

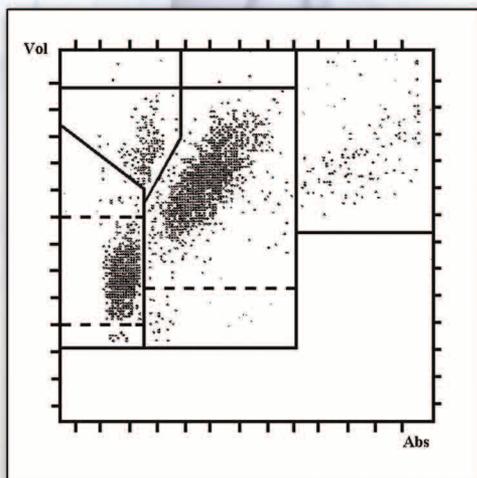
Incredible value.  
Excellent performance.

**COULTER AC•T 5diff Hematology Analyzer**

Blood Banking  
Centrifugation  
Chemistry  
Flow Cytometry  
**Hematology**  
Hemostasis  
Immunoassay  
Information Systems  
Lab Automation  
Molecular Diagnostics  
Rapid Diagnostics



## Simple, Affordable 5-Part Differential Analysis



**ACV technology delivers DiffPlot results in less than 60 seconds**

The COULTER AC•T 5diff hematology analyzer is a simple, flexible, affordable 5-part differential system. If your laboratory has relied on 2-part, 3-part or manual differential analyses, you can cost-effectively move up to efficient, 5-part differential hematology diagnostics.

To deliver a 5-part differential analysis, the AC•T 5diff hematology analyzer employs Absorbance cytochemistry and Volume (ACV) technology.

Monocyte, neutrophil and eosinophil populations are identified, using the absorbance patterns produced by differential cytochemical staining of their granules versus volume. Lymphocytes remain unstained and the basophil population is analyzed on a separate channel, using volume gating and selective lysis.

The two-dimensional methodology of ACV technology makes the AC•T 5diff hematology analyzer the right choice for any laboratory that needs excellent performance and an incredible value.



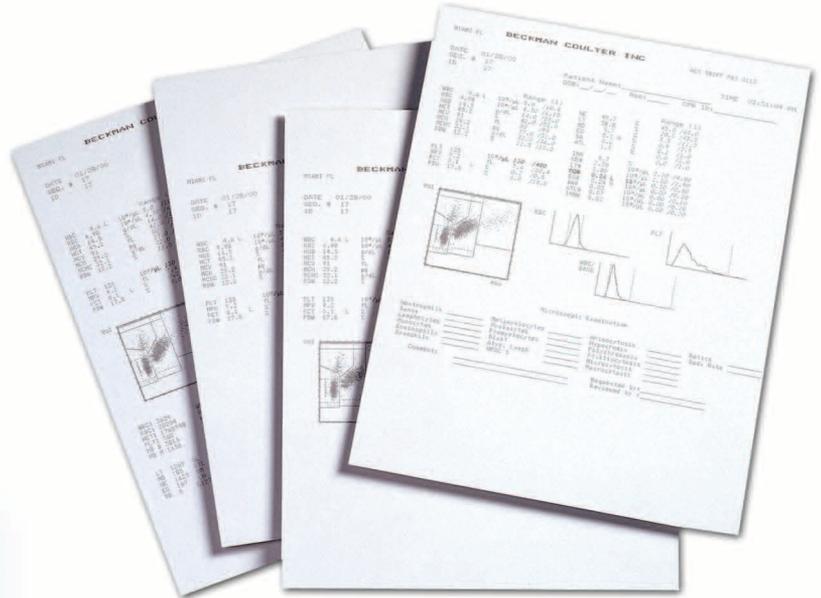
### Beckman Coulter Hematology Technologies

Technology Measurements	1D CHD + IR	2D ACV	3D VCS
Coulter Principle	✓	✓	✓
Absorbance Cytochemistry		✓	
Scatter			✓
Conductivity			✓



## Incredible Simplicity

- CBC or CBC/DIFF mode and patient range selectable from the keyboard display
- One-button operation with automatic probe wipe
- One-button startup and shutdown
- Minimal routine maintenance
- Automatic calibration
- Alphanumeric or bar-code patient identification and institutional header for reports
- Diluent plus four onboard reagents



### The AC•T 5diff OV offers reporting flexibility through four different formats

The AC•T 5diff hematology analyzer offers significant benefits at an affordable price. For example, the confidence in results that you get with a Beckman Coulter instrument will result in increased efficiency and productivity for your laboratory.

