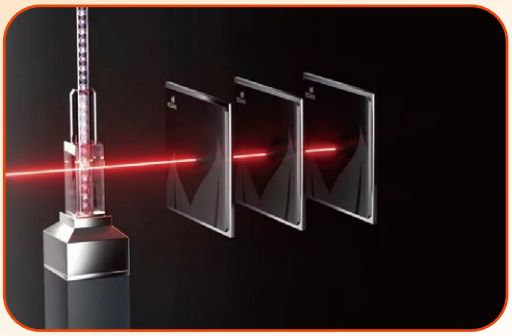
# Extraordinary Performance
# Redefining Throughput

# H80S 5-Part Hematology Analyzer

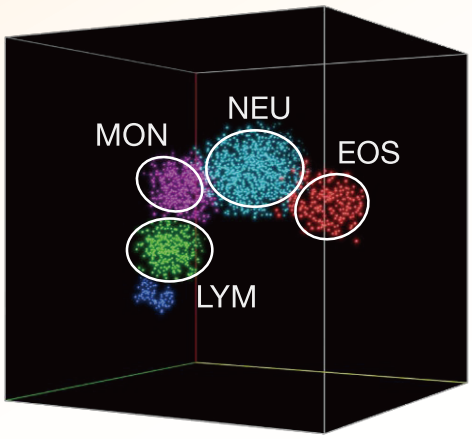

EDAN

# TRI-ANGLE LASER:
# MORE ACCURATE, MORE VISUABLE



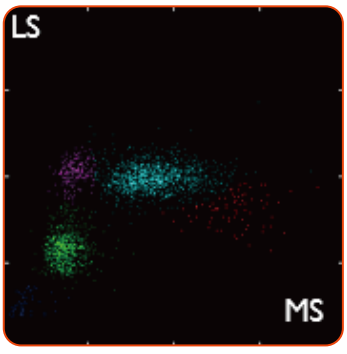
H80 series hematology analyzers utilize the semi-conductor laser technology for WBC differentiation. 3 different angle scatters reflect information of the cells in an all-round way.

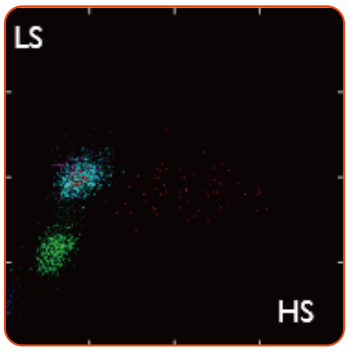
- Low scatter (LS, lower than 10°) reflects cell volume
- Middle scatter (MS, 10° to 20°) reflects cell complexity
- High scatter (HS, more than 20°) reflects cell granularity

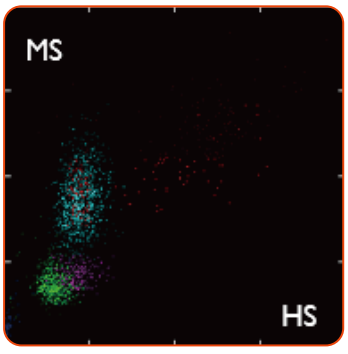



In 3D scattergram, cell clusters are well separated based on 3 different information. Moreover, the rotating 3D scattergram facilities the observation of each cell cluster, making the results more reliable for both normal and abnormal samples.

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.



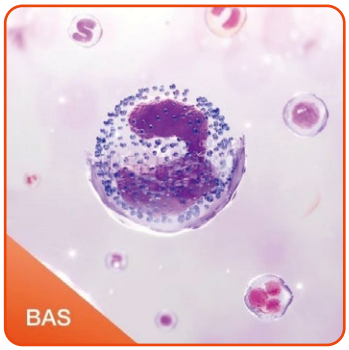



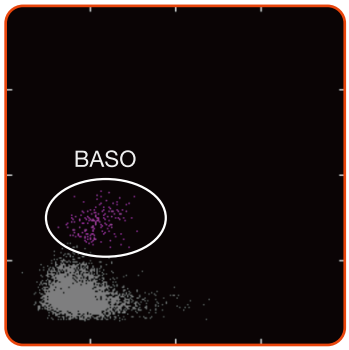



# COMPREHENSIVE & RELIABLE SCATTERGRAMS FACILITATE DIAGNOSIS

## Dedicated BASO Channel

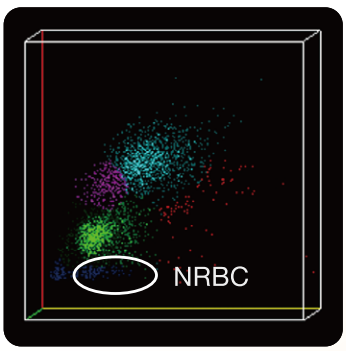
Basophils are the least numerous cells and are easily masked by other cell clusters, which means that they are the most difficult to detect. H80 series have the dedicated baths and channels to accurately detect basophils. Cell volume and cell complexity can be obtained on the specific basophil scattergram.



