

# iM8 Series Patient Monitor

## Mounting Solutions



# EDAN

# iM8 Series Patient Monitor

## Specification

### Physical Specification

Device Dimension: 320 mm (L) x 150 mm (W) x 265 mm (H)  
Weight: approx. 5 kg

### Display

Color TFT LCD: 12.1" (iM8), 10.4" (iM8A), 10.1" (iM8B)  
Resolution: 800 x 600 (iM8/iM8A), 800 x 480 (iM8B)  
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, x 4  
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  
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:  
25~300 bpm  
Resolution: 1 bpm  
Refresh Rate: 1 second

### 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  
Accuracy: 3 bpm or 3.5% (whichever is greater)  
SP10:2002

### 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  
AwRR Accuracy:  $\pm 1$  rpm

### CO2 (By EDAN Instruments, optional) Sidestream

Range: 0~13% (0-100 mmHg)  
Accuracy:  $\pm 2$  mmHg <5.0% CO2, <6% of the reading >5.0% CO2  
Sample Flow Rate: 100~200 ml/min

### 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 Edan Instruments, Inc.

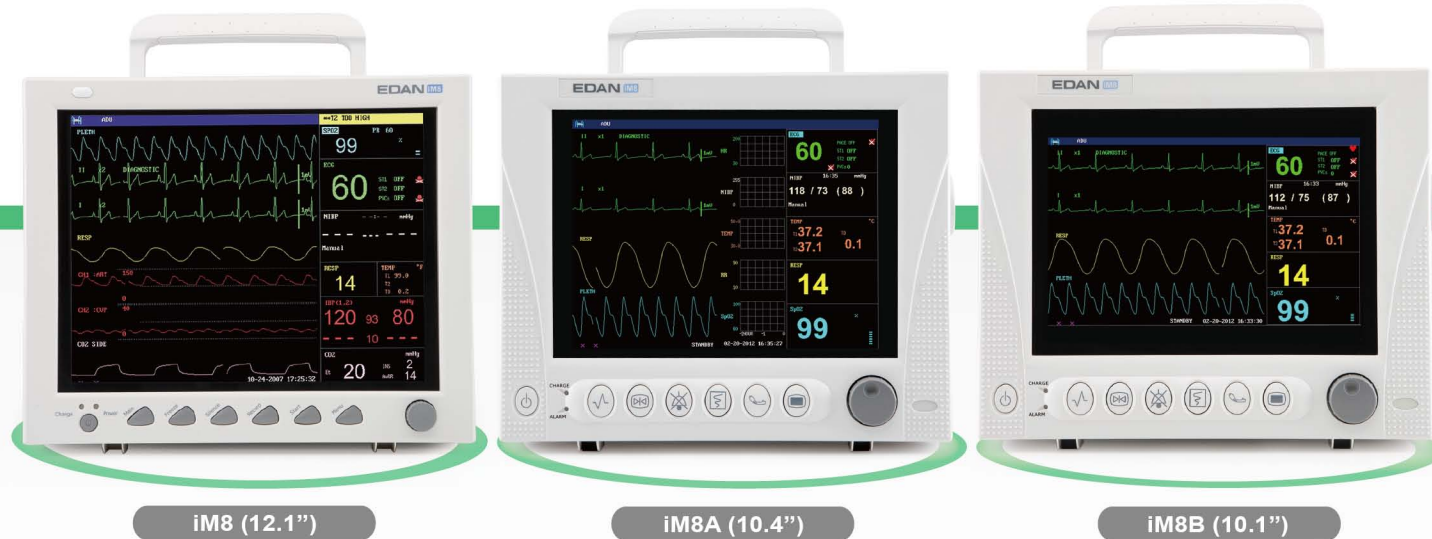
- 3/F-B, Nanshan Medical Equipment Park, Nanshan Rd 1019#, Shekou, Nanshan, Shenzhen, 518067 P.R. China
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ENG-PM-iM8/iM8A/iM8B-V1.1-20120809



Care for Health



## iM8 Series

iM8/iM8A/iM8B

Reliable Patient Monitor within Your Reach

The iM8 series puts reliable monitoring technologies at your finger tips. With its accurate readings and optimized performance, the iM8 series can meet basic monitoring needs, bringing easy access to high-quality healthcare for everyone.

