

# Brio X30 PATIENT MONITOR



## 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 <sub>2</sub> , RR or EtCO <sub>2</sub> or 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 <sub>2</sub>	ChipO <sub>2</sub>
NIBP	Bionet or Suntech
IBP	2CH
TEMP	2CH
EtCO <sub>2</sub>	Mainstream & Sidestream
Optional	- 7CH ECG, Exergen® Temporal

### 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	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<sub>2</sub>

ChipO <sub>2</sub>	
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°C (32 to 122°F)
Accuracy	25 to 45°C : ±0.1°C Below 25°C, above 45°C : ±0.2°C
Compatibility	98ME04GA603 temperature probes

### IR Temperature

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

### ETCO<sub>2</sub>(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

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 <sub>2</sub> 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

### Headquarters Bionet Co., Ltd.

5F, 61 Digital-ro 31-gil, Guro-gu, Seoul, Korea 08375

TEL. +82 2 6292 6410

E-Mail. domestic.sales@ebionet.com

info.sales@ebionet.com