



YM6000

PATIENT MONITOR

Progressive YM6000 Multi-Parameter Patient Monitor provides full parameters.



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THE **YM6000** PATIENT MONITOR

- Available parameters include 3 or 5 lead ECG, Respiration, NIBP, SpO₂, 2 temperatures, included battery and optional 2IBP, EtCO₂, and built-in printer.
- High quality 12.1 inch color TFT LCD screen enables you to monitor 6 traces with 10 numerics vital sign clearly even under the most difficult lighting conditions.
- 6 Color coded keys and a trim knob admits clinicians to quickly access monitoring function controls.
- The optimized 2 packs of Ni-MH rechargeable batteries, a wheeled mobile cart and an integrated top handle ensure continuous monitoring under any transport circumstances.
- Connectivity to the central monitoring system enables users to receive alarm signal automatically when the patient's condition turns critical. Stored or real-time vital sign data can be recalled to review and print with any PC printer through the network.

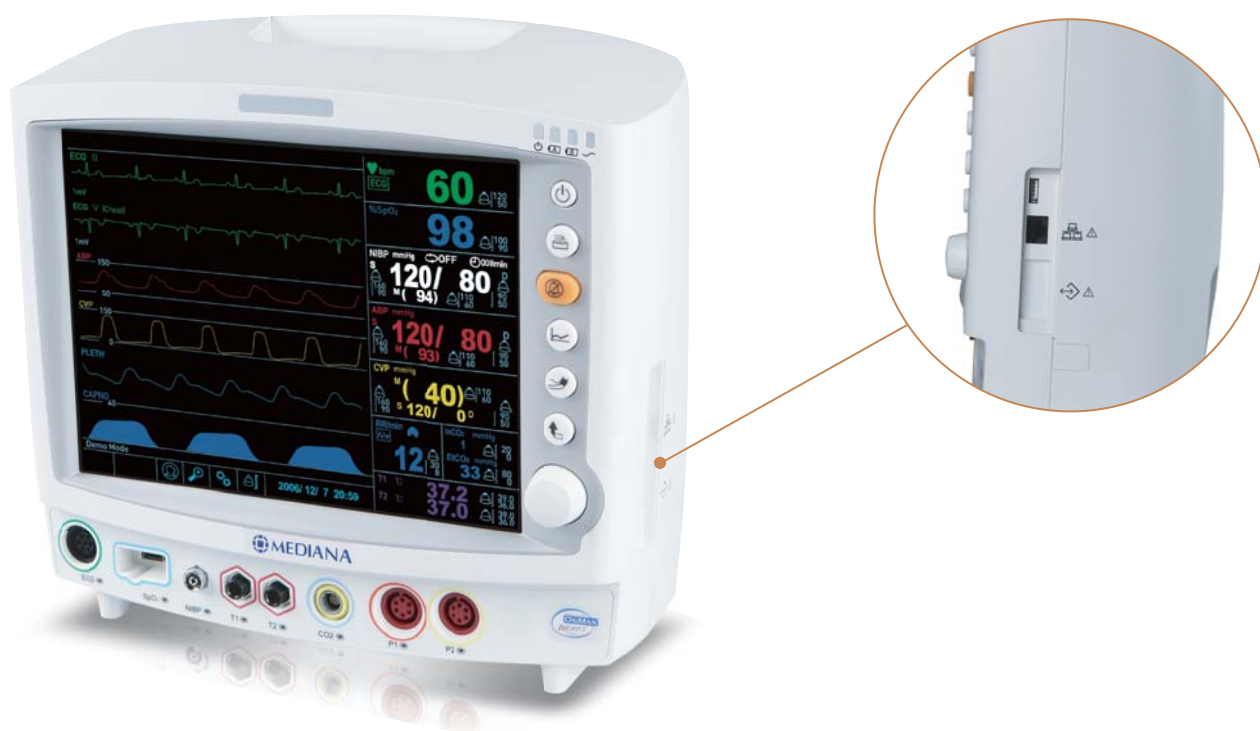
The dynamic linear deflation NIBP module guarantees greater patient comfort, shorter measurement time and improved accuracy for all adult, pediatric and neonate patients.

The new SpO₂ module, with sensors, lets you take full advantage of the ongoing advances in pulse oximetry technology.

Up to 24hrs tabular and graphical trends show all parameters to support clinician's decisions whenever necessary.

The central monitoring system displays real time and dual waveforms (Standard model) or 4 analysis waveforms to enable a single clinician to care for 16 to 32 patients effectively.

