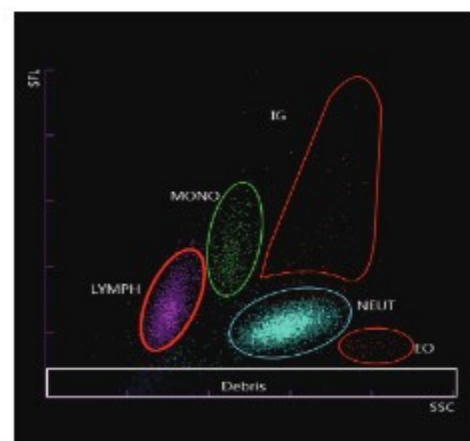


	2 nd Gen Chemical Lysing	3 rd Gen Fluorescent Staining
BASO		
LYMP		
MONO		
Granulocyte (EOS, NEUT)		

The 2nd generation chemical staining reagents will only dye the enzymes/particles in cytoplasm. 3rd generation **Fluorescent Staining** solution will dye DNA or RNA blindly. Different cell has different concentration of DNA or RNA, and hence the depth of dying is different. The more DNA or RNA, the stronger fluorescent signal. Since the nucleic acid is the most specific part of cell, the **3rd Generation** is more sensitive to distinguish different leukocytes, especially the abnormal cells.

Combined with the **3rd Generation Nucleic Acid Fluorescence Staining** technology with flow cytometry, every passing cell in the flow cytometer is detected by three beams of light from three directions to get size, granularity and nucleic acid information simultaneously.

Tri-angle Laser Scattering: FSL (Forward Scattered Light) mainly reflects the size of the cells, SSL (Side Scattered Light) mainly reflects size and number of particle in cells SFL (Side Fluorescence Light) mainly reflects the concentration of nucleic acid.



Excellent Performance

Highly Sensitive to Abnormal Cells

Atypical lymphocyte and Immature Granulocyte (IG) cells have strong nucleic acid fluorescent signal, and hence after fluorescent staining, they are easily detected.

Multi-channels

- Independent Test Channel for Basophils
- Specific DIFF channel, Individual RBC/PLT Channel



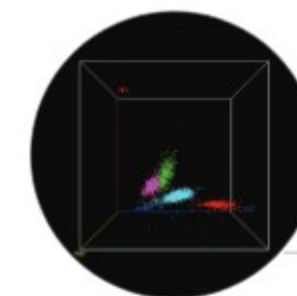
High efficiency

- Through put 80 samples/hour
- Auto-loader with 50 sample position
- Individual STAT position
- Support open/close tube



Ease of use

- Handheld barcode reader for patient & reagent data



3D Scattergram

- Specific 3D scattergram will give clear differential of cell population



Different flags

- Clinical flag
 - 1) Enhanced abnormal cell detection capacity
 - 2) Help diagnosis such, as hypochromic anemia, neutropenia, etc.
- Maintenance flag
 - 1) Powerful debug function
 - 2) One click to remove error

MISPAHX⁵⁸

Automatic 5 Part Hematology Analyzer



Test options

- Mode : CBC, CBC+DIFF
- Sample type : Whole blood, capillary blood, pre-dilution blood
- Auto sample dilution

Easy-to-use software

- Simple daily operation
 - (1) Visual and intuitive software interface
 - (2) Convenient data management
- Easy maintenance
 - (1) One click to remove clog
 - (2) Powerful debug functions

