

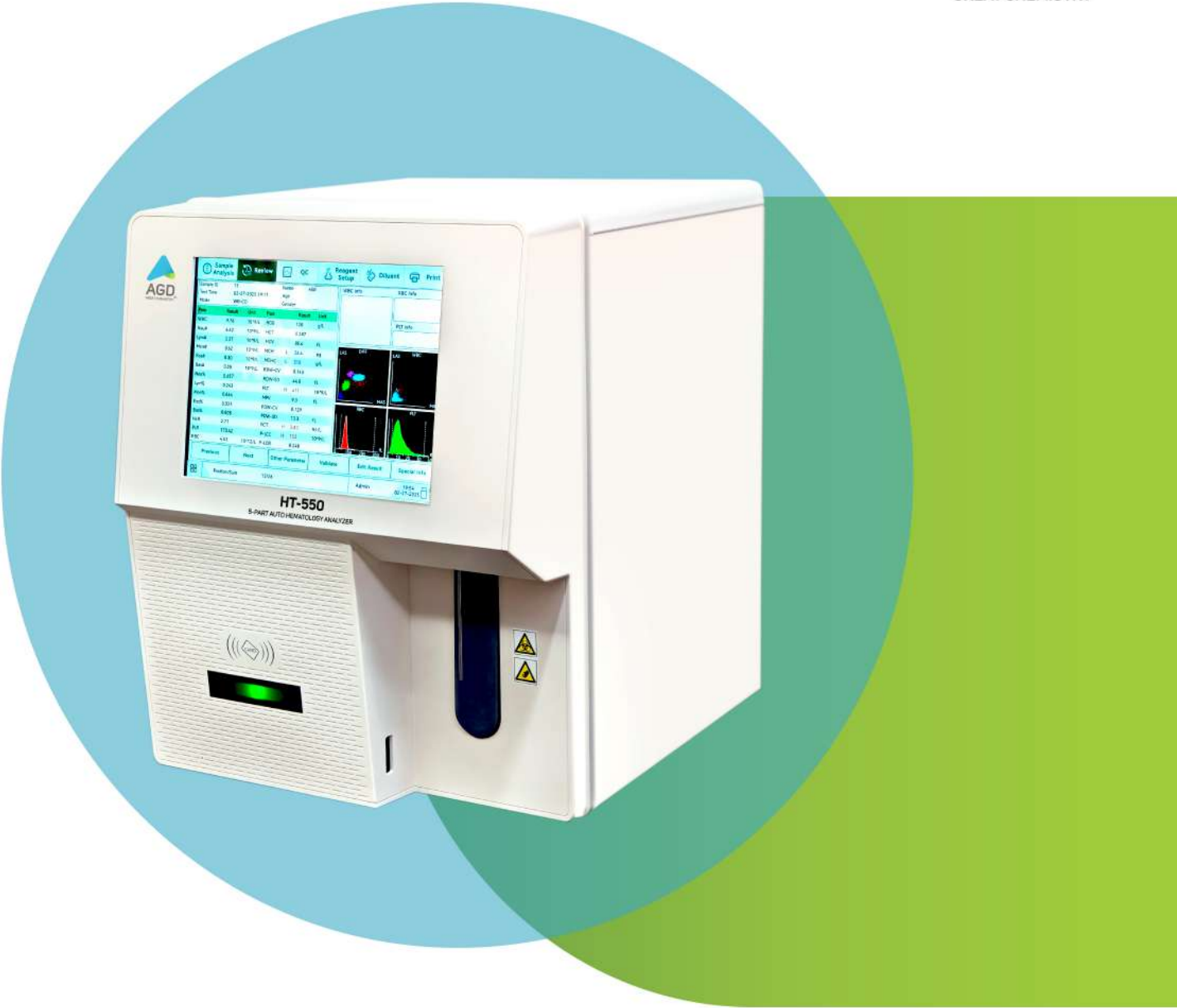
➤Technical Specifications :

