



# THE **YM1000** VITAL SIGNS MONITOR

Spot check & Continuous Monitoring

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Progressive YM1000 Multi-Parameter  
Spot check & Continuous monitoring

Available parameters NIBP, SpO<sub>2</sub>, Pulse rate, Temperature. Battery is included.  
Optional cart and built-in printer.

Simple and straightforward. The Mediana vital signs monitor is fast & easy to learn to operate. Learn the features from the quick guide in just 15 minutes. Mediana representative can also provide complete service training for your convenience. Simple, push-button programming and large digital display makes the monitor easy & clear to read.



## FEATURES

### Night Panel

Display brightness adjustment available.  
With the power saving mode, patient can sleep well with the dim light at night.

### Nurse Call

Nurses can be alerted by the alarm feature.  
This mode allows nurses to monitor patients from the central nurses station.

### Sound Mode

You can specify sound via Sound Mode.  
You can select 3 modes of volume; high, med, mute.  
Ideal to let patient rest and reduce the noise in the ward.

### Memory

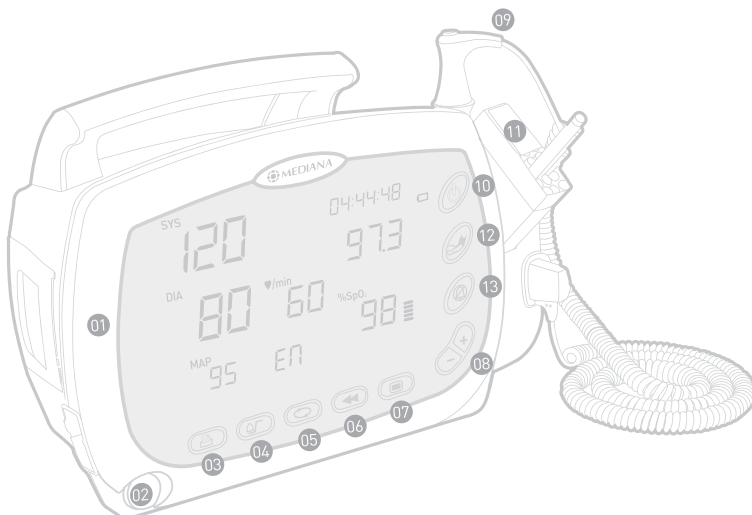
You can review the stored patient data by viewing it on the monitor or by printing it out.  
You don't need to worry if you didn't write down the patient's status/data.  
It can store up to 200 data and 24hr old data will be automatically deleted.

### Battery optional 10hrs battery

With this battery, you can transit the patient and use it in the ambulance without plugging it into a power source.  
Monitor contains standard 4hrs battery. 10hrs battery is optional.

## FRONT PANEL CONTROL AND CONNECTORS

- |                     |                             |                             |
|---------------------|-----------------------------|-----------------------------|
| 01 Built-in Printer | 06 Review Button            | 11 Temperature Probe Covers |
| 02 NIBP Connector   | 07 Mode Button              | 12 NIBP start/stop Button   |
| 03 Print Button     | 08 Up/Down Selection Button | 13 Alarm silence Button     |
| 04 Alarm Button     | 09 Temperature Probe        |                             |
| 05 Auto Button      | 10 Power Button             |                             |



## ROLLING STAND



# THE YM 1000 VITAL SIGNS MONITOR.

Used in all hospital areas and hospital-type facilities. It may be used during hospital transport and mobile environment such as ambulances.

## FEATURES AND SPECIFICATIONS

### Physical

#### Instrument

Dimensions 130×180×284 (mm) (H×D×W)  
Weight 2.7(kg)

### Electrical

AC Power Power 100Vac to 240Vac, 50 Hz/60 Hz, 60 VA  
Battery Type Lead acid Ni-MH  
Voltage/Capacity 6 V/ 4 Ah 8.4V/ 7.6Ah  
Recharge 6 hours 8 hours

Lead Acid Without any measurement and printing at 25°C → 4 hours  
With one NIBP measurement per 15 minutes, continuous SpO<sub>2</sub> measurement and no printing → 3 hours

Ni-MH (Option) Without any measurement and printing at 25°C → 10 hours  
With one NIBP measurement per 15 minutes, continuous SpO<sub>2</sub> measurement and no printing → 8 hours

### Environmental

#### Operation

Temperature 10°C (50°F) to 40°C (104°F)  
Humidity 15% RH to 95% RH, non-condensing  
Atmospheric Pressure 700 - 1,060 hPa

#### Transport Storage

Temperature 10°C (50°F) to 40°C (104°F)  
Humidity 15% RH to 95% RH, non-condensing  
Atmospheric Pressure 500 - 1,060 hPa

Note : The system may not meet its performance specifications if stored or used outside the manufacturer's specified temperature and humidity range.

