

RADIANT

# Cell-Tech 380

3-PART WBC DIFFERENTIAL  
ANALYZER



# ANALYZER OVERVIEW

The Cell-Tech 380 is a heavy duty, compact, bench top, 3-part WBC differential hematology analyzer with a sample throughput of 80 tests/hour making it our fastest analyzer today. The Cell-Tech 380 is operated via a color touch screen and an easy to

follow, intuitive icon user interface. With all its features and small footprint, the system is ideal for laboratories, clinics and physician practices that are looking for a reliable, safe, high quality and fast CBC results.

## BENEFITS AND KEY FEATURES

### Accurate and Precise results

- Proven impedance measurement technology with advanced flagging algorithms
- Clog detection and prevention with automatic system cleaning processes
- Comprehensive 20 parameters CBC with 3 histograms

### User friendly and easy to operate

- Easy to use high resolution touch screen
- Recording of sample and quality control information is fast and efficient
- 4 USB ports allow simple connection with external devices such as host computer, external printer, keyboard and mouse
- Advanced software package providing comprehensive QC statistics

### Operator safety

- Unique sample rotor that reduces the risk of biohazard exposure
- Self-cleaning procedures minimize daily maintenance

### Confidence

- System uses easy to understand warning messages and sample flags
- Designed to use specific reagents to deliver the highest quality results



# Cell-Tech 380

## REAGENTS

Our systems comprise of two perfectly matched elements: analyzers and reagents. The optimum performance of our analyzer systems is only achieved when our matched reagents are used. Our reagents ensure the highest quality standards. All lots of reagent manufactured are fully validated prior to release on our instruments for low background counts, osmolality, pH and other critical parameters. Our diluent reagents contain no azide and our lyse reagents are cyanide free. Our highly stable reagents offer a shelf life of up to 36 months from the date of manufacture and up to 120 days of on-board stability. The combination of our reagents and analyzers together ensure the best system performance and quality of results.



Measure			13:49
6 15/04/2013 13:49			
SID	Human	RBC	4.77 $10^{12}/l$
		HGB	147 g/l
WBC	6.43 $10^9/l$	HCT	43.41 %
LYM	2.52 $10^9/l$	MCV	91 fl
MID	0.32 $10^9/l$	MCH	30.8 pg
GRA	39.2 %	MCHC	338 g/l
LYM%	5.0 %	RDWc	16.8 %
MID%	55.8 %	PLT	166 $10^9/l$
GRA%		PCT	0.17 %
		MPV	10.2 fl
		PDWc	39.6 %

# SPECIFICATIONS

## MEASURING DATA

- Throughput - 80 tests/hour
- Parameters - 20 including 3-part differential: WBC, LYM, MID, GRA, LYM%, MID%, GRA%, RBC, MCV, HCT, HGB, MCH, MCHC, PLT, MPV, RDW<sub>cv</sub>, PCT, PDW<sub>cv</sub>, P-LCR, P-LCC
- Diagnostic flags (P.S.)

## MEASURING PRINCIPLE

- Volumetric impedance method
- Light absorbance for HGB measurement

## REAGENTS AND SAMPLING SYSTEM

### Samples

- 25 µl of whole blood or 50 µl of pre-diluted blood
- Open tube system with automatic sample rotor
- Pre-dilution mode
- Calibration : manual or automatic

### Reagents

- Diluent, Lyse, Cleaner - all cyanide free
- Optical reagent sensors, programmable waste container
- Online reagents inventory

## MEASUREMENT

- 2 counting chambers
- Aperture diameter - 70 µm (RBC/PLT) and 100 µm (WBC)
- Anti-clog protection
- 3 stage cleaning procedure - high voltage burst on apertures, high pressure back flush, chemical cleaning of apertures

## QUALITY CONTROL

- Separate QC database
- Levy-Jennings graphs
- USB and barcode options to load QC values

## TECHNICAL FEATURES

- Data capacity of 10,000 results with histograms
- Built-in thermal printer
- High-contrast, backlit, color, graphics touch screen
- Printer interface - USB with support for HP and Dot-matrix printers
- External keyboard and mouse via USB connection
- External barcode reader (optional)

## USAGE

- Software upgrade via USB memory stick
- Data back-up via USB memory stick
- 3 USB-A ports on back, 1 USB-A on front
- 1 USB-B on back for host computer interfacing

## OPERATING TEMPERATURE

- 15-35°C, Optimal temperature 25°C

## POWER REQUIREMENT

- 12VDC, 5A, 60W - max, 10W - standby

## DIMENSIONS

- Size (Width x Depth x Height)  
33.5 x 31.5 x 38 cm (13.2 x 12.4 x 15 in)
- Weight: 12 kg, 26 lbs

### Marketed by:

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