Plus, the AC•T 5diff will integrate easily into your laboratory. It uses high-quality Beckman Coulter reagents. And of course, the AC•T 5diff hematology analyzer is backed by the expertise and support only Beckman Coulter can provide.

### Simply select analysis mode and load sample

## Incredible Value

- Efficient use of samples and reagents in CBC and CBC/DIFF modes
- Instrument generated flagging
- Three user-definable patient and action ranges
- Custom report formats and reporting units
- 60 samples per hour
- Quiet and compact, requiring less than two square feet of bench space
- Multiple language software

### A complete line of quality Beckman Coulter reagents ensures confidence in results



# COULTER AC•T 5diff Specifications

## Methods and Technologies

- CBC analysis & HGB
- Sequential dilution system
- Dual focused flow fluid dynamics
- Coulter Principle (impedance): counting and sizing
- Duplicate counting
- Coincidence correction
- Pulse editing
- Rinse flow system
- Spectrophotometry for hemoglobin
- Beckman Coulter AC•T 5diff reagent system

## 5-Part Differential Analysis

- Absorbance cytochemistry with Volume (ACV)
- AC•T 5diff Fix and WBC Lyse system

## 26 Available Parameters

WBC	BA#	MCV
NE#	BA%	MCH
NE%	ATL#*	MCHC
LY#	ATL%*	RDW
LY%	IMM#*	PLT
MO#	IMM%*	MPV
MO%	RBC	PCT*
EO#	HGB	PDW*
EO%	HCT	

## Sample Analysis Characteristics

- 53  $\mu$ L whole blood, CBC/DIFF mode
- 30  $\mu$ L whole blood, CBC only mode
- Open vial sampling

## Positive ID

Optional bar code reader

- Codabar
- Code 39
- Code 128
- Interleaved 2-of-5
- EAN 8
- EAN 13

## Data Management

- Alphanumeric patient ID & institutional headers
- Manual and auto-sequence run number
- 3 patient ranges with high/low flagging
- 3 result action ranges with interpretive messages
- 5 reporting unit format options
- 3 print format options
- RS232C host transmission

## Quality Control

AC•T 5diff Control Plus (tri-level) reagent

AC•T 5diff Cal (calibrator) reagent

## Precision

<u>Parameter</u>	<u>Range</u>	<u>% CV</u>
WBC	$10 \times 10^3$ cells/ $\mu$ L	< 2.0
RBC	$5 \times 10^6$ cells/ $\mu$ L	< 2.0
HGB	15 g/dL	< 1.0
HCT	45%	< 2.0
PLT	$300 \times 10^3$ cells/ $\mu$ L	< 5.0

## Accuracy

R >0.95 for WBC, RBC, PLT, HGB, HCT

## Throughput

Up to 60 samples/hour

## Sample Stability

CBC 48 hr room temperature

DIFF 24 hr room temperature

## Operating Temperature

16 to 34 °C (61 to 93 °F)

## Analyzer Dimensions/Weight

Height:	23 in	(58 cm)
Width:	17.5 in	(44.4 cm)
Depth:	19.75 in	(50.1 cm)
Weight:	281 lb	(37 kg)

## AC•T 5diff Reagent System

## Part Number

Diluent	8547169
Hgb Lyse	8547168
Fix	8547171
WBC Lyse	8547170
Rinse	8547167
Calibrator	7547175
Control Plus	7547198

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China, Shanghai (86) 21 3865 1000 Croatia, Zagreb (38) 51 489 9003 Czech Republic, Prague (420) 272 01 73 32  
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Germany, Krefeld (49) 2151 33 35 Hong Kong (852) 2814 7431 India, Mumbai (91) 22 3080 5000 Italy, Cassina de' Pecchi, Milan (39) 02 953921  
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UK, High Wycombe (44) 01494 441181 USA, Brea, CA (1) 800 352 3433, (1) 714 993 5321