



RELIABILITY AND

*Performance*

*When it Counts*

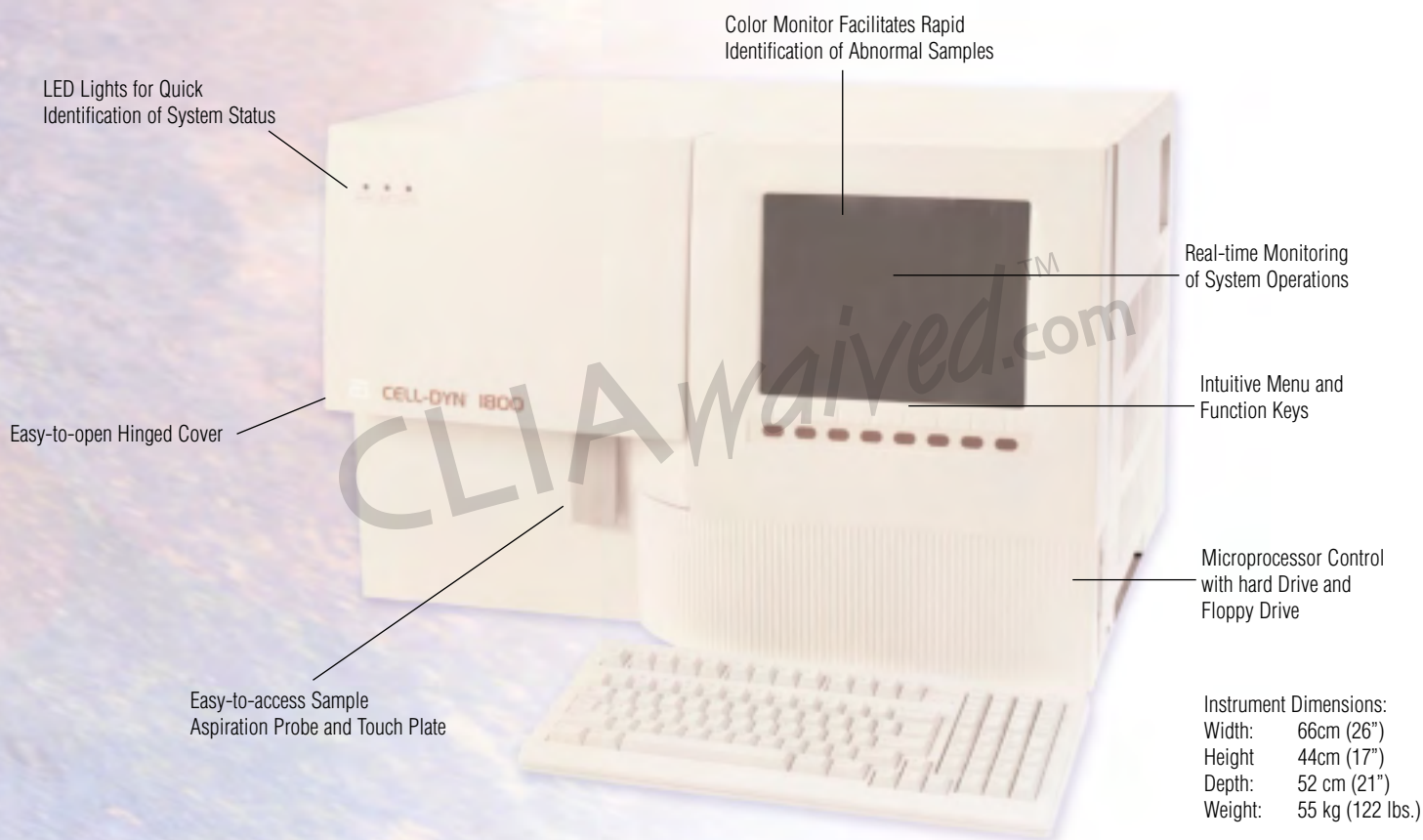
CLIA Waived.com<sup>TM</sup>



CELL-DYN<sup>®</sup> 1800

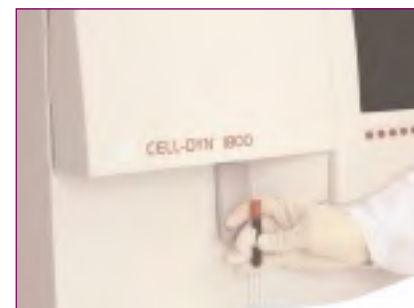
## PERFORMANCE: ENHANCED EFFICIENCY AND PRODUCTIVITY

- 18 parameter\* CBC and 3-part differential
- Small sample size for processing pediatric and capillary specimens:
  - 30µL Open-mode analysis
  - 40µL pre-dilute mode analysis
- Compact, quiet benchtop system
- Comprehensive data management:
  - Stores up to 10,000 results
  - Onboard Levey-Jennings and modified Westgard rules
  - Patient report and quality control programs



## FAST AND EASY TO USE

- Patient results in 60 seconds!
- 2-Step results:
  1. Hold patient sample tube under aspiration probe
  2. Press sampling touch plate



\*Clinical significance has not been established for these parameters; therefore they are not reportable in the U.S.

