

Hematology Analyzer Z5

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(An evolved 5-diff hematology analyzer)



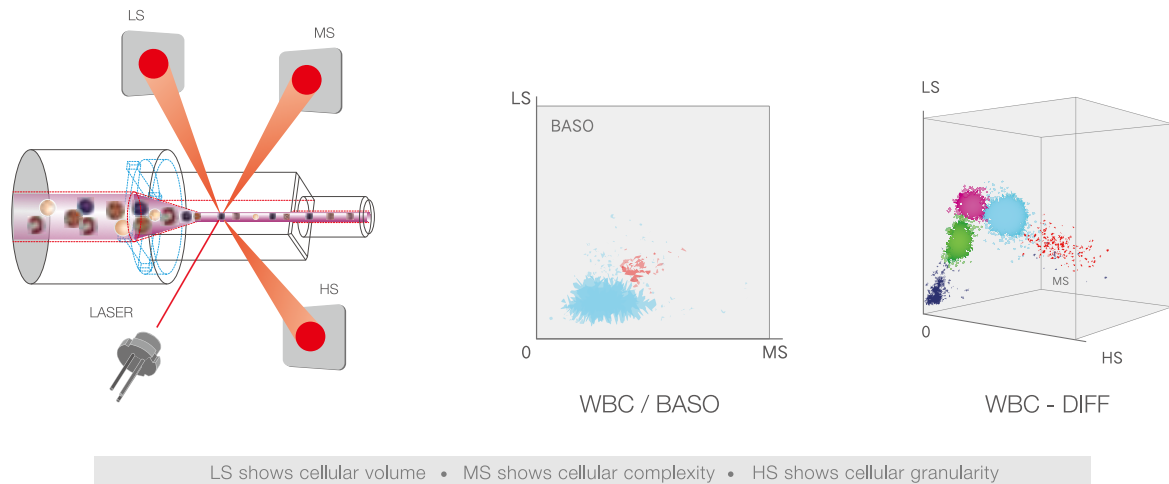
Hematology



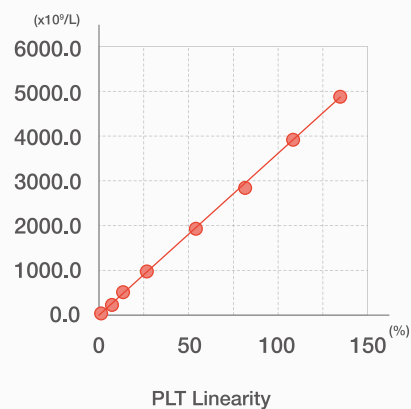
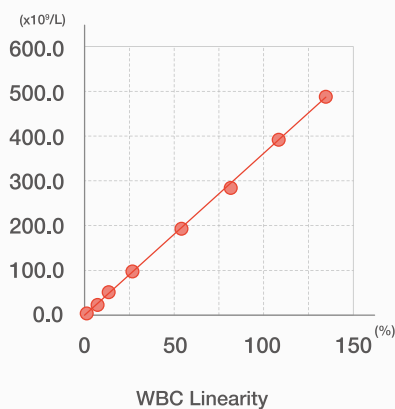
Hematology Analyzer Z5

Z5 is an evolved 5-diff hematology analyzer with compact design that eclipses traditional 5-diff hematology analyzer in the market. It is designed for upgrading your blood analysis solutions, which could provide 29 parameters, 5 scatter-grams and 3 histograms by advanced semiconductor laser scattering technology, flow cytometry and impedance method. This Z5 bring you unpromising performance in medium and satellite laboratory via advanced tri-angle scattering technology, optimal hydraulic system and streamlined operation procedure.

Eclipse traditional 5-diff hematology analyzers



- Bring you better 5 differentiations of WBC via distinctive tri-angle laser scatter, advanced flow cytometry and chemical dye, even on high eosinophilic samples.
- Compared with WBC impedance counting channel, WBC/ BASO optical channel can deliver more confident results for basophil measurement.



- Expanded WBC and PLT linearity range, bring you more accurate result for WBC and PLT result, especially for low values.

