

## Technical Specifications:

ECG	
Lead type	: 3-lead / 5-lead/7-lead with cascaded waveforms
Leads	: I, II, III, V, AVR, AVL, AVF, V1, V2, V3, V4, V5 & V6
ECG waveform	: 2 channels, 7 channels, 10 channels
Display sensitivity	: 1.2mm/mV (X0.125), 2.5mm/mV (X0.25), 5mm/mV (X0.5), 10mm/mV (X1.0), 20mm/mV (X2.0), 40mm/mV (X4.0)
Wave sweep speed	: 5mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s
Bandwidth	
Diagnostic mode	: 0.05Hz-100Hz
Monitor mode	: 0.5Hz-40Hz
Surgery mode	: 1Hz-20Hz
Strong filter mode	: 5Hz-20Hz
CMRR	: >100dB
Notch	: 50/60Hz notch filter can be set to on or off
Differential input impedance	: >5MΩ
Electrode polarization voltage range	: ±400mV
HR range	: 15 - 350 bpm
Arrhythmia analysis	: Yes, 24 kinds
ST segment	: 12 lead
Baseline recovery time	: <3s after defibrillation (in monitor and surgery mode)
Calibration signal	: 1mV (peak - peak), accuracy ±3%
 SPO2 (Digital)	
Measurement range	: 1-100%
Resolution	: 1%
Waveform	: Plethysmograph
Accuracy	: ±2% (40-100%) Adult/Pediatric, non-motion, low perfusion); ±3% (40-100%) Neonate, non-motion); ±3% (40-100%) motion);
Refreshing Rate	
Probe type	: 1s Clip / Wrap (Reusable)
 Pulse Rate	
Range	: 20~300 bpm
Resolution	: 1bpm
Accuracy	: ±1bpm (non-motion); ±1bpm (motion)
Refreshing rate	: 1s
 NIBP	
Measurement method	: Oscillometric method
Operating mode	: Manual, Automatic, STAB
Measurement unit	: mmHg/kPa selectable
Typical measurement time	: 20-40s
Cycle Time	: 2~9 mins.
Measurement type	: Systolic, Diastolic, Mean
Measurement range (mmHg)	: Adult 40-270
Range of Systolic pressure	: Pediatric 40-200
Range of Diastolic pressure	: Neonatal 40-135
Range of Mean pressure	: Adult 10-200
Range of Mean pressure	: Pediatric 10-240
Range of Mean pressure	: Neonatal 10-100
Range of Mean pressure	: Adult 20-230
Range of Mean pressure	: Pediatric 20-165
Range of Mean pressure	: Neonatal 20-110
Measurement accuracy	
Maximum average error	: ±3mmHg
Maximum standard deviation	: 8mmHg
Resolution	: 1mmHg
Interval(user selectable)	: 1,2,3,5,10,15,30,60,90,120,180,240,360,480minutes
Over-pressure protection	: Software and hardware, double safety protection
Cuff pressure range	: 0-300mmHg
 RESP	
Measurement method	: Transthoracic Impedance
Measuring lead	: Lead I, II
Wave gain	: x0.25, x0.5, x1, x2, x3, x4, x5,
Respiratory impedance range	: 0.5-5
Respiration range	: 0 - 150bpm
Baseline impedance	: 500-4000U
Gain	: 7 grades
Scan speed	: 6.25mm/s, 12.5 mm/s, 25mm/ss
Apnea Alarm	: 5~90 sec
 TEMP	
No. of Channels	: 2
Probe Type	: Rectal / Skin / Esophageal (reusable)
Parameters	: T1, T2 & TD
Measurement range	: 0~50°C
Resolution	: 0.1°C
Accuracy	: ±0.2°C
 Alarms	
Mode	: Audio & visual with high, medium and low intensity adjustment & Red flash light
Alarm silence	: 120 sec.
Type of Alarms	: High & low level of all parameters with alarm deactivation, Low battery, Power disconnection, Power failure, Probe disconnection, Cuff leakage & disconnection, Sensor / wire disconnection etc
 Power Requirements	
Power Supply	: AC 100-240V, 50 Hz single phase fitted with Indian plug 3m cable
Battery	: Built-in rechargeable lithium-ion battery with 2 hours backup
	: Recharge time : <3 hours
 Others	
Operating Temp.	: 5°C~40°C
Storage and Transport Temp.	: -20 °C to 55°C
Relative Humidity	: up to 90%
Noise level	: 40 dB
Dimension	: 310x292x174mm(WxHxD)
Weight	: 4.0 Kg.

