

# MINDRAY



## MEC-1200Vet Portable Veterinary Monitor

- 8.4" color TFT display with 4 waveforms
- Parameters including ECG/RESP, SpO<sub>2</sub>, 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:  $\geq 90$  dB  
Monitor mode:  $\geq 105$  dB  
Surgery mode:  $\geq 105$  dB

#### Standard Configuration

ECG, RESP, NIBP, TEMP, SpO<sub>2</sub>  
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  $\pm 2$  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:  $\pm 0.1$  C (0°C to 50°C), exclusive of probe errors  
 $\pm 0.2$  F (32°F to 122°F), exclusive of probe errors  
Channel: 1 channel  
Alarm Range: 0~50 °C

#### SpO<sub>2</sub>

SpO<sub>2</sub>  
Range: 0~100%  
Accuracy: 70% ~ 100%: 2%  
0% ~ 69%: unspecified

#### Pulse Rate

Range: 20-254 bpm  
Accuracy:  $\pm 2$ bpm or 2%, whichever is greater



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