

# Extraordinary Performance Redefining Throughput

## H80 5-Part Hematology Analyzer

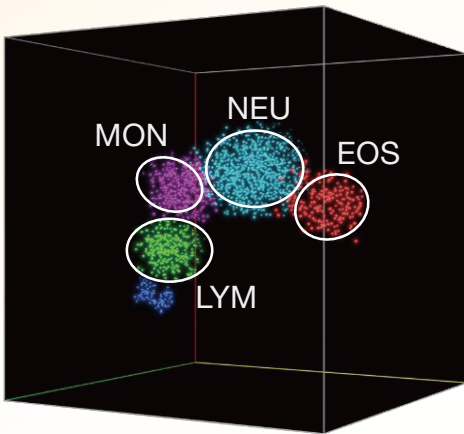


# TRI-ANGLE LASER: MORE ACCURATE, MORE VISUABLE



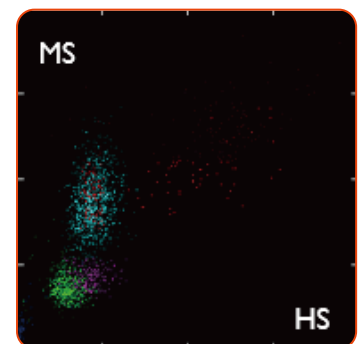
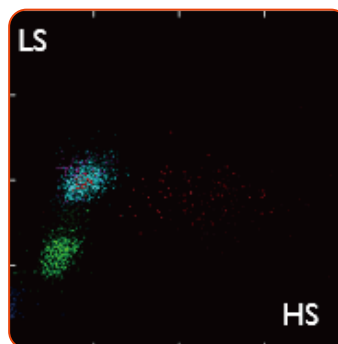
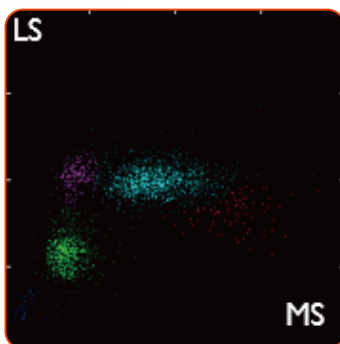
H80 series hematology analyzers utilize the semi-conductor laser technology for WBC differentiation. 3 different angle scatters reflect information of the cells in an all-round way.

- Low scatter (LS, lower than  $10^\circ$ ) reflects cell volume
- Middle scatter (MS,  $10^\circ$  to  $20^\circ$ ) reflects cell complexity
- High scatter (HS, more than  $20^\circ$ ) reflects cell granularity



In 3D scattergram, cell clusters are well separated based on 3 different information. Moreover, the rotating 3D scattergram facilitates the observation of each cell cluster, making the results more reliable for both normal and abnormal samples.

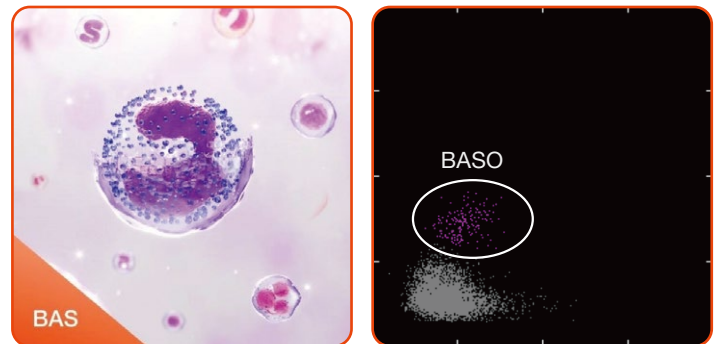
For example, in the abnormal samples and aging samples, eosinophils are often obscured by other normal cells. By using MS in conjunction with HS to observe the contents, granularities and nucleus of cells, 3D scattergram could more accurately differentiate eosinophils.



# COMPREHENSIVE & RELIABLE SCATTERGRAMS FACILITATE DIAGNOSIS

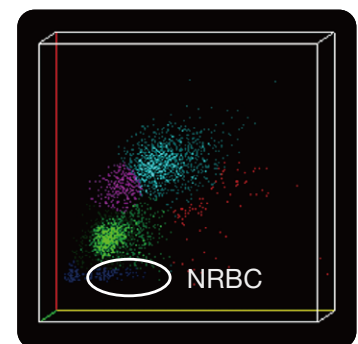
## Dedicated BASO Channel

Basophils are the least numerous cells and are easily masked by other cell clusters, which means that they are the most difficult to detect. H80 series have the dedicated baths and channels to accurately detect basophils. Cell volume and cell complexity can be obtained on the specific basophil scattergram.



