

EDAN



iM50 Patient Monitor



reddot design award
winner 2011



Transport



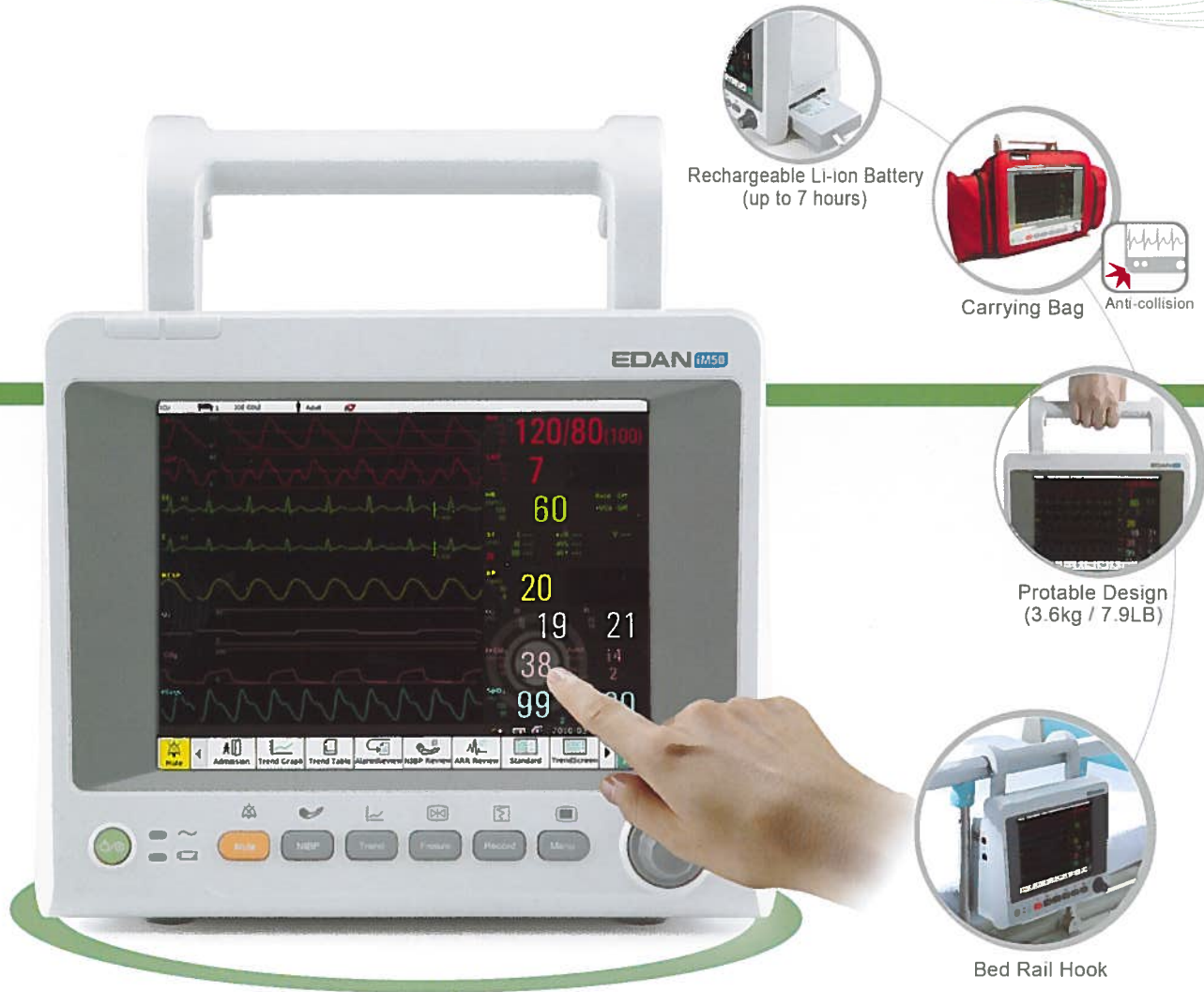
ICU



Emergency

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



iM50

Portable Patient Monitor



Representing a new generation of patient monitors by EDAN, the iM50 brings you excellent transportation experiences. Its portable design and outstanding features which are specially optimized for in-hospital transportation/emergency care, brings uninterrupted care to the patients during transportation.

- 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, Respiration CO₂, Touchscreen, Thermal Recorder

1200 NIBP Measurement Review	120 h Trend Review	60 Alarm Review	120 s Frozen Waveform
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> Respiration 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
- Sidestream sampling rate of 50 ml/min

> Display Modes



Multi-waveform



Large Font



NIBP Table



OxyCRG for Neonate

iM50

Patient Monitor

Mounting Solutions



Wall Mount

Rolling Stand

Specification

Physical Specification

Device Dimension: 260 mm (L) x 140 mm (W) x 205 mm (H)
 10.2" (L) x 5.5" (W) x 8" (H)
 Weight: approx. 3.6 kg
 approx. 7.9LB

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
 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: ± 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 ± 1 mmHg
 (whichever is greater, without probe)
 Sensitivity: 5 μ V/V/mmHg
 Impedance Range: 300~3000 Ω

Philips Respironics CO₂ (Optional)

Type: Sidestream/Mainstream
 Range: 0~150 mmHg
 Accuracy:
 ± 2 mmHg 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 $^{\circ}$ C (32~122 $^{\circ}$ F)
 Resolution: 0.1 $^{\circ}$ C
 Accuracy: ± 0.1 $^{\circ}$ 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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