

IE12

PLUG-IN TYPE

PATIENT MONITOR



TECHNICAL SPECIFICATIONS

Quality Standards and Classification

CE, ISO13485

SFDA: Class II b

Anti-electroshock degree:
Class I equipment (internal power supply)

TEMP/SPO₂ /NIBP: BF

ECG/Resp: CF

Application Range

Adult/Pediatric/Neonatal/Medicine/Surgery/
Operating Room/ICU/CCU

Display

12.1" real color TFT screen

Resolution: 800*600

One alarm indicator(yellow/red)

One working indicator(green)

One battery charge state indicator(green)

Three modes in accordance with the alarm state

Environment

Operating environment

Temperature: 0~40°C
Humidity: ≤85%
Altitude: -500 - 4600m

Transport and Storage environment

Temperature: -20 ~ 60°C
Humidity: ≤93%
Altitude: -500-13100m

Power Requirements

AC: 100-240V, 50Hz/60Hz

DC: Built-in rechargeable battery

Battery:
4000mA 11.1V lithium battery
2h operating after full charge (one piece)
5 min operating after low battery alarm

ECG

5 Leads: RA, LA, LL, RL, V

Lead mode: I, II, III, aVR, aVL, aVF, V

Increase: x250, x500, x1000, x2000

Sensitivity: > 200 uV (Peak-to-peak value)

Input impedance: > 5 (megohm)

Bandwidth: Surgery 1 ~ 20 Hz

Monitor 0.5 ~ 40 Hz

Diagnostic 0.05 ~ 130 Hz

CMRR: ≥ 100dB

Polarization Voltage: ± 300mV

Baseline Recovering Time: After defibrillation
< 3 seconds

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

Calibrating Signal: 1mV, precision ±5%

RESP

Method: RA-LL impedance

Resp Impedance range: 0.3 ~ 3 Ω

Base Impedance range: 200Ω - 4000Ω

Bandwidth: 0.1~2.5Hz

Resp rate:
Adult 0 ~ 120BrPM
Neonatal/Pediatric 0 ~ 150BrPM
Resolution: 1BrPM
Precision: ±2 BrPM

Asphyxia Alarm: 10~40 seconds

ST Segment

ST Segment Range: -2.0mV ~ +2.0mV

Accuracy: 0.02mV

Dimension and Weight

Equipment:
305mm x 160mm x 287 mm; 3.8 kg

Package:
380mm x 350 mm x 300mm; 6.1 kg

SpO₂

Range: 0~100%

Resolution: 1%

Precision: 70% ~ 100% : ±2

DIGIT: 0% ~ 69% ±no definition given

Pulse Rate

Range: 20~300bpm

Resolution: 1bpm

Precision: ±3bpm

Temperature

Channel 2

Measure & alarm range: 0~50°C

Resolution: 0.1°C

Precision (no sensor): ±0.1°C

Standard Accessories

NIBP cuff & tube

ECG cable & electrodes

SpO₂ sensor

TEMP probe

Lithium-ion battery

Power cable

Operator's manual

NIBP

Method: Pulse wave oscillometry

Work mode: Manual/ Auto/ STAT

Measure interval of auto mode: 1, 2, 3, 4, 5, 10, 15, 30, 60, 90, 120, 180, 240, 480 minute(s)

Measuring Time of STAT Mode: 5 minutes

PR range: 40~240bpm

Measure & alarm range:

Adult

SYS 40 ~ 270mmHg

DIA 10~215mmHg

MEAN 20~235mmHg

Pediatric

SYS 40 ~ 200mmHg

DIA 10~150mmHg

MEAN 20~165mmHg

Neonatal

SYS 40 ~ 135mmHg

DIA 10~100mmHg

MEAN 20~110mmHg

Static pressure range: 0~300mmHg

Precision: ±3mmHg

Pressure precision:

Max. average error: ±5mmHg

Max. standard deviation: ±8mmHg

Overvoltage protection:

Adult 300mmHg

Pediatric 240mmHg

Neonatal 150mmHg

Optional Accessories

CO₂ module

IBP module

Trolley bracket

Hanging bracket

Monitor recorder

Touch screen

Date Storage

Trend diagram/table: 7x24h

NIBP review: 400 events

Wave review: 100min

Alarm review: 100 alarm events

Support drug concentration titration analysis

CO₂

Side/Main stream

Warm-up time:

when the ambient temperature is 25° C, the carbon dioxide curve (capnogram) can be displayed within 20/15 seconds, and all the specifications can be fulfilled within 2 minutes.

Measurement range:

0-150mmHg, 0-19.7%, 0-20kPa (at 760mmHg).
atmospheric pressure provided by the host.

Resolution 0.1mmHg: 0-69mmHg
0.25mmHg: 70-150mmHg

Precision

0-40mmHg: ±2mmHg

41-70mmHg: ±5% (reading)

71-100mmHg: ±8% (reading)

101-150mmHg: ±10% (reading)

Respiratory rate range: 0-150 BPM

Respiratory rate accuracy: ±1 BPM

IBP

Label ART, PA, CVP, RAP, LAP, ICP, P1, P2

Measuring and alarm range

ART 0 ~ 300 mmHg

PA -6~120 mmHg

CVP/RAP/LAP/ICP -10 ~ 40 mmHg

P1/P2 -10~300 mmHg

Press Sensor

Sensitivity 5 uV/V/mmHg

Impedance 300-3000Ω

Resolution 1 mmHg

Accuracy ±2% or ±1mmHg, which great

Actualization interval: about 1 Sec.