

Celltac α

Automated Hematology Analyzer

Beyond the standard in 3-part-diff

CBC + 3 diff ▪ 19 parameters ▪ built-in open and closed system



Fighting Disease with Electronics

 **NIHON KOHDEN**

Celltac α

Automated Hematology Analyzer

Outstanding features
Real benefits

19 parameters in 60 seconds

The Celltac α series provides 3-part-diff and RDW-SD to assist in the detection of iron deficiency or thalassemia.



MEK-6500K

Built-in open and closed tube mode

To reduce the risk of contamination, the Celltac α MEK-6500K includes both, an open and a closed tube mode for easy blood sampling.



Capillary mode

The Celltac α MEK-6500K allows you to analyze capillary blood with only 10 μ l. This is the ideal method to perform CBCs inclusive 3-part-diff for pediatric and geriatric patients.



Auto dilution mode change

You can set panic value thresholds (abnormal high and low values) to trigger remeasurement in preset dilution ratio modes (low, normal, high, higher). In higher mode the measuring range for WBC can be extended to $599 \times 10^3/\mu$ l while the low dilution mode gives high accuracy even in low values of WBC or PLT.



Unlimited patient memory

The instrument can store unlimited patient samples together with QC results and alarm logs by using SD-card memory (2GB can store 30 000 patient samples).



Intuitive operation

Only 3 steps to the result

- 1 Mix the tube
- 2 Insert the tube into the closed tube holder
- 3 Close the tube holder

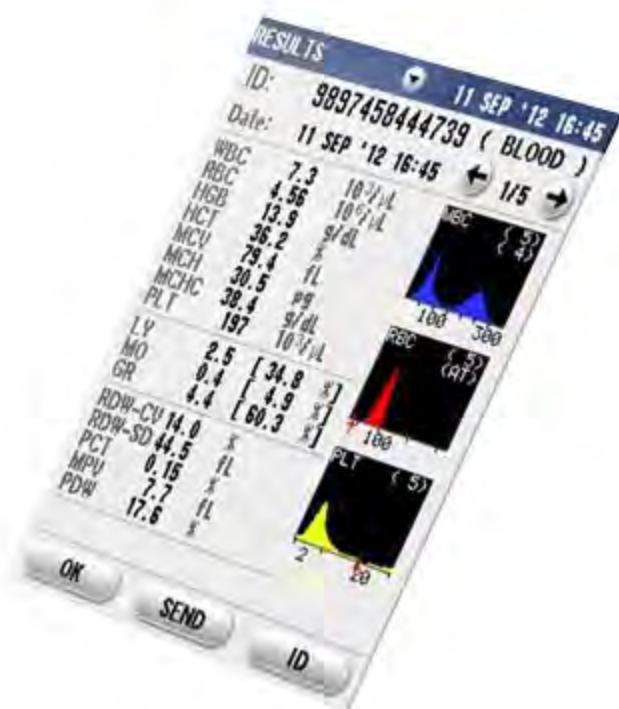
The measurement starts automatically. After 60 seconds the result will be displayed.

The complete result at a glance

There is no need for switching screens to get a first medical diagnostic. The results screen shows all relevant information in only one screen including parameters and histograms.

Easy to use color touch screen

The high resolution color touch screen gives easy access to all information and enables a stress-free operation.



Superior technology – highest quality

40 years of experience that guarantees highest quality standards

Nihon Kohden is a company with a high degree of experience. This allows controlling and directly influencing every process necessary to create, design and assemble high quality parts, units and devices for a high robustness and reliability of the Celltac instruments.

Innovation where you need it

Nihon Kohdens Celltac a range of hematology analyzers combines technology and innovation:

- The twin diluting nozzle system is dedicated for WBC and RBC dilution separately. This prevents cross contamination between RBC and WBC counting.
- Innovative fluid path lets the sample remain in the sample needle; there is no need for rinsing a syringe pump; this contributes to the low reagent consumption and carry over.
- The Celltac range is fully automatic in a true sense. The highlight is the automatic clog removal: a high voltage pulse passes through the aperture to remove possible clogs of proteins and lipids providing durability in result precision.

