

The CellScan Haematology Analyzer Family

Digital Haematology



Microbiology E.A. Ltd
...Redefining Point of Care Testing...

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CellScan 30 Haematology Analyzer



Delivering Full Haemogram Tests with Digital Technology.

The is a robust 3-part haematology analyzer integrating a range of advanced features intended for a cost-minded CellScan 30 and quality-focused clinical laboratories.

The enhanced specification expands clinical capabilities making it possible for every clinical laboratory perform full haemogram tests at reduced costs and offering quality results to doctors.

The quality hardware components ensure reliable performance, and the improved fluidic system reduces reagent consumption and analyzer downtime.

Expanded clinical capabilities

- Wider linearity range and better precision meet diversified clinical cases
- 24-parameters test result, including NLR and PLR, helps with the prognosis of infectious and cardiovascular diseases
- Adaptive threshold differentiates WBC, RBC, and PLT with better accuracy
- Original hematology calibrator and controls guarantee the performance

Effective cost control

- Two routine reagents
- Up to 180 days reagents onboard stability
- Test-quantity-based-maintenance

CellScan 30

Hematology Analyzer
Specification

Parameters

- 21 reportable full haemogram parameters: WBC, LYM%, MXD%, NEUT%, LYM#, MXD#, NEUT#, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, PLCC, and PLCR.
- 2 RUO parameters: *NLR, *PLR.
- 3 histograms for WBC, RBC and PLT.
- 2 RUO parameters: NLR, PLR
- 3 histograms for WBC, RBC and PLT

Performance	Parameter	Linearity Range	Precision (CV %)
	WBC (10 ⁹ /L)	0.0-300	≤3.0% (3.50-7.00)
	RBC (10 ¹² /L)	0.0-8.5	≤2.5% (7.01-15.00)
	HGB (g/L)	0-250	≤1.5%
	PLT (10 ⁹ /L)	0-4000	≤1.5%
	MCV (fL)	70-120	≤5.0%

Principles

Direct impedance method for WBC, RBC and PLT counting Cyanide free Lyse reagent for hemoglobin test.

Sample Volume

Whole blood mode	10 µL
Capillary whole blood mode	10 µL
Pre-diluted mode	20 µL

Reagent

CellScan HD310 Diluent 10L/20L
CellScan HI310 Lyse 200mL/500mL/1L

Operating Environment

Temperature: 15°C~35°C;
Humidity: 20% RH~85% RH;
Air pressure: 70 kPa~106 kPa

Throughput

60 samples per hour

Control and Calibrator

ED-30D, ED-CAL PLUS

Data Storage Capacity

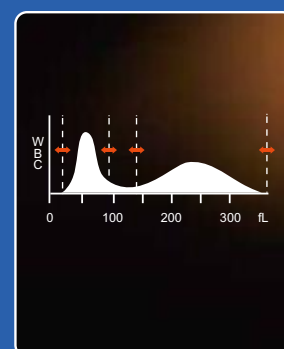
100,000 results including results and histograms
60 QC files (100 data per file)

Dimension and Weight

415mm(L) x 275mm(W) x 406mm(H);
Weight: 18kg



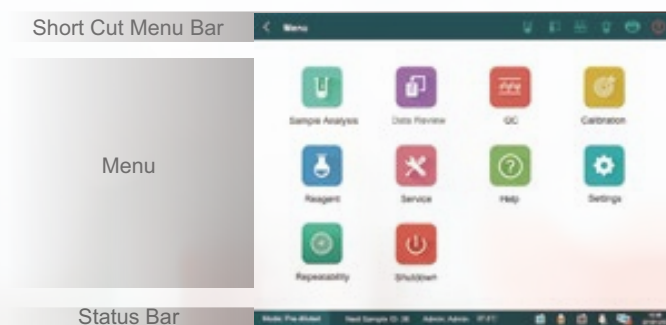
Small sample volume



Adaptive threshold

CellScan 50 Haematology Analyzer

Deliver reliable results
with maximum uptime



Analysis recording via cycle counter for easy cycle summary and maintenance monitor

Hematology Analyzer

Specification

Parameters

25 reportable parameters: WBC, Lym%, Mon%, Neu%, Bas%, Eos%, Lym#, Mon#, Neu#, Eos#, Bas#, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCR, P-LCC.

