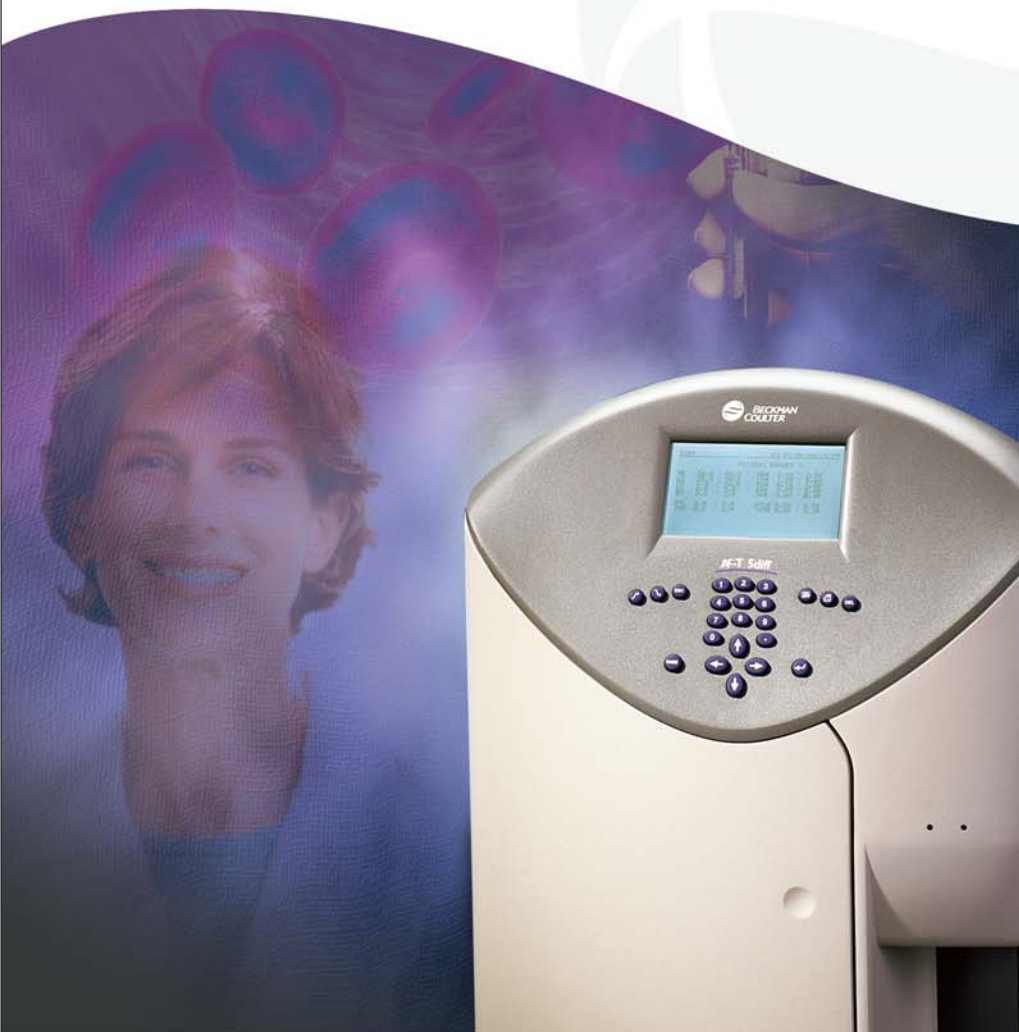


**Incredible Value.
Excellent Performance.**

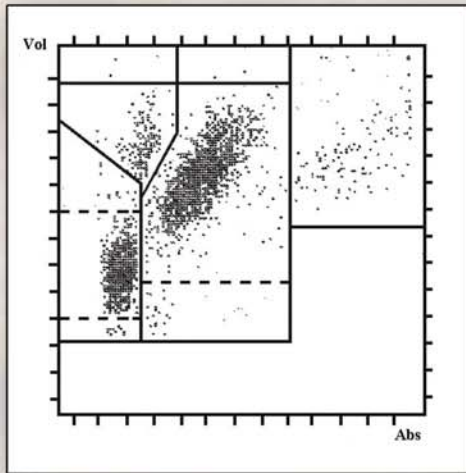
**COULTER® AC•T™ 5diff
Hematology Analyzer**

General Chemistry
Centrifugation
Disease Management
Immunodiagnosics
Clinical Research
Hematology
Hemostasis
Lab Automation
Data Management
Flow Cytometry
Primary Care



Simplify • Automate • Innovate

Simple, Affordable 5-Part Differential Analysis



A^{CV} technology delivers DiffPlot results in less than 60 seconds.

