

Enhanced Multi-Parameter Portable Touch Screen Veterinary Monitor

Veterinary Multi-Parameter Vital Sign Monitor

The BM7Vet boasts optional dual IBP modules, EtCO₂ and anesthetic gas module, on top of standard ECG, Respiration, NIBP, Dual Temp and SpO₂. Its 12.1" wide color monitor displays all the vital signs that you want in different colors. Built-in printer offers documentation of all measured values as well as up to 3 waveforms of information. Alarms and settings are easily adjustable and are retained after turning off the power.

BM7Vet

EtCO₂ Ready

FEATURES

Superior Advantages

- ECG, SpO₂, NIBP, Respiration and Temperature
- Includes: temperature, transreflectance SpO₂, and esophageal probes*
- 12.1" color TFT LCD monitor (touch screen)
- Individual sweep speed setting for each parameter
- Multiple display modes
- Remembers your settings

Extendible Parameters

- Mainstream/sidestream CO₂ (can add plug and play main or sidestream EtCO₂ at any time)
- 2 IBP
- Mainstream/sidestream anesthetic gas

Enhanced Data Management

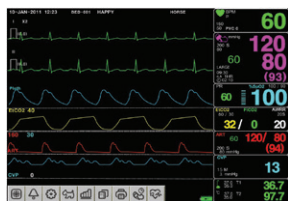
- 7 days of trend data stored
- 20 cases × 10 sec alarm waveform stored
- Includes free BT-Link software download for data collection

High-Performance Measurement

- ST level, PVC count real-time display
- 13 kinds of arrhythmia analysis
- Very low perfusion SpO₂ measurement

Transportable

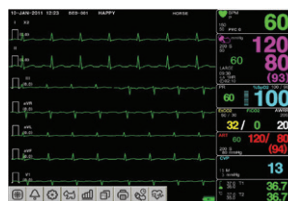
- Li-ion rechargeable battery allows cordless use for up to 2 hours (optional battery provides up to 4 hours)



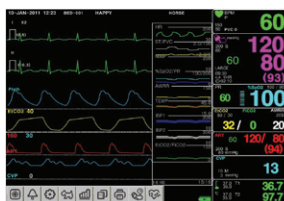
Main Display Mode



Large Parameter Mode



7 Ch ECG Monitoring Mode
(Requires optional 5 lead ECG cable)



Trend Popup Mode



SPECIFICATIONS

General >>>

Monitor Performance Specifications	
Display, Resolution	12.1" color TFT LCD, 800 x 600 pixels
Dimension, Weight	322 (W) x 250 (H) x 224.8 (D) mm, Approx. 4.5 Kg
Trace	6 waveforms: 2 ECG, SpO ₂ , RR or EtCO ₂ , 2 IBP Sweep speed: 6.25, 12.5, 25, 50 mm/sec
Indicators	Categorized alarms (3 priority levels) Visual alarm lamp handle Heart beat tone SpO ₂ pulse pitch tone Battery status, external power LED Touch screen, rotary knob
Interfaces	DC input connector: 18 VDC, 2.5 A Defibrillator Sync. Output: - Signal level: 0 to 5 V pulse - Pulse width: 100 ± 10 ms LAN digital output for transferring data Nurse call system connection: - 0.3 A at 125 VAC - 1 A at 24 VAC DC output: 5 VDC, 1 A Max USB barcode reader USB memory data storage/software upgrade
Battery	Rechargeable Li-ion battery, 2 hours for continuous operation (option: 4 hours, total, using additional battery)
Thermal Printer	Speed: 25, 50 mm/sec, Paper width: 58 mm
Data Storage	168 hour trends 20 cases of 10 sec alarm waveform
Language	English, French, Spanish, Italian, German, Chinese, Russian, Czech, Polish, Turkish, Romanian, Portuguese, Bulgarian, Korean, Hungarian

Accessory	
Standard Accessories	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 ₂ extension cable (2m) 1ea Esophageal ECG probe with temperature 1ea Extension cable for esophageal probe 1ea Transflectance SpO ₂ probe 1ea Temperature probe (rectal/esophageal) 1ea Reusable multisite SpO ₂ probe 1ea DC adapter (18 VDC, 2.5A) 1ea BT-Link automated record keeping software, free download
Optional Accessories	5 Lead vet ECG cable Temperature probe (skin) IBP disposable pressure transducer kit IBP reusable pressure transducer kit Mainstream CO ₂ airway adapter set Sidestream CO ₂ airway adapter set

Optional Module	
	Mainstream CO ₂ module (sensor) Sidestream CO ₂ module (sensor) Anesthetic gas / O ₂ module (sensor) Dual Gas Module (sensor)

Specifications can be changed without prior notification. You may have distortion or signal noise when you use nonstandard or other brands' accessories. We strongly recommend you use only the authorized accessories which we supply.



