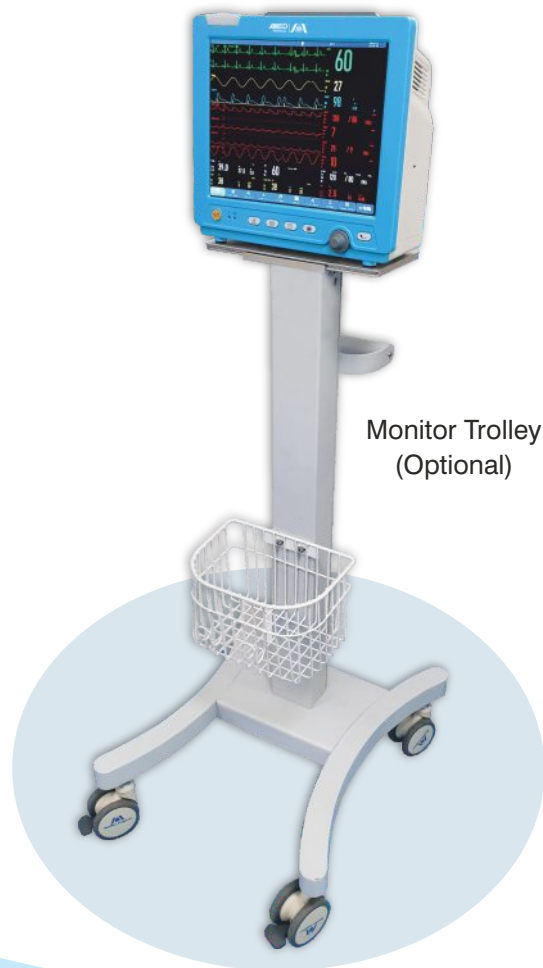




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MEDICAL

Meditec M747

Multi-Parameter Patient Monitors



Monitor Trolley
(Optional)

Features

- 12.1" LED Screen
- Pre-configured, light weight and sturdy design
- Flexible parameter configuration for different clinical environment
- Rechargeable Li-ion battery backup (up to 5 hours)
- Graphical and tabular trends of 168 Hrs.
- Defibrillation Interface & Cautery Protection

Optional Features

- Touch Screen Display
- Dual IBP
- EtCO₂
- In-built Thermal Printer
- Wall Mount
- Mobile Trolley
- Bed Rail Mount
- Connectivity with Central Monitoring System
Wired/Wireless

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Technical Specifications

Display

General Parameters	Suitable Bedside monitors for Adult/Paediatric & neonatal patients User selectable priority alarms - Red, Yellow, Orange color coded
Sweep Speed	6.25mm/s, 12.5mm/s, 25mm/s, 50mm/s
Various working interface selectable	Standard Monitoring Display, Large Font Intensive Care Display, Trend Graph/ Monitoring Co-Display, Bed to Bed view Display, OxyCRG Dynamic View Display, Drug Dose Calculation Interface
Trends	Tabular & Graphical trends
Events	ECG, SpO ₂ , NIBP with waveform & review

ECG

Lead Mode	3 Leads (I, II, III), 5 Leads (I, II, III, aVR, aVL, aVF, V) 12 Leads (I, II, III, aVR, aVL, aVF, V1-V6)
Waveform	Up to 12 waveforms display on screen
4 selectable plus	0.25, 0.5, 1, 2 cm/mV
PACE Detection	Automatic
Defibrillation energy distributary	
Input voltage range	±8mV, polarized voltage: ±500mV
CMRR Diagnosis	> 100 dB (no 50Hz/60Hz software wave trap)
Monitor	> 110 dB (has 50Hz/60Hz software wave trap)
Surgery	> 100dB (50Hz/60Hz software wave trap)
System noise	<30µV p-p (RTI)

HR Measuring and Alarm Range

Adult/Paed	15 bpm – 300bpm
Neo	15 bpm – 350bpm
Accuracy	±1% or ±1bpm, which great
Resolution	1 bpm
Sensitivity	> 200 µV P-P
Differential Input Impedance	≥ 5 MΩ
Electrode offset potential	300mVd.c. – 600mVd.c.
Patient leakage current	< 10 µA
ECG Signal Range	6 mV (Vp-p).
ST Segment Monitoring Range	
Measure and Alarm	-2.0 – +2.0 mV

