

INSTRUMENT INTRODUCTION

| | | |
|----------------------|---|---|
| Detection Technology | Nucleic Acid Fluorescence Staining, Flow Cytometry, Tri-angle Laser Scatter Method for NRBC, RET, IPF and WBC 6-Part Diferential Analysis and WBC Counting Impedance Method for RBC and PLT Counting Cyanide Free Reagent for Hemoglobin Test | |
| Detection Mode | CBC, DIFF, NRBC, RET, PLTF, AWS, SR | |
| Sample Mode | Whole Blood Mode, Low Value Leukocyte Mode, Predilution Mode and Sample Research Mode | |
| Sample Volume | Whole blood mode: 88 µL Predilution mode: 70 µL | |
| Throughput | CBC+DIFF: 100T/H CBC+DIFF+RET: 83T/H CBC+DIFF+RET+PLTF: 47T/H | CBC+DIFF+RET+AWS: 71T/H CBC+DIFF+RET+PLTF+AWS: 47T/H |
| Reporting Parameters | Leukocyte: WBC, NEUT(#,%), LYMPH(#,%), MONO(#,%), EO(#,%), BASO(#,%), IG(#,%) Erythrocyte: RBC, HGB, HCT, MCV, MCH, MCHC, RDW-SD, RDW-CV, NRBC(#,%) Platelets: PLT, PDW, MPV, P-LCR, P-LCC, PCT, IPF Reticulocytes: RET(#,%), IRF, LFR, MFR, HFR, RET-He | |
| Auto Loader | Up to 50 sample position | |
| Dimensions | 670*760*810mm | |
| Weight | 76kg | |
| Power Requirement | 100-240V, ≤ 420VA, 50/60Hz | |
| Interface | Support Bi-directional LIS (HL7) | |

| Parameter | Linearity | Precision |
|-----------|--------------------------------|-----------|
| WBC | 0 ~ 500 x 10 ⁹ /L | ≤ 2.5% |
| RBC | 0 - 8.60 × 10 ¹² /L | ≤ 1.5% |
| HGB | 0 - 260g/L | ≤ 1.0% |
| PLT | 0 ~ 5000 x 10 ⁹ /L | ≤ 4.0% |



ISO 9001:2015
EN ISO 13485:2016



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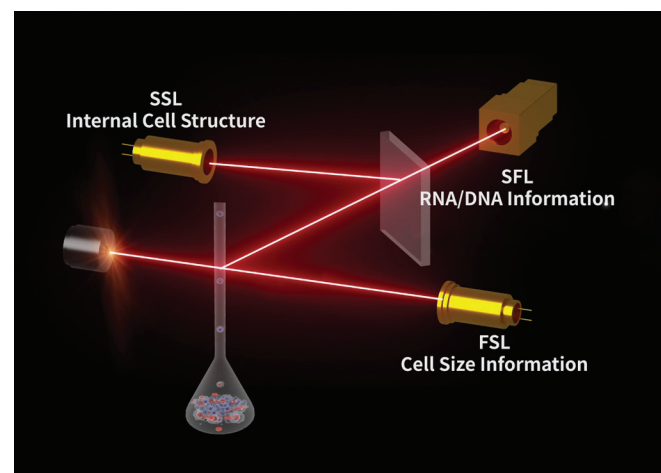
MISPAHX⁸⁸
Automatic 6 Part Hematology Analyzer

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ADL/MispaHX88/R02-01/24 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



