Meditec M700 Series

Multi-Parameter Patient Monitors

Advanced Monitoring Parameters

12-lead ECG waveform display

ECG-CardioTec™
12-lead ECG Analysis

- 12-lead ECG to analyze I, II,III,aVR, aVL, aVF, V1-V6 and display these waveforms on the same screen
- Two separate ECG cable to get accurate12-lead ECG analysis

SpO_2 Masimo

- The first signal processing and sensor technology capable of accurately monitoring physiology during motion artifact and low perfusion

Gold Standard of SpO_2

- Identifies the venous blood and other noise, isolates them, and using proprietary techniques, extracts the arterial signal

Masimo®

Mainstream CO_2 & Sidestream CO_2

Nomoline™

Adult/Pediatric
and Infant airway adapters

Monitor Trolley
(Optional)

Advanced Plug-In Modules

Multi-GAS - Masimo Sidestream & Mainstream Para-magnetic O_2 sensors

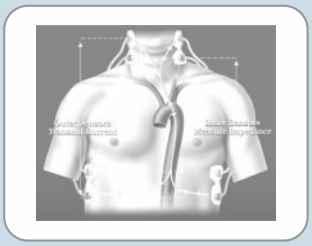
- Long life cycle
- Saving ongoing hospital cost

Support 4-Channel IBP measurement

- Abbott / Edwards/ BD / Utah IBP accessories can be selected to monitoring ABP, PAP, CVP, ICP etc

Electroencephalography EEG measurement

- Provides realtime waveform from 4 channels / 8 channels / 16 channels
- EEG module is designed for continuous, real-time monitoring of adult, paediatric and neonatal patients in anaesthesia and intermediate/critical care environments.



ICG - US Bloz® Non-invasive Hemodynamic

- Impedance cardiograph for non-invasive continuous hemodynamic monitoring
- Micro-signal transmission through disposable electrode
- Measurement and display of ICG
- Blood volume and Blood Flow Velocity varies with heartbeat. DISQ® technology processes impedance signal variation
- Variation of impedance applies to non-invasive Z MARC algorithm for acquiring SV, CO, SVR, Contractility and TFC etc.

M797, M771 & M757 modular monitors with option of transport monitor and separate modules for all vital signs

Calculation Screens for Clinical use

Drug

Module Expansion Rack (M797, M757)

Oxygenation

Ventilation

Kidney

Hemodynamic

	M797	M777	M771
LED Screen Size	17"	15"	19"
Touch Screen Operation	✓	✓	✓
Type	Modular	Upgradable	Modular
ECG Leads	3/5	3/5	3/5
12 Lead ECG Monitoring & Analysis	(Optional)	(Optional)	(Optional)
ECG Review - Arrhythmia & ST Segment Analysis	✓	✓	✓
SpO_2	Self/ Masimo	Self/ Masimo	Self/ Masimo
Temp Channels	2	2	2
IBP	Up to 4 (optional)	Up to 4 (optional)	Up to 4 (optional)
$EtCO_2$	(Optional)	(Optional)	(Optional)
Anaesthetic Gas Module (CO_2, N_2O, HAL, ISO, ENF, DES, SEV, MAC)	(Optional)	(Optional)	(Optional)
Paramagnetic Oxygen Monitoring	(Optional)	(Optional)	(Optional)
Cardiac Output	(Optional)	(Optional)	(Optional)
Depth of Anaesthesia / BIS	(Optional)	(Optional)	(Optional)
Respiratory Mechanics (RM)	(Optional)	x	(Optional)
SVO_2	(Optional)	x	(Optional)
ICG - Impedance Cardiography	(Optional)	x	(Optional)
Neuromuscular Transmission (NMT)	(Optional)	x	(Optional)
EEG	(Optional)	(Optional)	(Optional)
Oxy CRG	✓	✓	✓
Waveforms	Up to 12	Up to 12	Up to 12
Waveform Recall Function	✓	✓	✓
Drug Calculator	✓	✓	✓
Graphics & Tabular Trends	168 hrs	168 hrs	168 hrs
Defibrillation Interface & Cautery Protection	✓	✓	✓
Pacemaker Detection	✓	✓	✓
Built-in Li-ion Battery Backup	2 hrs	4 hrs	2 hrs
Data Storage and Review	4 USB & SD Card	2 USB & SD Card	4 USB & SD Card
HL7 Compliant	✓	✓	✓
Nurse Call Compatible	✓	✓	✓
Connectivity with Central Monitoring System	Wired/Wireless connectivity with Meditec CMS	Wired/Wireless connectivity with Meditec CMS	Wired/Wireless connectivity with Meditec CMS
In-built Thermal Printer	(Optional)	(Optional)	(Optional)
Alarm System (Audible & Visual)	3 Level audio/ Visual alarm	3 Level audio/ Visual alarm	3 Level audio/ Visual alarm
Net Weight	11 Kg	4.8 Kg	6 Kg
Module Expansion Rack	(Optional)	x	(Optional)
Wall Mount	(Optional)	(Optional)	Standard
Mobile Trolley	(Optional)	(Optional)	(Optional)
Bed Rail Mount	(Optional)	(Optional)	(Optional)
Option for Transport Monitor	✓	x	✓
Bar Code Scanner	(Optional)	(Optional)	(Optional)

