

# Celltac $\alpha$

Hematology Analyzer  
MEK-6550J/K



Gentle veterinary care



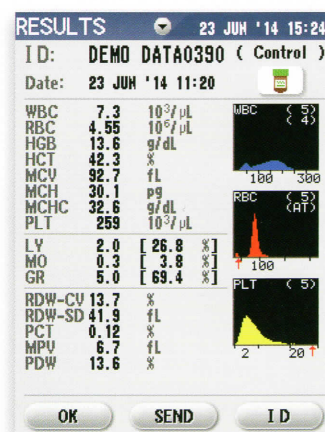
*Fighting Disease with Electronics*

**NIHON KOHDEN**



# Support faster clinical decision making

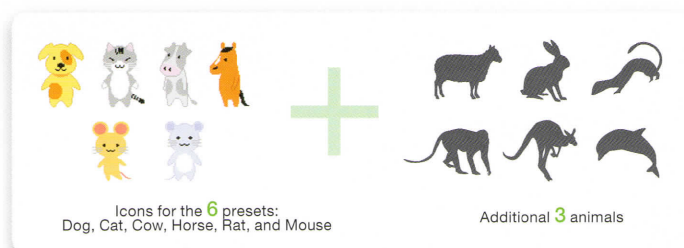
MEK-6550J/K provides accurate results in just 60 seconds. All relevant information, including 21 parameters for dog, cat, cow or horse, plus 3 histograms, is displayed in color on one screen. This leads to more accurate diagnosis and faster intervention.



## Reduce manual eye counting

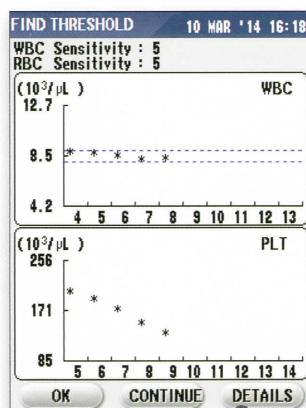
### Expandable animal setting

Six preset animal types — dog, cat, cow, horse, rat and mouse — plus 3 custom animal types allow you automatic counting for a wide range of animals. Custom animal types let you save the settings for your most frequently measured animal types. When you register a new animal type, the Optimum Threshold Search helps you find the best settings. This reduces the workload of smear preparation and manual eye counting.



### Panic value with recounting

When a measurement result exceeds the high or low panic values, the sample can be recounted at a different dilution. The sample is recounted in low dilution mode for low values or higher dilution mode for high values. Panic value recounting provides the best measurement for non-typical samples and the most reliable data.



**FIND THRESHOLD** 10 MAR '14 16:19  
WBC Sensitivity : 5  
RBC Sensitivity : 5

Threshold	WBC	RBC ( 5 )	PLT
1			
2			
3			
4			
5	8.8	4.26	
6	8.7	4.28	202
7	8.5	4.24	190
8	8.2	4.30	174
9	8.3	4.23	149
10			132
11			
12			
13			
14			
15			

OK

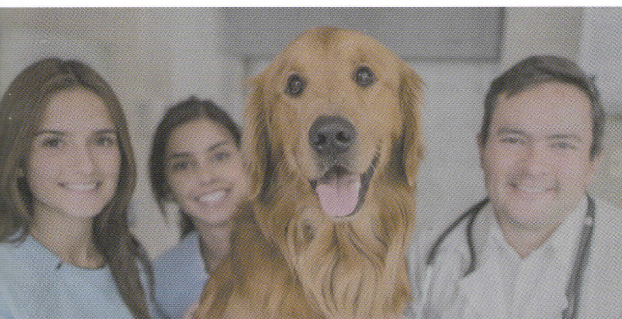
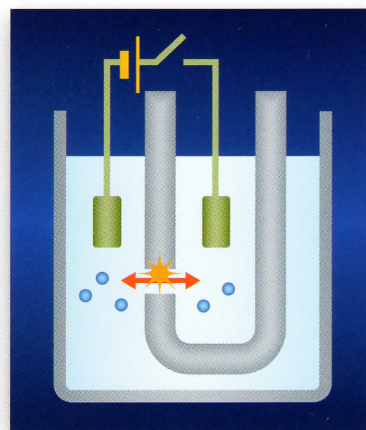
# Gentle veterinary