South Korea: Bionet Co., Ltd. www.ebionet.com
 Tel: +82-70-7585-6418 (Int'l) / +82-2-6300-6483 (Domestic)
 E-mail: sales@ebionet.com (Int'l) / yunms@ebionet.com (Domestic)

North America (U.S.A.): Bionet America, Inc. www.BionetUS.com
 Tel: +1-877-924-6638 or +1-714-734-1760
 E-mail: sales@BionetUS.com

Latin America: Bionet Latin America, Inc. www.ebionet.com
 Tel: +1-949-800-9585
 E-mail: jayshim@ebionet.com

China : Bionet China, Inc. (中国 佰奈特)
 Tel: +86-10-8476-3601 www.ebionet.com.cn
 E-mail: ayw1969@ebionet.com

Performance >>>

ECG	
Lead Type	3-lead, 5-lead
Lead Selection	3-lead: I, II, III 5-lead: I, II, III, aVR, aVL, aVF, V
ECG Waveform	3-lead: 1 Channel 5-lead: 2/7 Channel
Heart Rate Range	Horse, Dog: 30 - 300 BPM Puppy, Cat: 30 - 350 BPM
Heart Rate Accuracy	±1 bpm or ±1%, whichever is greater
Sweep Speed	6.25, 12.5, 25, 50 mm/sec
Filter	Diagnosis: 0.05 - 150 Hz Monitoring: 0.5 - 40 Hz Moderate: 0.5 - 25 Hz Maximum: 5 - 25 Hz
S-T Segment Detection Range	-2.0 to 2.0 mV
Arrhythmia Analysis	Asystole, VTACH, V-fib, bigeminy, accvent, couplet, irregular, pause, PVC, ront, trigeminy, VBRADY, short run
Pacemaker Detection Mode	Indicator on waveform display (user selectable)
Protection	Against electrosurgical interference and defibrillation
Respiration	
Method	Thoracic impedance
Channel Selection	RA-LA or RA-LL
Measurement Range	5 - 120 breaths per minute
Accuracy	±1 breath per minute
Apnea Alarm	Yes
SpO ₂	
Saturation Range	0 to 100%
Saturation Accuracy	70 to 100% ±2 digits, 0 to 69% unspecified
Pulse Rate Range	30 to 254 BPM
Pulse Rate Accuracy	±2
NIBP	
Method	Oscillometric
Operation Mode	Manual/Automatic/Continuous
Pressure Range	0 - 300 mmHg ±3 mmHg
Measurement Range	Systolic: 40 - 265 mmHg MAP: 27 - 222 mmHg Diastolic: 20 - 200 mmHg
Pulse Rate Range	25 - 300 BPM
Temperature	
Channels	2
Measurement Range	0 to 50 °C (32 to 122 °F)
Accuracy	±0.1°C
Compatibility	YSI Series 400 temperature probes
IBP (option)	
Channels	2
Measurement Range	-50 to 300 mmHg
Accuracy	<100 mmHg: ±1 mmHg ≥100 mmHg: ±1% of reading
Pulse Rate Measurement Range	0 to 300 BPM
Zero Balancing	Range: ±200 mmHg Accuracy: ±1 mmHg Drift: ±1 mmHg over 24 hours
Transducer Sensitivity	5 µV/V/mmHg
Mainstream CO ₂ Sidestream CO ₂ - Respironics (option)	
Measurement Range	0 to 150 mmHg, 0 to 19%
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	0 - 150 BPM (Mainstream CO ₂) 2 - 150 BPM (Sidestream CO ₂)
Respiration Accuracy	±1 breath per minute
Anesthetic Gas - Masimo (option)	
Method	Infra-red absorption characteristic
Mainstream	IRMA AX+
Sidestream	ISA OR+ / AX+
Gas	IRMA AX+: CO ₂ , N ₂ O, Des, Iso, Enf, Hal, Sev ISA AX+: CO ₂ , N ₂ O, Des, Iso, Enf, Hal, Sev ISA OR+: O ₂ , CO ₂ , N ₂ O, Des, Iso, Enf, Hal, Sev
Warm-up time	Mainstream (IRMA AX+) - Iso accuracy mode: 45s - Full accuracy mode: 60s Sidestream (ISA OR+ / AX+): <20s
Sample flow rate (for ISA OR+ / AX+)	50 ± 10 ml/min
Measuring Range	CO ₂ : 0 ~ 15 % N ₂ O: 0 ~ 100% Hal/Iso/Enf: 0 ~ 8% Sev: 0~10% Des: 0 ~ 22% O ₂ : 0 ~ 100% (ISA OR+)
Respiratory Rate	0 ~ 150 BPM ± 1BPM
Dual Gas - Bionet (option)	
Method	Sidestream
Gas	CO ₂ , Iso, Sev, Enf, Hal, Des
Range, Accuracy	CO ₂ : 0-10%, ± (0.2 vol% + 4% relative) Iso/Sev/Enf/Hal: 0-6%, ± (0.15% vol% + 4% relative) Des: 0-18%, ± (0.15% vol% + 4% relative)
Respiration Rate	0-150 BPM ±1 BPM

Europe: MGB Endoskopische Geräte GmbH Berlin (Germany)
 Tel: +49-30-6392-7000 www.mgb-berlin.de
 E-mail: sales@mgb-berlin.de