

SPECIFICATIONS & MORE

HumaCount 30^{TS}

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System Overview

REF	16420/30 (SN > 825xxx)
Analyzer type	Automatic hematology analyzer
Reagent system	Closed
# of Parameters	22 parameter, 3-part differential of WBC
Throughput	30 samples / hour
Barcode reader	External 2D barcode reader (optional)
Reaction / reading system	Impedance method (1 chamber) LED 540nm for HGB measurement
Languages available	English, French, German, Indonesian, Italian, Portuguese, Russian, Spanish, Czech, Polish
User interface	Color capacity touch screen, 800 x 480 -pixels, LED back light

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HumaCount 30^{TS}

Automatic Hematology System

System Specifications

Tests

Parameters	WBC, LYM, MID, GRA, LYM%, MID%, GRA%, HGB, RBC, HCT, MCV, MCH, MCHC, RDWcv, RDWsd, PLT, PCT, MPV, PDWcv, PDWsd, P-LCC*, P-LCR*
Calibration	3 and 7 measurement automatic Manual (factors) calibration of WBC, HGB, RBC, PLT, MCV (or HCT), RDW, MPV Independent calibration of pre-diluted mode.
Veterinary mode	Yes
Self check	Yes
Flags/Messages	Interpretative messages, (diagnostic flags) Warning flags

Sample

Sample type	Whole blood, diluted blood
Sample vessels	Open tube system with automatic sample rotor Standard EDTA tubes
Sample positions	1
Sampling volume	26 µl of whole blood or in pre-diluted mode
Dilution	Yes, internal

Reagent

Reagent type	Diluent Lyse Cleaner
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Liquid Handling

Liquid transportation	Dilutor pumps, vacuum
Liquid level sensors	Yes, internal

Reading

Light source	Green LED for HGB
Wavelengths pre-installed	540 nm
Detector	Light to frequency converter
Aperture diameter	70µm (RBC/PLT/WBC)

* research only

Data Processing

Memory for	QC, records including flags and histograms
Memory capacity	10,000
Reports for	Result, QC, self check, calibration
Quality control module	16- and 64-day Levey-Jennings charts Separate QC database (6 level)
Max. number of control levels	24
Warnings	Range, linearity, errors
Printer	Built-in thermal printer 58 mm wide roll paper, full report with histograms External Printers via USB using printer language PCL-3
LIS	HL7 protocol
Connectors	4x USB, 1x USB-B, Ethernet

General

Physical dimensions (W x D x H)	Instrument without any components:	33 x 28 x 36.5 cm
	Space required for routine use:	52 x 46 x 50 cm
	Packaging:	50 x 41 x 59 cm
	Weight:	Gross: 12.5 kg, net: 12 kg
Electrical requirements	External auto-ranging power unit for 100...120 or 200...240 Vac, 50–60Hz, 60 VA	
Environmental	Operating: temperature: 15...30°C, humidity: < 80 % non-condensing Storage: temperature: 15...30°C, humidity: < 80 % non-condensing Altitude: up to 3,500 m (with special software)	
Wash / waste tank	Waste Container 20 L	

Characteristics

Parameter:	Accuracy	Reproducibility (CV)	Carry-over sample to sample	Test range	Unit
WBC	3%	2.7%	<1%	4.0-20.0	10 ³ /μl
RBC	3%	1.7%	<1%	4.0-15.0	10 ⁶ /μl
HCT	3%	3%	<1%	25.0-50.0	%
MCV	2%	1.7%	N/A	5-9	fl
HGB	2%	2%	<1%	9-16	g/dl
PLT	5%	6%	<3% or <20	20-2000	10 ³ /μl

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= this item is classified as dangerous goods

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