YD-H5

5-Part Hematology Analyzer

Fully automated CBC + DIFF for routine hematology

60	≤20 µL	25 + 4	10.4"
samples/hour	sample volume	reported + study	touch screen

A compact benchtop system combining three-angle laser scattering, flow cytometry and electrical impedance, with an integrated touch-screen interface.

Three-angle laser scattering

Semiconductor laser technology supports leukocyte classification.

Flexible sample modes

Venous whole blood, peripheral whole blood and prediluted peripheral blood.

3D cell analysis

Scatter plots and RBC / PLT histograms support result review.

Connected workflow

100,000+ stored results and bidirectional LIS with HL7 support.

YD-H5 / PRODUCT DETAILS

Technical specifications

Analysis mode	CBC + DIFF
Throughput / sample volume	60 samples/hour / ≤20 µL in CBC + DIFF mode
Measurement technology	Semiconductor laser scattering; flow cytometry; 3D scatter analysis; electrical impedance; cyanide-free HGB
Sample modes	Venous whole blood; anticoagulated peripheral whole blood; prediluted peripheral blood
Display	10.4-inch LCD touch screen; 800 × 600 resolution
Result graphics	Two scatter plots; one 3D scatter plot (viewable as two 2D plots); WBC/BASO scatter plot; RBC and PLT histograms
Storage	100,000+ records, including histograms, scatter plots and patient information
Interfaces / LIS	1 network port; 2 USB ports; bidirectional LIS with HL7
Optional features	External USB printer; Wi-Fi connection; built-in RFID reader
Operating environment	10-30 °C; 20-85% humidity; 70-106 kPa; altitude ≤2000 m
Power supply	AC 100-240 V; 50/60 Hz
Dimensions / weight	280 × 470 × 460 mm (W × H × D) / approximately 22 kg

Measurement parameters

25 reported parameters
WBC, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-SD, RDW-CV, PLT, MPV, PCT, PDW, P-LCR, P-LCC, NEU%, LYM%, MON%, EOS%, BAS%, NEU#, LYM#, MON#, EOS#, BAS#

4 study parameters ALY%, ALY#, LIC%, LIC#

Performance

Item	Linear range	Carryover	Repeatability (CV)
WBC	0-100 × 10^9/L	≤0.5%	≤2.0%
RBC	0-8 × 10^{12}/L	≤0.5%	≤1.5%
HGB	0-250 g/L	≤0.6%	≤1.5%
PLT	0-1000 × 10^9/L	≤1.0%	≤4.0%

For professional use. Optional configurations are subject to order confirmation.