## PROVEN RELIABILITY

- High reliability
- Minimum operator maintenance
- Worldwide service and support from the Abbott Diagnostics Customer Commitment Network
- Patient report and quality control programs in compliance with CLIA recommendations
- A complete line of reagents, controls, and calibrators to ensure optimum performance

**Customized Header**

**Patient Information & Physician ID**

**WBC Results**

**Region Alerts**

**RBC Results**

**Distributional Flags**

**PLT Results**

**WBC Histogram**

**RBC Histogram**

**PLT Histogram**

**Four Definable Reference Range Sets**

**Graphic Reference Range Display**

**High and Low Alerts**

**Optional Manual Differential Grid**

FLAG	LIMIT	REFERENCE RANGE (LIMIT 1)
I * 3	4.3 - 10.9	WBC
I * 2	4.5 - 11.1	10.0 - 16.0
I * 1	4.0 - 11.0	8.1 - 15.0
I * 0	3.5 - 10.5	3.7 - 10.0
I * 7	4.00 - 5.00	WBC
I * 6	10.0 - 20.0	g/dL
I * 5	27.0 - 31.0	%
I * 4	38.0 - 47.0	PL
I * 3	50.0 - 55.0	pp
I * 2	21.0 - 26.0	g/dL
I * 1	11.0 - 14.0	%

## VALUE . . . QUICK SOLUTIONS FOR YOUR LABORATORY

- Automated system startup and shutdown
- Intuitive software allows operators to use the system with ease
- RS232 LIS Interface port
- Optional handheld barcode scanner for easy sample ID
- Only 3 reagents
- Upload/Download QC data

# CELL-DYN® 1800 Specifications

## Technology & Methods

- Electronic impedance
- Electronic valving
- LED hemoglobin analysis
- von Behrens transducer
- Volumetric metering
- Lysate modified differential
- Modified methemoglobin

## Throughput

- 60 samples per hour

## Sample Size

- 30 µL open mode
- 40 µL pre-dilute mode

## Specimen Data Management

- Search by patient ID
- 4 patient limit sets
- Flagging for panic values
- 10,000 run cycles with histograms
- Programmable patient limits
- Programmable report units
- Barcode reading
- Onboard system diagnostics

## Quality Control Data Management

- 21 control files
- 120 runs per file
- Westgard rules
- Levey-Jennings graphs
- X-B moving average
- Upload/download control information

## Complete Patient Demographics:

- Sequence number
- Numeric specimen ID
- Alphanumeric patient ID
- Operator ID
- Date & time collected
- Date & time analyzed
- Physician
- Patient name
- Male/female
- Date of birth
- Comments

## 18 parameter results

### CBC with 3-part differential

White Cells	Red Cells	Platelets
WBC	RBC	PLT
LYM #	HGB	MPV
LYM %	HCT	PDW*
MID #	MCV	PCT*
MID %	MCH	
GRAN #	MCHC	
GRAN %	RDW	

## Flagging and Alerts

The CELL-DYN 1800 displays a flagging message when a sample exhibits certain abnormalities.

## Dispersional Data Alert

Operator-defined patient limits and system controlled linearity limits.

## Suspect Parameter Flags

Caused by interfering substances or sample abnormalities.

## Suspect Population Flags

Generated when WBC data indicates possible presence of an abnormal population.

## Data Station

- LCD color monitor
- Hard and floppy disk drives
- RS232 bi-directional LIS interface
- Intel high speed microprocessor

## Peripheral Devices

- Dot Matrix or Inkjet printer
- 101 key computer keyboard
- Handheld barcode scanner with ISBT 128 capability (optional)

## Physical Dimensions

- Height 44cm (17")
- Width 66cm (26")
- Depth 52cm (21")
- Weight 55kg (122 lbs)

## Operating Temperature & Humidity

- ≥ 18°C (59°F)
- ≤ 30°C (86°F)
- 10%-85% RHNC (relative humidity, non-condensing)

## Standards & Safety Compliance

- UL6101A-1
- ETL Mark
- CE Mark
- IEC 61010-1
- CSA C22.2 No. 1010.1

## CELL-DYN 1800 Reagents

Lower Volume Size		Higher Volume Size
CN-Free Diff Lyse 960 mL List No. 07H84-01	or	CN-Free Diff Lyse 3.8L List No. 07H84-02
Diluent 4x 3.8L List No. 99226-01	or	Diluent 20L List No. 99220-01
Detergent 4x 3.8L List No. 99326-01	or	Detergent 20L List No. 99320-01

## CELL-DYN 1800 Controls and Calibrators

CELL-DYN 16 Controls and Calibrators		CELL-DYN 22 Controls and Calibrators
CELL-DYN 16 Control Assay Disk List No. 01H92-01	or	CELL-DYN 22 Control Assay Disk List No. 01H91-01
CELL-DYN 16 Calibrator List No. 99110-01	or	CELL-DYN 22 Calibrator List No. 99120-01
CELL-DYN 16 Normal Control 6 x 2.5mL List No. 02H40-01	or	CELL-DYN 22 Normal Control 6 x 2.5mL List No. 99103-01
CELL-DYN 16 Tri-Level Control 6 x 2.5mL List No. 99105-01 or CELL-DYN 16 Tri-Level Control 12 x 2.5mL List No. 99109-01	or or	CELL-DYN 22 Tri-Level Control 6 x 2.5mL List No. 99106-01 or CELL-DYN 22 Tri-Level Control 12 x 2.5mL List No. 99111-01

## Electrical Requirements

	Voltage	Frequency	Max Current	BTU/Hr
Analyzer	100 VAC ± 10%	50/60 ± 3Hz	9 amps	3075
	120 VAC ± 10%	50/60 ± 3Hz	7.5 amps	3075
	220 VAC ± 10%	50/60 ± 3Hz	4.1 amps	3075
	240 VAC ± 10%	50/60 ± 3Hz	3.8 amps	3075
Printer	100 - 120 VAC 220 - 240 VAC	50/60 Hz	0.9 amps	205

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