6 research parameters include LIC%, LIC#, ALY%, ALY#, NLR, PLR

2 histograms for RBC and PLT

2 scattergrams for DIFF and BASO

Performance

Parameter	Linearity Range
WBC ($10^9/L$)	0.0-500
RBC ($10^{12}/L$)	0.0-8.5
HGB (g/L)	0-250
PLT ($10^9/L$)	0-4000

Precision (CV %)

WBC ($10^9/L$)	$\leq 3.0\%$ (3.50-7.00)
RBC ($10^{12}/L$)	$\leq 2.5\%$ (7.01-15.00)
HGB (g/L)	$\leq 1.5\%$
PLT ($10^9/L$)	$\leq 1.5\%$
	$\leq 5.0\%$

Principles

Semiconductor laser flow cytometry analysis for WBC, DIFF and BASO counting

Electrical impedance method for RBC, PLT counting

Cyanide-free reagent for HGB with colorimetric method

Sample Volume

Whole blood mode	16 μL
Capillary whole blood mode	16 μL
Pre-diluted mode	20 μL

Throughput

60 samples per hour

Interface

12 inch colorful touch screen

Reagent

CellScan Hd600 Diluent 20L
CellScan HI600 Lyse 500mL/1L

Operating Environment

Temperature: 15°C~32°C;
Humidity: 30% RH~85% RH;
Air pressure: 70 kPa~106 kPa

Control and Calibrator

ED-60D, ED-CAL PLUS

Data Storage Capacity

100,000 results including results and histograms.
60 QC files (100 data per file)

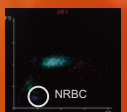
Dimension and Weight

501(D)×320(W)×502.5(H)
Weight: 29.3kg

SENSITIVE FLAGGINGS THAT ASSIST YOUR INSIGHTS

NRBC

NRBC PRESENCE FLAGGING
REMINDED TO CORRECT WHITE
BLOOD CELL COUNTS BY
SMEAR



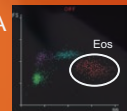
ALY

ABNORMAL LYMPHOCYTE
FLAGGING
SUSPICIOUS OF VARIANT
LYMPHOCYTES AND MALIGNANT
LYMPHOCYTES



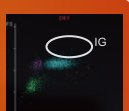
EOSINOPHILIA

HIGH SPECIFICITY ON
EOSINOPHIL
GREAT DIFFERENTIATION ON
EOSINOPHILIA SAMPLES



IG

IG PRESENCE FLAGGING
ASSESSMENT OF SEPSIS
AND INFLAMMATION
COMPRISED OF METAMYELO-
CYTES, MYELOCYTES &
PROMYELOCYTES



DIFF

10 DIFF PARAMETERS

HIGH CLUSTERING
OF 5-DIFF

TWO 2D SCATTERGRAMS
HIGH SENSITIVITY FLAGGING



DIFF

BASO

CellScan 50s Haematology Analyzer



Deliver reliable results
with maximum uptime

Specification

Parameters

25 reportable parameters: WBC, Lym%, Mon%, Neu%, Bas%, Eos%, Lym#, Mon#, Neu#, Eos#, Bas#, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCR, P-LCC.
6 research parameters include LIC%, LIC#, ALY%, ALY#, NLR, PLR
2 histograms for RBC and PLT
2 scattergrams for DIFF and BASO

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Throughput

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Interface

12 inch colorful touch screen

Control and Calibrator

ED-60D, ED-CAL PLUS

Data Storage Capacity

100,000 results including results and histograms
60 QC files (100 data per file)

Dimension and Weight

626.5 (D)×565 (W)×580(H)
Weight: 42kg

Details That Lighten Your Work.

12-inch
colorful touch screen

Reagent management
via RFID card
secure your reagent
business

Automatic rotation and recognition of sample ID
60 samples capacity autoloader with continuous
loading



Various tube supported
Incorrect mode selection
prompt
· Vacuum tube
· 0.5ml/1.5ml centrifuge tube
· Microtainer



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