



Standard configuration: ECG, SPO₂, NIBP, Temp, Resp, HR

Optionals: Center Monitoring System, EtCO₂, 2IBP, Massimo SPO₂, Printer

BETA12

Feature

- 12.1 inch TFT screen, 6 standard parameters
- 32-levels sound volume adjustment
- 10-levels brightness adjustment
- Maximum 168 hours graphic and tabular trends of all parameters
- Battery capacity about 5 hours continual working time
- Maximum 20 hours continual working time (optional)
- Touch screen (optional)
- Massimo SP0₂ module (optional)
- EtCO₂ module (optional)
- 2IBP module (optional)
- Suntech BP module (optional)
- 8-language available (optional)
- Printer (optional)



TECHNICAL SPECIFICATION

1. Patient monitor type

Standard electric shock proof: Class I electric shock proof equipment
EMC: Class A
Standard electric shock proof level: ECG (RESP): CF type; SpO₂, NIBP/TEMP: BF type
Liquid-proof level: Generally sealed equipment without liquid-proof function
Disinfection/sterilization method: Refer to Chapter Five for detailed information
Working method: Continuous

2. Patient monitor specification

2.1 Working environment

Temperature range: Working: 0~40°C
Transportation and store: -20~60°C
Humidity range: Working: ≤ 85%
Transportation and store: ≤ 93% (No dew condensation)
Altitude range: Working: -500 — 4,600m (-1,600 — 15,000 feet)
Transportation and store: -500 — 13,100m (-1,600 — 43,000 feet)
Electric specification: AC 100 — 240V, 50/60Hz, max. 70VA of input power
Fuse is T 3.15A display specification

2.2 Displayed information

Max. 6 waves
One alarm indicator (Yellow/Red)
One working indicator (Green)
One battery charging state indicator (Yellow)
Three audible alarm modes corresponding to alarm states

2.3 Retrospection

Trend retrospection
Short trend 1 hour, resolution: 1 second or 5 seconds
Long trend 72 hours, resolution: 1 minute, 5 minute or 10 minutes
NIBP measurement retrospection Retrospection on 400 NIBP measured data

3. ECG Specification

3.1 Lead configuration

Standard 3-lead or 5-lead
3-lead RA, LA, LL, Lead method: I, II, III
5-lead RA, LA, LL, RL, V, Lead method: I, II, III, aVR, aVL, aVF, V

3.2 Increase

0.25, 0.5, 1, 2, AUTO

3.3 HR

Range
Adult: 15~300bpm (beat/minute)
Neonatal baby/children: 15~ 350 bpm (beat/minute)
Precision: ±1% or ± 1 bpm, the larger prevails
Resolution: 1 bpm(beat/minute)

3.4 Sensitivity: >200 μV (Peak-to-peak value)

3.5 Input Impedance: >5 (megohm)

3.6 Bandwidth

Diagnostic mode: 0.05~130Hz
Monitoring mode: 0.5~40Hz
Operation mode: 1~20Hz

3.7 Common Mode rejection Ratio

Diagnostic mode: > 90 dB
Monitoring mode: > 100 dB
Operation mode: > 100 dB

3.8 Pole Polarization Voltage Range: 300mV

3.9 Pacing Pulse Test

Test pacing pulse in accordance with the following conditions:
Amplitude: ±2 mV ~ ±700mV
Width: 0.1ms ~ 2ms
Risetime: 10μs ~ 100μs

3.10 Pacing Pulse Inhibition

When pacing analysis switch is on, pacing pulse in accordance with the following conditions are restrained, but affection against HR calculation.
Amplitude: ±2 mV~ ±700mV
Width: 0.1ms ~ 2ms
Risetime: 10μs ~ 100μs

3.11 Baseline Recovering Time

After defibrillation: < 3 seconds

3.12 Signal Range: 8 mV (peak-to peak value)

3.13 Calibrating Signal : 1mV (peak-to-peak value), precision 5%

3.14 ST Segment Measuring Volume

Measuring range: -2.0mV ~ +2.0mV
Measuring precision: Ranging -0.8 mV ~ + 0.8 Mv
Measuring error is ± 0.02Mv or ± 10%
The larger prevails. No definition for other ranges.

4.1 Measuring Method: RA-LL impedance

4.2 RESP Impedance Measuring Range: 0.3 ~ 3Ω

4.3 Base Impedance Range: 200 ~ 4000Ω

4.4 Bandwidth: 0.1 ~ 2.5Hz

4.5 RESP Rate

Range
Adult: 0 ~ 120 BrPM
Children and neonatal baby: 0 ~ 150 BrPM
Resolution: 1 BrPM
Precision: 2 BrPM

4.6 Asphyxia Alarm

10 ~40 seconds

5. SpO₂ specification

5.1 Blood Oxygen Saturation

Measuring range: 0 ~100%
Resolution: 1%
Precision: 70 ~ 100%: 2 DIGIT
0% ~ 69%: No definition

5.2 Pulse rate

Measuring range: 20 ~300 bpm
Resolution: 1 bpm
Precision: 3 bpm

6. TEMP specification

6.1 Applicable Temperature Probe: YSI series, CYF series

6.2 Channels quantity: 2 channels

6.3 Measurement:

Range: 0 ~ 50C
Resolution: 0.1C
Precision: 0.1C (excluding probe error)

7. NIBP Specification

7.1 Measuring Method: Pulse wave oscillometry

7.2 Work Mode: Manual/Auto/Continual

7.3 Measuring Interval of AUTO Measuring Mode:

1,2,3,4,5,10,15,30,60,90,120,180,240,480 minute(s)

7.4 Measuring Time of CONTINUAL Mode: 5 minutes

7.5 PR range: 40 ~ 240bpm

7.6 Measuring Range and Precision

Range
Adult: Systolic blood pressure 40 ~ 270mmHg
Diastolic bold pressure 10 ~ 215mmHg
Mean blood pressure 20 ~ 235mmHg
Children: Systolic blood pressure 40 ~ 200mmHg
Diastolic bold pressure 10 ~ 150mmHg
Mean blood pressure 20 ~165mmHg
Neonatal baby: Systolic blood pressure 40 ~ 135mmHg
Diastolic blood pressure 10 ~ 100mmHg
Mean blood pressure 20 ~ 110mmHg
Static pressure range: 0 ~ 300mmHg
Static pressure precision: 3mmHg
Pressure precision: Max. average error: 5mmHg
Max. standard deviation: 8mmHg

7.7 Overvoltage Protection

Adult mode: 300mmHg 10mmHg
Children mode: 240mmHg 10 mmHg
Neonatal baby mode: 150mmHg 10mmHg

8. CO₂ Specification (Optional)

8.1 Measuring Method

Side Stream

8.2 Measuring Range

CO₂: 0-99
INS: 0-99
AWRR: 0-99

Package Information

Standard Accessories: 5-lead ECG cable, SP0₂ sensor, BP cuff, Temperature probe, Lithium battery, User manual, Power cord

Optional Accessories: Aluminum trolley, wall mount stand

Monitor size: 300 x 170 x 305mm

Package Info:

Carton Size: 370 x 340 x 290mm (1 pcs/CTN), 0.04CBM
G.W.: 5.5Kgs
N.W.: 4.5Kgs