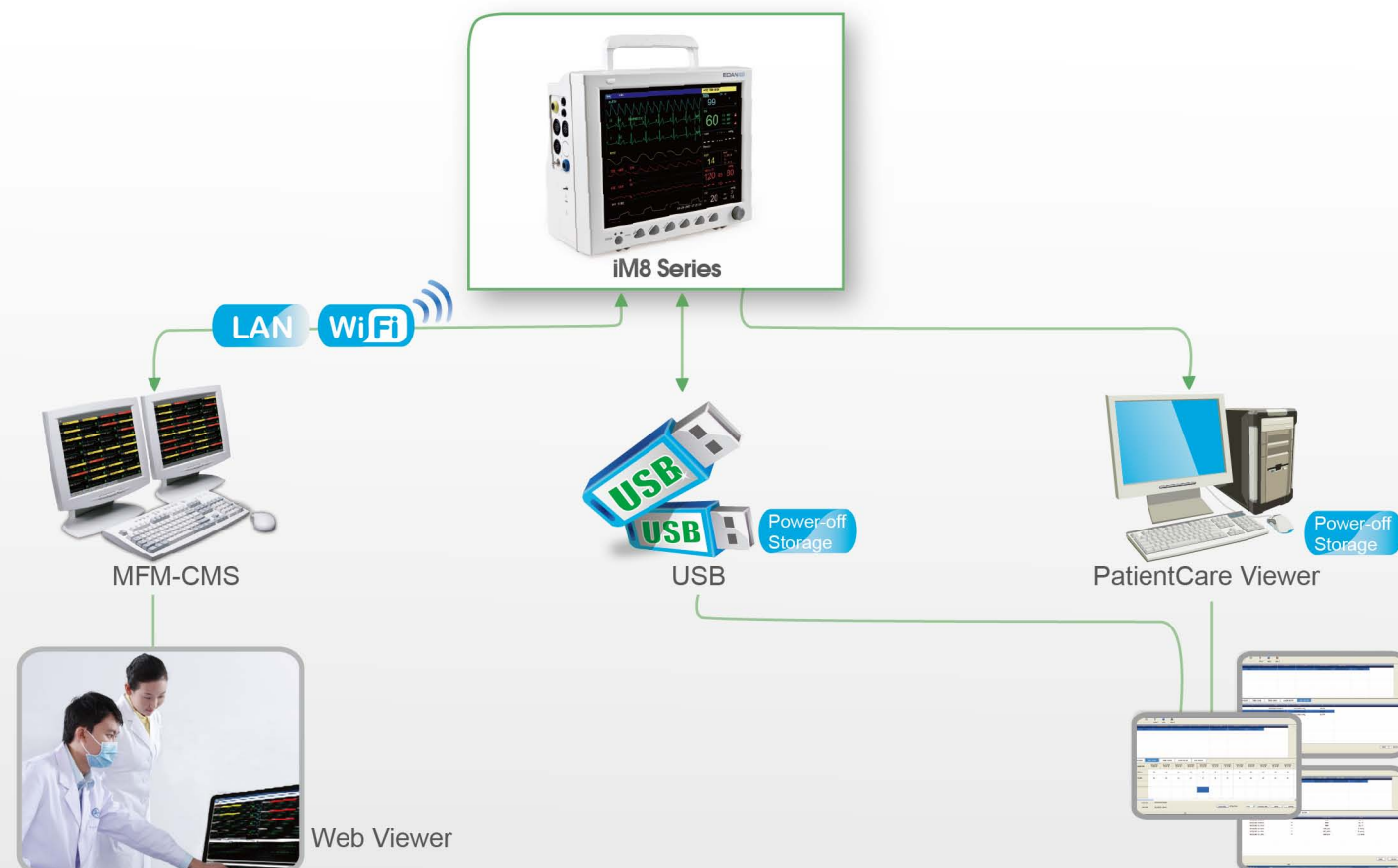
- High resolution color TFT-LCD screen
- Pacemaker detection
- Defibrillation and electrosurgical interference protection
- Pitch tone (Pulse-tone modulation)
- Unique iSEAP algorithm which is specially optimized for arrhythmia patients
- Dual-mode anti-interference pulse oximetry
- Clinically validated NIBP
- Nurse call function
- VGA output(optional)
- Suitable for adult, pediatric and neonatal patients

**Standard Parameters:** 3/5-lead ECG, RESP, EDAN SpO<sub>2</sub>, NIBP, PR, 2-TEMP

**Optional:** 2-IBP, Respironics CO<sub>2</sub>, EDAN CO<sub>2</sub>, Thermal Recorder, WLAN Accessory Kit

## Seamless Connectivity

The various interfaces and Wi-Fi compatibilities of the iM8 series enable healthcare providers to monitor their patients' health status from almost anywhere. Connecting it with EDAN MFM-CMS software, you may log on from anywhere and check the status of your patients.



<b>500</b> NIBP Measurement Review	<b>96 h</b> Trend Review	<b>60</b> Alarm Review	<b>720 s</b> Frozen Waveform
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### ➤ Respironics 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



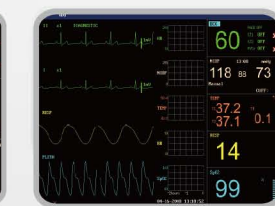
3/5-lead ECG Analysis



OxyCRG for Neonate



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Trend Screen