



NEW

Q7

Modular Patient Monitor



TECHNICAL SPECIFICATION:_____Q7

Q7 Main Unit

Size and Weight

– Size: 335mmX366mmX172mm – Weight : ≤ 6 kg – Standard module slot: 3	
Power supply – Power Voltage: AC 100-240V 50/60Hz – Input Current: 1.7~0.8A – Safety class: Category I	
Display – 15" Color TFT-LCD – Resolution : 768 × 1024 pixels	
Battery – Type: Rechargeable Lithium battery, 11.1V/4.0AH – Operating time under the normal use and full charge : ≥120minutes (2 batteries for 240 minutes)	
Recorder (Option) – Method : Thermal dot array – Paper width : 50 mm (1.97 in) – Paper length: 15m – Paper Speed : 12.5 / 25 / 50 (mm/sec) – Traces : Maximum 3 tracks – Recording way : Real-time recording, Periodic recording, Alarm recording	
Alarm – Level : Low, medium and high – Indication : Auditory and visual – Patient Physiological Alarm Light color: Yellow & Red: – Equipment Technical Alarm Light color: Blue – Supports Pitch Tone and multi-level volume; – Supports custom arrhythmia tone	
Input device – Touch screen:standard config – Mouse input:Support – Keyboard input:Support	
System Output & Extensible Interfaces – Ethernet Network: 1 Standard RJ45 socket – Defibrillation Output:1 BNC connector – Nurse Call: 1 RJ11 connector – Video Output : 1 VGA port – SD meomery card : 2G (Option) – Analog Output (ECG or IBP) : Option	
Trend & Reviewing : – Trend : Lond trend:168h,minimum resolution is 1min (store when power goes off) High resolution trend:2h, minimum resolution is 5s – NIBP measurement reviewing : 1000 groups – ARR event: 128 groups of ARR event and the associated waveform. – Alarm events:128 groups of parameter alarm events and associated parameter waveform at the alarm moment – Full Disclosure waveform: 24 hours for 3 waveforms(with 2G SD cord)	
Environment – Operating temperature:0℃ ~ +40℃ – Storage temperature:-20℃ ~ +50℃ – Operating humidity:15% to 85% non condensing – Storage humidity:10% to 93% non condensing – Operating atmospheric pressure: 860hPa to 1060hPa – Storage atmospheric pressure:500hPa to 1060hPa	
Safety: – IEC60601-1 Approved, CE marking according to MDD93/42/EEC	
Performance: ECG – Lead Mode : 3-leads ECG input 5-leads ECG input 12-leads ECG input – Lead selection :I, II, III I, II, III, aVR, aVL, aVF, V- I, II, III, aVR, aVL, aVF, V1~V6 (option) 2.5 mm/mV(x0.25), 5 mm/mV(x0.5), 10 mm/mV(x1), 20 mm/mV(X2),40mm/mv(x4),Auto – CMRR : Monitor mode≥105dB Surgery mode ≥105dB Diagnostic mode≥90dB – Frequency response (-3d B): Monitor mode 0.5~40Hz Surgery mode 1~25Hz Diagnostic mode 0.05~150Hz – Input impedance : ≥5.0 Mohm – ECG signal range: ± 10.0mV – Electrode offset potential: ± 500mV – Patient Leakage Current : <10 uA – Standardizing signal :1 mV ± 5% – Baseline recovery : <5s after Defibrillation. (Mon or Surg mode) – Indication of electrode separation : Every electrode (exclusive of RL) – Protection: Breakdown Voltage 4000VAC 50/60Hz; defibrillator proof – Sweep speed : 12.5mm/s, 25mm/s, 50mm/s – HR – Range : Adult 10~300 bpm Pediatric & Neonate: 10 ~350bpm	

