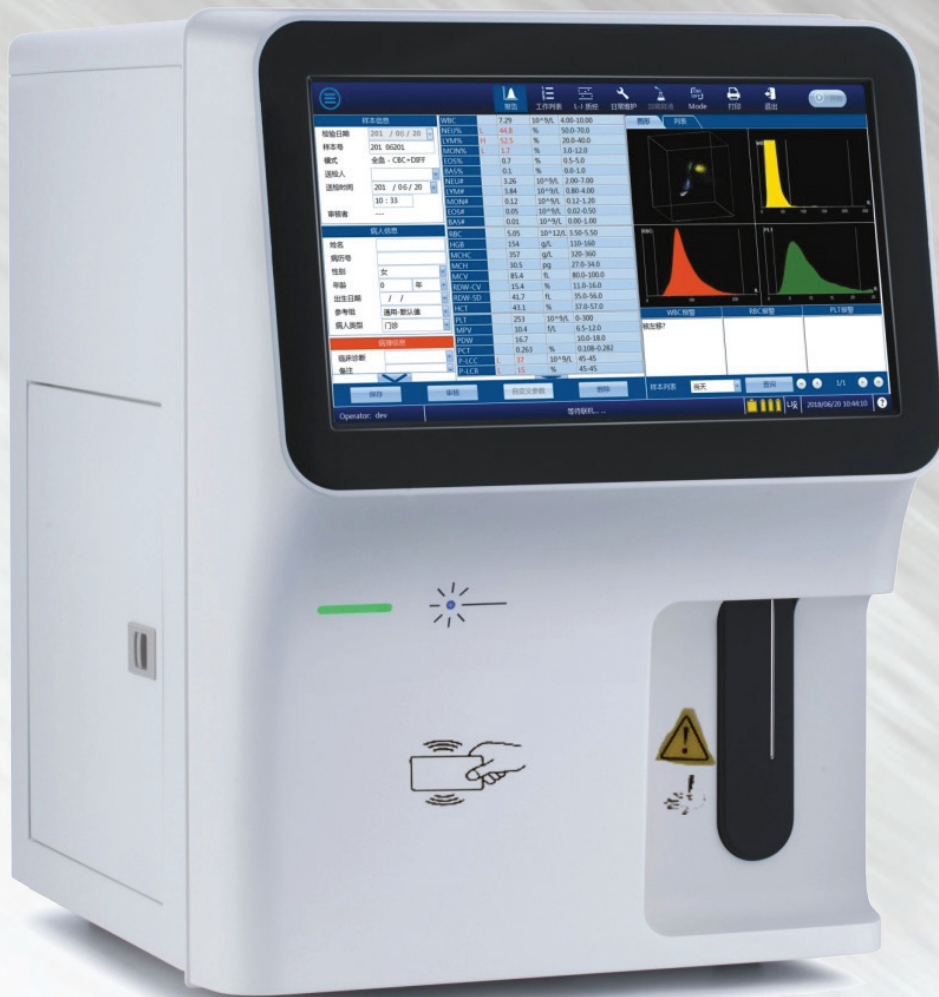




# ES-HEM5500

## 5 Part Auto Hematology Analyzers



LABORATORY



# ES-HEM5500

## 5 Part Auto Hematology Analyzer

### Performance

#### High Stability & Accuracy

- Advanced Sweep-Flow technology guarantees low PLT samples counted precisely.
- Combined with optical and impedance method to make the BASO measurement more reliable and stable.
- Creative SMART-FLOW fluidic technology to makes ES-HEM5500 with good reliability and free of maintenance.

#### User-friendly System

- 14 inch touch screen with high resolution and sensitivity, can be operated by wearing gloves.
- ONE touch to start the test.
- ONE click to remove error.
- ONE screen for most of the daily operation.
- Intelligent turn off power switch.
- Low running cost, only three reagents needed for the test.
- Low reagent consumption for single test.
- Low volume sample consumption.
- CBC+DIFF mode:  $\leq 20\mu\text{l}$ , CBC mode:  $\leq 10\mu\text{l}$ , ideal choice for pediatrics and geriatrics.

Parameter	Linearity Range	Carry Over	CV
WBC	0-300 x 10 <sup>9</sup> /L	$\leq 0.5\%$	$\leq 2.0\%$
RBC	0-8 x 10 <sup>12</sup> /L	$\leq 0.5\%$	$\leq 1.5\%$
HGB	0-250g/L	$\leq 0.5\%$	$\leq 1.5\%$
PLT	0-3000 x 10 <sup>9</sup> /L	$\leq 1.0\%$	$\leq 4.5\%$

### Specification

#### Principle: Tri-angle Laser scatter

- 3D Scattergram analysis
- Flow Cytometry method
- Cyanide free reagent for HGB test
- Impedance method for RBC and PLT counting

#### Parameters: 25 Reportable parameters

- WBC, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-SD, RDW-CV, PLT, MPV, PCT, DW, P-LCR, P-LCC, NEU%, LYM%, MON%, EOS%, BAS%, NEU#, LYM#, MON#, EOS#, BAS#
- n.1 3D Scattergram
- n.3 Histograms ( WBC/BASO, RBC, PLT )
- n.4 Research parameter: ALY%, ALY#, IG%, IG#

