



# M9000A Vet

## Multi-Parameter Veterinary Monitor

- 12.1" TFT LCD High-Resolution Display with up to 10 waveforms
- Convenient handle and easy to operate
- Nellcor/Masimo SpO2 technology ensure perfect motion resistance and low perfusion resistance performance
- Suntech Vet NIBP technology provide faster, safer and more accurate measurement
- Additional module parameter options include:
  - Philips CAPNOSTAT Mainstream CO2 / LoFlo CO2 / Watertrap Sidestream
  - Masimo Phasein Mainstream Multi-Gas
- Multiple measuring functions deliver impressive reliability and performance
- Powerful data storage capability for trend data, alarms, NIBP measurements



**Technical specifications**

Dimension: 318 mm×264 mm×152 mm  
 Weight: 4.5 kg  
 Power Voltage: AC 100-240V 50/60Hz  
 Power Input: ≤85VA

**Display**

Size: 12.1"Color TFT-LCD  
 Resolution: 800×600 pixels

**Trend & Review**

Trend data: 72 Hours  
 NIBP measurement review: 750 Groups  
 Alarm Events : 1000 Group

**ECG**

Lead Mode: 3/5 leads ECG input  
 Lead selection: I, II, III, aVR, aVL, aVF, V  
 Gain: AUTO, 0.25x, 0.5x, 1.0x, 2.0x, 4.0x  
 Input impedance: ≥5.0 MΩ  
 CMRR : ≥105dB  
 Sweep speed: 12.5 mm/s, 25 mm/s, 50 mm/s

**HR**

Measurement Range: 10-350BPM  
 Accuracy: ±1% or ±1 bpm, whichever is greater

**RESP**

Method: Impedance variation between RA-LL (R-F)  
 Measuring impedance range: 0.2 ~3Ω  
 Accuracy: ±2 bpm

**NIBP**

Technique: Automatic Oscillometry  
 Range of measurement: SYS 30~270 mmHg  
 DIA 10~220 mmHg  
 MEAN 20~235 mmHg  
 Pressure Accuracy: ±2% or ±3 mmHg,  
 whichever is greater  
 ±5 mmHg average error  
 ≤8 mmHg standard deviation  
 Unit: mmHg, kPa  
 Pulse rate range: 40 ~ 240 bpm  
 Inflation time for cuff: Less than 40s. (standard cuff)  
 Measurement protection time: <180s

**Suntech Advantage NIBP**

Technique: Automatic Oscillometry  
 Range of measurement:  
 SYS 40~265 mmHg  
 DIA 20~200 mmHg  
 MEAN 27~222 mmHg  
 Pressure Accuracy: ±3 mmHg  
 Unit: mmHg, kPa  
 Pulse rate range: 25 ~ 300 bpm  
 Inflation time for cuff: <75s  
 Measurement protection time: <180s

**BLT SpO2**

Measurement Range: 0~100%  
 Resolution: 1%  
 Accuracy: At 70~100%, ±2%  
 At 0~69%, unspecified  
 Data update period: <13s

**Masimo SpO2**

Measurement range: 0% to 100%  
 Resolution: 1%  
 Accuracy: 70% to 100%:±2% ( Medium Size  
 and large animal, non-motion conditions)  
 70% to 100%:±3% (small animal,  
 non-motion conditions)  
 70% to 100%:±3% (motion conditions)  
 0% to 69%, unspecified

**Nellcor SPO2 (Pulse Oximetry)**

Measurement Range: 0-100%  
 Accuracy: At 70~100%, ±2 digits  
 At 0~69%, unspecified  
 Perfusion Range: 0.03% ~ 20%  
 Data update period: Average 7s

**PR**

Measurement Range: 25~250 bpm  
 Resolution: 1 bpm  
 Accuracy: ±3 digits  
 Data update period: Average 7s  
 Alarm: User-selectable upper and lower  
 pulse rate limits

**TEMP**

Measurement Range : 0.0~50.0°C  
 Unit : Celsius (°C), Fahrenheit (°F)  
 Resolution : 0.1°C  
 Accuracy : ±0.1°C

**IBP**

Measurement Range : -50~300 mmHg  
 Resolution : 1 mmHg  
 Accuracy Static: ± 2mmHg or 2% of the reading,  
 whichever is greater (exclusive of transducer)  
 ± 4mmHg or 4% of the reading,  
 whichever is greater (inclusion of transducer)  
 Dynamic: ± 4mmHg or 4% of the reading,  
 whichever is greater  
 Unit : mmHg , KPa  
 Sensitivity of transducer: 5uV/V/mmHg, 2%  
 Transducer sites: ART/PA/CVP/LAP/RAP/ICP

**CO2(Watertrap Sidestream)**

Method: Infrared spectrum  
 Range: 0.0~13.1% (0~99.6 mmHg)  
 Resolution : 1 mmHg  
 Accuracy: At <5 % CO2, ±0.3% (±2.0 mmHg)  
 At ≥5 % CO2, < ±10 % of reading  
 Range of respiration rate measurement: 3~150 rpm

**CO2 (Philip LoFlo)**

Measure method: Infrared spectrum  
 Warm up time: Capnogram  
 displayed in less than 20 s,  
 At an ambient temperature of 25°C,  
 full specifications within 2 minutes  
 Measurement Range: 0 ~ 19.7%(0 ~ 150 mmHg)  
 Resolution: 1mmHg  
 Accuracy(at 760 mmHg,  
 ambient temperature of 25°C):  
 0 ~ 40 mmHg, ±2 mmHg  
 41 ~ 70 mmHg, ±5% of reading  
 71 ~100 mmHg, ±8% of reading  
 101 ~ 150 mmHg, ±10% of reading

**CO2 (Philips Mainstream)**

Method: Infrared spectrum  
 Measurement Range 0 ~ 19.7%(0 ~ 150 mmHg)  
 Resolution : 1 mmHg  
 Accuracy: 0 ~ 40 mmHg, ±2 mmHg  
 41 ~ 70 mmHg, ±5% of reading  
 71 ~100 mmHg, ±8% of reading  
 101 ~ 150 mmHg, ±10% of reading  
 Respiration Rate Range: 0~150 rpm  
 Respiration Rate Accuracy: ±1 rpm

**Multi Gas(Masimo Phasein Mainstream)**

Fi and Et values: CO2, N2O, agent (HAL, ISO,  
 ENF, SEV, DES)  
 Resolution: 0.1%  
 Calibration: Room air calibration performed  
 automatically when changing airway adapter (<5s)  
 Warm up time: IRMA CO2: < 10s (concentrations  
 reported and full accuracy)  
 IRMA AX+: < 20s (concentrations reported,  
 automatic agent identification  
 enabled and full accuracy)  
 Rise time (at 10 L/min): CO2 ≤ 90 ms  
 N2O ≤ 300 ms  
 Hal, Iso, Enf, Sev, Des ≤ 300 ms  
 Total system response time: < 1 s  
 AWRR measurement range: 0~150 rpm  
 AWRR measurement accuracy: ±1 rpm

**Standard configuration**

3/5 Lead ECG, HR, RESP, NIBP, SpO2, PR, TEMP, Rechargeable Lead-acid battery

**Option**

2-TEMP, 2-IBP, Thermal Recorder, Suntech NIBP, Nellcor/Masimo SpO2, EtCO2 (Sidestream, Mainstream, Microstream), AG(Mainstream), Rechargeable Lithium ion battery

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