

# Hematology Analyzer H3800



## Features

**Throughput:** 60 samples/hour

**Touch screen:** 10.4 inch.

**Detection Channel:** Dual-channel for counting

**Storage:** 50,000 sample results, including parameter, histogram and patient information.

3 histograms, alarm for abnormal erythrocytes, leukocyte and platelet.

**Sample Volume:** Whole blood 9  $\mu$ L, Prediluted 20  $\mu$ L

**Counting modes:** Venous whole blood, capillary whole blood and pre-diluted.

**Input/output:** 4 USB ports and Bi-directional LIS connection.

**Printout:** Available for thermal printer and USB external printer, various types of printer. Multiple print templates available

**Language:** English, Chinese, French, Russian, Spanish, Portuguese

## Technical specification

### Parameters

The detection items include 21 parameters: report parameters (WBC, Lym#, Mid#, Gran#, Lym%, Mid%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCR, and P-LCC), 3 histograms, alarm for abnormal erythrocytes, leukocyte and platelet.

### Principles

Pulse baseline tracking technology  
Waveform discrimination technology  
Intelligent floating threshold technology

### Performance

Parameters	Repeatability	Linearity range:	Carryover
WBC	≤2.0%	(0.00-300.00)X10 <sup>9</sup> /L	≤ 0.5%
RBC	≤1.5%	(0.00-8.50)X10 <sup>12</sup> /L	≤ 0.5%
HGB	≤1.5%	(0-250) g/L,	≤ 0.5%
PLT	≤4.0%	(0-3000)X10 <sup>9</sup> /L	≤ 0.5%
MCV	≤1.0%	0.0-67.0%	≤ 1.0%

Parameter (testing range)	Whole blood precision (CV)	Pre-diluted precision (CV)
WBC (7 - 15.0 x 10 <sup>9</sup> /L)	≤ 2.0%	≤ 4.0%
RBC (3.5 - 6.0 x 10 <sup>12</sup> /L)	≤ 1.5%	≤ 3.0%
HGB (110 - 180 g/L)	≤ 1.5%	≤ 3.0%
MCV (70 - 120 fL)	≤ 1.0%	≤ 2.0%
PLT (150 - 500 x 10 <sup>9</sup> /L)	≤ 4.0%	≤ 8.0%

**Operation environment:** Temperature 10°C to 30°C; relative humidity ≤ 85%

**Power supply:** 100V-240V; 50/60Hz

**Dimension:** 364mm(L) x417mm(W) x 477mm(H)

**Net weight:** ≤ 25KG



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