Brio X3VET VETERINARY MONITOR

bionet

Physical Specifications

Dimension(mm)	237(H) x 221(W) x 136.5(D)
Weight(Kg)	2.0
Display	8" Capacitive Touchscreen
Resolution	1024 x 600
Control Keys	Power Key, Trim Knob, Alarm Key, Snapshot Key, NIBP measurement Key
Trace	
Waveforms	Up to 5 - ECG, SpO_2, RR or $EtCO_2$ or AG, 2CH IBP
Sweep Speed	6.25 mm/sec, 12.5 mm/sec, 25 mm/sec, 50 mm/sec

Parameters and Modules

ECG	3 Lead(1CH)
SpO_2	Bionet SpO_2
NIBP	SuntechBP
IBP	2CH
TEMP	2CH
Optional	- $EtCO_2$ Mainstream & Sidestream
	- 7CH ECG, AG(Dual-gas)

ECG

Method	Meets the requirements of IEC 60601-2-27: 2011 and IEC 60601-2-25: 2011
ECG Leads	3 Lead : 1CH I, II, III 5 Lead : 2/7CH I, II, III, aVR, aVL, aVF, V
Heart Rate	
Range	15 to 350 bpm
Accuracy	±1 bpm or ±1%, whichever is greater
ST Segment Detection Range	-2.0 to 2.0 mV
Protection	Against electrosurgical interference and defibrillation

Respiration

Method	Thoracic impedance
Channel Selection	RA-LL / RA-LA
Measurement Range	5 to 120 bpm
Accuracy	±1 bpm
Apnea Alarm	Yes

SpO_2

Range	0 to 100%
Accuracy*	70 to 100% : ±2 digits 0 to 69% : unspecified
Pulse Rate Range	18 to 450 bpm
Pulse Rate Accuracy	±2 bpm

* The specified accuracy is the root-mean-square (RMS) difference between the measured values and the reference values.

Non-Invasive Blood Pressure

Standard	Meets the requirements of ISO 80601-2-30:2018
Method	Oscillometry with step deflation
Operation Mode	Manual/Automatic
Measurement Range	Systolic : 40 to 260 mmHg MAP : 26 to 220 mmHg Diastolic : 20 to 200 mmHg
Accuracy	Mean error : less than ±5 mmHg Standard deviation : less than 8 mmHg

Temperature

Standard	Meets the requirements of ISO 80601-2-56:2018
Method	Thermal resistance
Operation Mode	Direct
Measurement Range	0 to 50℃ (32 to 122℉)
Accuracy	25 to 45℃ : ±0.1℃ Below 25℃, above 45℃ : ±0.2℃
Compatibility	98ME04GA603 temperature probes

IBP

Standard	Meets the requirements of IEC 60601-2-34: 2011
Channels	2CH
Measurement Range	-50 to 300 mmHg
Accuracy	±4% of reading or ±4 mmHg, whichever is greater
Pulse Rate Measurement Range	20 to 300 bpm
Zero Balancing	Range : ±200 mmHg Accuracy : ±1 mmHg Drift : ±1 mmHg over 24 hrs
Transducer Sensitivity	5μV/V/mmHg

$ETCO_2$(Main/Side)

Standard	Meets the requirements of ISO 80601-2-55:2018
Measurement Range	0 to 150 mmHg, 0 to 19%
Accuracy	0 to 40 mmHg ±2 mmHg, 41 to 70 mmHg ±5% of reading 71 to 100 mmHg ±8% of reading 101 to 150 mmHg ±10% of reading
Respiration Rate	2 to 150 bpm
Respiration Accuracy	±1 bpm

AG(Dual-gas)	
CO_2	
Range	0 to 76 mmHg; 0 to 10.1 kPa; 0 to 10% CO_2 STPD (standard temperature and pressure dry)
Accuracy	± (0.2% vol% + 4% relative)
N2O Interference	30% N2O increases CO2 reading by 3.25mmHg at 10% CO2
Anesthetic Agents	
Gases	Isoflurane, Desflurane, Sevoflurane
Range	Iso. & Sev.: 0 to 6% Des.: 0 to 18%
Accuracy	± (0.15% vol% + 4% relative)
Resolution	0.01%
Respiration	
Range	0 to 150 bpm
Accuracy	±1 bpm
Flow Rate	
Range	175 ml/min
Accuracy	±25 ml/min

Environmental Specifications

Temperature	
Operating	5 to 40 °C (41 to 104 °F)
Storage	–20 to 60 °C (–4 to 140 °F)
Humidity	
Operating	30 to 85%
Storage	10 to 95% (Package)
Altitude	
Operating	525 to 795 mmHg (70 to 106 kPa)
Storage	375 to 795 mmHg (50 to 106 kPa)

Power Specifications

Power Consumption	< 35 W
Line Voltage	100 to 240 VAC
Current	1.5 to 0.75 A
Frequency	50/60 Hz
Battery	Rechargeable Lithium ion 10.8 V 3,250mAh / 6,500mAh

Interface Specifications

Interface	AC input connector LAN port for transferring data HDMI output connector 2 USB 2.0 connector Printer module connector
Data Storage	
Common	168 hrs trends data
Option	1,000 alarm events (All numbers and waveforms for a total of 16 sec, 8 sec before and after the event)
Indicators	3 Colors visual alarm lamp, SpO_2 pulse pitch tone, Battery status, External power LED
Network	
Wired	IEEE 802.3
Wireless	IEEE 802.11 (a, b, g, n)
Safety	
Type of Protection	Class I
Ingress Protection	IPX2

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