

Care Vision MQ7

Modular Patient Monitor



Features

- Modular design for maximum flexibility
- 3 standard module slots for easy device upgrade and configuration
- Vertical display format for more physiologic waveform
- High-resolution 15" TFT touch display
- RJ45 Ethernet, VGA and USB ports for networking, external display and keyboard/mouse
- Options: 12-lead ECG, 2-IBP, Nellcor SpO2, Masimo SpO2, EtCO2 (Side/Micro/Main-Stream) Anesthetic Gas, Cardiac Output, 3-Channel Printer, SD Memory Card, Wireless Networking for Central Monitoring

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Technical Specifications

System

Dimension	335 mm x 366 mm x 172 mm
Weight	≤ 6 kg
Power Supply	AC 100 - 240V, 50/60Hz, 1.7 ~ 0.8A
Battery	Rechargeable Lithium Battery, 11.1V, 4.0Ah Operation time : ≥120minutes
Display	15" Color TFT LCD, 768 X 1024 pixels
Input device	Standard : Touch screen / Support : Mouse, Keyboard input
System Interface	Ethernet network : 1 standard RJ45 socket, Defibrillation output : 1 BNC connector, Nurse call : 1 RJ11 connector, Video output : VGA port, SD memory card : 2GB (option), Analog output : ECG or IBP(option)
Alarm	Level : Low/Medium/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, Support custom arrhythmia tone
Trend & Reviewing	Trend : Long trend 168h, minimum resolution is 1min High resolution trend 2h, minimum resolution is 5sec NIBP measurement reviewing : 1000 groups ARR event : 128 groups of ARR event and associated waveform, Alarm event : 128 groups of parameter alarm event and associated parameter waveform at the alarm moment, Full Disclosure waveform : 24 hours for 3waveforms (with 2G SD cord)

Performance

ECG	
Lead mode	3-leads / 5-leads / 12leads ECG input
Lead selection	I, II, III / I, II, III, aVR, aVL, aVF, V- / I, II, III, aVR, aVL, aVF, V1 ~ V6(option)
Gain	2.5 mm/mV(x0.25), 5 mm/mV(x0.5), 10 mm/mV(x1.0), 20 mm/mV(x2.0), 40 mm/mV(x4.0), Auto
Sweep speed	12.5 mm/s, 25 mm/s, 50 mm/s
CMRR	Monitor mode, Surgery mode : ≥ 105 dB Diagnostic mode : ≥ 90 dB
Frequency Response(-3dB)	Monitor mode : 0.5 ~ 40 Hz Surgery mode : 1 ~ 25 Hz Diagnostic mode : 0.05 ~ 150 Hz
Input impedance	≥ 5.0 MΩ
Signal range	± 10.0 mV
Electrode offset potential	± 500 mV
Patient leakage current	< 10 μA
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 400VAC 50/60 Hz, Defibrillator proof
HR	
Range	Adult 10 ~ 300 bpm Pediatric & Neonate : 10 ~ 350 bpm
Resolution	1 bpm
Accuracy	± 1 % or ± 1 bpm, whichever is greater
ST segment	
Measurement range	- 2.0 mV ~ 2.0 mV
Accuracy	-0.8mV ~ 0.8mV : ±0.02mV or 10%, whichever is greater Over ± 0.8 mV : unspecified
Resolution	0.01 mV
RESP	
Method	Thoracic impedance
Lead Selected from	I (RA-LA) or II (RA-LL), default I
Gain	X0.25, X1.0, x2.0, x4.0
Sweep speed	6.25mm/s, 12.5mm/s, 25mm/s
Measurement range	0 ~ 150 rpm
Resolution	1 rpm
Accuracy	± 2 rpm 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 20 ~ 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 ± 3 mmHg, whichever is greater Clinical : ± 5 mmHg average error 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, 12 hours	
STAT mode cycle time	Keep 5 minutes, at 5seconds interval	
Overpressure protection	Hardware and software double protections	
Pulse rate range	40 ~ 240 bpm	
BLT-SpO₂		
SpO₂ Measurement range	0 ~ 100 %	
SpO₂ Resolution	1 %	
SpO₂ Accuracy	At 70 ~ 100 %, ±2% / At 0 ~ 69 %, unspecified	
PR Measurement range	25 ~ 255 bpm	
PR Resolution	1 bpm	
PR Accuracy	± 1 % or ± 1 bpm, whichever is greater	
TEMP		
Max channel	8	
Measurement way	Thermal resistance way	
Measurement range	0.0 °C ~ 50.0 °C (32 °F ~ 112 °F)	
Accuracy	± 0.1 °C or ± 1 °F (exclusive of probe)	
Unit	Celsius (°C), Fahrenheit (°F)	
IBP		
Max channel	8	
Measurement way	Directly invasive pressure measurement	
Sensitivity of transducer	5μV/mmHg, ± 2%	
Impedance of transducer	300 to 3000Ω	
Measurement range	-50 ~ +350 mmHg	
Resolution	1 mmHg	
Unit	mmHg, kPa, cmH ₂ O	
Accuracy	Static : ± 1 mmHg or 2%, whichever is greater(exclusive of transducer) ± 4 mmHg or 2%, whichever is greater(inclusive of transducer) Dynamic : ± 4 mmHg or 4%, whichever is greater Transducer sites : Arterial Pressure (ART), Pulmonary Artery Pressure (PA), Left Atrium Pressure (LAP), Right Atrium Pressure (RAP), Central Venous Pressure (CVP), Intracranial Pressure (ICP), P1/P2	
Selection of measurement range	ART : 0 ~ +350 mmHg PA : - 10 ~ +120 mmHg CVP/RAP/LAP/ICP : - 10 ~ + 40 mmHg P1/P2 : - 50 ~ + 350mmHg	
Configuration		
Standard	15" TFT-LCD display, 3 standard module slot, Touch screen, 1 RJ45 ethernet socket, 1 Defibrillation output, 1 Nurse call socket, 1 VGA port, 2 USB 1.1 port, 1 Lithium rechargeable battery	
Options	Module : Sidestream CO ₂ module, Microstream CO ₂ module, Mainstream CO ₂ module, AG module, C.O. module, IBP module, TEMP module, Masimo SpO ₂ module, Nellcor SpO ₂ module / Printing : 3 channel thermal recorder / Mounting : Rolling stand, wall mount / Others : External display, Wireless LAN, External memory card Analog output(ECG or IBP)	

* Technical specifications are subject to change without prior notice. The functions and technical features detailed here are valid at the time of press. They are neither legally binding nor guaranteed. All features are liable to change without notice. For latest data, please contact your dealer.