	Refreshing time : ≤50 bpm Per 2 pulses 50~120bpm Per 4 pulses ≥120bpm Per 6 pulses
– Resolution : 1 bpm – Accuracy : ± 1% or ± 1bpm, whichever is greater	
ST segment – Measurement range : -2.0mV~2.0mV – Accuracy: -0.8mV~0.8mV ; ± 0.02mV or ± 10%, whichever is greater Over±0.8mV: unspecified – Resolution : 0.01mV	
RESP – Method : Thoracic impedance – Lead Selected from: I (RA-LA) or II (RA-LL); Default: I – Gain : x0.25, x1 x2 x4 – Bandwidth: 0.25 Hz to 2.0Hz (-3dB) – Sweep speed : 6.25mm/s, 12.5mm/s, 25mm/s – Measurement Range : 0~150 rpm – Resolution : 1 rpm – Accuracy : ± 2rpm or ± 2%, whichever is greater – Delay of Apnea Alarm : 10s,15s,25s,30s,35s,40s,45s,50s,55s, 60s	
NIBP – Way of measurement : Automatic oscillometry – Range of measurement : Adult : SYS 30~270 mmHg DIA 10~220 mmHg MAP 20~235 mmHg Child: SYS 30~235 mmHg DIA 10~220 mmHg MAP 20~225 mmHg Neonate: SYS 30~135 mmHg DIA 10~100 mmHg MAP 20~125 mmHg – Cuff pressure range : 0~300 mmHg – Resolution : 1 mmHg – Pressure Accuracy : Static : ± 2% or ± 3mmHg , whichever is greater Clinical : ±5 mmHg average errorr standard deviation : ≤8 mmHg – Unit: mmHg, kPa – Measurement mode:Manual , Auto, STAT – Intervals for AUTO measurement time : 1,2,3,4,5,10,15,30,60,90 minutes; 2,4,8,12hours – STAT mode cycle time : Keep 5 minutes, at 5 seconds interval. – Overpressure Protection : Hardware and software double protections – Pulse rate range : 40 ~ 240 bpm	
BLT-SpO2 (Digital Technic) – Measurement Range : 0~100% – Resolution: 1% – Accuracy: At 70~100%, ±2% At 0~69%, unspecified	
PR – Measurement Range : 25~255 bpm – Resolution : 1 bpm – Accuracy : ± 1% or ± 1 bpm, whichever is greater	
Nellcor-SpO2 (option) – Measurement Range : 0~100% – Resolution : 1% – Accuracy : At 70~100%, ±2% (Adult) At 70~100%, ±3% (Neonate) At 70~100%, ±2% (Low Perfusion) At 0~69%, unspecified	
PR – Measurement Range : 20~300 bpm – Resolution : 1 bpm – Accuracy : 20bpm to 250bpm: ± 3 bpm 251bpm to 300bpm: unspecified	
Masimo SpO2 (option) – Measurement range:0% to 100% – Resolution: 1% – Accuracy: 70% to 100% ± 2% Adult/pediatric, non-motion conditions 70% to 100% ±3% Neonate, non-motion conditions 70% to 100% ±3% Motion conditions 0% to 69% unspecified – Average time: 2-4s, 4-6s, 8s, 10s, 12s, 14s, 16s	
PR – Measurement range:25 bpm to 240 bpm – Accuracy : ± 3bpm Non-motion conditions ± 5bpm motion conditions – Resolution:1 bpm	
TEMP – Max Channel : 8 – Measurement way: Thermal resistance way – Measurement Range : 0.0℃ ~ 50.0℃ (32°F~122°F) – Accuracy : ±0.1℃ or ±1 ° F (exclusive of probe) – Resolution : 0.1℃ or 1 °F – Unit : Celsius (℃), Fahrenheit (° F)	
IBP – Max Channel : 8 – Measurement way: Directly invasive pressure measurement – Sensitivity of transducer: 5uV/V/ mmHg, ± 2% – Impedance of transducer: 300 to 3000Ω	

Standard configuration :

Mainunit: 15" TFT-LCD display, 3 Standard module slot, Touch Screen, 1 RJ45 enthernet socket, 1 Defibrillation Output, 1 Nurse Call socket, 1 VGA port, 2 USB1.1 port, 1 Lithium rechargeable battery.

Option :

Option Module: Sidestream CO₂ Module, Microstream CO₂ module, Mainstream CO₂ module, AG module, C.O. module, IBP module, Temp module, Masimo SpO2 module, Nellcor SpO2 module.
Navigating: USB compatible mouse and keyboard.
Printing: 3 channel thermal recorder
Mounting: Rolling stand , wall mount
Battery: 11.1V/4.0AH Rechargeable Lithium Battery.
Other options: External Display, Wireless Lan, Extensive Memory card, Analog Output (ECG or IBP)



*Specifications subject to change without prior notice.

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