

iM50

Patient Monitor

Mounting Solutions



Wall Mount



Rolling Stand

EDAN

iM50

Patient Monitor



reddot design award
winner 2011

Specification

Physical Specification

Device Dimension: 260 mm (L) x 140 mm (W) x 205 mm (H)
Weight: Standard Configuration 3.6 kg (with battery)

Display

Color TFT LCD: 8.4" (Touch Screen Optional)
Resolution: 800 x 600
Traces Displayed: Up to 8
Waveforms Displayed: Up to 11
Sweep Speed: 6.25, 12.5, 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 $\pm 1\%$ (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
Alarm: 3 levels of audible and visual alarm
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:
 $\pm 2\%$ (70~100%, Adult/Pediatric)
 $\pm 3\%$ (70~100%, Neonate)
PR Measurement and Alarm Range:
25~300 bpm
Resolution: 1 bpm
Accuracy: 3 bpm
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

Nellcor OxiMax™ SpO₂ (Optional)

Measurement & Alarm Range: 0-100%
Resolution: 1%
Accuracy: $\pm 2-3\%$ (70-100%, Adult/Pediatric)
 $\pm 3-3.5\%$ (70-100%, Neonate)
PR Measurement and Alarm Range: 20-300 bpm
Resolution: 1 bpm
Accuracy: 3 bpm (depends on probe)
Refresh Rate: 1 s

IBP (2 Channels, optional)

Measurement Pressure: ART, PA, CVP, RAP, LAR, ICP, P1, P2
Measurement Range: -50~300 mmHg
Resolution: 1 mmHg
Accuracy: $\pm 2\%$ or ± 1 mmHg
(whichever is greater, without probe)
Sensitivity: 5 μ V/mmHg
Impedance Range: 300~3000 Ω

Philips Respironics CO₂ (Optional)

Type: Sidestream/Mainstream
Range: 0~150 mmHg
Accuracy: $\pm 2\%$ 0~40 mmHg,
 $\pm 5\%$ 41~70 mmHg,
 $\pm 8\%$ 71~100 mmHg,
 $\pm 10\%$ 101~150 mmHg
AwRR Accuracy: ± 1 rpm

Temperature (2 Channels, 1 probe by default)

Measurement /Alarm Range: 0~50 °C (32-122 °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; Δ T

Thermal Recorder (Optional)

Print Speed: 25, 50 mm/s

Power Supply

AC Power: 100~240 V AC, 50/60 Hz
Battery: 14.8 V Rechargeable Li-ion Battery



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ENG-PM-iM50-V1.0-20120518



Care for Health

iM50

Portable Patient Monitor with Easy Remote Access



Representing a new generation of patient monitors by EDAN, the iM50 brings you excellent transportation experience which you might never have had before. Its portable design and outstanding features which are specially optimized for Ambulatory/Emergency care bring uninterrupted care to the patients during either transportation or hospitalization.



- 8.4" color TFT-LCD screen with maximum 11 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
- Nurse call function
- VGA output
- HL7 support via XML files
- Suitable for adult, pediatric and neonatal patients

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

Optional: Nellcor Oximax™ SpO₂, 2-IBP, Respironics CO₂, Touchscreen, Thermal Recorder, WLAN Accessory Kit

1200 NIBP Measurement Review	120 h Trend Review	60 Alarm Review	120 s Frozen Waveform
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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

3G Ambulatory Care

Not only does the iM50 communicate with the HIS server via HL7 protocol, it also talks with EDAN MFM-CMS software via wired LAN/Wi-Fi/3G. You may remotely monitor the status of every patient on an ambulance with the help of the iM50. Thus, the emergency department will be able to know the patient's status even before his/her arrival and get ready in advance to save more lives.



Display Modes

