

iM80 Patient Monitor

Mounting Solutions



Wall Mount

Rolling Stand

EDAN

iM80 Patient Monitor



Specification

Physical Specification

Device Dimension: 370 mm (L) x 175 mm (W) x 320 mm (H)
 Weight: Standard Configuration 7 kg (with 1 battery)

Display

Color TFT LCD: 15" (Touch Screen Optional)
 Resolution: 1024 x 768
 Traces Displayed: Up to 8
 Waveforms Displayed: Up to 13
 Sweep Speed: 6.25, 12.5, 25, 50 mm/s

Thermal Recorder (Optional)

Print Speed: 25, 50 mm/s

ECG

Lead Type: 5-lead and 3-lead selectable
 Gain: Auto, x 0.125, x 0.25, x 0.5, x 1, x 2
 Sweep Speed: 6.25, 12.5, 25, 50 mm/s

ECG HR Range:

Adult: 15~300 bpm
 Pediatric/Neonate: 15~350 bpm
 Resolution: 1 bpm
 Accuracy: ±1 bpm or ±1% (whichever is greater)

Filter:

Diagnostic Mode: 0.05~150 Hz
 Monitoring Mode: 0.5~40 Hz
 Surgical Mode: 1~20 Hz

Defibrillation Protection: Withstand 5000 V AC/50 Hz

ST-Segment Detection:

Measurement Range: -2.0 mV~2.0 mV
 Alarm Range: -2.0 mV~2.0 mV

RESP

Method: Trans-thoracic impedance

Operation Mode: Auto/Manual

RR Measurement Range:

Adult: 0~120 rpm
 Neonate/Pediatric: 0~150 rpm

Resolution: 1 rpm

Apnea Alarm Threshold: 10, 15, 20, 25, 30, 35, 40 s

Band Width: 0.2~2.5 Hz (-3 dB)

Sweep Speed: 6.25, 12.5, 25, 50 mm/s

SpO2

Measurement & Alarm Range:

0~100% (EDAN SpO2)

Resolution: 1%;

Accuracy: ±2% (70~100%, Adult/Pediatric)
 ±3% (70~100%, Neonate)

PR Measurement and Alarm Range: 25~300 bpm

Resolution: 1 bpm

Accuracy: 3 bpm

Refresh Rate: 1 s

Nellcor OxiMax™ SpO2 (Optional)

Measurement & Alarm Range: 0-100%

Resolution: 1%

Accuracy: ±2 - 3% (70-100%, Adult/Pediatric)
 ±3 - 3.5% (70-100%, Neonate)

PR Measurement and Alarm Range: 20-300 bpm

Resolution: 1 bpm

Accuracy: 3 bpm (depends on probe)

Refresh Rate: 1 s

NIBP

Method: Automatic Oscillometric

Operation Modes: Manual/Automatic/Continuous

Auto Measurement Time Interval:

1, 2, 3, 4, 5, 10, 15, 30, 60, 90, 120, 240, 480 minutes

Measurement Unit: mmHg/kPa

Measurement Types: Systolic, Diastolic, Mean

Pressure Range:

Adults:

Systolic: 40~270 mmHg
 Diastolic: 10~215 mmHg
 Mean: 20~235 mmHg

Pediatrics:

Systolic: 40~200 mmHg
 Diastolic: 10~150 mmHg
 Mean: 20~165 mmHg

Neonates:

Systolic: 40~135 mmHg
 Diastolic: 10~100 mmHg
 Mean: 20~110 mmHg

Resolution: 1 mmHg

Accuracy:

Max Mean Error: ±5 mmHg

Max Standard Deviation: 8 mmHg

PR from NIBP Measurement Range: 40~240 bpm

Resolution: 1 bpm

Accuracy: 3 bpm or 3% (whichever is greater)

SP10:2002

Omron® M3600 NIBP (Optional)

Measurement Ranges

Adult/ Pediatric:

Pulse Rate: 40-200 bpm
 Systolic Pressure: 60-250 mmHg
 Diastolic Pressure: 40-200 mmHg
 Mean Arterial Pressure: 45-235 mmHg