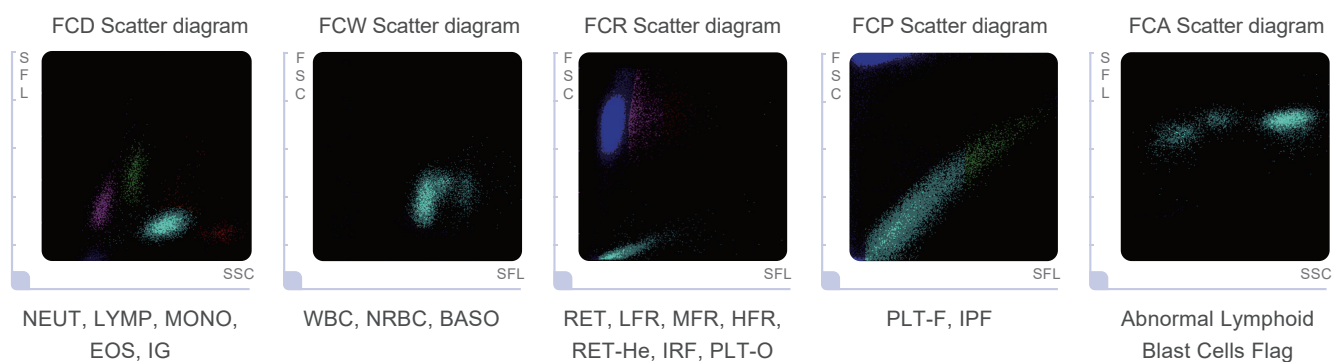
| | 2 nd Gen Chemical Lysing | 3 rd Gen Fluorescent Staining |
|----------------------------|--|---|
| BASO | | |
| LYMP | | |
| MONO | | |
| Granulocyte (EOS, NEUT) | | |
| NRBC | | |
| RBC | | |

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.

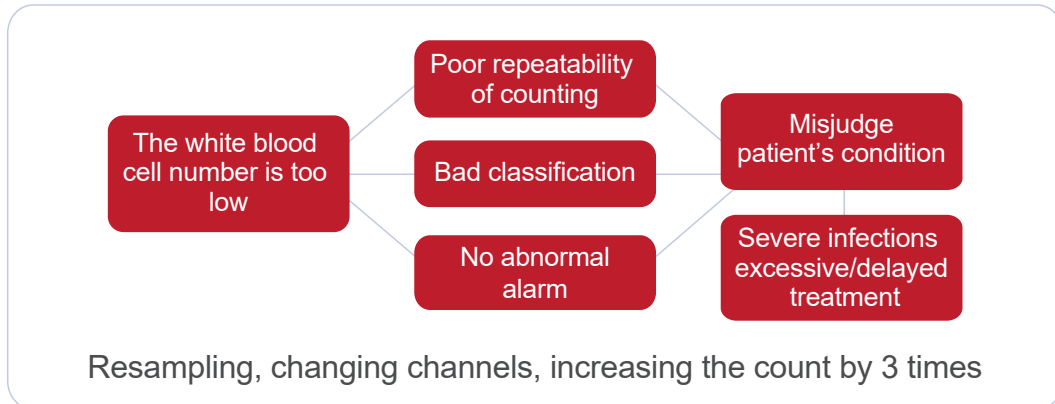
Combined with the **3rd Generation Nucleic Acid Fluorescence Staining** technology with flow cytometry, every passing cell in the flow cytometer is detected by three beams of light from three directions to get size, granularity and nucleic acid information simultaneously.

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.

Multiple channels



LW Mode (Low White Blood Cell)



SR Mode (Sample Review)



Automatic Hematology Analysis line test speed up to 900T/H

Vertical (Cabinet) Assembly Line

Visual reagent management

- Built-in reagent position for dye
- Special loading design: Better separation and much safer



Efficient

- Up to 100T/H (CBC+DIFF)
- Up to 83T/H (CBC+RET)
- Up to 83T/H (CBC+DIFF+RET)
- Up to 47T/H (CBC+DIFF+RET+PLTF)

Auto loader

- 50 position
- Built-in barcode for sample tube
- Automatically rotate and adjust the barcode position for identification



Automatic rerun and reflex

- Return the sample racks for an automatic rerun or reflex check
- Comparative analysis of multiple outcomes in the same patient