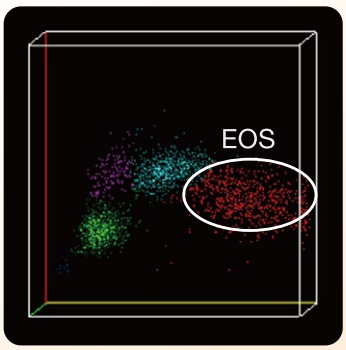

## NRBC Flagging

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

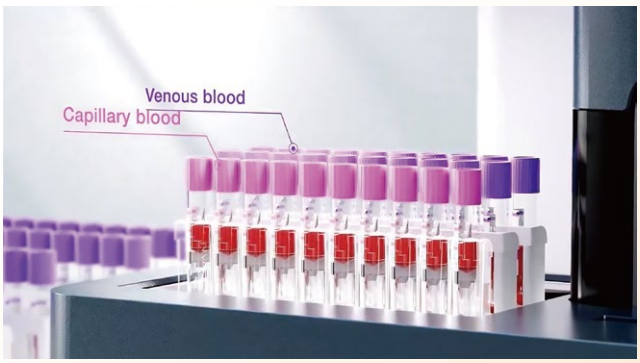
Eosinophils are significantly elevated during bacterial or parasitic infections. Combined with laser technology and 3D scattergram, the H80 can easily handle high eosinophilic samples.

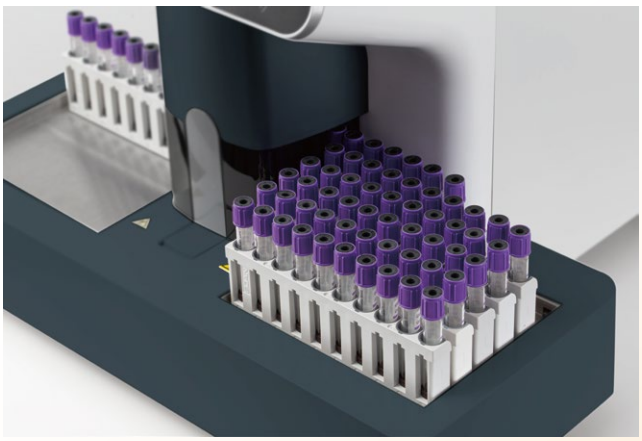


# INGENIOUS DESIGN THAT SIMPLY YOUR PROCESS

Versatile loading capacity

Continuous loading and testing of both venous and capillary blood.



80 samples/hour

Unleash the power of auto sampling module up to 80 samples per hour.

Cost effective reagents

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


Auto mixing of micro volume

Effortless mixing, simplified process, giving a smoother user experience.

STAT position

STAT port delivers emergency lab tests with speed and accuracy.

## Intuitive Operation System

User-oriented interface with
12.1 inch color touch screen

## High Throughput

80 samples per hour with
continuous loading


## Excellent Technology

Tri-angle laser identifying WBC

## Bionic Mixing Technology

Supporting auto bionic mixing
of micro blood

## Capillary Tube Loading

Supporting continuous loading
of capillary blood tubes

# 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 ($10^9$/L) | 0.0-500.0 | ≤3.0% (3.50-7.00)<br>≤2.5% (7.01-15.00) |
| RBC ($10^{12}$/L) | 0.0-8.5 | ≤1.5% (3.5-6.5) |
| HGB (g/L) | 0-250 | ≤1.5% (100-180) |
| PLT ($10^9$/L) | 0-5000 | ≤5.0% (100-500) |
| HCT | 0%-67% | ≤2.0% (35%-50%) |
| MCV (fL) | | ≤1.0% (70-120) |

## Principles

Semiconductor laser flow cytometry analysis for WBC, DIFF, and BASO counting
Electrical impedance method for RBC, PLT counting
Cyanide-free reagent for HGB with colorimetric method

## Sample Volume

| | |
|---|---|
| Whole blood mode | 23 μL |
| Capillary whole blood mode | 23 μL |
| Pre-diluted mode | 20 μL |

## Reagent

HD600 Diluent 20L
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

## Throughput

80 samples per hour

## Interface

12.1 inch colorful touch screen

## Control and Calibrator

ED-60D, ED-CAL PLUS

## Data Storage Capacity

100, 000 results including results and histograms
60 QC files (100 data per file)

## Dimension and Weight

570mm(W)*710mm(D)*595mm(H)
Weight: 48 KG

EDAN
A world of potential

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