Principle	Tri-angle laser scattering, flow cytometry for WBC differentiation and count, Impedance for RBC and PLT count, Cyanide-free method for HGB
Parameters	28 parameters : WBC, LYM%, MON%, NEU%, BAS%, EOS%, LYM#, MON#, NEU#, EOS#, BAS#, RBC, HGB, HCT, MCV, MCH, MVHC, RDW-CV, RDW-SD, PLT, MPV, PDW-CV, PDW-SD, PCT, P-LCR, P-LCC, NLR, PLR 8 research parameters : LIC%, LIC#, ALY%, ALY#, NRBC%, NRBC#, PLT Clumps% PLT Clumps# 2 histograms for RBC and PLT, 4 scattergrams for WBC differential
Throughput	60 samples per hour
Calibration	Manual, auto and fresh blood calibration
Quality control	3 level QC, LJ graph, X-B
Sample volume	CBC + DIFF mode : 20μL Prediluted mode : 20μL
Reagents	3 Reagents (2 Lyses + 1 Diluent) 1 Probe cleanser for maintenance
Printout	Built-in thermal printer Support external printer, PCL6
Maintenance	Sample probe auto-cleaning
Temperature	10°C-30°C
Interface	4 USB ports, 1 Network port, 1 DB9 serial port support bi-directional LIS connection
Blockage clear	High voltage, high pressure flush
Power	AC 100-240V, 50/60±1Hz
Dimension	430(D)x350(W)x430(H)mm
Weight	28Kg
Display	10.4-inch colour touch screen (LCD), Resolution : 800x600
Storage	60,000 sample results with scattergrams and histograms

➤Performance

Parameters	Precision	Parameters	Linearity range
WBC	≤ 2.0% (4.0 - 15.0)x10 ⁹ /L	WBC	(0 - 500.0)x10 ⁹ /L
RBC	≤ 2.0% (3.5 - 6.0)x10 ¹² /L	RBC	(0 - 8.00)x10 ¹² /L
HGB	≤ 2.0% (110.0 - 180.0)g/L	HGB	(0.0 - 250.0)g/L
MCV	≤ 1.0% (70.0 - 120.0)fL	PLT	(0 - 5000)x10 ⁹ /L
PLT	≤ 4.0% (150 - 500.0)x10 ⁹ /L		

Specifications are subject to change without the prior notice of manufacturer



HT - 550
5 - Part Auto Hematology Analyzer

➤ Advanced Technology

Latest innovation

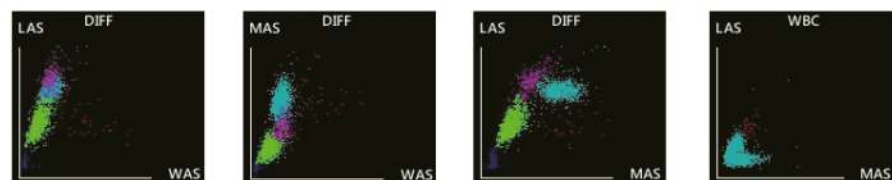
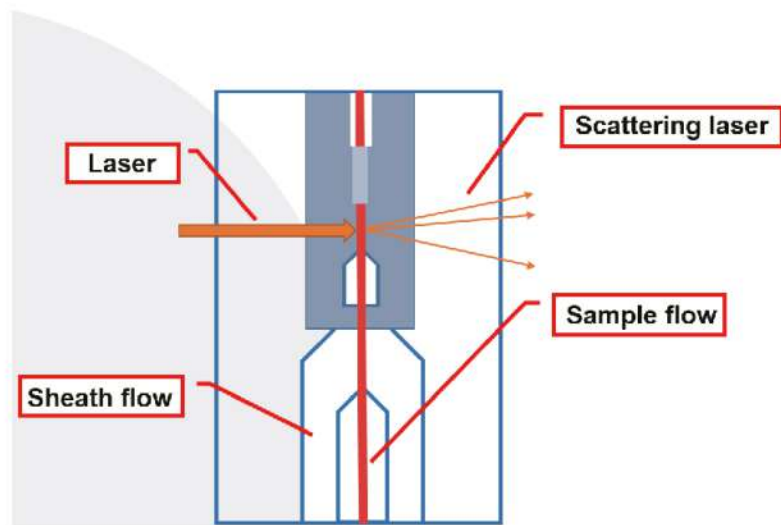
Tri-angle laser scattering and flow cytometry

HT-550 is a real 5-Part auto hematology analyzer. It uses 3 reagents to differentiate and count blood cells.

