

iM3s

Vital Signs Monitor



Boasts Portability
Weighing > 1 lb



Built-in
WiFi



5" HD
Touch Screen

As the most compact vital signs monitor in its class, the iM3s boasts a distinctive pocket-size design, ensuring unparalleled portability for on-the-go spot checks. Despite its compact stature, it effortlessly incorporates all essential vital measurements, such as SpO2, NIBP, and optional temperature, offering complete monitoring functionality.

Features:

- Internal data storage of over 20,000 readings
- Adult, neonate, and pediatric settings
- Shock resistance up to 1 meter
- IP44 water & dust proof
- AA batteries for 5-6 hours of scanning time
- Touchscreen gesture operation
- Integrates with Point Click Care with VitalsXChange
- Optional built-in barcode scanner
- Optional built-in infrared forehead temp



Standard Parameters: SpO2, NIBP

Optional Parameters: Temperature, Barcode Scanner

Tabletop Expansion

When attached to an **optional tabletop dock**, the iM3s expands its abilities.

This unlocks a myriad of possibilities such as AC charging and optional thermal recording. Covidien and Exergen temperature options require tabletop charger stands.



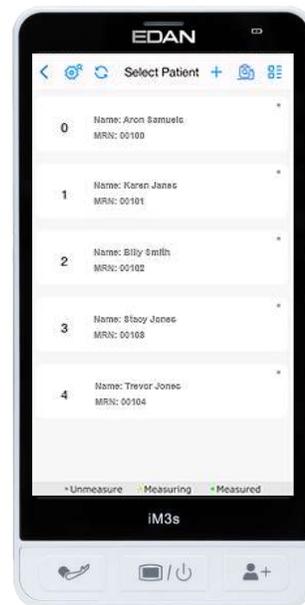
Adaptive Work Modes

Round Mode

- Designed to make daily use more efficient
- Easily upload data through WiFi to your EMR
- Features color-coded list
- Preset and save resident names and room numbers
- Up to 1,000 names can be added at once

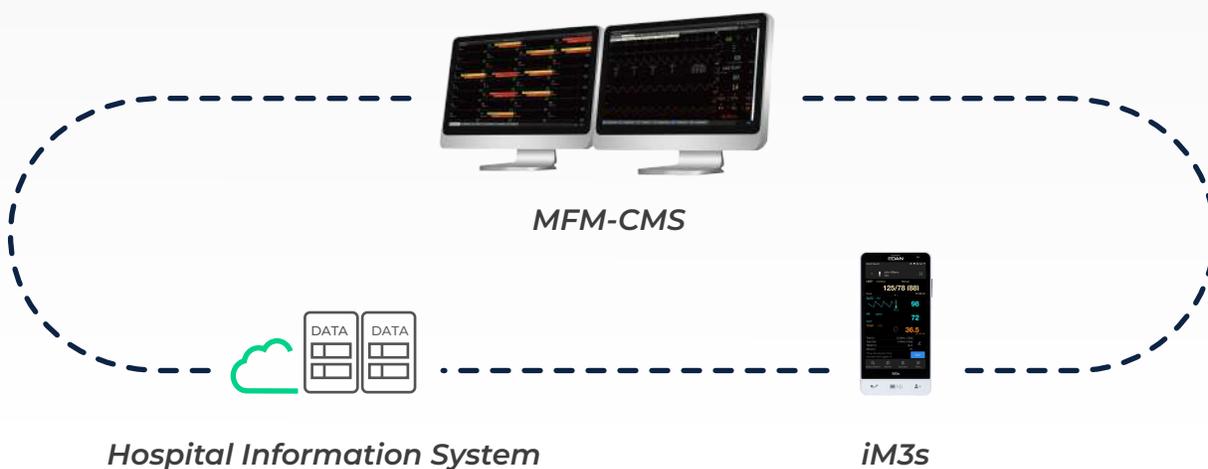
Spot Mode

- Designed for spot-check applications
- Real-time vitals
- No alarm



Robust Connectivity Features

The Wi-Fi capability allows the iM3s to connect to the MFM-CMS for centralized data management, or to communicate with HIS/EMR systems on a bi-directional basis.