#### Throughput: 60 samples per hour

#### Test Mode: CBC mode, CBC+DIFF mode, Venous whole blood, Capillary whole blood and Prediluted

#### Sample Volume: CBC+DIFF mode : $\leq 20\mu\text{l}$ ; CBC mode : $\leq 10\mu\text{l}$



# ES-HEM5500

## 5 Part Auto Hematology Analyzer

### Specification

**Display:** 14 inch touch screen, resolution 1366 x 76

**Storage:** Up to 100,000 results (including histogram, scattergram, patient information)

**Printout:** Support various external USB printers, printout formats user definable

**Communication:** Bi-direction LIS, support HL7 protocol Internal RFID reader

**Interface:** 1 LAN port, 4 USB ports

**External printer:** Available on request

**Working Conditions:** Temperature: 10-30°C  
Humidity: 20% - 85%  
Air pressure: 70~106kPa  
Working latitude:  $\leq 3500m$   
Power supply: AC100-240v, 50/60HZ

**Dimension:** 480 x 375 x 517mm ( L x W x H )

**Weight:** 36Kg (net)

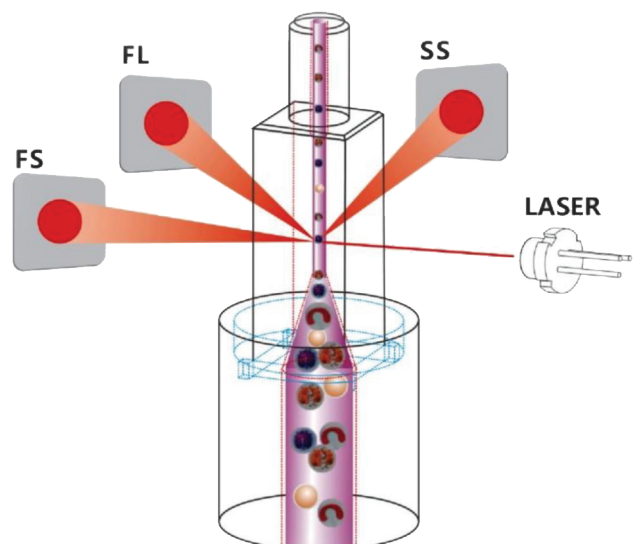
### Tri-angle laser scatter + flow Cytometry + impedance method for WBC

The 5 part differentiation of the white blood cell can be precisely done by collecting the optical signal when WBC pass through the beam.

The front small-angle optical signal can reflect the information of the cell size.

The front large-angle optical signal can reflect the information of nucleus structure and complexity.

The side angle optical signal can reflect the information of granularity complexity.



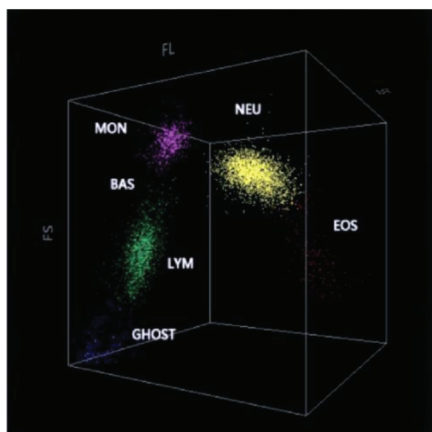


# ES-HEM5500

## 5 Part Auto Hematology Analyzer

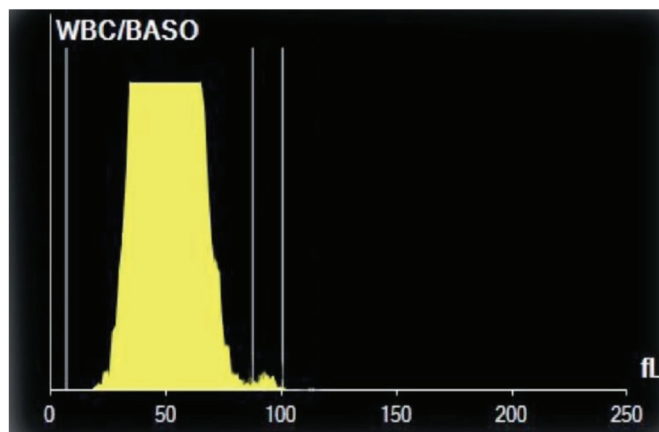
Tri-angle laser scatter + flow Cytometry + impedance method for WBC

### 3D Scattergram



3D holographic scattergram displays the accurate 5 part differentiation of EBC.

### Dual methods for BASO measurement



The first innovative analyzer combined the optical method of BASO (BASO-O) and impedance method of BASO (BASO-I) together, it brings more reliable and stable measurement of BASO pathologic samples and minimized the analysis failure.

## Reagents

### Start-up kits

Diluent 20L

Lyse-1 250ml

Lyse-2 250ml

Probe cleanser 100ml



ESSE3 srl, Via Garibaldi 30  
14022 Castelnovo D.B. (AT)  
Tel +39 011 99 27 706  
Fax +39 011 99 27 506  
e-mail [esse3@chierinet.it](mailto:esse3@chierinet.it)  
web: [www.esse3.dreamgest.com](http://www.esse3.dreamgest.com)

