

YD-H3

3-Part Hematology Analyzer

Compact blood cell analysis for routine laboratory workflows.


60

samples/hour

21

reportable parameters

≤20 µL

sample volume

Flexible daily operation

Whole blood and predilute modes. Built-in thermal printing, with support for external laser or inkjet printers.

Connected reporting

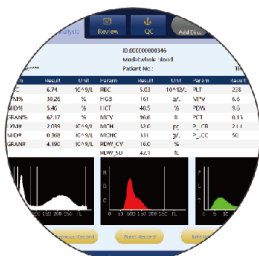
Store up to 50,000 results with histograms. Four USB ports and one LAN port; HL7 protocol support for LIS connectivity.

Simple instrument care

Automatic cleaning and fault-handling functions. A 10.4-inch color touchscreen with a 10° viewing tilt supports routine operation.

YD-H3 / TECHNICAL DETAILS

Built for routine hematology



Clear result display

WBC, RBC and PLT histograms.



Low sample volume

Sampling volume $\leq 20 \mu\text{L}$.



Reagent system

Two routine reagents; cleaning solutions available.

Measurement & operation

Detection principles	Electrical impedance: WBC, RBC and PLT Colorimetric method: HGB
Reported results	21 parameters and 3 histograms; see parameter list below
Display	10.4-inch color LCD touchscreen; 800 × 600 resolution; 10° tilt
Languages	Multilanguage system
Dimensions / weight	280 × 380 × 390 mm / $\leq 18 \text{ kg}$

WBC, LYM#, LYM%, MID#, MID%, GRAN#, GRAN%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P_LCR, P_LCC.

Analytical performance

Parameter	Linear range	Detection range	Precision
WBC	$(1-99.9) \times 10^9/\text{L}$	$(3.5-9.5) \times 10^9/\text{L}$	$\leq 4.0\%$
RBC	$(0.3-7) \times 10^{12}/\text{L}$	$(3.8-5.8) \times 10^{12}/\text{L}$	$\leq 2.0\%$
HGB	20-200 g/L	115-175 g/L	$\leq 1.5\%$
PLT	$(20-999) \times 10^9/\text{L}$	$(125-350) \times 10^9/\text{L}$	$\leq 6.0\%$

Reagents & cleaning solutions

Lyse-HE (B-3LH): 100 / 200 / 500 mL · Diluent (B-DI): 5 / 10 / 20 L

Probe Cleaner: 25 / 50 / 100 mL · E-Z Detergent: 25 / 50 / 100 mL