

# Drew-3

## 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



**Drew Scientific, Inc.**

4230 Shilling Way Dallas, TX 75237 USA  
Tel 800-433-0945 or 214-210-4900 | Fax 214-210-4949  
[www.drew-scientific.com](http://www.drew-scientific.com) | [productsusa@drew-scientific.com](mailto:productsusa@drew-scientific.com)

## BACKGROUND

Drew Scientific has been making leading edge and top quality CBC systems for over 15 years. The Drew-3 is the latest innovative offering.

## 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.

## REAGENTS

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

## QUALITY CONTROL

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.

## REPORTING

The Drew-3 reports the following parameters:

WBC

Lymp#, Gran#, Mids#

Lymp%, 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 alphanumerically. Blood samples must be collected into EDTA tubes. The Drew-3 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.

## SPECIFICATIONS

Display Color LCD Touch Screen (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)

<u>Precision</u>	<u>Level</u>	<u>Units</u>	<u>CV</u>
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%
<u>Linearity</u>	<u>Range</u>	<u>Units</u>	<u>Linearity (whichever greater)</u>
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%

## ORDERING INFORMATION

### Instrument

BAS-9001-181 Drew-3 Hematology system

### Consumables

D3-PAC Drew-3 Reagent Pack (300 samples)

### 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)



**Drew Scientific, Inc.**

4230 Shilling Way Dallas, TX 75237 USA  
Tel 800-433-0945 or 214-210-4900 | Fax 214-210-4949  
www.drew-scientific.com | productsusa@drew-scientific.com