

**Bridging
with Innovation
with Precision**



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.

MISPA HX⁵⁸
Automatic 5 Part Hematology Analyzer

YOUR BEST PARTNER IN DIAGNOSTICS

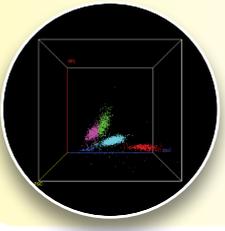


High efficiency

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

Test options

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



3D Scattergram

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

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



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

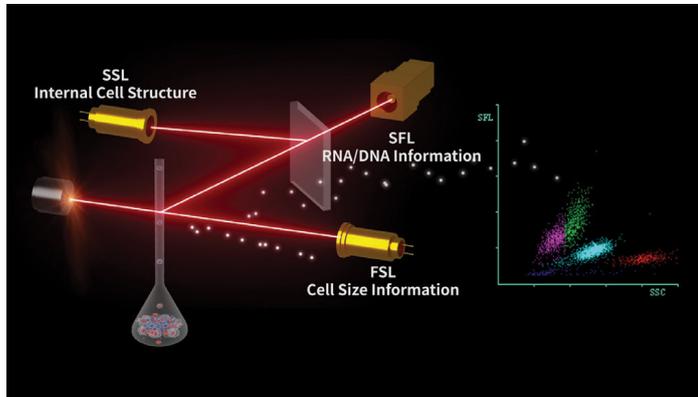
Ease of use

- Handheld barcode reader for patient & reagent data



Advanced 3rd Generation Technology

Nucleic Acid Fluorescence Staining + Tri-angle Laser Scattering

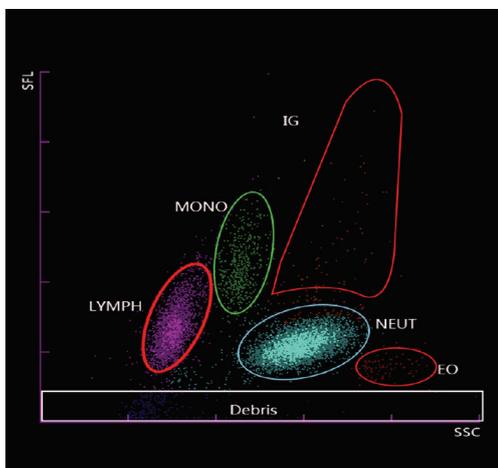


| | 2 nd Gen Chemical Lysing | 3 rd Gen Fluorescent Staining |
|----------------------------|--|---|
| BASO | | |
| LYMP | | |
| MONO | | |
| Granulocyte (EOS, NEUT) | | |

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

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) | DD-5 (Fluorescent Dye) | |
| | LH-5 (HGB Lyse) | CC-5 (Clean Solution) | |
| | LD-5 (DIFF Lyse) | | |
| 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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