Configurations

Standard – iM3s.NS

- SpO2, NIBP

Optional – iM3s_NST.E

- SpO2, NIBP, Exergen Temp,
Includes CS-05 Charging Dock

Optional – iM3s_NST.I

- SPO2, NIBP, built in infrared temp

Standard Accessories

- SPO2 Finger Sensor, Adult, 1m, reusable, DB9 — **02.57.225039**
- Adult NIBP Cuff (27cm-35cm) — **Cuff.E9**
- NIBP Tube — **01.57.471908**
- AA batteries

Optional Accessories

- Rechargeable Lithium-ion Battery — **01.21.064086**
- Charger Stand with Rechargeable Battery, Simple — **CS-04**
- Charger Stand with Rechargeable Battery, Dual Power Bank — **CS-05**
- Wall Mount (with upper basket and plate) — **iM3s.WM**
- Rolling Stand with Mounting Plate — **MT-207_plate_im3s**
- Built-in Barcode Scanner — **01.48.099193**
- Protective Cover for Main Unit — **02.51.412666**

CUFFS

- NIBP Cuff, Infant, 10-15cm, reusable — **Cuff.E5**
- NIBP Cuff, Small Child, 13-17cm, reusable — **Cuff.E6**
- NIBP Cuff, Child, 16-21cm, reusable — **Cuff.E7**
- NIBP Cuff, Small Adult, 20.5-28cm, reusable — **Cuff.E8**
- NIBP Cuff, Adult, 27cm-35cm, reusable — **Cuff.E9**
- NIBP Cuff, Large Adult, 34cm-43cm, reusable — **Cuff.E10**
- NIBP Thigh Cuff, Adult, 42cm-54cm, reusable — **Cuff.E11**



**CS-05 Charger Stand
Exergen Temp**



**CS-05 Charger Stand
Covidien Temp**



**Adult NIBP
Cuff**

Specifications

PHYSICAL SPECIFICATION

Dimensions:

Monitor: (77±1)(W) × (150±1)(H) × (28±1)(D) mm
CS-04 Charger Stand: (165±1)(L) × (113±1)(W) × (164±1)(H) mm
CS-05 Extended Stand: (165±1)(L) × (113±1)(W) × (164±1)(H) mm

Weight:

Monitor:
<300g (standard, without battery and accessories)
<350g (standard, with rechargeable battery, without accessories)
<370g (standard configuration, with AA battery, without accessories)
CS-04 Charger Stand: <900g
CS-05 Extended Stand: <2,000g

DISPLAY

Display screen: 5-inch color TFT LCD,
Resolution: 720×1280

POWER SUPPLY

Power Supply:

CS-04 Charger Stand: 100 V to 240 V~, 50 Hz/60 Hz
CS-05 Extended Stand: 100 V to 240 V~, 50 Hz/60 Hz

Current:

CS-04 Charger Stand: 0.5 A-0.25 A
CS-05 Extended Stand: 0.5 A-0.3 A

MONITOR BATTERY

Battery Type: Rechargeable lithium-ion battery or 3 AA batteries
Capacity: Lithium-ion battery ≥2700 mAh
Operating Time:

Lithium-ion battery ≥12 hrs (Standby)
Lithium-ion battery ≥8 hrs (Normal working status)
AA battery ≥10 hrs (Standby)
AA battery ≥6 hrs (Normal working status)

Fast Charging Time: <4 hrs, when the monitor is off
Charging Time: ≤14 hrs, when the monitor is on or in standby mode

CS-05 EXTENDED STAND BATTERY

Battery Type: Rechargeable lithium-ion battery
Capacity: Lithium-ion battery ≥2400 mAh
Operating Time:

≥20 hrs (without external modules used)
≥8 hrs (with external modules used)

Fast Charging Time: <3.5 hrs, in OFF status, not connected with monitor

WIFI

IEEE: 802.11a/b/g/n
Bandwidth: 2.4 GHz & 5 GHz 20 MHz

E-LINK (BLUETOOTH)

Radio Technology: BR, EDR, BLE
Frequency Range: 2402 MHz ~ 2480 MHz
Modulation: GFSK, π/4-DQPSK, 8-DPSK

DATA STORAGEAGE

Round Mode:

Minimum data (SpO2, NIBP, TEMP measurement data and custom parameters data), storage time, etc.
20000 sets in internal storage

Spot-checking mode:

Minimum 20000 sets of spot-checking data for multiple patients

INTERFACES & OTHERS

USB Port: 2
Built-in Barcode Scanner: Optional

NIBP

Method: Oscillometric
Mode: Manual, Continuous, Average
Continuous: 5 min, interval is 5 s
Measuring Type: SYS, DIA, MAP, PR
Average measurement Interval:
1/2/3/4/5 min
Times: 3/5

Measuring Range

Adult Mode

SYS: 25 mmHg to 290 mmHg
DIA: 10 mmHg to 250 mmHg
MAP: 15 mmHg to 260 mmHg

Pediatric Mode

SYS: 25 mmHg to 240 mmHg
DIA: 10 mmHg to 200 mmHg
MAP: 15 mmHg to 215 mmHg

Neonatal Mode

SYS: 25 mmHg to 140 mmHg
DIA: 10 mmHg to 115 mmHg
MAP: 15 mmHg to 125 mmHg

Cuff Pressure Measuring Range: 0 mmHg to 300 mmHg
Pressure Resolution: 1 mmHg

Maximum Mean Error: ±5 mmHg
Maximum Standard Deviation: 8 mmHg
Maximum Measuring Period:

Adult/Pediatric: 120 s
Neonatal: 90 s

Typical Measuring Period: 30 s to 45 s (depend on HR)

Overpressure Protection:

Adult: 297 mmHg ±3 mmHg
Pediatric: 245 mmHg ±3 mmHg
Neonatal: 147 mmHg ±3 mmHg

Pre-inflation Pressure:

Adult:

Default: 160 mmHg
Range: Auto/80/100/120/140/150/160/180/200/220/240 mmHg

Pediatric:

Default: 140 mmHg
Range: Auto/80/100/120/140/150/160/180/200 mmHg

Neonatal:

Default: 100 mmHg
Range: Auto/60/70/80/100/120 mmHg

SPO2

Measuring Range: 0% to 100%
Resolution: 1%

Data update period: 1 s

Accuracy:

Adult/Pediatric: ±2% (70% to 100% SpO2)
Undefined (0% to 69% SpO2)
Neonatal: ±3% (70% to 100% SpO2)
Undefined (0% to 69% SpO2)

PI (PERFUSION INDEX)

Measuring Range: 0-10

Resolution: 1

PR

PR (SpO2):

Measuring range: 25 bpm to 300 bpm
Accuracy: ±2 bpm
Resolution: 1 bpm

PR (NIBP):

Measuring range: 40 bpm to 240 bpm
Accuracy: ±3 bpm or 3.5%, whichever is greater
Resolution: 1 bpm

F3000 Module (Covidien Quick TEMP)

Measuring range: 30°C ~ 43°C
Prediction measurement range: 35°C ~ 43°C
Cold mode prediction measurement range: 33°C ~ 43°C
Sensor type: Oral / Axillary / Rectal
Resolution: 0.1°C

Accuracy: Monitoring Mode and Predictive Mode: ±0.1°C

Quick Predictive Mode: ±0.3°C

Typical measurement time

Oral (Quick Predictive Mode):
(3 ~ 5) s (non-fever temps); (8 ~ 10) s (fever temps)
Oral (Predictive Mode): (6 ~ 10) s
Axillary: (8 ~ 12) s
Rectal: (10 ~ 14) s
Monitoring Mode (all sites): (60 ~ 120) s

Measuring Mode: Direct Mode / Adjusted Mode

TAT-5000S Module (Exergen Infrared TEMP)

Measuring range:

61 °F to 110 °F (16 °C to 43 °C)
(16 °C rounded up from 15.5 °C)

Resolution: 0.1 °C or 0.1 °F

Arterial heat balance Range for Body Temperature

94 °F to 110 °F (34.5 °C to 43 °C)

Clinical Accuracy: ±0.2 °F or 0.1 °C Per ASTM E1112

Response time: ~0.04 seconds

T100A (Edan Infrared Forehead TEMP)

Measuring range: 34°C ~ 43°C 93.2 F~109.4 F

Accuracy:

34.0°~ 34.9°: 0.3
35.0°~ 42.0°: 0.2
42.1°~ 43.0°: 0.3
33°C ~ 43°C

Measuring site: Forehead

Resolution: 0.1°C(0.1 F)

Response time: <2 s