Features and technical specifications

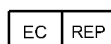
Features			
Simultaneous 19 parameter measurement	Open and closed Tube mode	Automatic clog removal	Access restriction with password
Top Level accuracy and reproducibility	6 different dilution modes: • Normal • High • Lower • Capillary • Higher • Pre-dilution	Automatic waste fluid treatment	Connection capability: • RS232 • USB • Handy barcode reader • Printer
Easy touch screen operation		Data management	
Fast access buttons		Unlimited memory	
5,7" Colour LCD touch screen	Automatic self-check	Variety of QC programs: • Mean • $\bar{X}$ -R • $\bar{X}$ B • CV calculation • L & J • $\bar{X}$ D•CV	Single/double count mode
Easy maintenance	Automatic sampling		
Durable and robust technology	Automatic priming and cleaning		
Compact design	Automatic sampling nozzle cleaning	Optional built-in thermal printer	Recount mode

Technical Data (Please refer also to the tech data sheet)	Linearity and Reproducibility			Safety Standards Certification
Dimensions and Weight: 230 W x 450 D x 428 H (mm); 20 kg	WBC	0 to 59.9 x 10 ³ /μL	within 2.0 % CV	IEC 61010-1: 2001
Power Requirements: MEK-6500/10K: 220 to 240 V ± 10% AC, 50/60 Hz Power consumption: less than 120 VA Cooling system: Natural cooling	RBC	0 to 14.9 x 10 ⁶ /μL	within 1.5 % CV	EN 61010-1: 2001
Parameters: • WBC • RBC • PLT • HGB • HCT • MCV • MCH • MCHC • PDW • PCT • LY% • LY# • MO% • MO# • GR% • GR# • MPV • RDW-CV • RDW-SD	PLT	0 to 1490 x 10 ³ /μL	within 4.0 % CV	IEC 61010-2-101: 2002
Throughput: 60 samples/hour	HGB	0 to 29.9 g/dL	within 1.5 % CV	EN 61010-2-101: 2002
Specimen Volume: • 30 μL for CBC + 3 part diff • 10 μL or 20 μL for pre-dilution mode • 10 μL for capillary mode	HCT	0 to 99%	within 1.0 % CV	IEC 61010-2-081: 2001
Reagents: • Isotonac 4 (20L) • Cleanac (5L) • Cleanac 3 (1L) • Hemolynac 3N (1L)	MCV	20 to 199.0 fL	within 1.0 % CV	IEC 61326-1: 2005
	MCH	10 to 50 pg	—	EN 61326-1: 2005
	MCHC	10 to 50 g/dL	—	IEC 61326-2-6: 2005
	LY%	0 to 100 %	within 5.0 % CV	CISPR11: 2003, Group 1, Class B
	MO%	0 to 100 %	within 12.0 % CV	EN 55011: 2002, Group 1, Class B
	GR%	0 to 100 %	within 5.0 % CV	Type of protection against electrical shock: CLASS I EQUIPMENT
	LY	0 to 59.9 x 10 ³ /μL	—	Degree of protection against harmful ingress of water: IPX0 (non-protected)
	MO	0 to 59.9 x 10 ³ /μL	—	Degree of safety of application in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide: Equipment not suitable for use with this presence
	GR	0 to 59.9 x 10 ³ /μL	—	Mode of operation: Continuous operation
	PCT	0 to 2.9 %	—	Equipment types (classification): Indoor stationary
	MPV	0 to 20 fL	—	Equipment requirements for marking of IN VITRO DIAGNOSTIC instruments: EN 1658: 1996
	RDW-CV	0 to 50.0 %	—	
	PDW	0 to 50.0 %	—	

Environmental Conditions	Methods	Electromagnetic Compatibility
Storage temperature: -20 to +60°C (-4 to +140°F)	RBC/PLT/WBC: Impedance	IEC 61326-1: 2005
Storage humidity: 10 to 95% (noncondensing)	HGB: Photometry	EN 61326-1: 2005
Storage atmospheric pressure: 700 to 1060 hPa	3-part WBC differentiation: Impedance + specific lyse action	IEC 61326-2-6: 2005
Operating temperature: 15 to 30°C (59 to 86°F)	HCT: Calculated from RBC histogram	EN 61326-2-6: 2006
Operating humidity: 30 to 85%	MCV, MCH, MCHC: Calculated from RBC, HGB, HCT	CISPR11: 2003, Group 1, Class B
Operating atmospheric pressure: 700 to 1060 hPa	PCT: Calculated from PLT histogram	
	MPV: Calculated from PLT, PCT	
	RDW-CV, RDW-SD: Calculated from RBC histogram	
	PDW: Calculated from PLT histogram	

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This brochure may be revised or replaced by NIHON KOHDEN at any time without notice.



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