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Veterinary Multi-Parameter Vital Sign Monitor

# BM7VET PRO

Elite Performance  
12.1" Touch Screen LCD Monitor



The BM7 Vet Pro encapsulates over 20 years of our intricate research, development, and design dedicated to serve Animal Health practitioners around the globe. Our core values of functional simplicity, elite performance, and uncompromising value are carefully engineered into what we believe to be the most trusted brand in Veterinary multiparameter monitors on the market today. Because everything we do focuses on the needs and efficiency of the clinic, we include premium data management software (BT-Link and BT-Link Mobile ) with all of our monitors at no additional cost.

## Superior Advantages

- ▶ ECG, SpO<sub>2</sub>, NIBP, respiration, IBP, 2 temperatures (Option: EtCO<sub>2</sub>, Anesthetic Gas/O<sub>2</sub>, IBP)
- ▶ 12.1" color TFT touch screen with 6 wave forms (1024x768 pixels)
- ▶ Individual sweep speed setting for each parameter
- ▶ 168 full hours trend data are stored
- ▶ Multiple display modes for ease of viewing
- ▶ Screen freeze ON/OFF
  
- ▶ Extendible Parameters (Option)
  - Mainstream / Sidestream EtCO<sub>2</sub>
  - Mainstream / Sidestream Anesthetic Gas/O<sub>2</sub>
  - Dual Gas (EtCO<sub>2</sub> and anesthetic gas monitoring)

- ▶ Enhanced data management & connectivity
  - Easy network connectivity, supports wireless LAN
  - B2B, Up to 8 BM7Vet Pro can be controlled by one of the networked BM Pro Series
  - BT-LINK Pro and BT-LINK Mobile for real-time monitoring and data recording
  - USB memory storage
- ▶ Advanced Cardiac Parameters
  - 48 hours of full disclosure waveforms provided
  - ST level, PVC count real-time display
  - 13 kinds of arrhythmia analysis
- ▶ Versatile
  - Li-ion battery with longer lifetime (Up to 2hrs for continuous operation / 4hrs using optional battery)
  - External HDMI output for large screen

# SPECIFICATIONS

## General

<b>Display, Resolution</b>	12.1" color TFT, LCD 1024x768 pixels
<b>Dimension, Weight</b>	322(W)x250(H)x224.8(D) mm, Approx. 4.5kg
<b>Trace</b>	6 waveforms :2*ECG, SpO <sub>2</sub> , RR or EtCO <sub>2</sub> or MGAS, 2*IBP Sweep speed : 6.25, 12.5, 25, 50 mm/sec
<b>Indicators</b>	Categorized alarms (3 priority levels) Visual alarm lamp handle QRS beep & SpO <sub>2</sub> pulse beep Percent(%) SpO <sub>2</sub> pitch tone Battery status, external power LED Touch screen, rotary knob
<b>Interfaces</b>	Power supply : AC 100-240V(50/60Hz) DC input connector : 18VDC, 2.8A LAN digital output for transferring data Nurse call system connection 0.3A at 125 VAC, 1A at 24 VDC External HDMI monitor connection USB barcode reader USB memory data storage / Software Upgrade
<b>Battery</b>	Rechargeable Li-ion battery, 2 hours for continuous operation (Option: using additional battery total of 4 hours)
<b>Thermal Printer (option)</b>	Speed : 25,50mm/sec, paper width : 58mm
<b>Data Storage</b>	168hours trends, 20cases of 10sec alarm waveform
<b>Language</b>	English, French, Spanish, Italian, German, Chinese, Russian, Czech, Polish, Turkish, Romanian, Portuguese Bulgarian, Hungarian, Korean

## Accessory

<b>Standard Accessories</b>	3 lead vet ECG cable	1ea
	NIBP extension tube(3m)	1ea
	NIBP vet cuff neonate disposable #1-#5	1set
	NIBP vet cuff infant reusable	1ea
	SpO <sub>2</sub> extension cable(2m)	1ea
	Esophageal ECG probe with temperature	1ea
	Extension cable for esophageal probe	1ea
	Transflectance SpO <sub>2</sub> probe	1ea
	Temperature probe (rectal/esophageal)	1ea
	Reusable multisite SpO <sub>2</sub> probe	1ea
	DC adapter (18 VDC, 2.5A)	1set
	BT-Link Pro (automated record keeping software)	1ea
<b>Optional Accessories</b>	5 lead vet ECG cable	
	Temperature probe(skin)	
	IBP disposable pressure transducer kit	
	IBP reusable pressure transducer kit	
	Mainstream EtCO <sub>2</sub> airway adapter set	
	Sidestream EtCO <sub>2</sub> airway adapter set	
	ECG alligator clip (5ea)	
	3 lead ECG cable (snap type)	
	Dual gas accessories (water Trap, patient sample line/adapter, mount)	

## Optional Module

Mainstream EtCO <sub>2</sub> module (sensor)
Sidestream EtCO <sub>2</sub> module (sensor)
Anesthetic gas/O <sub>2</sub> module (sensor)
Dual Gas module (sensor)

