



## 3 part differential automatic hematology system

- Large color LCD touch-screen for ease of use
- 16 parameters
- 60 samples per hour
- 10 $\mu$ 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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