Neonate:

Pulse Rate: 40-240 bpm
 Systolic Pressure: 40-120 mmHg
 Diastolic Pressure: 20-90 mmHg
 Mean Arterial Pressure: 30-100 mmHg

Measurement Accuracy

Pulse Rate: ±2 bpm or 2% (whichever is greater)

SP10:2002

IBP (2/ 4 Channels, optional)

Measurement Pressure:

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

Measurement Range: -50~300 mmHg

Resolution: 1 mmHg

Accuracy: ±2% or ±1 mmHg (whichever is greater, without probe)

Sensitivity: 5 μV/mmHg

Impedance Range: 300~3000 Ω

C.O. (Optional)

Method: Thermodilution

Measuring Range:

CO: 0.1 L/min~20 L/min

TB: 23 C~43 C

TI: -1 C~27 C

Alarm Range: 23 C~43 C

Philips Respironics CO2 (Optional)

Type: Sidestream/Mainstream

Range: 0~150 mmHg

Accuracy: ±2% 0~40 mmHg,
 ±5% 41d~70 mmHg
 ±8% 71~100 mmHg
 ±10% 101~150 mmHg

AwRR Accuracy: ±1 rpm

PHASEIN Anesthetic GAS/O2 (Optional)

Technology: Infrared absorption characteristic

Paramagnetic Oxygen: Optional

Gas: CO2, O2, N2O, Des, Iso, Enf, Hal, Sev

Warm-up Time:

(IRMA AX+) Iso accuracy mode: 45 s

Full accuracy mode: 60 s

(ISA OR+/AX+) < 20 s

Sample Flow Rate (for ISA OR+/ AX+): 50 ± 10 ml/min

Measuring Range

CO2: 0~15%

N2O: 0~100%

Hal/ Iso/ Enf: 0~8%

Sev: 0~10%

Des: 0~22%

O2: 0~100%(ISA OR + /AX+)

Temperature (2 Channels, 1 probe by default)

Measurement/ Alarm Range: 0 ~ 50 °C (3 -122 °F)

Probe Type: YSI (B Series) and CF-FI

Resolution: 0.1 °C

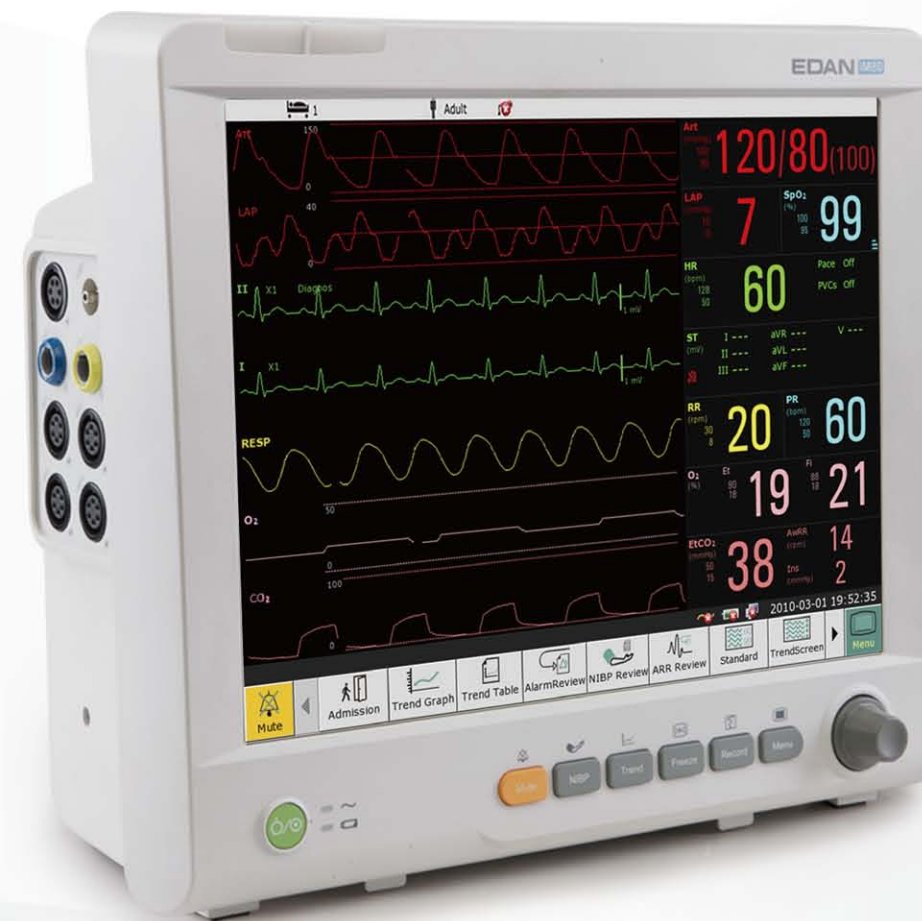
Accuracy: ±0.1 °C (without probe)