M757	M752	M747	M707
12.1”	12.1”	12.1”	4.3”
✓	✓	(Optional)	✓
Modular	Modular	Upgradable	Pre-Configured
3/5	3/5	3/5	3/5
(Optional)	(Optional)	(Optional)	x
✓	✓	✓	✓
Self/ Masimo	Self/ Masimo	Self/ Masimo	Self/ Masimo
2	2	2	2
Up to 4 (optional)	Up to 2 (optional)	Up to 2 (optional)	x
(Optional)	(Optional)	(Optional)	(Optional)
(Optional)	Any One	x	x
(Optional)		x	x
(Optional)		x	x
(Optional)		x	x
(Optional)	x	x	x
(Optional)	x	x	x
(Optional)	x	x	x
(Optional)	x	x	x
(Optional)	x	x	x
✓	✓	x	x
Up to 12	Up to 8	Up to 12	Up to 2
✓	✓	✓	x
✓	✓	✓	x
168 hrs	168 hrs	168 hrs	48 hrs
✓	✓	✓	✓
✓	✓	✓	✓
4 hrs	4 hrs	5 hrs	8 hrs
4 USB & SD Card	2 USB	1 USB	x
✓	✓	✓	x
✓	x	✓	x
Wired/Wireless connectivity with Meditec CMS	Wired/Wireless connectivity with Meditec CMS	Wired/Wireless connectivity with Meditec CMS	Wired/Wireless connectivity with Meditec CMS
(Optional)	(Optional)	(Optional)	x
3 Level audio/ Visual alarm	3 Level audio/ Visual alarm	3 Level audio/ Visual alarm	3 Level audio/ Visual alarm
5.9 Kg	3.4 Kg	3 Kg	Light Weight 1.2 Kg
(Optional)	(Optional)	x	x
(Optional)	(Optional)	(Optional)	x
(Optional)	(Optional)	(Optional)	x
(Optional)	(Optional)	(Optional)	(Optional)
✓	x	x	x
(Optional)	(Optional)	(Optional)	(Optional)

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 (optional), 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 to12 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 uA
ECG Signal Range	6 mV (Vp-p).
ST Segment Monitoring Range Measure and Alarm	-2.0 – +2.0 mV

Respiration

Method	Impedance between R-F (RA-LL), R-L (RA-LA)		
Respiration Rate Measuring and Alarm Range:			
Adult	0 rpm – 120 rpm	Neo/Ped	0 rpm – 180 rpm
Resolution	1 rpm	Accuracy	2 rpm
Gain Selection	0.25,0.5, 1, 2, 3, 4, 5		
Apnea	10 – 60 Sec.		

CO_2 (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%		

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

SpO_2

Method	Self / Masimo
Measuring Range	1–100%
Alarm Range	1–100%
Resolution	1 %
Accuracy Adult / Paediatric Adult / Paediatric with Low-perfusion	 ±1 digit (70%–100% SpO_2) Undefined (0–70% SpO_2)
Neonate Neonate with Low-perfusion	±1 digit (70%–100% SpO_2) Undefined (0–70% SpO_2)
Pulse Rate Measuring and Alarm Range	20–300bpm

Temp

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

Power Supply

Input Voltage	AC 100V–240V
Input Frequency	50/60Hz

Environmental Conditions

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

Cardiac Output (CO) (Optional)

Method	Thermodilution Technique		
Measuring range - CO	0.1 – 20 L/min		
TB	23 – 43°C	TI	(-)1 – 27°C
Resolution - CO	0.1 L/min	TB, TI	0.1°C
Accuracy - CO	5% or 0.2 L/min	TB	0.1°C
TI	0.1°C		
Output parameters	CO, Hemodynamic Calculation		
Alarm range	23 – 43°C		

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

Neuromuscular Transmission (NMT) (Optional)

Microprocessor-controlled	
Stimulator Mode	TOF, TOFS, PTC, 1Hz Twitch, 0.1Hz Twitch, DBS 3.3 and 3.2 (double burst), Tetanic Stimulation (burst), 5s-50Hz or 100Hz Output (accuracy±5% of full scale value)
Surface Electrodes	Constant current, 0-60mA(0-12/18μC) up to 5Kohm, Monophasic, 200μs or 300μs pulse width
Needle Electrodes	Constant current, 0-6mA (0-0.24μC) up to 5KOhm. Monophasic, 40μs pulse width
Acceleration Transducer	Accuracy±5% of full scale value
Temp. Sensor	Range 20.0-41.5°C (accuracy ±5°C)

