bionet

BM7Vet
ELITE

ULTIMATE PERFORMANCE. COMPREHENSIVE CONNECTIVITY.

Industry's best warranty – **4 Years**

Advanced cardiac analysis – recognizes and alarms for 3 most common lethal arrhythmias.

Optional 5 lead ECG cable allows for 7 channel ECGs with analysis of 13 arrhythmias

Built-in thermal printer comes standard on every monitor.

Accurate and reliable SunTech non-invasive blood pressure technology.

Saves precious clinic space – easily mounts to a rolling cart or wall mount.

FREE BT-Link PRO software – record and convert vital sign data into a digital report which can be imported into most Practice Management/EHR programs.

FREE BT-Link Mobile – allows you to walk away from the surgery suite and monitor patients' vital signs and alarms from anywhere in the clinic – in real-time.

BM7Vet ELITE
SPECIFICATIONS

bionet

General

Display, Resolution	12.1" wide color touch TFT LCD, 1024 x 768 pixels
Dimension, Weight	324 (W) x 257 (H) x 218 (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 QRS beep & SpO$_2$ pulse beep Percent (%) SpO$_2$ pitch tone Battery status, external power LED Touch screen, rotary knob
Interfaces	Power supply: AC 100-240V (50/60Hz) DC input connector: 18VDC, 2.8A LAN digital output for transferring data External HDMI monitor connection USB barcode reader USB memory data storage / software upgrade
Battery	Rechargeable Li-ion battery,10.8V 2 hours for continuous operation
Thermal Printer	Speed: 25, 50mm/sec, paper width: 58mm
Data Storage	168 hours trends, 20 cases of 10 sec alarm waveform
Languages	English, French, Spanish, Italian, German, Chinese, Russian, Czech, Polish, Turkish, Romanian, Portuguese, Bulgarian, Hungarian, Korean, Japanese, Greek

Accessories

Standard Accessories	3 lead vet ECG cable	1 ea
	NIBP extension tube (3m)	1 ea
	NIBP vet cuff neonate disposable #1-#5	1 set
	NIBP vet cuff infant reusable	1 ea
	SpO$_2$ extension cable (2m)	1 ea
	Esophageal ECG probe with temperature	1 ea
	Extension cable for esophageal probe	1 ea
	Transflectance SpO$_2$ probe	1 ea
	Temperature probe (rectal/esophageal)	1 ea
	Reusable multisite SpO$_2$ probe	1 ea
	DC adapter (18 VDC, 2.8A)	1 set
	BT-Link Pro (automated record keeping software)	1 ea
Optional Accessories	5 lead vet ECG cable Temperature probe (skin) IBP disposable pressure transducer kit IBP reusable pressure transducer kit Mainstream EtCO$_2$ airway adapter kit Sidestream EtCO$_2$ airway adapter kit ECG alligator clip (5 ea) 3 lead ECG cable (snap type) Dual Gas accessories (water trap, patient sample line/adapter, mount)	
Optional Modules	Mainstream EtCO$_2$ module (sensor) Sidestream EtCO$_2$ module (sensor) Dual Gas module (sensor) IBP Transducer Connection Cable Advanced Arrhythmia Package (7 channel ECG w/ 5 lead cable)	

Performance

ECG

Leads Type	3-lead, 5-lead (Option)
Lead Selection	3-lead: I, II, III 5-lead (Option): I, II, III, aVR, aVL, aVF, V
ECG Waveforms	3-lead: 1 channel 5-lead (Option): 1/2/7 channels
Heart Rate Range	Horse, dog, puppy, cat: 30 to 300 BPM,
Heart Rate Accuracy	± 1BPM or ± 1%, whichever is greater
Sweep Speed	6.25, 12.5, 25, 50 mm/sec
Filter	• Diagnosis: 0.05 to 150 Hz • Monitoring: 0.5 to 40 Hz • Moderate: 0.5 to 25 Hz • Maximum: 5 to 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, TRIGMINY, VBRADY, SHORTRUN
Protection	Against electrosurgical interference and defibrillation

Respiration

Method	Thoracic impedance
Channel Selection	RA-LL
Measurement Range	5 to 120 breath 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	18 to 450 BPM
Pulse Rate Accuracy	±2 BPM

NIBP-Suntech

Method	Oscillometric
Operation Mode	Manual / Automatic / Continuous
Pressure Range	0 to 300mmHg (accuracy: ±3mmHg)
Measurement Range	Systolic: 40 – 260 mmHg, MAP: 26 – 220 mmHg, Diastolic: 20 – 200 mmHg
Initial Inflation Pressure	Large animal mode: 160 mmHg (default), Variable from 120 - 280 mmHg Small animal mode: 160 mmHg (default), Variable from 60 - 280 mmHg
Pulse Rate Range	25 to 300 BPM (Beat Per Minute)

Temperature

Channels	2
Measurement Range	0 to 50°C (32 to 122°F)
Accuracy	25 to 50°C: ±0.1°C, 0 to 24°C: ±0.2°C
Compatibility	98ME04GA603 temperature probes

IBP (Option)

Channels	2
Measurement Range	-50 to 300mmHg
Accuracy	4% of reading or ±4mmHg, whichever is greater
Plus Rate Measurement Range	0 to 300 BPM
Zero Balancing Range	Range: ±200mmHg Accuracy: ±1mmHg Drift: ±1mmHg over 24 hours
Transducer Sensitivity	5µV/V/mmHg

Mainstream EtCO$_2$, Sidestream EtCO$_2$ - 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 to 150 breath per minute (Mainstream EtCO$_2$) 2 to 150 breath per minute (Sidestream EtCO$_2$)
Respiration Accuracy	±1 breath per minute

Dual Gas-Bionet (Option)

Method	Sidestream
Gas	CO$_2$, Iso, Sev, Enf, Hal, Des
Range, Accuracy	CO$_2$: 0~10%, ± (0.2 vol% + 4% realative) Hal/Iso/Enf /Hal: 0~6%, ± (0.15 vol% + 4% realative) Des: 0~18%, ± (0.15 vol% + 4% realative)
Respiratory Rate	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.