

THE YM6000 PATIENT MONITOR



Progressive YM6000 Multi-Parameter Patient Monitor provides full parameters.

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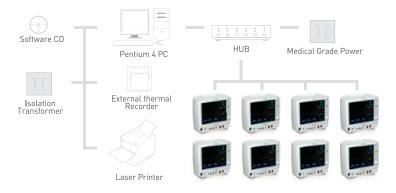


- Available parameters include 3 or 5 lead ECG, Respiration, NIBP, SpO₂, 2 temperatures, included battery and optional 2IBP, EtCO₂, and built-in printer.
- High quality 12.1 inch color TFT LCD screen enables you to monitor 6 traces with 10 numerics vital sign clearly even under the most difficult lighting 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.

YM9000 CENTRAL MONITORING SYSTEM

Multiple monitors can be connected to the central monitoring system to raise an alarm signal automatically when the patients turn into critical condition. The stored or real-time vital sign data can be recalled to be displayed or printed with up to three channel wave-forms.

The YM9000 central monitoring system provides the centralized display of real-time vital signs and the values of each parameter. The patient data can be saved on the Hard-Disk that has the memory capacity to restore up to 7 days of data without concern.



Specification

Standard : Software CD, External Termal recorder, manual, isolation transformer Optional : HUB, Laser Printer, PC/ monitor, Lan card

рс	up to 16 bed	up to 32 bed	up to 16 bed	up to 32 bed
cpu	Min Intel Pentium4 3GHz	Min Intel Core2 Duo E4400	Intel Core2 Duo E4400	Intel Core2 Duo E5200
memory	Min. 2Gbite memory			
o/s	window xp		window vista	
graphic card memory	Min.128MB Memory			
sound card	0			
speaker	0			
monitor	1 ~ 4 Monitor (exhortation 17inch diagonally)		1 ~ 4 Monitor (exhortation 17inch diagonally)	2 ~ 4 Monitor (exhortation 17inch diagonally)

1) ETCO₂



- Side Stream

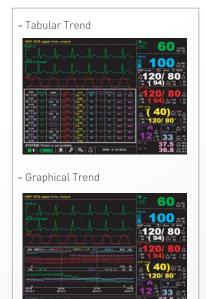


2) C-Lock

When C-Lock is turned on in the SpO_2 menu, C-Lock automatically becomes operational any time a valid ECG signal is detected by the monitor. It is not necessary to turn C-Lock off if an ECG signal is not available; the monitor handles this function automatically. If the ECG signal is noisy, or of poor quality, SpO_2 performance may be improved by turning C-Lock off.



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

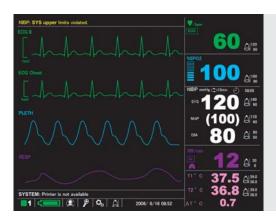


10) LAN connection for central monitoring system



YM6000 PARAMETERS AND ORDERING INFORMATION

(Lan Card : Optional)



1. Unit Code# PAA21-0

Standard

Parameters: ECG, Respiration, NIBP, SpO₂, Temperature

2. Unit Code# PAA21-P0

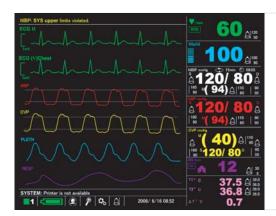
Standard with Printer

Parameters: ECG, Respiration, NIBP, SpO2, Temperature

3. Unit Code# PAA21-2

Standard with USB interface

Parameters: ECG, Respiration, NIBP, Sp02, Temperature



4. Unit code# PAA21-0B

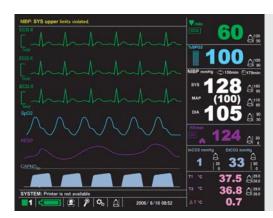
Standard with 2IBP

Parameters: ECG, Respiration, NIBP, SpO₂, Temperature, 2IBP

5. Unit Code# PAA21-P0B

Standard with 2IBP and printer

Parameters: ECG, Respiration, NIBP, SpO2, Temperature, 2IBP



6. Unit Code# PAA21-0E

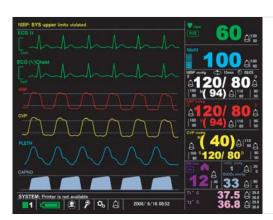
Standard with EtCO2

Parameters: ECG, Respiration, NIBP, SpO2, Temperature, EtCO2

7. Unit Code# PAA21-P0E

Standard with EtCO2 and printer

Parameters: ECG, Respiration, NIBP, Sp02, Temperature, EtC02



8. Unit Code# PAA21-0BE

Standard with 2IBP and EtCO2

Parameters: ECG, Respiration, NIBP, SpO₂, Temperature, 2IBP, EtCO₂

9. Unit Code# PAA21-POBE

Standard with 2IBP, EtCO2 and Printer

Parameters: ECG, Respiration, NIBP, SpO₂, Temperature, 2IBP, EtCO₂





The YM6000 is a sophisticated monitor using the best technologies.

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 Sp02 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."







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YM6000 FEATURES AND SPECIFICATIONS

Display

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

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Resolution 800 × 600 pixel

Physical Characteristics and Printer

Instrument

341×305 ×172 (mm) (W×H×D) Dimensions

including a handle and excluding options and accessories Weight 5.5kg excluding optional configurations and accessories

Printer (Optional)

Thermal Weight Resolution 150 g 8 dot/mm Number of channels Paper Width 1 to 2 channels

25.0 mm/s and 50.0 mm/s Paper Speeds

Electrical

Instrument

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

Battery

Recharge 12 hours with monitor turned on/off
Two batteries typically provide 1 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.

