Bionet

Enhanced Multi-Parameter Portable Veterinary Monitor

EtCO2 Ready

BM5Vet

Veterinary Multi-Parameter Vital Sign Monitor

The BM5Vet boasts 2 IBP modules, 2 temperature modules and $EtCO_2$ on top of ECG, Respiration, NIBP and SpO_2. Its 10.4" color TFT screen displays all the vital signs in different colors for easy recognition and enables you to monitor your patient clearly, even in the most difficult lighting conditions.

FEATURES

Superior Advantages

- ECG, SpO_2, NIBP, Respiration and Temperature
  Includes: temperature, transflectance SpO_2, and esophageal probes*
- 10.4" color TFT LCD monitor
- Individual sweep speed setting for each parameter
- Multiple display modes
- Remembers your settings
- Industry's longest warranty – 4 Year!

Extendible Parameters

- Mainstream/sidestream CO_2
- 2 IBP and 2 temperatures

Enhanced Data Management

- 128 full hours of trend data stored
- 20 cases × 10 sec alarm waveform stored
- Includes B-Link software for data collection

High-Performance Measurement

- ST level, PVC count real-time display
- 13 kinds of arrhythmia analysis
- Very low-perfusion SpO_2 measurement

Transportable

- Li-ion rechargeable battery allows cordless use for up to 1.5 hours

Main Display Mode

Large Parameter Mode

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

Trend Popup Mode

*See "Standard Accessories" section on back for all probes included. The esophageal probe is a 3 lead ECG plus temperature.

SPECIFICATIONS

General >>>

Monitor Performance Specifications	
Display, Resolution	10.4" color TFT LCD, 800 x 600 pixels
Dimension, Weight	270 (W) x 250 (H) x 184.5 (D) mm, approx. 4.0 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
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
Battery	Rechargeable Li-ion battery, 1.5 hours for continuous operation
Thermal Printer	Speed: 25, 50 mm/sec, Paper width: 58 mm
Data Storage	128-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 probe 1ea Extension cable for esophageal probe 1ea Transflectance SpO_2 probe 1ea Temperature probe (rectal/esophageal) 1ea Reusable multisite SpO_2 probe 1ea B-Link automated record keeping software 1ea DC adapter (18 VDC, 2.5 A) 1set
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)

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.

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: 2/3/7 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 bpm
NIBP	
Method	Oscillometric
Operation Mode	Manual/Automatic/Continuous
Pressure Range	0 - 300 mmHg
Accuracy	±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 ℃ (32 to 122 ℉)
Accuracy	±1 ℃
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/mmHg
Mainstream CO_2 (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 to 150 breaths per minute
Respiration Accuracy	±1 breath per minute
Sidestream CO_2 (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	2 to 150 breaths per minute
Respiration Accuracy	±1 breath per minute

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