



3 part differential automatic hematology system

- Large color LCD touch-screen for ease of use
- 16 parameters
- 60 samples per hour
- 10 μ L sample size (whole blood) + pre diluted mode
- User-friendly operator interface
- Data management stores up to 1000 sample records and QC statistics
- User-interface with multi-language capability
- Low reagent consumption



Background

Drew Scientific has been making leading edge and top quality CBC systems for over 15 years. The Drew3 is the latest innovative offering.

Drew3 operation

All operations are controlled via the large touch screen. This includes start-up and shut-down, run samples, datalog, QC, calibration, maintenance and auxiliary functions.

Four different operator levels are possible including Lab Manager and Lab Tech. Operators are logged at start-up or when a new operator takes over.

Reporting

The Drew3 reports the following

parameters: WBC
Lymph#, Gran#, Mids#
Lymph%, Gran%, Mids%

RBC, Hgb, Hct, MCV, MCH, MCHC, RDW, Plt, MPV.

The system also displays an on-screen three histogram WBC, RBC and PLT.

Throughput

The instrument has a throughput of 60 samples per hour in direct sampling mode.

Sample handling

Patient ID, Sample ID can be entered alpha-numerically. Blood samples must be collected into EDTA tubes. The Drew3 uses the following blood volumes:

Direct mode:

10µL whole blood.

Prediluted/Capillary:

25µL into 0.5ml of diluent using a built in diluent dispenser.

Up to 1000 sample results can be stored on the system and results can be backed up on a USB key (flash disk) device.

Reagents

A compact 3 reagent pack is provided. Packs are coded with lot number and expiry date to give full traceability.

QC

Six controls levels, 3 months each. Assay values can be entered via the keypad or loaded from a USB key. Automatic calculation of mean, SD and CV% (possible to reject bad samples). Levey Jennings plot per level. It is possible to upload results to USB key for peer to peer analysis.

Ordering Information

Drew3 INSTRUMENTATION	
BAS-9001-181	Drew3 Hematology system
Drew3 CONSUMABLES	
Drew3-PAC	Reagent Pack (360 cycles)
QUALITY CONTROL	
EXA-326	EX-TROL tri-level (L,N,H 6x2.5ml of each)
EXA-346	EX-TROL tri-level (L,N,H 6x4.5ml of each)
EXA-25L	EX-TROL Low (1x2.5ml)
EXA-25N	EX-TROL Normal (1x2.5ml)
EXA-25H	EX-TROL High (1x2.5ml)
EXA-1825N	EX-TROL Normal (18x2.5ml)
EXA-45L	EX-TROL Low (1x4.5ml)
EXA-45N	EX-TROL Normal (1x4.5ml)
EXA-45H	EX-TROL High (1x4.5ml)

SPECIFICATIONS	
Display	Color LCD touchscreen (640 x 480) with backlight
Barcode (option)	Barcode Reader C39/Barcode/2 interleaved 5
Connections	RS232C, Ethernet (TCP/IP, UDP/IP)
Memory Capacity	1000 records (Demographics, results and histograms)
QC	6 levels (100 files per level)
Dimensions	Height : 13.88 in. (approx. 352mm) Width : 12.63 in. (approx. 320mm) Depth : 14.50 in. (approx. 368mm)
Weight	Approx 21 lbs (9.5 kg)
Power supply Input	24V - 3A DC
Electric consumption	In cycle : 30 VA (-30% +10%) Standby : 20 VA (-30% +10%) Maximum : 50 VA (-30% +10%)
General	Operating temperature: 18 to 32°C (64 to 90°F)
Relative Humidity	80% maximum at 32°C (90°F)
Storage Temperature	-10 to 50°C (14 to 122°F)

PHYSICAL			
Precision:	Level	Units	CV
WBC	>6.0	x thousand cells/µL	<2.5%
RBC	>4.0	x million cells/µL	<2.0%
Hgb	>12	g/dL	<1.5%
MCV	>80.0	fL	<1.0%
Plt	>200	x thousand cells/µL	<5.0%
Linearity:	Range	Units	Linearity (whichever greater)
WBC	0.6 to 100	x thousand cells/µL	± 0.4 or ± 4%
RBC	0.25 to 8.0	x million cells/µL	± 0.07 or ± 3%
Hgb	0.6 to 24	g/dL	± 0.3 or ± 2%
MCV	45 to 150	fL	± 1.0 or ± 3%
Plt	10 to 2000	x thousand cells/µL	± 8 or 5%

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