

iocare



iM 12 Multi-Parameter Patient Monitor



Features

- 12.1 inches high resolution color TFT display;
- Optional full touch-screen for easy operation;
- Attractive and durable silicon button with backlight;
- 20 types of arrhythmia and S-T segment analysis;
- Optional 12-lead ECG for easy diagnosis and analysis;
- Maximum 480-hour graphic and tabular trends, 1000 NIBP records, 700 alarm events and 2-hour ECG waveform storage and review;
- Large font display, OxyCRG, graphic & tabular trend, bed-bed observation and more display modes to satisfy different requirements in clinics care;
- Rechargeable Li-ion battery up to 5 hours continuous work;
- Drug concentration and titration table calculation;
- Anti high-frequency electrotome and defibrillation protection meet different working environments;
- USB port enables software upgrades and also supports future keyboard & mouse device connection;
- Support external USB storage;
- Selectable color configuration for all parameters (32 colors);
- VGA output for external display (optional);
- Flexible mounting and trolley solution (optional);
- Wire/wireless network connect to central monitoring system (optional);
- Nurse Call function and bi-directional communication with the central monitoring system (optional).

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

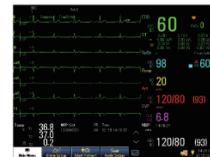
Optional: 12-lead ECG, 2-IBP, EtCO₂ (mainstream, sidestream, microstream), anesthetic depth, Masimo or Nellcor SpO₂, AG, touch screen, VGA, trolley, wall mounting, recorder, nurse call, central monitoring system.



Alarm limit display



Trend graph monitoring co-display



7-lead full screen display



7-lead half screen display



12-lead full screen display



OxyCRG monitoring display



Large font intensive care display



Bed to bed view display

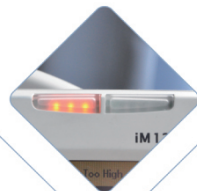


Drug dose calculation

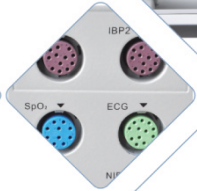
Stable handle



Dual alarm lights



Superior & intelligent coded socket



Wireless connection with CMS



Dual Li-ion Battery, up to 5 hours continuous working



Touch screen



Abundant extension interface



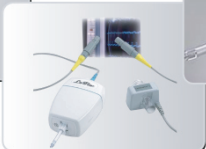
Durable silicon button with backlight



Mounting Solution
Trolley and wall mount bracket meet clinical requirements of different medical environment



CAPNOSTAT5 mainstream module



ETCO2 (Respironics) "Plug and Play"



LoFlo sidestream module



Wire / wireless network solution
Bi-directional communications with central monitor station by wire / wireless network Nurse Call

Specifications:

Device Dimension and Weight

Dimension: 310mm × 163mm × 285mm(L×W×H)
Weight: 4.5 kg

Operation Environment

Power requirement: AC: 100V—240V, 50 Hz / 60 Hz
Internal battery power supply: Rechargeable Li-ion battery
14.8 V 4400mAh

Battery working period: up to 5 hours
Temperature: 0°C — 40°C
Humidity: 10%—93%

Patient Range

Adult, pediatric and neonate

Standard Configuration:

ECG

Lead type: 3-lead and 5-lead selectable, 12-lead optional
Lead selection: 3-lead: I, II, III, 5-lead: I, II, III, aVR, aVL, aVF, V1-V6
12-lead: I, II, III, aVR, aVF, aVL, V1-V6
Gain selection: ×1/8, ×1/4, ×1/2, ×1, ×2, ×4, auto
Sweep speed: 6.25 mm/s; 12.5 mm/s; 25.0 mm/s; 50.0 mm/s
HR range: Adult: 15 bpm — 300 bpm
Pediatric / Neonate: 15 bpm — 350 bpm
Resolution: ±1 bpm
Accuracy: ±1% or ±1bpm, whichever is higher
Filter: diagnostic mode: 0.05 Hz-100 Hz
monitoring mode: 0.5 Hz-25 Hz
surgical mode: 1 Hz-15 Hz
Type of arrhythmia analysis: 20 types
ST segment range: (-2.0 mV) — (+2.0 mV)

RESP

Method: trans-thoracic impedance
RR measurement range: adult: 0 rpm — 120 rpm
neonate / Pediatric: 0 rpm — 150 rpm
Resolution: 1 rpm
Apnea alarm threshold: 0s, 15s, 20s, 25s, 30s, 35s, 40s
Band width: 0.2 Hz—2 Hz (-3 dB)
Sweep speed: 6.25 mm/s, 12.5 mm/s, 25.0 mm/s
Sensitivity: ×1/4, ×1/2, ×1, ×2, ×4, auto
Accuracy: ±2 rpm