SpO₂

Method	Self / Masimo
Measuring Range	1–100%
Alarm Range	1–100%
Resolution	1 %
Accuracy	
Adult / Paediatric	±1 digit (70%–100% SpO ₂)
Adult / Paediatric with Low-perfusion	Undefined (0–70% SpO ₂)
Neonate	±1 digit (70%–100% SpO ₂)
Neonate with Low-perfusion	Undefined (0–70% SpO ₂)
Pulse Rate Measuring and Alarm Range	20–300bpm

IBP (Optional)

Channel	Up to 4 channel
Label	ART, PA, CVP, RAP, LAP, ICP, P1, P2
Static Pressure Measuring Range	(-)50 – +300 mmHg (up to 350 mmHg)
Static Pressure Accuracy	±2% or ±1mmHg whichever is higher
Dynamic Pressure Measuring Range	(-) 50 – +300 mmHg
Dynamic Pressure Accuracy	2 % or 1mmHg which bigger
Measuring and Alarm Range	
ART	0 – 300 (mmHg)
PA	6 – 120 (mmHg)
CVP/RAP/LAP/ICP	(-)10 – 40 (mmHg)
P1/P2	(-)50 – 300 (mmHg)
Resolution	1 (mmHg)
	Zero range 200 mmHg

NIBP

Method	Oscillometric
Mode	Manual, Auto, Continuous
Measuring Interval in AUTO mode	1/2/3/4/5/10/15/30/60/90/120/240/480 Min
Continuous	5min, interval 5s
Measuring Type	Systolic Pressure, Diastolic Pressure, Mean Pressure
Cuff Pressure measuring Range	0–300 mmHg
Pressure Resolution	1 mmHg
Mean error	3 mmHg
Maximum Standard deviation	3 mmHg
Over pressure protection	Dual Over pressure protection
Measured unit	mmHg/kPa selectable
Measurement types	Systolic, Diastolic, Mean Systolic : 40–300 mmHg Diastolic : 10–215 mmHg Mean : 20–235 mmHg
Pressure range for Paediatrics	Systolic : 20–235 mmHg Diastolic : 10–150 mmHg Mean : 20–165 mmHg
Pressure range for Neonates	Systolic : 10–235 mmHg Diastolic : 10–100 mmHg Mean : 20–110 mmHg

Respiration

Method	Impedance between R-F (RA-LL), R-L (RA-LA)
Respiration Rate Measuring and Alarm Range:	
Adult	0 rpm – 120 rpm
Resolution	1 rpm
Gain Selection	0.25, 0.5, 1, 2, 3, 4, 5
Apnea	10 – 60 Sec.

Temp

Channel	1 (Std.) / 2 (Optional)
Sensor type	YSI (B Series) OR CF-FI
Measuring Range	0–50°C
Resolution	0.1°C
Accuracy	0.1°C (25°C–45°C), 0.2°C (0–25°C, 45° – 50°C)

CO₂ (Optional)

Channel	Infra-red Absorption Technique
Measuring Mode	Sidestream or Mainstream
Measuring Range	
CO ₂	0 – 150 mmHg
AwRR	2 – 150 rpm
Unit	mmHg, %, Kpa
Resolution	1 mmHg, 0.1%, 0.1Kpa
CO ₂	1mmHg
InCO ₂	1mmHg
Accuracy - AwRR	±1 rpm
Accuracy - CO ₂	2 mmHg, 0 – 40 mmHg Reading 5%, 41 – 70 mmHg
Alarm Delayed - AwRR	10 – 40 seconds
Response time	<3 seconds, includes transport time, risetime
Resolution	1%

Power Supply

Input Voltage	AC 100V–240V
Input Frequency	50/60Hz
Built-in Li-ion Battery Backup	5 hrs.

Environmental Conditions

Storage	Temp (-) 10°C – 40°C Humidity 15%–80%
Operational	Temp 0°C – 40°C Humidity 15%–80%
Atmospheric Pressure	700kPa–1060kPa



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