## Performance

### ECG

<b>Leads</b>	3-lead, 5-lead
<b>Lead Selection</b>	3-lead : I, II, III 5-lead : I, II, III, aVR, aVL, aVF, V
<b>ECG Waveforms</b>	3-lead: 1 channel 5-lead: 1/2/7 channels
<b>Heart Rate Range</b>	Horse, dog: 30 to 300 BPM, Pulcat: 30 to 350 BPM
<b>Heart Rate Accuracy</b>	± 1BPM or ± 1%, whichever is greater
<b>Sweep Speed</b>	6.25, 12.5, 25, 50 mm/sec
<b>Filter</b>	· Diagnosis : 0.05 to 150 Hz · Monitoring : 0.5 to 40 Hz · Moderate : 0.5 to 25 Hz · Maximum : 5 to 25 Hz
<b>S-T Segment Detection Range</b>	-2.0 to 2.0 mV
<b>Arrhythmia Analysis</b>	ASYSTOLE, VTACH, V-FIB, BIGEMINY, ACCVENT, COUPLET, IRREGULAR, PAUSE, PVC, RONT, TRIGMINY, VBRADY, SHORTRUN
<b>Protection</b>	Against electrosurgical interference and defibrillation

### Respiration

<b>Method</b>	Thoracic impedance
<b>Channel Selection</b>	RA-LA or RA-LL
<b>Measurement Range</b>	5 to 120 breath per minute
<b>Accuracy</b>	±1 breath per minute
<b>Apnea Alarm</b>	Yes

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

<b>Saturation Range</b>	0 to 100%
<b>Saturation Accuracy</b>	70 to 100% ±2 digits, 0 to 69% unspecified
<b>Pulse Rate Range</b>	30 to 254 BPM
<b>Pulse Rate Accuracy</b>	±2 BPM

### NIBP-Suntech

<b>Method</b>	Oscillometric
<b>Operation Mode</b>	Manual / Automatic / Continuous
<b>Pressure Range</b>	0 to 300mmHg (accuracy : ±3mmHg)
<b>Measurement Range</b>	Systolic: 40 - 265mmHg, MAP: 27 - 222mmHg, Diastolic: 20 - 200mmHg
<b>Initial Inflation Pressure</b>	Large animal mode: 160 mmHg (default), Variable from 120 - 280 mmHg Small animal mode: 160 mmHg (default), Variable from 60 - 280 mmHg
<b>Plus Rate Range</b>	25 to 300 BPM (Beat Per Minute)

### Temperature

<b>Channels</b>	2
<b>Measurement Range</b>	0 to 50°C, 32 to 122°F
<b>Accuracy</b>	25 to 50°C: ±0.1°C, 0 to 24°C: ±0.2°C
<b>Compatibility</b>	YSI Series 400 temperature probes

### IBP (Option)

<b>Channels</b>	2
<b>Measurement Range</b>	-50 to 300mmHg
<b>Accuracy</b>	<100mmHg : ±1mmHg ≥100mmHg : ±1% of reading
<b>Plus Rate Measurement Range</b>	0 to 300 BPM
<b>Zero Balancing Range</b>	Range: ±200mmHg Accuracy: ±1mmHg Drift: ±1mmHg over 24 hours
<b>Transducer Sensitivity</b>	5µV/mmHg

### Mainstream EtCO<sub>2</sub>, Sidestream EtCO<sub>2</sub> - Respironics (Option)

<b>Measurement Range</b>	0 to 150 mmHg, 0 to 19%
<b>Accuracy</b>	0-40mmHg ±2mmHg, 41-70mmHg ±5% of reading 71-100mmHg ± 8% of reading, 101-150mmHg ± 10% of reading
<b>Respiration Rate</b>	0 to 150 breath per minute (Mainstream EtCO <sub>2</sub> ) 2 to 150 breath per minute (Sidestream EtCO <sub>2</sub> )
<b>Respiration Accuracy</b>	±1 breath per minute

### Anesthetic Gas / O<sub>2</sub>-Masimo (Option)

<b>Method</b>	Infra-red absorption characteristic
<b>Mainstream</b>	IRMA AX +
<b>Sidestream</b>	ISA OR+ / AX+
<b>Gas</b>	CO <sub>2</sub> , O <sub>2</sub> , N <sub>2</sub> O, Des, Iso, Enf, Hal, Sev
<b>Warm-up Time</b>	Mainstream (IRMA AX+) Iso accuracy mode : 45s Full accuracy mode : 60s Sidestream (ISA OR+ / AX+ ) : <20s
<b>Sample Flow Rate(for ISA OR+ / AX+)</b>	50 ± 10ml/min
<b>Measuring Range</b>	CO <sub>2</sub> : 0~15% N <sub>2</sub> O : 0~100% Hal/Iso/Enf : 0~8% Sev : 0~10% Des : 0~22% O <sub>2</sub> : 0~100% (SA OR+)
<b>Respiratory Rate</b>	0~150BPM ± 1BPM

### Dual Gas-Bionet (Option)

<b>Method</b>	Sidestream
<b>Gas</b>	CO Iso Sev Enf Hal Des
<b>Range, Accuracy</b>	CO <sub>2</sub> : 0~10%, ± (0.2 vol% + 4% relative) Hal/Iso/Enf /Hal: 0~6%, ± (0.15 vol% + 4% relative) Des : 0~18%, ± (0.15 vol% + 4% relative)
<b>Respiration Rate</b>	0~150BPM ± 1BPM

\* Specifications can be changed without prior notification.

\* You may have distortion or signal noise when you use nonstandard or other brand's accessories. We strongly recommend you use only the authorized accessories which we supply.

\* The ST algorithm has been tested for accuracy of the ST segment data.

The significance of the ST segment changes need to be determined by a veterinarian.