Channel: Dual-channel. Provide T1; T2; ΔT

Power Supply

AC Power: 100~240 V AC, 50/60 Hz

Battery: 14.8 V Rechargeable Li-ion Battery x 2



EDAN Edan Instruments, Inc.

- 3/F-B, Nanshan Medical Equipment Park, Nanshan Rd 1019#, Shekou, Nanshan, Shenzhen, 518067 P.R. China
- Tel: +86-755-26898326 Fax: +86-755-26898330 www.edan.com.cn Email: info@edan.com.cn
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Care for Health

iM80 High-acuity Patient Monitor



The iM80 dedicates to high-accuracy and user-friendly healthcare solutions specially for high-acuity divisions. With the latest medical and information technologies, the iM80 brings not only top-quality healthcare but also easy access to it.



- 15" color TFT-LCD screen with maximum 13 waveforms
- Touch & Configure: Intuitive operation by clicking on specific parameter or waveform to configure
- Pacemaker detection
- Electrosurgical interference proof
- Defibrillation protection and defibrillation synchronization
- Pitch tone (Pulse-tone modulation)
- Unique iSEAP algorithm which is specially optimized for arrhythmia patients
- Dual-mode anti-interference pulse oximetry
- Clinically validated NIBP
- Omron® M3600 NIBP with Smart Inflation™ technology for comfortable measurement experience (optional)
- Nurse call function
- VGA output
- HL7 support via XML files
- 2 x Rechargeable batteries
- Suitable for adult, pediatric and neonatal patients

> PHASEIN Anesthetic Gas/O₂ (Optional)



Mainstream (IRMA AX+)

- Extremely Compact design(25 g)

Sidestream (ISA AX+ / ISA OR+)

- Unique water handling technology with the longest lifetime
- Low sample flow 50 ml/min for all types of patients

Paramagnetic Oxygen (for ISA OR+)

> 12-lead ECG (Optional)



- Continuous 12-lead ECG waveform display, ST Segment analysis and alarm
- 208 kinds of analysis results, up to 16 kinds of arrhythmias, 50 sets of 12-lead analysis result review, 10s of 12-lead waveform to review and print out
- Unique SEMIP interpretation tested by CSE & AHA database

> Respironics CO₂ (Mainstream/Sidestream, optional) for Intubated/Non-intubated Patients



- Proven ruggedness - Solid state design
- Suitable for neonatal patients
- No need to calibrate on a regular basis
- 100 Hz sampling rate promises high accuracy

1200

NIBP Measurement Review

120 h

Trend Review

70

Alarm Review

120 s

Frozen Waveform

A Full Set of Flexible Configurations

The iM80 employs various leading technologies from EDAN and other industry leaders. Its different parameter combinations can fulfill your different needs no matter it's for cardiac patients or during surgeries.

Standard configuration: 3/5-lead ECG, RESP, EDAN SpO₂, EDAN NIBP, PR, 2-TEMP

Optional: 12-lead ECG, Nellcor OxiMax™ SpO₂, Omron® M3600 NIBP, 2-IBP/ 4-IBP, Respironics CO₂ C.O., PHASEIN Anesthetic Gas/O₂, Full Touch Screen, Thermal Recorder, WLAN Accessory.