



CELLENIUM[®] 5D_{RETIC}

count on it

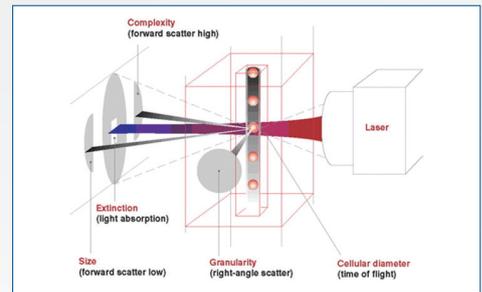
5-Part-Diff Hematology Analyzer

- **34** Parameters including RECTIC_ABS, RETIC%, IRF, 2 histograms, 2 scattergrams
- Compact 5-part with built in Thermal Printer
- Flow Cytometry (FCM) + Multi Angle Scatter Separation (MASS)
- Throughout up to **60** samples per hour
- Mono-vial reagents for Reticulocyte cells enumeration
- Dual Counting mode : WBC Optical + Impedance
- On board storage capacity of 200,000 samples with histograms and scattergram
- LIS and HIS compatible with HL7 protocol



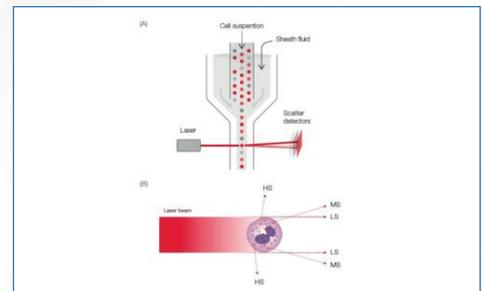
Laser Scatter

- Multi-angle scatter separation (MASS)
- Original cell morphology signal capture
- Stable and long-lasting for accurate counting



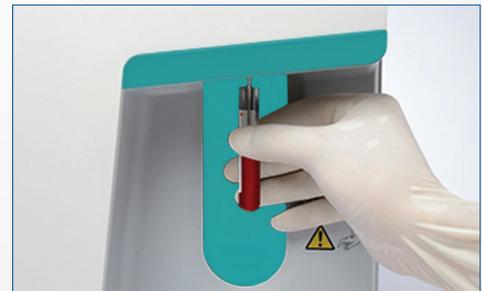
Sheath Flow Regulation

- Maintenance free and maintains cells morphological integrity
- Basophil count on same scattergram
- Sheath reagent used for WBC 5-Diff



Innovative Fluidic & Hydraulic Design

- Separate compartment Electronics & Hydrolics
- Ceramic syringes
- High precision motors
- Best quality valve



Electronic & Mechanical Components

- Military level built quality
- Sturdy electronics component's
- Best quality internal tubing's





Scattergram & Histogram

- Two 2D scattergrams: 5-Part differential Eosinophil, Neutrophil, Basophil & Immature cells
- Two 2D histograms: RBC and PLT



Data Management

- On board storage capacity of 200,000 sample results
- Professional data scientific query system
- Large display for result retrieve / review



Operation Interface

- Intuitive touch operation with user friendly illustrated icons
- Touch pen enabled
- Unique Cellenium operation interface like all Cellenium hematology series



Quality Control Solution

- QC reagent with multiple method as L-J, X-R, X-B, etc.
- Third party QC solution available



Technical Specifications

Parameters: 34 Parameters

WBC, LYM%, MON%, NEU%, EOS%, BAS%, LYM#, MON#, NEU#, EOS#, BAS#, RBC, HGB, HGT, MCV, MCH, MCHC, RDW_CV, RDW_SD, PLT, MPV, PDW, PCT, P_LCR, P_LCC, RETIC%, RETIC_ABS, IRF

Research Parameters: 6 Parameters

ALY#, ALY%, LIC#, LIC%, NRBC#, NRBC%

2 Scatter grams: 5-part differential scattergram

Eosinophils, Basophil and Neutrophils scattergram

Histogram: 2 Histograms (RBC and PLT)

Principle of Operation:

WBC / DIFF: Flow cytometry, semi-conductor laser light multi-dimensional cell classification

WBC analysis: Optical and impedance measurements

RBC / PLT analysis: Impedance method

HGB test: Cyanide-free reagent colorimetry

Reagent:

5DR - Dilucel, Rincel, Lycel, Sheath

Linearity

Components	Linearity Range	Acceptable limits
WBC	0 x 10 ⁹ /L~10.0 x 10 ⁹ /L 10.1 x 10 ⁹ /L~100.0 x 10 ⁹ /L	±0.5 x 10 ⁹ /L ±5%
RBC	0x10 x 10 ¹² /L~1.00 x 10 ¹² /L 1.01x10 ¹² /L~8.00 x 10 ¹² /L	±0.05 x 10 ¹² /L ±5%
HGB	0 g/L~70 g/L 71 g/L~250g/L	±2 g/L ±2%
PLT	0 x 10 ⁹ /L~100 x 10 ⁹ /L 101x10 ⁹ /L~1000 x 10 ⁹ /L	±10 x 10 ⁹ /L ±8%

Sampling modes & aspiration volume

Whole blood: 20 µL,
Pre-diluent: 20 µL

Aperture diameter

WBC 100 µm, RBC/PLT 68 µm

Throughput

Whole blood: up to 60 samples per hour,
pre-diluent: up to 60 samples per hour

Data Storage:

Up to 2,00,000 sample results with grams

Alarms:

Error messages & pathological flagging

Display:

10.4 inch color touch screen

Input/output:

Build-in thermal printer. Support serial port, LAN port, USB port

Power:

AC 100-240V, 50/60 Hz, 250VA

Dimensions & weight:

530mm (L) x 270mm (M) x 412mm (H), about 26.5kg

Ordering Information

Instrument

Product Code	Product Description	Pack Size
DIG-47884	Cellenium 5D Retic	1 Unit

Reagents

Product Code	Product Description	Pack Size
30201289	Dilucel 5DR (20 L)	20 L
30201291	LYCEL 5DR (500 mL)	500 mL
30201367	Rincel 5DR (10 L)	10 L
30201392	Shealth 5DR (10 L)	10 L
30201293	Rectic 5DR (25 x 2 mL)	25 x 2 mL
30201175	Probecel DC (100 mL)	2 x 50 mL

Controls and Calibrator

Product Code	Product Description	Pack Size
DIG-14830	D Check 5Diff Control	3x3 ml
DIG-47960	CBC CAL PLUS 1x3 ml	1x3 ml



*Please note: Product specifications are subject to change without prior notice owing to product modifications, improvements / up-gradation.

IVD

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