Ni-MH

Environmental Conditions

Operation

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

Transport and Storage (in shipping container)

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

Altitude 700hPa~1060hPa

ECG

Measurement Range

20 BPM to 300 BPM ±3BPM or ±5% whichever is greater 3/5 Lead, detected automatically Lead I, II, III, aVR, aVL, aVF, Chest (V) Lead Accuracy Leads

Lead Off Detection Detected and displayed $\pm 0.5 \text{ mV}$ to $\pm 5 \text{ mV}$ Voltage range Signal Width Display Sweep Speeds

40 ms to 120 ms (Q to S) 6.25mm/sec, 12.5mm/sec and 25mm/sec Arrhythmia Detection Yes / 14 types Arrhythmia Detection

S-T segment Analysis Pace Maker Detection Yes / Measurement & Alarm range : -2.00 ~ +2.00mV

Respiration rate

Trans-thoracic impedance Technique 0, 3 to 120 breaths/min ±1 breaths/min Range Accuracy RA to LA 6.25 mm/s, 12.5 mm/s, 25.0 mm/s

Leads Display Sweep Speeds Lead Off Condition Detected and displayed

NIBP

Adult/Pediatric 30 BPM to 260 BPM / Neonatal 30 BPM to 220 BPM ±2 BPM or ±2%, whichever is greater Oscillometric Measurement MANUAL, AUTO and CONT Single measurement initiated by NIBP, Start/Stop button Pulse Rate Range Pulse Rate Accuracy echnique Measurement modes

MANUAL Mode

Start/Stop button
Automatic BP measurements at intervals of
1, 2, 3, 5, 10, 15, 20, 30, 45, 60, 90,120 or,180 minutes
Series of consecutive measurements for 5 minutes AUTO Mode

CONT Mode Systolic pressure range

Series of consecutive measurements for an MBP pressure measuring range Adult/Pediatric 20 mmHg to 260 mmHg Neonatal 20 mmHg to 130 mmHg to 260 mmHg to 130 mmHg to 260 mmHg to Diastolic pressure range Mean pressure range Neonatal 20 mmHg to 130 mmHg

0 mmHg to 300 mmHg
Mean error and standard deviation per Pressure Display Range

Pressure Display Accuracy ANSI/AAMI SP10:2002+A1:2003 Sp02

%Saturation

0% to 100% 0.03% to 20% Range Perfusion Range

70% to 100% ± 2 digits Accuracy Adults1 Neonate Low Perfusion²

Display Sweep Speeds

Pulse Rate

12.5 mm/sec, 25.0 mm/sec, and 50.0 mm/sec

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. 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.

Capnography

Display Range

EtCO₂, InCO₂ 0 - 150mmHg 0-40mmHg ±2mmHg of 41-70mmHg ±5% of reading 71-100mmHg ±8% reading 101-150mmHg ±10% reading Accuracy

±2mmHg Mainstream : less than 60ms Display accuracy

Response time

Side stream Gas Compensation less than 3sec User selective at 02 > 60% and N2O > 50%

Warm Up Time Sound Noise Level 2 minutes maximum less than 41dB when ambient sound pressure level is 22dB

Sweep Speeds 6.25mm/sec, 12.5 mm/sec and 25.0 mm/sec

IBP

Pulse Rate

20 BPM ~ 250 BPM Range Accuracy $\pm 1\%$ or ± 1 BPM

IBP

Parameter Displayed

P1, ABP
P2, CVP, PAP, LAP
-50 mmHg ~ 300 mmHg
More than 1 M ohm
DC 5V
5uVV/mmHg
0.1mm³/100mmHg
±100mmHg
Less than ±1mmHg
dc to 25Hz
Monitor: Less than ±3mmHg
P1 0-50, 0-100, 0-200, 0-300, AUTO
P2 0-20, 0-50, 0-100, 0-200, 0-300, AUTO
12.5 mm/sec, 25.0 mm/sec, and 50.0 mm/sec Pressure Measuring Range Input Impedance Input Impedance
Transducer Driving Voltage
Transducer Input Sensitivity
Transducer Volume Displacement
Zero Calibration Range Zero Calibration Accuracy Frequency Characteristics Pressure Display Accuracy

Scale

Display Sweep Speeds

Temperature

Probe Type Parameter displayed Thermistor probe TEMP1, TEMP2

Range Display Accuracy

TEMP1, TEMP2 15° C to 45° C $(59^{\circ}$ F to 113° F) $\pm 0.1^{\circ}$ C $(25^{\circ}$ C to 45° C) or $\pm 0.2^{\circ}$ F $(77^{\circ}$ F to 113° F) $\pm 0.2^{\circ}$ C $(15^{\circ}$ C to less than 25° C) or $\pm 0.4^{\circ}$ F $(59^{\circ}$ F to less than 77° F)

Trends

Graphical and Tabular Types 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, Sp02, T1/T2 parameters
a graph for HR/PR, Resp, EtC02 parameters
User-selectable each parameter to be desired

Tabular Format Display One table for all parameters

8 lists

DISplay

o usts
Save Time Interval

30sec or 1, 2, 2.5, 5, 10, 15, 20, 30, 60 or 120 minutes
The detail compliences are listed on the operation manual