The COULTER® A^C•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 A^C•T 5diff hematology analyzer employs Absorbance cytochemistry and Volume (A^{CV}) 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.

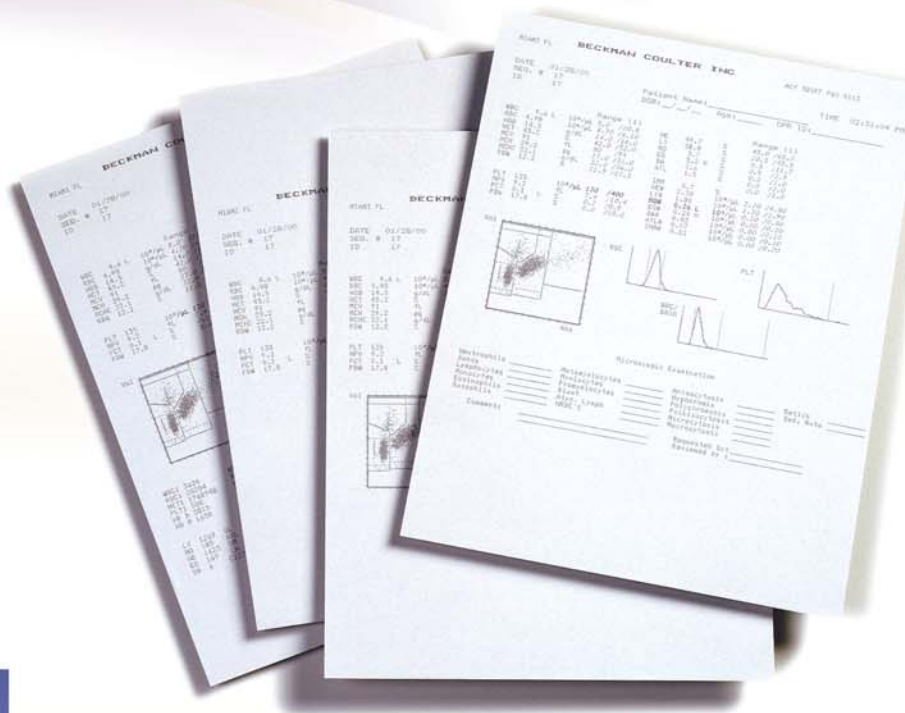
Beckman Coulter Hematology Technologies

Technology Measurements	1D CHD + IR	2D A ^{CV}	3D VCS™
Coulter Principle	✓	✓	✓
Absorbance Cytochemistry		✓	
Scatter			✓
Conductivity			✓

A^{CV}'s two-dimensional methodology makes the A^C•T 5diff hematology analyzer the right choice for any laboratory that needs excellent performance and an incredible value.

Incredible Simplicity

- CBC or CBC/DIFF mode and patient range selectable from the keyboard display
- One-button operation with automatic probe wipe
- One-button start-up and shutdown
- Zero daily maintenance
- Automatic calibration
- Alphanumeric or bar-code patient identification and institutional header for reports
- Diluent plus four on-board reagents



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



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

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.



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 (A^{CV})
AC•T 5diff Fix and WBC Lyse system

26 Available Parameters

WBC	RBC	Plt
NE#	Hgb	MPV
NE%	Hct	Pct*
LY#	MCV	PDW*
LY%	MCH	
MO#	MCHC	
MO%	RDW	
EO#		
EO%		
BA#		
BA%		
ATL#*		
ATL%*		
IMM#*		
IMM%*		

* For Research Use Only. Not intended for use in diagnostic procedures. Optional parameters available outside U.S.

Sample Analysis Characteristics

53µL whole blood, CBC/DIFF Mode
30µL 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

Parameter:	Range:	%CV:
WBC	10 x 10 ³ cells/µL	<2.0
RBC	5 x 10 ⁶ cells/µL	<2.0
Hgb	15g/dL	<1.0
Hct	45%	<2.0
Plt	300 x 10 ³ cells/µL	<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)

Dimensions and Weight

Analyzer:

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