" Progressive **YM6000** Multi-Parameter Patient monitor. "

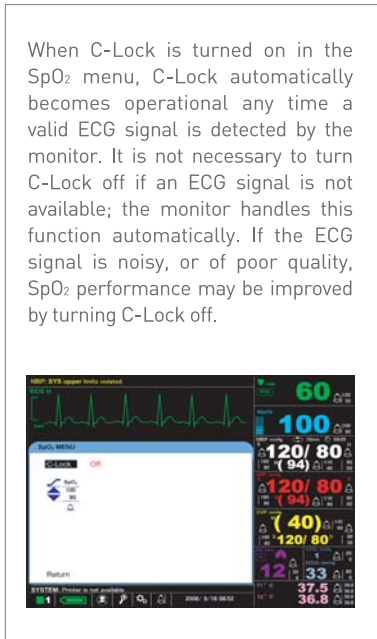


YM6000's Various Functions

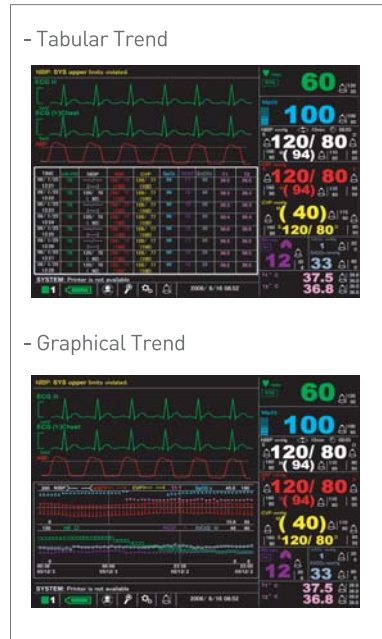
1) ETCO₂



2) C-Lock

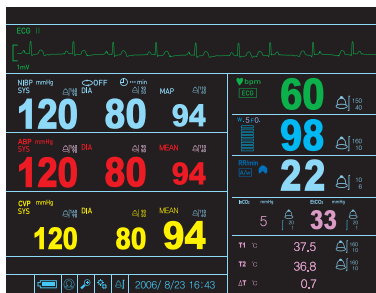


3) Trends : Stores 1,500 trend data



4) Big Number display

- Big number display mode



5) Two batteries

- Battery operation for more than 2 hours with 2 NI-MH batteries



6) Built-in thermal recorder prints

2-ch waveform



7) Wall mount



8) Rolling stand



9) USB for Software upgrade



10) LAN connection for central monitoring system



Display

Screen Size	246.0 mm × 184.5 mm (12.1 inches measured diagonally across the TFT-LCD screen)
Screen Type/Color	Liquid Crystal Display (LCD) Color Cold Cathode Fluorescent Backlit
Resolution	800 × 600 pixel

Physical Characteristics and Printer

Instrument	
Dimensions	341 × 305 × 172 (mm) (W × H × D) including a handle and excluding options and accessories
Weight	5.5kg excluding optional configurations and accessories

Printer (Optional)

Type	Thermal
Weight	150 g
Resolution	8 dot/mm
Number of channels	1 to 2 channels
Paper Width	50 mm
Paper Speeds	25.0 mm/s and 50.0 mm/s

Electrical

Instrument	
Power Requirements	AC Mains 100Vac-240V-50 Hz/60 Hz, 63-110VA

Battery

Recharge	12 hours with monitor turned on/off
Two batteries typically provide 2 hour of battery life when fully charged with no printing, no external communication, no audible alarm sound and one NIBP measurement per 15 minutes at 25°C.	
Type	Ni-MH

Environmental Conditions

Operation	
Temperature	10°C to 40°C (50°F to 104°F)
Humidity	15% RH to 90% RH, non-condensing
Altitude	700hPa~1060hPa

Transport and Storage (in shipping container)

Temperature	-20°C to 50°C (-4°F to 122°F)
Humidity	15% RH to 95% RH, non-condensing
Altitude	700hPa~1060hPa

ECG

Measurement Range	20 BPM to 300 BPM
Accuracy	±3BPM or ±5% whichever is greater
Leads	3 / 5 Lead, detected automatically Lead I, II, III, aVR, aVL, aVF, Chest (V) Lead
Lead Off Detection	Detected and displayed
Voltage range	±0.5 mV to ±5 mV
Signal Width	40 ms to 120 ms (Q to S)
Display Sweep Speeds	6.25mm/sec, 12.5mm/sec and 25mm/sec
Arrhythmia Detection	Yes / 14 types Arrhythmia Detection
S-T segment Analysis	Yes / Measurement & Alarm range : -2.00 ~ +2.00mV
Pace Maker Detection	Yes

Respiration rate

Technique	Trans-thoracic impedance
Range	0, 3 to 120 breaths/min
Accuracy	±1 breaths/min
Leads	RA to LA
Display Sweep Speeds	6.25 mm/s, 12.5 mm/s, 25.0 mm/s
Lead Off Condition	Detected and displayed

SpO2

%Saturation	
Range	1% to 100%
Perfusion Range	0.03% to 20%
Accuracy	Adults ¹ 70% to 100% ±2 digits Neonate 70% to 100% ±2 digits Low Perfusion ² 70% to 100% ±2 digits
Display Sweep Speeds	12.5 mm/sec, 25.0 mm/sec, and 50.0 mm/sec

Pulse Rate

Range	0 and 20 BPM to 250 BPM
Accuracy	Adults and Neonate ¹ 20 BPM to 250 BPM ±2 digits Low Perfusion ² 20 BPM to 250 BPM ±2 digits

- 1 Adult specifications are shown for OXIMAX MAX-A and MAX-N sensors with the YM6000. Neonate specifications are shown for OxiMax MAX-N sensors with the YM6000. Saturation accuracy will vary by sensor type.
- 2 Specification applies to YM6000 performance. Reading accuracy in the presence of low perfusion (detected IR pulse modulation amplitude < 1.5%) was validated using signals supplied by a patient simulator. SpO2 and pulse rate values were varied across the monitoring range including weak signal conditions and compared to the known true saturation and pulse rate of the input signals.

