

# MINDRAY



NEW

## PM-9000Vet PORTABLE VETERINARY MONITOR

- 10.4" color TFT display with 7 waveforms
- Parameters including ECG, RESP, SpO<sub>2</sub>, NIBP, TEMP, Pulse Rate, EtCO<sub>2</sub> and Multi-Gas/O<sub>2</sub>
- Maximum 72-hour graphic and tabular trends of all parameters
- Optional recorder and rechargeable battery
- Mainstream or sidestream EtCO<sub>2</sub> options
- Multi-modes selection for different animals



southern anesthesia  surgical  
veterinary medical products division

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Veterinary use only

# PM-9000Vet

## PORTABLE VETERINARY MONITOR

### Technical Specifications

#### Safety

Meet the requirements of IEC60601 series, CE marking according to 841539/EEC,2004/108/EC

#### Size and Weight

Dimensions: 318mm (W) x 264mm (H) x 144mm (D)  
Weight: 5.5kg

#### Operation Environment

Power: AC100~240V, 50/60 Hz  
Temperature: 0~40°C  
Humidity: 15~85%

#### Performance Specifications

Display: 10.4" color TFT  
Resolution: 800x600  
Trace: 8 waveforms  
Sweep speed: 6.25mm/s, 12.5mm/s, 25mm/s, 50mm/s  
Indicator: Alarm indicator  
Power indicator  
QRS beep and alarm sound

#### Interface:

Net Port  
Battery: Rechargeable  
Trend time: 1~72 hours  
Alarm: 3-level audible and visual alarm  
Networking: Connected to Mindray Hypervisor III system  
Recorder: Built-in, thermal array, 2 channels  
Record width: 48mm, (record paper 50mm)  
Record speed: 25mm/s, 50mm/s

#### ECG

5-lead or 3-lead selectable

Lead Mode: 5-lead: RA; LA; RL; LL; V or R; L; N; F; C  
3-lead: RA; LA; LL or R; L; F

Lead selection: I; II; III; avR; avL; avF; Vx; CAL  
ECG waveform: 2 channels  
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 ±1%, whichever is greater  
Resolution: 1bpm  
Protection: Withstand 4000VAC/50Hz voltage in isolation against electro-surgical interference and defibrillation

#### CMRR:

Diagnostic mode: >90dB  
Monitor mode: >105dB  
Surgery mode: >105dB

Calibration signal: 1mV±5%  
Operation modes: Diagnostic, Monitor, Surgery  
Bandwidth: 0.05~100Hz  
15~350bpm

S-T detection: YES  
Measurement range: >2.0mV~+2.0mV  
Alarm range: -2.0mV~+2.0mV

Arrhythmia analysis: YES

#### Pace Detection:

YES  
YES, audible and visual alarm  
Alarm events recallable

#### Respiration

Method: Impedance between R-F(RA-LL)  
Measurement range: 6-150rpm  
Resolution: 1 rpm  
Accuracy: ±2 rpm  
Apnea alarm: 10~40(s)

#### NIBP

Method: Oscillometric  
Operation modes: Manual/Automatic/STAT  
Measurement unit: mmHg/kPa selectable  
Measurement types: Systolic, Diastolic, Mean  
Measurement range: Systolic 40~270mmHg  
Diastolic 10~210mmHg  
Mean 20~230mmHg

#### Over-pressure protection:

YES  
Resolution: 1mmHg  
Accuracy: Mean error and standard deviation per ANSI/AAMI SP-10  
Alarm: Systolic, Diastolic, Mean

#### Temperature

Measurement range: 0~50°C  
Resolution: 0.1°C  
Accuracy: ±0.1°C (not including probe)  
Channel: Dual-channel  
Alarm range: 0~50°C

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

Measurement range: 0~100%  
Resolution: 1%  
Accuracy: ±2% (70~100%);  
0~69% unspecified  
Alarm range: 0~100%

#### Alarm range:

Pulse rate: Range: 20~254bpm  
Resolution: 1bpm  
Accuracy: ±2bpm or ±2%, whichever is greater  
Alarm range: 20~254bpm

#### IBP

Measurement range: -50~300mmHg  
Channel: 2 channels  
Pressure transducer: Sensitivity: 5( μV/V/mmHg)  
Impedance range: 300~3000(ohm)  
Transducer sites: ART, PA, CVP, RAP, LAP, ICP, P<sub>1</sub>, P<sub>2</sub>  
Measurement unit: mmHg/kPa selectable  
Resolution: 1mmHg  
Accuracy: ±1mmHg or ±2%, whichever is greater

#### CO

Method: Thermodilution  
Measurement range: CO: 0.1~20 lit./min.  
TB: 23~43°C  
TI: 0~27°C  
Resolution: CO: 0.1 lit./min.  
Temperature: ±0.1°C  
Accuracy: CO: ±0.1lit/min or ±5%, whichever is greater  
TB: ±0.1°C  
TI: ±0.1°C

#### EtCO<sub>2</sub>

Method: Infrared Absorption  
Measurement Mode: Sidestream or mainstream (optional)  
Measurement range: EtCO<sub>2</sub>: 0~99mmHg  
InsCO<sub>2</sub>: 0~99mmHg  
AWRR: 0~150rpm  
EtCO<sub>2</sub>: 1mmHg  
InsCO<sub>2</sub>: 1mmHg  
AWRR: 1rpm  
Accuracy: CO<sub>2</sub> concentration: ±2mmHg (0~40mmHg)  
±5% of reading (41~76mmHg)  
±10% of reading (77~99mmHg)  
AWRR: ±2rpm  
Alarm range: Same as Measurement range  
Apnea alarm: YES

#### Multi-Gas/O<sub>2</sub>

Method: Infrared Absorption  
Gas sorts: EtCO<sub>2</sub>, N<sub>2</sub>O, Des, Iso, Enf, Sev, Hal, O<sub>2</sub> (optional, paramagnetic sensor)  
Measurement range: EtCO<sub>2</sub>: 0~10% (0~76mmHg)  
N<sub>2</sub>O: 0~100%  
O<sub>2</sub>: 0~100%  
Enf, Iso, Hal: 0~5%  
Sev: 0~8%  
Des: 0~18%  
AWRR: 2~100rpm  
CO<sub>2</sub>: 0.1% (1mmHg)  
N<sub>2</sub>O: 1%  
O<sub>2</sub>: 0.1% (1mmHg)  
Enf, Iso, Hal, Sev, Des: 0.01%  
Resp rate: 1bpm  
Data output: FI and Et Values  
Respiration rate: 4~60±1bpm  
Up to 3 waveforms displayed  
Agent mixture detection  
MAC value displayed

#### Other:

Languages: Chinese, English, French, German, Italian, Spanish, Portuguese, Polish, Russian, Turkish, Czech, Finnish, Dutch, Danish

### Standard configuration:

ECG/RESP, NIBP, Mindray SpO<sub>2</sub>, TEMP, One Battery

### Optional configuration:

Masimo SET™ SpO<sub>2</sub>, 2-IBP, CO, EtCO<sub>2</sub>, Multi-Gas/O<sub>2</sub>, Thermal Recorder, Second Battery



Mindray Portable Veterinary Monitor PM-9000Vet available from:

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