

# 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: approx. 3.6 kg

### 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:  $\pm 1$  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  
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  
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:  $\pm 5$  mmHg  
Max Standard Deviation: 8 mmHg  
PR from NIBP Measurement Range: 40~240 bpm  
Resolution: 1 bpm  
SP10:2002

### Nellcor OxiMax™ SpO2 (Optional)

Measurement & Alarm Range: 1~100%  
Resolution: 1%  
PR Measurement and Alarm Range: 20~300 bpm  
Resolution: 1 bpm  
Refresh Rate: 1 s

### IBP (2 Channels, optional)

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

### Philips Respironics CO2 (Optional)

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

### Temperature (2 Channels, 1 probe by default)

Measurement /Alarm Range: 0~50  $^{\circ}$ C (32~122  $^{\circ}$ F)  
Resolution: 0.1  $^{\circ}$ C  
Accuracy:  $\pm 0.1$   $^{\circ}$ C (without probe)  
Channel: Dual-channel. Provide T1; T2;  $\Delta$ 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



# EDAN

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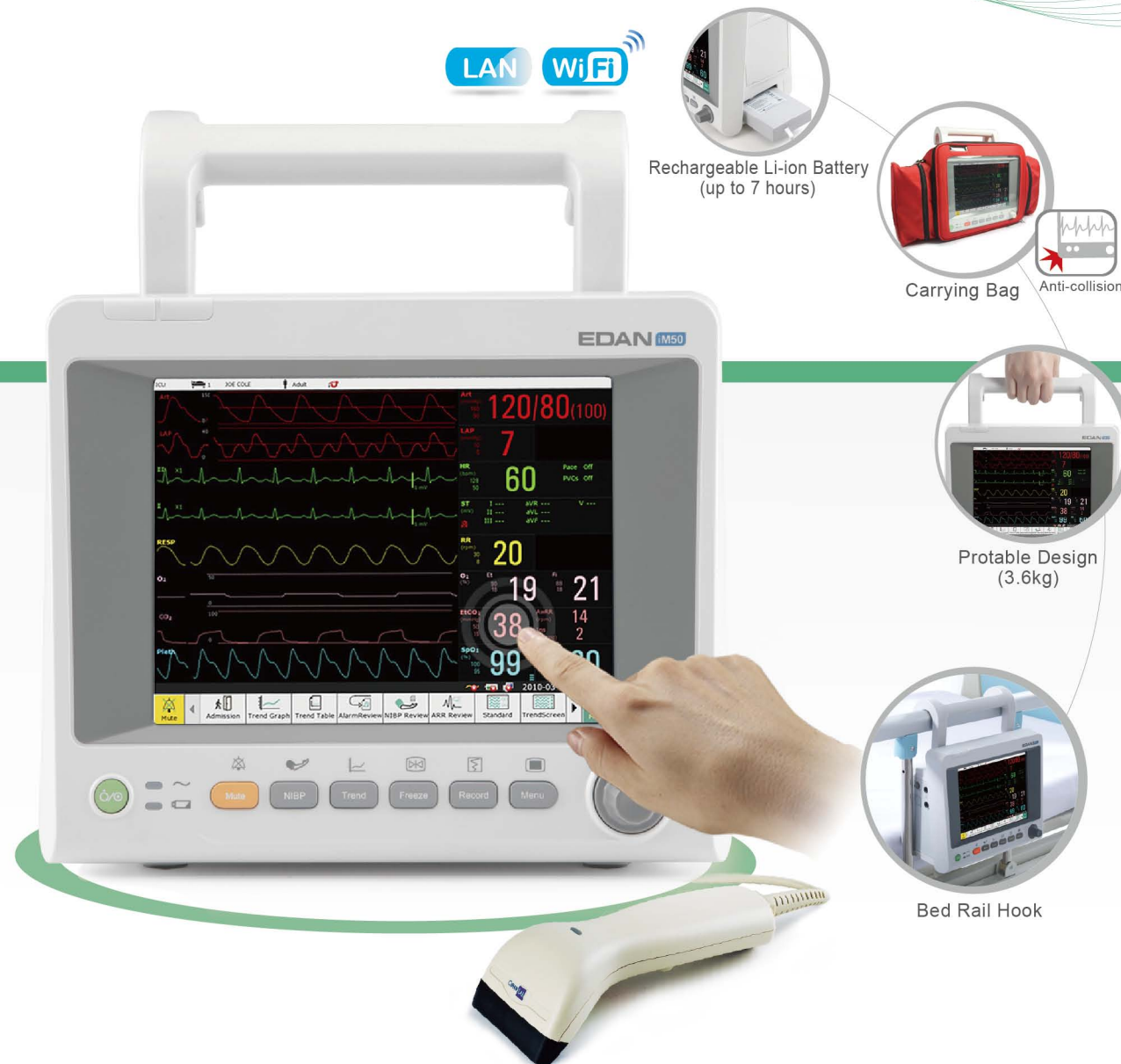
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## Care for Health



# EDAN



## In-Hospital Transportation

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. You may remotely monitor the status of every patient wherever in the hospital with the help of the iM50.



## 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 in-hospital transportation/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 SpO<sub>2</sub>, NIBP, PR, 2-TEMP

**Optional:** Nellcor OxiMax™ SpO<sub>2</sub>, 2-IBP, Respiration CO<sub>2</sub>, Touchscreen, Thermal Recorder, WLAN Accessory Kit

<b>1200</b> NIBP Measurement Review	<b>120 h</b> Trend Review	<b>60</b> Alarm Review	<b>120 s</b> Frozen Waveform
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### > Respiration CO<sub>2</sub> (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
- Sidestream sampling rate of 50 ml/min

### > Display Modes

