Brio X50 PATIENT MONITOR

Physical Specifications

Dimension(mm)	308(H) x 273(W) x 140(D)
Weight(Kg)	3.1
Display	12.1" Capacitive Touchscreen
Resolution	1280 x 800
Control Keys	Power Key, Trim Knob, Alarm Key, Snapshot Key, NIBP measurement Key
Trace	
Waveforms	Up to 8
Sweep Speed	6.25 mm/sec, 12.5 mm/sec, 25 mm/sec, 50 mm/sec

Parameters and Modules

ECG	5 Lead(7CH)
SpO_2	$ChipO_2$
NIBP	Bionet or Suntech
IBP	4CH
TEMP	2CH
$EtCO_2$	Mainstream & Sidestream
Optional	- 12CH ECG, Exergen® Temporal

ECG

Method	Meets the requirements of IEC 60601-2-27: 2011 and IEC 60601-2-25: 2011
ECG Leads	5 Lead : 2/7CH I, II, III, aVR, aVL, aVF, V 10 Lead : 12CH I, II, III, aVR, aVL, aVF, V1, V2, V3, V4,V5,V6
Heart Rate	
Range	Adult : 15 to 300 bpm Pediatric/Neonate : 15 to 350 bpm
Accuracy	±1 bpm or ±1%, whichever is greater
ST Segment Detection Range	-2.0 to 2.0 mV
Arrhythmia Analysis	Asystole, V-Tach, V-Tach/V-Fib, Bigeminy, Trigeminy, Acc Vent Couplet, Irregular, Pause, R on T, V-Brady, Short Run, PVC
Pacemaker Detection Mode	Indicator on waveform display (user selectable)
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

$ChipO_2$	
Range	0 to 100%
Accuracy*	70 to 100% : ±2 digits 0 to 69% : unspecified
Pulse Rate Range	30 to 254 bpm
Pulse Rate Accuracy	±2 bpm

Non-Invasive Blood Pressure

Standard	Meets the requirements of ISO 80601-2-30:2018
Method	Oscillometry with step deflation
Operation Mode	Manual/Automatic/Continuous
Measurement Range	
Adult	Systolic : 40 to 255 mmHg MAP : 26 to 220 mmHg Diastolic : 20 to 200 mmHg
Pediatric	Systolic : 40 to 230 mmHg MAP : 26 to 183 mmHg Diastolic : 20 to 160 mmHg
Neonate	Systolic : 40 to 130 mmHg MAP : 26 to 110 mmHg Diastolic : 20 to 100 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

IR Temperature

Operation Mode	Adjusted
Measurement Range	16 to 43℃ (61 to 110℉) Below 16℃ (61℉) : not supported
Accuracy	±0.1℃ (±0.2℉)

$ETCO_2$(Main/Side)

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

IBP

Standard	Meets the requirements of IEC 60601-2-34: 2011
Channels	2CH or 4CH

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

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)
Clinical Assistive Application (CAA)	OXY CRG, EWS, GCS, Drug Cal.
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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