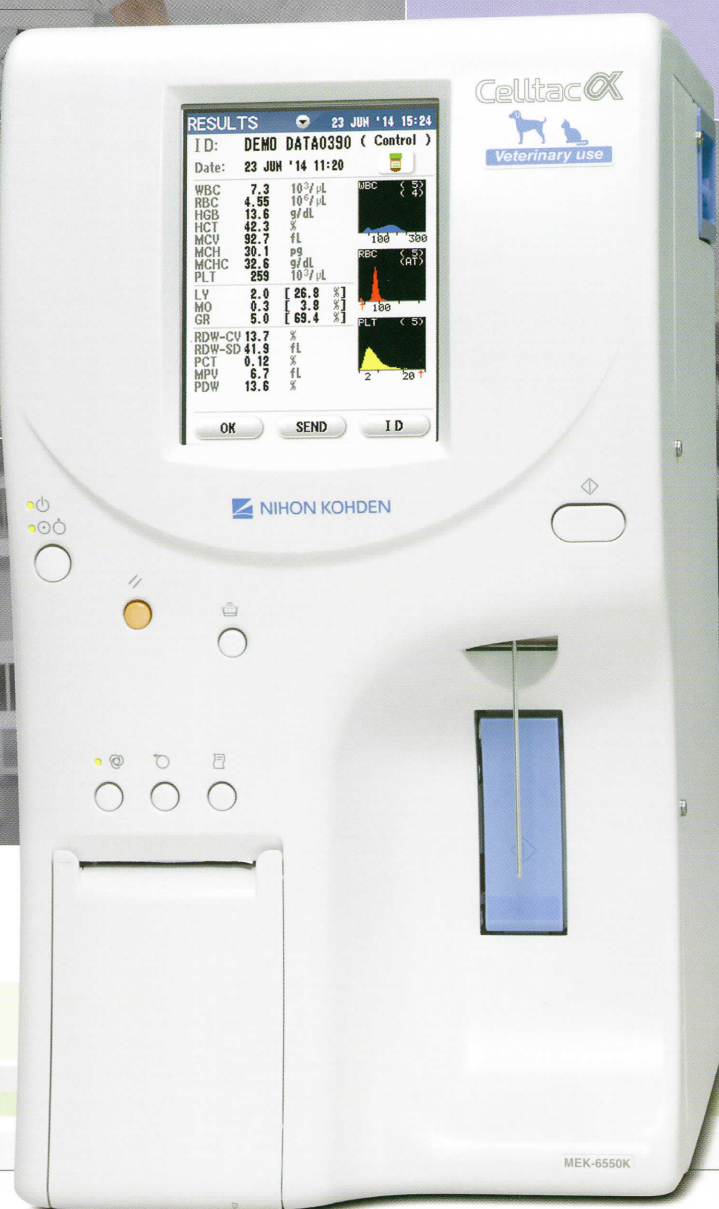
# Always be ready

Fully automatic cleaning and priming ensure that the analyzer is always ready to use. MEK-6550J/K provides you with immediate results to support quick clinical decisions.

- Automatic clog removal after every measurement
- Automatic sample nozzle cleaning after every measurement
- Automatic priming and cleaning at power on
- Automatic fluid path cleaning at power off



Hematology Analyzer  
MEK-6550J/K



# care



# Hematology Analyzer MEK-6550J/K

## Features

21 parameters: dog, cat, cow, horse 13 parameters: rat, mouse, other animals	6 dilution modes: Normal, High, Higher, Lower, Pre-dilution	Unlimited memory (with SD card) QC programs: • Mean • CV calculation • $\bar{X}$ -R • L & J • $\bar{X}$ B • $\bar{X}$ D=CV
Top level accuracy and reproducibility	Automatic self-check	Integrated thermal printer
Easy touch screen operation	Automatic sampling	Password protection access
Fast access buttons	Automatic priming and cleaning	Connection capability
Color LCD screen	Automatic sampling nozzle cleaning	• RS232 • USB • Printer • Barcode reader
Easy maintenance	Automatic clog removal	Single/double count mode
Durable and robust	Automatic waste fluid treatment	Recount mode
Compact	Data management	

