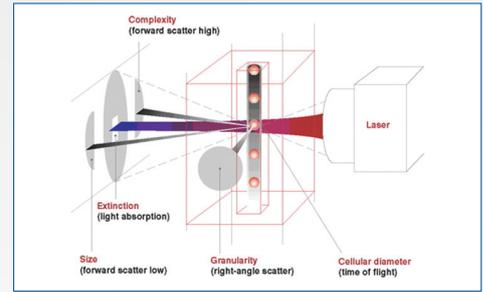# CELLENIUM® 5D_{RETIC} AL

count on it

Optimise your workload with smart and compact automation

- Autoloader full loading capacity of **50** Samples at a time with built in barcode reader
- **49** Parameters including Body-fluid and RETIC Parameters
- Improve workflow and TAT with throughout up to **90** samples per hour
- Flow Cytometry (FCM) + Multi Angle Scatter Separation (MASS)
- Reticulocyte Analysis with mono vial reagent pack
- RRBC mode enables corrected WBC count

Advanced Principles

- Multi-angle scatter (4- Angle) separation (MASS) for WBC

- Impedance method for RBC and PLT counting

- InR (#,%) Parameters to screening of malaria

InR(‰) – Malaria Parasite Load Marker

- InR(#,‰) prompting infected by plasmodium, related to malaria

- Two 3D scattergrams: 5-Part differential Eosinophil, Neutrophil, Basophil & Immature cells

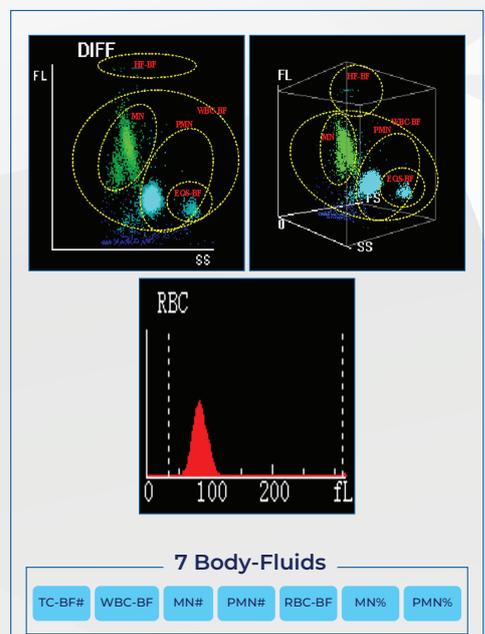- Three 2D histograms: RBC, WBC and PLT

*ALY% (ALY%)	0.4	%	0.0~2.0
*ALY# (ALY#)	0.03	10^9/L	0.00~0.20
*LIC% (LIC%)	0.9	%	0.0~2.5
*LIC# (LIC#)	0.06	10^9/L	0.00~0.20
*NRBC% (NRBC%)	0.00	%	0.00~9999.99
*NRBC# (NRBC#)	0.000	10^9/L	0.000~9999.999
*BLAST% (BLAST%)	0.09	%	0.00~99.99
*BLAST# (BLAST#)	0.005	10^9/L	0.000~99.990
*InR‰ (InR‰)	0.0	‰	0.0~1000.0
*InR# (InR#)	0.00	10^9/L	0.00~9999.99
*MAF (MAF)	146.7		119.5~140.5
*NLR (NLR)	1.1		0.0~9999.9
nistrator	Today:Total 3		Instr

Body Fluids Analysis

- In addition to blood specimens, the Cellenium 5DR AL supports body fluid testing without the need for a dedicated reagent.

- It is compatible with various body fluid types, including

  - Peritoneal fluid
  - Pleural fluid
  - Cerebrospinal fluid (CSF)

- Provides insights for diagnosing infections, malignancies or inflammatory conditions

- Body Fluid Parameters:
  TC-BF#, WBC-BF, RBC-BF, MN%, MN#
  PMN%, PMN#

7 Body-Fluids

TC-BF# | WBC-BF | MN# | PMN# | RBC-BF | MN% | PMN%

Innovative Fluidic & Hydrolic Design

- Seperate compartment for Electronics & Hydrolics

- Ceramic syringes ensure accurate aspiration & dispense volume

- High precision motors & Best quality valve

Data Management

- On board storage capacity of 500,000 sample results

- Professional data scientific query system

- LIS and HIS compatible with HL7 protocol

Operation Interface

- User friendly most advanced windows system for operation

- Unique & Uniform Cellenium intuitive operational user interface.

Quality Control Solution

- QC reagent with multiple method as L-J, X, X-R, X-B, etc.

- Third party QC solution available

CELLENIUM® 5D RETIC AL
count on it

Technical Specifications

Parameters: 49 Parameters

Whole Blood:
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

Body-fluid: 7 Parameters
WBC-BF, RBC-BF, MN%, MN#, PMN%, PMN#, TC-BF#

RUO: 14 Parameters
ALY#, ALY%, LIC#, LIC%, NRBC#, NRBC%, BLAST%, BLAST#, InR%, InR#, Eos-BF%, Eos-BF#, Neu-BF%, Neu-BF#

Whole Blood:

Two 3D Scattergrams: 5-part differential scattergram Eosinophils and Neutrophils scattergram

3 histograms: WBC, RBC and PLT

RETIC:
Two histograms & Two 3D scatter grams

Body Fluid
Two histograms & Two 3D scattergrams

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 analysis: Cyanide-free reagent colorimetry

RETIC analysis: Flow cytometry + laser light scatter + chemical dye method

Operational Reagents: Dilucel, Rincel, Lycel, Sheath

Sampling Modes & Aspiration Volume
Auto loader: 20 µL, Manual mode: 20 µL, Pre-diluent: 20 µL, Body-fluid: 70 µL

Linearity:

Components	Linearity Range	Acceptable limits
WBC	0×10^3 /µL ~ 10.0×10^3 /µL 10.1×10^3 /µL ~ 100.0×10^3 /µL	$\pm 0.5 \times 10^3$ /µL; $\pm 5\%$
RBC	0×10^6 /µL ~ 1.0×10^6 /µL 1.0×10^6 /µL ~ 8.0×10^6 /µL	$\pm 0.05 \times 10^6$ /µL; $\pm 5\%$
HGB	0 g/dL ~ 7.0 g/dL 7.1 g/dL ~ 25.0 g/dL	± 2 g/d; $\pm 2\%$L
PLT	0×10^3 /µL1 ~ 100×10^3 /µL 101×10^3 /µL ~ 1000×10^3 /µL	$\pm 10 \times 10^3$ /µL; $\pm 8\%$

Aperture diameter
WBC 100 µm, RBC/PLT 68 µm

Sampling Device
- Auto loader with 50 (10x5 racks) samples loading capacity
- STAT position for emergency samples
- Built-in bar code reader

Throughput
CBC mode: up to 90 samples per hour, CBC+DIFF: up to 80 samples per hour, Body-fluid: 30 samples per hour

Data Storage:
Up to 500,000 sample results with histogram, scattergram

Alarms:
Error messages, User defined Pathological flaging

Display:
Windows based PC with color TFT display

Input/output:
Support serial port, LAN port, Ethernet, USB port, Supports all major printers in market

LIS:
Support with HL7 protocol

Power:
AC 100-240V, 50/60 Hz, 300VA

Dimensions & Weight:
592mm (L) x 712mm (W) x 595mm (H), About 76.5kg

Ordering Information

Instrument

Product Code	Product Description	Pack Size
DIG-58700	Cellenium 5D Rectic AL	1 Unit

IVD

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Trivitron HEALTHCARE
speaking your language