Temperature

Probe Type	Thermistor probe
Parameter displayed	TEMP1, TEMP2
Range	15°C to 45°C (59°F to 113°F)
Display Accuracy	±0.1°C (25°C to 45°C) or ±0.2°F (77°F to 113°F) ±0.2°C (15°C to less than 25°C) or ±0.4°F (59°F to less than 77°F)

NIBP

Pulse Rate Range	Omron module: Adult/Pediatric 40 BPM to 200 BPM Neonatal 40 BPM to 240 BPM AND module: Adult/Pediatric/Neonatal: 30 to 240 BPM
Pulse Rate Accuracy	Omron module: ±2 BPM or ±2%, whichever is greater AND module: ±5%
Technique	Oscillometric Measurement
Measurement Modes	MANUAL, AUTO and CONT
NIBP AUTO Mode Intervals	Off, 1, 2.5, 3, 5, 10, 15, 30, 60, 90 minutes
Measurement Range	Omron module: Adult/Pediatric SYS 60 to 250 mmHg MAP 45 to 235 mmHg DIA 40 to 200 mmHg Neonatal SYS 40 to 120 mmHg MAP 30 to 100 mmHg DIA 20 to 90 mmHg AND module: Adult/Pediatric SYS 40 to 270 mmHg DIA 20 to 200 mmHg Neonatal SYS 40 to 120 mmHg DIA 20 to 90 mmHg
NIBP Accuracy	Mean error and standard deviation per ISO 81060-2:2013
Pressure Display Range	Adult/Pediatric 0 to 300 mmHg Neonatal 0 to 150 mmHg
Pressure Display Accuracy	Within ±3mmHg
Initial Cuff Inflation	Adult/Pediatric - Smart, 120, 140, 160, 180, 200, 220, 240, 260, 280 mmHg (16.0, 18.7, 21.3, 24.0, 26.7, 29.3, 32.0, 34.7, 37.3 kPa) Neonatal - 80, 90, 100, 110, 120, 130, 140 mmHg (10.7, 12.0, 13.3, 14.7, 16.0, 17.3, 18.7 kPa)
Automatic Cuff Deflation	Measurement time exceeding 180s in adult/pediatric (90s in neonatal) or maximum pressure value exceeding 300 mmHg in adult (150 mmHg in neonatal).
Overpressure Protector	300mmHg for Adult / 150mmHg for Neonatal
Defibrillator Protection	Protected

IBP

Pulse Rate	
Range	20 BPM ~ 250 BPM
Accuracy	±1% or ±1 BPM
IBP	
Parameter Displayed	P1, ABP P2, CVP, PAP, LAP
Pressure Measuring Range	-50 mmHg ~ 300 mmHg
Input Impedance	More than 1 M ohm
Transducer Driving Voltage	DC 5V
Transducer Input Sensitivity	5uV/V/mmHg
Transducer Volume Displacement	0.1mm ³ /100mmHg
Zero Calibration Range	±100mmHg
Zero Calibration Accuracy	Less than ±1mmHg
Frequency Characteristics	dc to 25Hz
Pressure Display Accuracy	Monitor: Less than ±3mmHg
Scale	P1 0-50, 0-100, 0-200, 0-300, AUTO P2 0-20, 0-50, 0-100, 0-200, 0-300, AUTO
Display Sweep Speeds	12.5 mm/sec, 25.0 mm/sec, and 50.0 mm/sec

Capnography

Display	EtCO ₂ , InCO ₂
Range	0 - 150mmHg
Accuracy	0-40mmHg ±2mmHg of 41-70mmHg ±5% of reading 71-100mmHg ±8% reading 101-150mmHg ±10% reading
Display accuracy	±2mmHg
Response time	Mainstream : less than 60ms Side stream less than 3sec
Gas Compensation	User selective at O ₂ > 60% and N ₂ O > 50%
Warm Up Time	2 minutes maximum
Sound Noise Level	less than 41dB when ambient sound pressure level is 22dB
Sweep Speeds	6.25mm/sec, 12.5 mm/sec and 25.0 mm/sec

Trends

Types	Graphical and Tabular
Memory	saves total 1500 data saves at selected time interval saves alarm condition & error events saves NIBP Measurements
Graphical Format	Total 2 graphs a graph for NIBP, P1/P2, SpO2, T1/T2 parameters a graph for HR/PR, Resp, EtCO2 parameters User-selectable each parameter to be desired
Tabular Format	One table for all parameters
Display	8 lists
Save Time Interval	30sec or 1, 2, 2.5, 5, 10, 15, 20, 30, 60 or 120 minutes
The detail compliances are listed on the operation manual	

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