## Specifications

### Dimensions and Weight

230 W x 450 D x 428 H (mm) , approx. 20 kg

### Power

#### Power requirements:

MEK-6550J: 110–127 VAC +/- 10%, 50/60 Hz  
MEK-6550K: 220–240 VAC +/- 10%, 50/60 Hz  
Power consumption: less than 120 VA  
Cooling system: Natural cooling

#### Parameters:

WBC, RBC, PLT, HGB, HCT, MCV, MCH, MCHC, PDW, PCT, LY%, LY#, MO%, MO#, GR%, GR#, MPV, RDW CV, RDW SD

### Throughput

about 60 samples/hour

### Dilution Ratio

- Venous blood sample volume: 30  $\mu$ L in normal and low dilution modes, about 10  $\mu$ L in high dilution mode, 5  $\mu$ L in higher dilution mode  
WBC/HGB: 200:1 (in normal dilution mode)  
RBC/PLT: 40,000:1 (in normal dilution mode)
- Pre-dilution blood sample volume: 10  $\mu$ L, 20  $\mu$ L  
WBC/HGB: 1200:1, 600:1  
RBC/PLT: 240,000:1, 120,000:1

## Measuring Range and Reproducibility

WBC	0–59 x 103/ $\mu$ L , 0–599 x 103/ $\mu$ L	within 2.0% CV (4.0–9.0 x 103/ $\mu$ L) Higher dilute mode
*LY%	0–100%	within 5.0% CV (WBC: 4.0–9.0 x 103/ $\mu$ L, LY%: 20–45%)
*MO%	0–100%	within 12.0% CV (WBC: 4.0–9.0 x 103/ $\mu$ L, MO%: 2–10%)
*EO%	0–100%	—
*GR%	0–100%	within 5.0% CV (WBC: 4.0–9.0 x 103/ $\mu$ L, GR%: 40–70%)
*LY	0–59 x 103/ $\mu$ L , 0–599 x 103/ $\mu$ L	— , Higher dilute mode
*MO	0–59 x 103/ $\mu$ L , 0–599 x 103/ $\mu$ L	— , Higher dilute mode
EO	0–59.9 x 103/ $\mu$ L	—
*GR	0–59 x 103/ $\mu$ L , 0–599 x 103/ $\mu$ L	— , Higher dilute mode
RBC	0–14.9 x 106/ $\mu$ L	within 1.5% CV (5.0 x 106/ $\mu$ L)
HGB	0–29.9 g/dL	within 1.5% CV (16g/dL)
HCT	0–99.9%	—
MCV	20–199 fL	within 1.0% CV (70–120 fL)
MCH	10–50 pg	—
MCHC	10–50 g/dL	—
RDW-CV	0–50%	—
RDW-SD	0–199.0 fL	—
PLT	0–1490 x 103/ $\mu$ L	within 4.0% CV (3.0 x 103/ $\mu$ L)
PCT	0–2.9%	—
MPV	0–20 fL	—
PDW	0–50%	—

\*Only available for measuring dog, cat, cow and horse samples.

## Methods

RBC/PLT/WBC: Electrical resistance
HGB: Photometry
WBC classification: Impedance and lyse action
HCT: Calculated from RBC histogram
MCV, MCH, MCHC: Calculated from RBC, HGB, HCT
PCT: Calculated from PLT histogram
MPV: Calculated from PLT, PCT
RDW-CV, RDW-SD: Calculated from RBC histogram
PDW: Calculated from PLT histogram

## Electromagnetic Compatibility

IEC 61326-1:2005
EN 61326-1:2005
IEC 61326-2-6:2005
EN 61326-2-6:2006
CISPR11:2003, Group 1, Class B

## Environmental Conditions

Storage temperature: –20–60°C (–4–140°F)
Storage humidity: 10–95% (noncondensing)
Storage atmospheric pressure: 700–1060 hPa
Operating temperature: 15–30°C (59–86°F)
Operating humidity: 30–85%
Operating atmospheric pressure: 700–1060 hPa

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