- UltraDil 5-Diff
- UltraLyse LH
- UltraLyse Diff

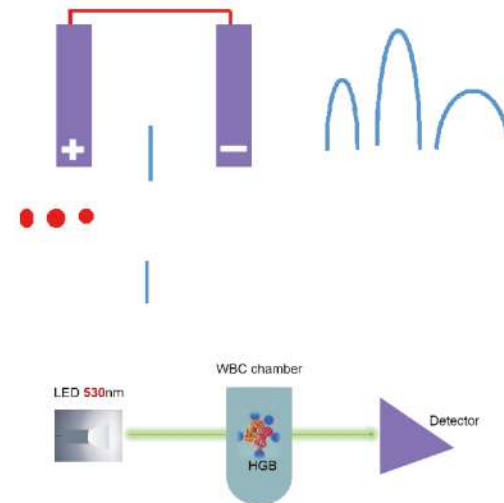
UltraLyse Diff is added to differentiate 4 types of WBC (Lym, Mon, Neu and Eos), and LH lyse is used to differentiate Baso and count WBC. Besides, there is a dedicated channel for Baso differentiation.

Surrounded with sheath fluid (diluent), blood cells pass through the center of the flow cell one by one at high speed. The tri-angle laser scattering contributes to more accurate counting. When passing through the flow cell, blood cells are exposed to a laser beam. The intensity of scatter light reflects the blood cell size and intracellular density. The optical detector receives scatter light signals and converts them into electrical pulses. Pulse data is collected to generate a scattergram.



Proven technology

Impedance and colorimetric



The count principle of the instrument is based on the measurement of changes in electrical resistance produced by a blood cell passing through an aperture sensor. Passing through the magnification circuit, the voltage signal will be magnified, which will be derived into impulses and then analytical histogram will be generated.

After addition of lyse in the blood, the red blood cell will rapidly be broken down and release hemoglobin. Hemoglobin and lyse forms a new mixture, which can absorb the wavelength of 530nm.

The concentration of the sample hemoglobin is calculated by comparing the absorbency between the pure diluent and the sample.

➤ Compact Yet Powerful

◆ Reliable hardware, accurate results

- Long life semi-conductor laser to differentiate WBC into 5 parts
- Ceramic syringe to assure precise reagent or sample aspiration
- Famous liquid parts (SMC valves and KNF pump) and simplified liquid system

◆ Built-in operating system

- No extra PC required
- 10.4-inch touch screen

➤ User - friendly

◆ Powerful date management

- 28 flags for accurate analysis
- Store 60,000 results
- Easy data transmission
- 6 short-cut icons, more efficient

◆ Real-time monitoring

- Automatically monitor reagent status including residual volume and expiry
- Strictly monitor temperature, voltage, pressure and current

◆ Smart maintenance

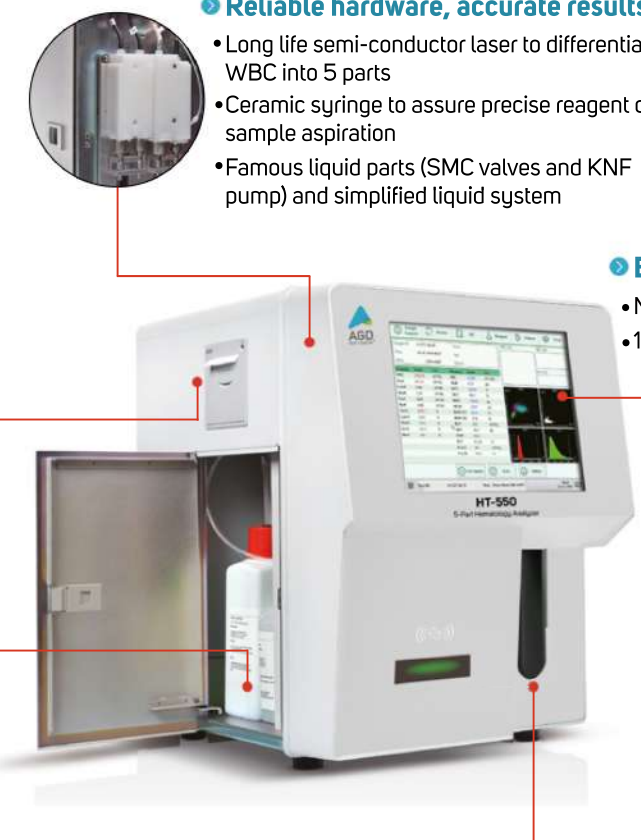
- Easy routine maintenance
- Hardware self-checking
- One-click for basic troubleshooting

◆ Convenient printout solution

- Built-in thermal printer
- Support external printer via USB
- Editable print template

◆ Cost-effective

- 3 reagents (2 Lyse, 1 Diluent) only
- Compartment for Lyse bottle to save space



◆ Built-in barcode scanner (Optional)

- Input patient data automatically
- Easy management for reagents