

MINDRAY



MEC-1200Vet Portable Veterinary Monitor

- 8.4" color TFT display with 4 waveforms
- Parameters including ECG/RESP, SpO₂, NIBP, TEMP and Pulse Rate
- Maximum 72-hour graphic and tabular trends of all parameters
- Optional recorder and rechargeable battery
- Veterinary specific vital signs ranges



MEC-1200Vet

Portable Veterinary Monitor

Technical Specifications

Safety

Meet requirement of IEC60601-1, CE Marking according to 84/539/EEC and 2004/108/EC

Dimension and weight

Dimension: 258(W) x 128(D) x 244(H) mm
Weight: 4.0 kg (max)

Power Supply

Power Source: AC mains power or Internal battery power

AC Mains Power Source

Power Requirements: AC 100~240V ($\pm 10\%$)
Line Frequency: 50/60 Hz ($\pm 3\text{Hz}$)
Consumption: 80W

Battery Power(optional)

The maximum number of installed battery: 1
Battery Capacity: 2.3amp-hour
Operating time: 120 minutes under the normal use and full charge

Storage Environment

Temperature: -20°C to +60°C
Humidity: 10% to 95%, non-condensing

Operation Environment

Temperature: 0°C to +40°C
Humidity: 15% to 95%, non-condensing

Performance Specification

Display: 8.4" color active matrix TFT
Resolution: 800x600
Trace: 4 waveforms
Sweep Speed: 6.25, 12.5, 25 and 50mm/s
Indicator: Alarm indicator light
Power indicator light
Audio indicators for QRS beep and alarm sound

Interface: Networking
Battery: Rechargeable
Trend time: 1~72 hours
Alarm: 3-level audible and visual alarm
Recorder(optional): Built-in, thermal array, 2 channels
Record width: 48mm, (record paper 50mm)
Record speed: 25mm/s, 50mm/s

ECG

Lead Type: 3-lead
Input: 3-lead: RA; LA; LL or R; L; F
Lead Selection: 3-lead: I; II; III
ECG Waveform: 1 channel
Gain Selection: x0.25, x0.5; x1; x2; auto
Sweep Speed: 12.5mm/s, 25mm/s, 50mm/s
Heart Rate Range: 15~350bpm
Accuracy: 1bpm or $\pm 1\%$, whichever is greater
Resolution: 1bpm
Protection: Withstand 4000VAC/50Hz voltage in isolation.
Anti-electrosurgical interference and defibrillation

CMRR: Diagnostic mode: ≥ 90 dB
Monitor mode: ≥ 105 dB
Surgery mode: ≥ 105 dB

Standard Configuration

ECG, RESP, NIBP, TEMP, SpO₂
Lead Acid Battery

Options

Thermal Recorder

Calibration Signal: 1mV 5%
Bandwidth: Diagnostic mode: 1~15 Hz
Monitor mode: 0.5~35 Hz
Surgery mode: 0.05~100 Hz
Alarm Range: 15-350 bpm
S-T detection: YES
Measurement range: -2.0mV~2.0mV
Alarm range: -2.0mV~2.0mV

Arrhythmia analysis: YES
Pacemaking analysis: YES
Alarm: YES, audible and visual alarm, alarm events recallable

Respiration

Method: RA-LL impedance
Measurement Range: 0~150 BrPM
Resolution: 1 BrPM
Accuracy: $\pm 2\%$ or ± 2 BrPM, whichever is greater
Alarm Range: 0~150 BrPM
Apnea Alarm: YES, and apnea delay: 10-40 seconds

NIBP

Method: Oscillometric
Operation Modes: Manual/Automatic/Continuous
Measurement Unit: mmHg/kPa selectable
Measurement Types: Systolic pressure, Diastolic pressure and Mean pressure
Measurement Range: Systolic: 40-270 mmHg
Diastolic: 10-210 mmHg
Mean: 20-230 mmHg

Over-pressure Protection: YES
Resolution: 1 mmHg
Accuracy: Maximum Mean error: 5mmHg
Maximum Standard deviation: 8mmHg

Alarm: Systolic, Diastolic and Mean

Temperature

Scale: 0°C and °F selectable
Measurement Range: 0~50 °C or 32~122°F
Resolution: 0.1 °C or 0.1 °F
Accuracy: ± 0.1 C (0°C to 50°C), exclusive of probe errors
 ± 0.2 F (32°F to 122°F), exclusive of probe errors

Channel: 1 channel
Alarm Range: 0~50 °C

SpO₂

SpO₂
Range: 0~100%
Accuracy: 70% ~ 100%: 2%
0% ~ 69%: unspecified

Pulse Rate

Range: 20-254 bpm
Accuracy: ± 2 bpm or 2%, whichever is greater



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