Enable all possibilities beyond your expectation

- CBC+ 5 DIFF with 25 reportable parameters and 4 research parameters
- 3 histograms for WBC, RBC and PLT, 2 2D- scattergram and 1 3D-scatter gram for WBC differentiation, and 1 2D- scattergram for WBC/BASO counting.
- Only 18 μ L sample volume is required for venous and capillary whole blood test.
- Only three reagents for CBC + DIFF mode test with optimized liquid handling system, help reduce reagent consumption.
- Only 1 or 2 clicks to access main work-flow interface with intuitive software navigation menu and HD touch screen.

Enlighten small laboratories

- Innovative reaction system, optimized liquid handling systems, small semi-conductor laser source and two lysers built-in, all lead Z5 to a compact device, fit in small-and-middle labs and clinics.
- Support over 30 + intelligent flags to indicate abnormal blood cell differentiation and morphology.
- One press to shutdown and aspirate probe cleanser for deeply cleaning.

Expanded clinical performance

| Performance | | | | | |
|---------------------------|----------------|-----------------|--------------|--------------|-----------------|
| Parameter | Background | Precision | | Carry-over | Linearity range |
| | | Detection Range | CV | | |
| WBC($\times 10^9/L$) | ≤ 0.2 | (3.50~6.90) | $\leq 2.5\%$ | $\leq 0.5\%$ | (0~500.00) |
| | | (7.00~15.00) | $\leq 2.0\%$ | | |
| RBC($\times 10^{12}/L$) | ≤ 0.02 | (3.50~6.00) | $\leq 1.5\%$ | $\leq 0.5\%$ | (0~8.00) |
| HGB(g/dL) | ≤ 0.1 | (11~18) | $\leq 1.5\%$ | $\leq 0.5\%$ | (0~25) |
| HCT(%)/MCV(fL) | HCT ≤ 0.5 | MCV:(70~120) | $\leq 0.5\%$ | / | HCT:(0~67) |
| PLT($\times 10^9/L$) | ≤ 5 | (100~149) | $\leq 6.0\%$ | $\leq 1.0\%$ | (0~5000) |
| | | (150~500) | $\leq 4.0\%$ | | |

Technical Specification

Specification

| | |
|-----------------------|--|
| Principle | Flow cytometry + tri-angle laser scatter+ chemical dye method for WBC 5-diff differential analysis and WBC counting |
| | Impedance method for RBC and PLT counting |
| | Cyanide free reagent for HGB measurement |
| Mode | CBC, CBC+DIFF |
| Throughput | 60 samples per hour |
| Parameters | 25 reportable parameters: WBC, Lym%, Mono%, Neu%, Bas%, Eos%, Lym#, Mono#, Neu#, Bas#, Eos#, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PCT, PDW, P-LCR, P-LCC |
| | 4 research parameters: ALY%, ALY#, LIC%, LIC# |
| | |
| Graph | 3-D DIFF scatter gram |
| | 3 2-D DIFF scatter gram |
| | 2-D BASO scatter gram |
| | 3 histograms for WBC, RBC and PLT |
| Sample Mode | Venous whole blood, Capillary whole blood, Pre-diluted |
| Sample Volume | Venous/Capillary whole blood: 18 µL |
| Reagent | Z5 LD Lyse, Z5 LB Lyse, Z5 DN Diluent, Probe cleanser |
| Calibration | Manual calibration |
| | Auto calibration: Fresh blood, calibrator |
| QC Rule | L-J, X-B |
| Screen | 8,4-inch touch screen |
| Interface | 4 USB port for external printer, external barcode scanner, mouse, keyboard, etc. |
| | 1 network port, HL7 protocol, support bilateral LIS. |
| Storage Capacity | ≥50,000 results including numeric and graphical information |
| Power Supply | (100-240) V~, 50/ 60Hz, 200 VA |
| Operation environment | Temperature: (10-30) °C |
| | Humidity: (20-85) % |
| | Atmospheric Pressure: (70-106) kPa |
| Weight | 25 Kg |
| Dimension (mm) | 230(W)* 435(D)*435 (H) |



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Hematology