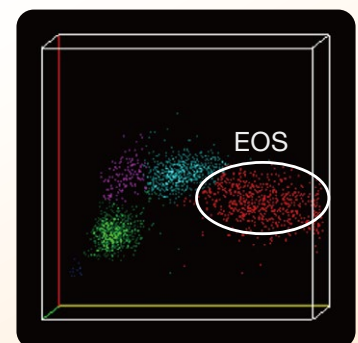
## NRBC Flagging

Nucleated red blood cells (NRBCs) are similar in size to lymphocytes, so misidentification of the two types of cells often occurs and produces erroneous white blood cell (WBC) and lymphocyte counts. The H80 can report numerical NRBC results, avoiding incorrectly elevated WBC and lymphocyte counts due to undetected NRBCs.



## Eosinophilia Performance

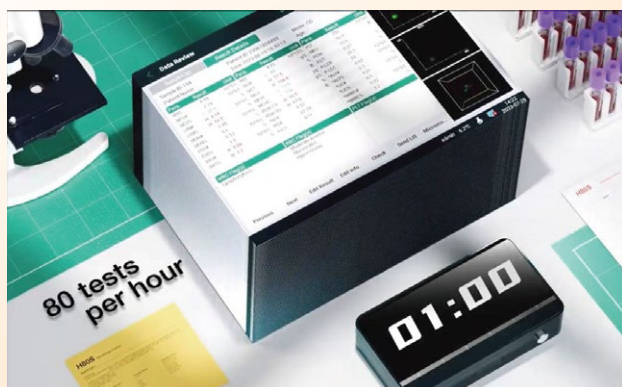
Eosinophils are significantly elevated during bacterial or parasitic infections. Combined with laser technology and 3D scattergram, the H80 can easily handle high eosinophilic samples.



# INGENIOUS DESIGN THAT SIMPLY YOUR PROCESS

12.1 inch colorful  
touch screen

Reagent management  
via RFID card



80 samples/hour



Cost effective reagents

3 routine reagents with a remarkable two-year  
shelf life and 90-day on-board stability.



23  $\mu$ L test volume

## Intuitive Operation System

User-oriented interface with  
12.1 inch color touch screen

## Excellent Technology

Tri-angle laser identifying WBC,  
providing comprehensive graphs



## High Throughput

80 samples per hour

## Cost-effective Solution

3 routine reagents are  
needed to minimize the cost



## Specification

Parameters		
25 reportable parameters:	WBC, LYM%, LYM#, MON%, MON#, NEU%, NEU#, EOS%, EOS#, BAS%, BAS#, RBC, HGB, HCT, MCV, RDW-CV, RDW-SD, MCH, MCHC, PLT, MPV, PCT, PDW, P-LCR, P-LCC	
9 research parameters:	ALY%, ALY#, LIC%, LIC#, NRBC%, NRBC#, NLR, PLR, MLR	
3 histograms:	WBC, RBC, PLT	
4 2D scattergrams:	3*DIFF, 1*BASO	
1 3D scattergram:	DIFF	
Performance		
Parameter	Linearity Range	Precision ( CV% )
WBC (10 <sup>9</sup> /L)	0.0-500.0	≤3.0% (3.50-7.00) ≤2.5% (7.01-15.00)
RBC (10 <sup>12</sup> /L)	0.0-8.5	≤1.5% (3.5-6.5)
HGB (g/L)	0-250	≤1.5% (100-180)
PLT (10 <sup>9</sup> /L)	0-5000	≤5.0% (100-500)
HCT	0%-67%	≤2.0% (35%-50%)
MCV (fL)		≤1.0% (70-120)
Principles		Throughput
Semiconductor laser flow cytometry analysis for WBC, DIFF, and BASO counting		80 samples per hour
Electrical impedance method for RBC, PLT counting		Interface
Cyanide-free reagent for HGB with colorimetric method		12.1 inch colorful touch screen
Sample Volume		Control and Calibrator
Whole blood mode	23 μL	ED-60D, ED-CAL PLUS
Capillary whole blood mode	23 μL	Data Storage Capacity
Pre-diluted mode	20 μL	100, 000 results including results and histograms 60 QC files (100 data per file)
Reagent		Dimension and Weight
HD600 Diluent 20L		330mm(W)*570mm(D)*520mm(H) Weight: 32.8 KG
HL610, HL620 Lyse 500mL/1000mL		
HC310/HC600 Cleaner 50mL		
Operating Environment		
Temperature: 15°C~32°C; Humidity: 30% RH~85% RH; Air pressure: 70 kPa~106 kPa		

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