Recorder (Optional)

Built-in, direct thermal pixel array recorder up to 3 channel printing	
1, 2, 3 channel selectable	
Print speed	25mm/s, 50mm/s
Paper width	50mm

Depth of Anaesthesia/ BIS (Optional)

Bispectral Index (BIS)	0 – 100
Electromyographic Strength (EMG)	30 – 80 dB (where $1\mu V^2 = 40dB$)
Signal Quality Index (SQI)	0 – 100%
Suppression Ratio (SR)	0 – 100%
Spectral Edge Frequency (SEF)	0.5 – 30.0Hz
Total Power	40 – 100dB (where $1\mu V^2 = 40dB$)
Burst Count	0 – 30 (with an Extend Sensor only)
EEG (Continuous, single channel real-time waveform(Standard) / 4 channel (Optional)	
Noise (EEG Waveform)	< 0.3 μV RMS (2.0 μV peak-to-peak) : 0.25 Hz – 50 Hz
EEG Bandwidth	0.25 Hz – 100 Hz (-3 dB) ± 10%

Multigas (AG) (Optional)

Technology	Side Stream or Main Stream		
Gas	CO_2, N_2O, Des, Iso, Hal, Sevo, Enf, O_2		
Measuring Range			
CO_2	0 – 10%	O_2	0 – 100%
N_2O	0 – 100%	AwRR	2 – 100 rpm
Halothane	0 – 5%	Isoflurane	0 – 5%
Enflurane	0 – 5%	Sevoflurane	0 – 8%
Desflurane	0 – 18%		
Other	Up to 3 waveforms display, Agent mixture detection MAC value display		

Technical Specifications - M700 CMS- Central Monitoring System

Standard Configuration

Processor	Dual Core
Display	17"/19"/21"/24" TFT screen
Print	HP printer

Features

Resolution	1280×1024
Language	English
Waveform	ECG, RESP, SpO_2, NIBP, $EtCO_2$, etc.
Parameter	HR, RR, ST, SpO_2, PR, NIBP, TEMP, etc.

Alarm

Alarms	High and low limits alarm
	Arrhythmia alarm
	Audible and visual alarm

Bedside Monitors

Support maximum 128 bedside monitors
Display maximum 32 patient's information
Key monitoring interface, display 6 waveforms
Intellectualized Bi-directional Communication

Data

720-hour full disclosure waveform review
1240-hour trend graphic review
10,000 alarm record review
50,000 historical patient records

Recorder

External thermal array
Real-time recording, review recording and historical
Reports recording

Connection Mode

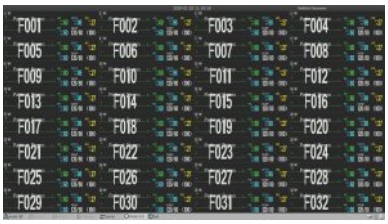
Complete solution for LAN, wireless LAN, and mixture networking

Power Supply

Input Voltage	AC 100V–240V
Input Frequency	50Hz ± 1Hz

M700 CMS - Central Monitoring System

Bi-directional communication with Meditec M700 CMS - Central Monitoring Station by wired or wireless connection



32 Beds display

Wave review and print preview

Large font display

- Standard Network Interface: TCP/IP central monitoring system, be able to observe full vital signs information of the patient
- Full Disclosure Waveform Observation: Large screen display, be able to observe 16 bedside monitors waveforms simultaneously. Selectable Dual-screen display.
- Bi-directional Communication: Unique Bi-directional communication function realize the mutual control of central monitor and bedside monitors
- Large Storage Capacity: 720-hour full disclosure waveform review, 1240-hour trend graph review, 1000 alarm records review. 50,000 patient historical data. All the information can be stored in disk.
- Data File Review: Large storage capacity of full monitoring information for easy review, analysis and statistics
- Dual Screen: Support various data display methods and various windows layout. It can display the waveform and numeric information of ECG, SpO2, RESP, NIBP, IBP, CO2, etc. The key bedside monitoring function provides more detail information to the doctor.
- Operating System: User-friendly central monitoring software built on Windows platform. Advanced information integration technology to realize the concentration management of all parameters. Full digital transmission to ensure the communication accurate and reliable.
- Stable Internet Connection: Standard configuration for 8 bedside monitors, support maximum 128 units

Manufactured in India by

Allied Medical Limited

76-77, Udyog Vihar, Phase IV,
Gurugram - 122 015, Haryana, INDIA
Phone : +91 124 4111444
Mobile : +91 9811184252
Toll Free : 1800 102 7879
E-mail : sales@alliedmed.co.in
Website : www.alliedmed.co.in

Design & Technology Partner

Meditec International England Limited

E-mail : sales@meditecengland.co.uk
Website : www.meditecengland.co.uk

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