

# H30 Hematology Analyzer

## Specifications

### Parameters

20 parameters: WBC, LYM%, MID%, GRA%, LYM#, MID#, GRA#, RBC, HGB, HCT, MCV, MCH, MCHC, RDW, RDW-SD, PLT, MPV, PDW, PCT, P-LCR

Histograms: WBC (3-Diff), RBC and PLT

Performance	Parameter	Linearity Range	Precision ( CV % )
	WBC (10 <sup>9</sup> /L)	0.2-100	≤2.5%( 3.5~9.5 )
	RBC (10 <sup>12</sup> /L)	0.02-8	≤2.0%( 3.8~5.8 )
	HGB (g/L)	1-240	≤1.5%( 115~175 )
	MCV (fL)		≤1.0%( 82~100.0 )
	PLT (10 <sup>9</sup> /L)	10-2000	≤5.0%( 125~350 )
	HCT (%)		≤2.0%( 35~50 )

### Principles

Electrical impedance method for cell counting and cyanide free lyse for hemoglobin measurement

### Throughput

60 samples per hour

### Sample Volume

9.6µL for whole blood mode ; 20µL for predilution mode

### Control and Calibrator

ED-30D, ED-CAL PLUS

### Reagent

HD300 Diluent, HL300 Lyse, HC300 Cleaner, HB300 Bleach

### Display

10.4 inch TFT color touch screen

### Data Storage Capacity

35,000 files including demographics, results and histograms, 12 QC files (100 data per file)

### Interface

5 x USB Port, LAN

### Operating Environment

Temperature: 18°C~32°C ; Humidity: ≤80%

### Input Device

Built-in virtual keyboard and external barcode scanner

### Power Supply

100V-240V, 50Hz/60Hz

### Dimensions and Weight

Depth (406 mm) x Width (275 mm) x Height (430 mm) ; Weight: 12kg



# The Right 3-Part

# H30

Hematology Analyzer



## About Edan

Edan is a healthcare company dedicated to improving the human condition around the world by delivering value-driven, innovative and high-quality medical products and services. For over 20 years, Edan has been pioneering a comprehensive line of medical solutions that address a broad range of healthcare practices including:

- Diagnostic ECG
- Patient Monitoring
- OB/GYN
- Ultrasound Imaging
- Point-of-Care Testing
- *In-Vitro* Diagnostics
- Veterinary

Healthcare professionals around the world depend on Edan's breakthrough medical technologies and outstanding customer support.



A world of potential

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A world of potential

# H30 The Right 3-Part

- Small sample volume makes it ideal for pediatric samples
- Small reagent consumption with highest reagent efficiency
- Minimum maintenance requirement and difficulty ever
- Excellent performance with satisfying reliability and stability



## Less Reagent Consumption

- At least 50% less reagent consumption
- Higher efficiency on diluent
- 9.6 µL blood aspiration
- Reagent consumption is a very sensitive issue to end-user side. Cost per test is subject to reagent consumption on each cycle as well as on maintenance, for profit-wise, higher reagent, efficiency comes with higher profit per test.

## Minimum Maintenance

- Maintenance for analyzers between different system platforms and brands differ variably.
- Daily, weekly, monthly and annually maintenance is the popular maintenance requirements.
- But we, only require for weekly and annually base maintenance, which is also an extremely simple and cost effective maintenance list.

Maintenance Period	Maintained by customer	Maintained by Field Service Engineer
Weekly	Bleach cycle	--
Monthly	None	None
Quarterly (3900 cycles)	None	None
Biannually (7800 cycles)	None	None
Annually (15600 cycles)	None	Needle o-ring Piston greasing
Three years (46800 cycles)	None	Syringes block and pistons exchange

## Outstanding Flagging System

Test result provides two type of alarms—both Pathology and Morphology. The exclusive feature, only we can support such detailed and outstanding flagging system.

### Morphologic alarms

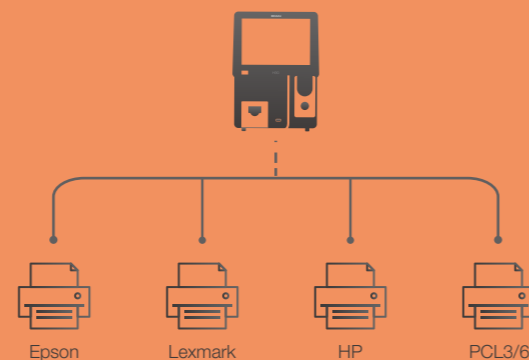
	L3	L2	L3	L5	R1	R2	P1	P2	P3
Suspicion: Incomplete erythrolysis									
Review on smear presence of:									
Erythroblasts/platelet aggregates/small lymphocytes	X								
Suspicion: Monocytosis									
Review on smear presence of:									
Atypical Lymphocytes/Eosinophils/Blasts		X							
Suspicion: Eosinophilia									
Review on smear presence of:									
Monocytes/Myelocytes/T-ragile neutrophils (altered sample)			X						
Immature cells				X					
Microcytes					X				X
Macrocytes						X			
Platelet debris							X		
Schistocytes								X	

### Pathological alarms

RBC	WBC	PLT
Erythrocytosis (Polycythemia)	Leukocytosis	Thrombocytosis
Anemia	Leukopenia	Giant platelets / Macrothrombocytosis
Anisocytosis	Lymphopenia	Small platelets
Microcytosis	Neutrophilia	Microcytes
Macrocytosis	Neutropenia	Schistocytes
Hypochromia	Eosinophilia	Platelet Debris
	Monocytosis	
	Large Immature Cells	

## Flexible System Expandability

- More compatible external printer
  - Epson\_M100/105/200/205
  - Lexmark\_CS310 / MS410
  - HP LaserJet\_P1102/1106/1108
  - PCL 3/6 protocol
- 5 USB ports for data transmission, printer, barcode scanner and external keyboard
- LIS/HIS connectivity



## Intelligent Internal Structure

- Life-time tubing – do not have to be touched ever
- Modular design – lower maintenance difficulty
- There is no high-voltage anywhere in the system
- Liquids are separated from electronics
- Valves are easy to reach