Mfd. & Mkted. in India by :

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# Multipara Patient Cardiac Monitor



**MAX-7 PLUS**



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## Features:

- Multipara pre-configured monitor with 5 lead ECG, SpO<sub>2</sub>, NIBP, RESP, 2xTEMP, HR, PR as standard parameters
- Optional Parameters: 2xIBP, EtCO<sub>2</sub>, CO, BIS, AGM, 12 lead ECG interpretation etc
- 12.1" high resolution medical grade color Touchscreen LCD display with wide angle view
- 6 waveforms simultaneous display with related numerical parameters on single screen
- Pacemaker detection, Hemodynamic calculation, OxyCRG, Drug dose calculation
- Digital stable technology to monitor SpO<sub>2</sub> even in low perfusion and motion artifacts. MASIMO (On demand)
- ST segment, ST recall, Arrhythmia analysis, QT analysis, HRV analysis, Renal calculation
- Rotary Knob operation, multi-screen display, support HL7 protocol to HIS
- SpO<sub>2</sub> pitch tone modulation, plethysmographic display with perfusion level indicator through bar graph
- 240 hours graphical & tabular trend review for all parameters. 1,000 NIBP review, 200 alarm event review
- Built-in data storage, support 48 hours full disclosure wave review, Hot keys for all vital functions
- Built-in protection against defibrillator and electro-surgical unit interference
- Suitable for adult, pediatric and neonatal monitoring in Wards, ICU, PICU, NICU, ICCU etc
- User selectable audio & visual color coded alarms for all parameters with mute facility
- User can set alarm levels for all parameters individually
- Can be connected to Central Monitoring Station (CMS) via LAN / Wireless
- Built-in rechargeable Li-ion battery with 2 hours back up facility
- Support USB port, keyboard, mouse & LAN connectivity. Wireless (optional)
- Supplied with all essential & standard accessories as per demand
- On Demand: Touch screen, Thermal Recorder, Trolley, Wall Mount, Pole Mount, UPS, CMS, Carry case
- European CE certified

# MAX-7 PLUS

Multipara Pre-configured Patient Monitor with Digital SpO<sub>2</sub>



## Central Monitoring Station (On Demand)

- Windows based Central Monitoring System with values visible from long distance
- Up to 8 patients can be displayed on a 21-inch display.
- Online Arrhythmia recognition & recall facility.
- All patients are safely monitored & review up to 72 hours data.
- Full screen zoom facility.
- Online recording & frame freeze facility.
- Alarm facility and customizable parameter settings.
- Smart Alarm, Alarm Logging & Alarm queue up facility.
- Mouse, Keyboard, UPS, Laser Printer, USB connectivity.

### System Composition (hardware/ software)

#### Hardware

Main unit\* MUC-911R

LCD unit VLC-912R

Power cord, keyboard, mouse

QP-914P (16 patients software)

QP-915P (24 patients expansion program kit)

QP-916P (32 patients expansion program kit)

QP-917P (48 patients expansion program kit)

#### Software:

When you purchase hardware and install software locally, please follow these hardware requirements as follows:

#### OS:

Windows® 7 Professional SP1 (32 bit)

#### Processor:

3.2 GHz or faster dual core processor

#### Memory:

1 GB

#### Hard Drive:

200 GB or more, minimum 200 GB disk space on drive C

#### Mouse/Keyboard:

Standard 101 USB keyboard and mouse compatibility

#### Monitors:

19" / 21" / 24" / 28" / 32" (as per requirement)

#### Speaker:

External or internal audio speaker