### Measurement Parameters

#### NIBP

##### Pulse Rate

Pulse Rate Range Adult/Pediatric : 40 BPM to 200 BPM  
Neonatal : 40 BPM to 240 BPM  
Pulse Rate Accuracy ±2 BPM or ±2%, whichever is greater

#### NIBP(Non-Invasive Blood Pressure)

Technique Oscillometric Measurement  
Measurement modes AUTO, MANUAL and STAT  
AUTO Mode Automatic NIBP measurements at intervals of 1,2,3,4, 5,10,15,30,45,60,90,120 and 240 minutes  
MANUAL Mode Single measurement initiated by NIBP Start/Stop button  
STAT Mode Series of consecutive measurements for 5 minutes

#### NIBP pressure measurement range

Systolic pressure range Adult : 60 mmHg to 250 mmHg  
Pediatric : 60 mmHg to 250 mmHg  
Neonatal : 40 mmHg to 120 mmHg  
Diastolic pressure range Adult : 40 mmHg to 200 mmHg  
Pediatric : 40 mmHg to 200 mmHg  
Neonatal : 20 mmHg to 90 mmHg  
Mean pressure range Adult : 45 mmHg to 235 mmHg  
Pediatric : 45 mmHg to 235 mmHg  
Neonatal : 30 mmHg to 100 mmHg

Pressure Display Accuracy Meets ANSI/AAMI SP 10:2002 + A1 : 2003  
Cuff Pressure Range 0 to 300 mmHg (0 to 40 kPa)

Initial Cuff Inflation Adult :  
120, 140, 160(Default), 180, 200, 220, 240, 260 mmHg  
(15.9, 18.6, 21.2(Default), 23.9, 26.6, 29.2, 31.9, 34.5 kPa)

Pediatric :  
120(Default), 130, 140, 150, 160, 170 mmHg  
(15.9(Default), 17.2, 18.6, 19.9, 21.2, 22.6 kPa)

Neonatal :  
80, 90(Default), 100, 110, 120, 130 mmHg  
(10.6, 11.9(Default), 13.3, 14.6, 15.9, 17.2, 18.6 kPa)

Overpressure protector Adult/Pediatric : 300 mmHg(N.C), 330mmHg(S.F.C)  
Neonatal : 150 mmHg(N.C), 165mmHg(S.F.C)

Standards ANSI/AAMI SP10:2002+A1:2003, IEC60601-2-30:1999  
EN1060-1:1995 and EN1060-3:1997.

Note: Systolic and diastolic blood pressure measurements determined with this device are equivalent to those obtained by a trained observer using the cuff/stethoscope auscultation method, within the limits recommended by the American National Standard, electronic or automated sphygmomanometers.

#### SpO<sub>2</sub>/Pulse Rate

%Saturation  
Range 1% to 100%  
Low Perfusion 0.03% to 20%  
Accuracy Without Motion-Adults 70% to 100% ±2 digits  
1% to 69% unspecified  
Without Motion-Neonate 70% to 100% ±3 digits  
1% to 69% unspecified  
Low Perfusion 70% to 100% ±2 digits  
1% to 69% unspecified

#### Pulse Rate

Range 20 BPM to 300 BPM  
Accuracy Without Motion 20 BPM to 300 BPM ±3 digits  
Low Perfusion 20 BPM to 300 BPM ±3 digits  
Standards EN865:1997

Neonate specifications are shown for neonate sensors with YM1000. Saturation accuracy will vary by sensor type recommended by the manufacturer. Specification applies to monitor performance and was validated with Biotek and Nellcor simulators

#### Temperature

Probe Type Thermistor probe  
Range 26°C to 43°C (80°F to 110°F)  
Display Accuracy ±0.1°C (±0.2°F)  
Measurement units °C, °F  
Measurement modes Predictive, Monitored  
Predictive Mode One-time measurement in a single temperature reading which is displayed at the end of the brief measurement period  
Monitored Mode Continuous measurement over an indefinite period.  
Standards ASTM E1112-00, EN12470-3

### Ordering Information

N NIBP only (included Pulse Rate and MAP) Standard(NIBP+Pulse Rate)  
NP NIBP / Printer  
NT NIBP / Temperature  
NTP NIBP / Temperature / Printer  
NS NIBP / SpO<sub>2</sub>  
NSP NIBP / SpO<sub>2</sub> / Printer  
NST NIBP / SpO<sub>2</sub> / Temperature  
NSTP NIBP / SpO<sub>2</sub> / Temperature / Printer

Optional factory installed 10hrs battery

Note : You can select Lead Acid batteries or optional Ni-MH batteries in each configuration. For more information about the batteries refer to the Specification section.



#### Mediana Seoul Office

Mediana Building, #793-3, Bangbae-dong,  
Seocho-ku, Seoul, Korea (P.C: 137-830)  
Tel : +82-2-542-3375 Fax : +82-2-542-7447

#### Mediana Head Office / Factory / R&D

Wonju Medical Industry Park, #1650-1, Donghwa-ri,  
Munmak-eup, Wonju-si, Gangwon-do, Korea (P.C : 220-801)  
Tel : +82-33-742-5400 Fax : +82-33-742-5418

[www.mediana.co.kr](http://www.mediana.co.kr)



#### Mediana USA

Building 7/A, 2799 152nd Avenue NE, Redmond, WA 98052. USA  
Tel : +1-425-406-2262

[www.medianausa.com](http://www.medianausa.com)

제품문의 : 02-542-3375

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