NIBP

Method: automatic oscillometric
Operation modes: manual / automatic / continuous
Resolution: 1 mmHg
Auto measurement time interval: adjustable 1min, 3min, 5min, 10min, 15min, 30min, 45min, 1h, 2h, 3h, 5h, 8h
Measurement types: systolic, diastolic, mean
Pressure range for adults: 40-270 mmHg
diastolic: 10-210 mmHg
mean: 20-230 mmHg

Pressure range for pediatrics: systolic: 40-200 mmHg
diastolic: 10-150 mmHg
mean: 20-165 mmHg
Pressure range for neonates: systolic: 40-135 mmHg
diastolic: 10-100 mmHg
mean: 20-110 mmHg
Leak test and pressure auto calibration: yes
Over-pressure protection: dual safety protection

SpO₂ (Masimo & Nellcor are optional)

Biocare accuracy: ±2% (70%—100%)
Masimo accuracy: ±2% (70%—100%, Adu / Ped)
±3% (70%—100%, Neo)
Nellcor accuracy: ±2% (70%—100%, Adu / Ped)
±3% (70%—100%, Neo)
Refreshing rate: 1s

PR

Range: Biocare SpO₂: 25—250 bpm
Masimo SpO₂: 25—240 bpm
Nellcor SpO₂: 20—300 bpm
IBP module: 30—350 bpm
Accuracy: Biocare SpO₂: ±3 bpm
Masimo SpO₂: ±3 bpm
Nellcor SpO₂: ±3 bpm (20—250 bpm, Adu / Neo)
IBP module: ±1 bpm (30—200 bpm)
Resolution: 1 bpm

Temperature (2 channels)

Measurement / Alarm range: 0°C—50°C (32°F—122°F)
Resolution: 0.1°C
Accuracy: ±0.1°C
Channel: 2-channel

Optional Configuration:

IBP
Measured parameters: systolic pressure, diastolic pressure, mean pressure, pulse rate
Measurement pressure: ART, PA, P1, P2, LAP, RAP, ICP, CVP
Measurement range: -50—350mmHg
Accuracy: ±2% or 1mmHg whichever is greater
Resolution: 1mmHg
Refreshing rate: 1s

ETCO₂ (mainstream, sidestream, microstream)

By RESPIRONICS, PHASEIN technology

Respironics Sidestream LoFlo Module (can support microstream):

Measurement range: 0%—20% (0 mmHg —150 mmHg)
Resolution: 1 mmHg
Measurement accuracy: 0 mmHg—40 mmHg, ±2 mmHg
41 mmHg—70 mmHg, ±5% of the reading
71 mmHg—100 mmHg, ±8% of the reading
101 mmHg—150 mmHg, ±10% of the reading

Respiration rate measurement range: 2 rpm—150 rpm
Respiration rate measurement accuracy: ±1 rpm
Apnea time: 20s, 25s, 30s, 35s, 40s, 45s, 50s, 55s, 60s
Sampling flow rate: 50ml/min ± 10ml/min

Respironics Mainstream CAPNOSTATS Module

Measurement range: 0%—20% (0 mmHg —150 mmHg)
Resolution: 1mmHg
Measurement accuracy: 0 mmHg—40 mmHg, ±2 mmHg
41 mmHg—70 mmHg, ±5% of the reading
71 mmHg—100 mmHg, ±8% of the reading
101 mmHg—150 mmHg, ±10% of the reading
Respiration rate measurement range: 0 rpm—150 rpm
Respiration rate measurement accuracy: ±1 rpm
Apnea time: 20s, 25s, 30s, 35s, 40s, 45s, 50s, 55s, 60s

Phasein Mainstream IRMA Module

Measurement range: 0%—15%
Resolution: 1mmHg
Accuracy: 0—15%: ±(0.2%+2% of the reading)
Respiration rate measurement range: 0 rpm—150 rpm
Respiration rate measurement accuracy: ±1 rpm
Apnea time: 20s, 25s, 30s, 35s, 40s, 45s, 50s, 55s, 60s

Phasein Anesthetic Gases / O₂

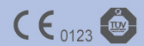
Measurement method: infrared radiation absorption characteristics
Gas: CO₂, O₂, N₂O, Des, Sev, Enf, Iso, Hal
Warm-up time: 30 s
Measuring range: CO₂: 0%—25%, O₂: 0%—100%
N₂O: 0%—100%, Des: 0%—25%
Sev: 0%—25%, Enf: 0%—25%
Iso: 0%—25%, Hal: 0%—25%

awRR range: 0 rpm—254 rpm
Resolution: CO₂: 1mmHg, awRR: 1 rpm
Measuring accuracy drift: meet the accuracy requirements within 6 hours
Apnea time: 20s, 25s, 30s, 35s, 40s, 45s, 50s, 55s, 60s

CSM Anesthetic Depth Index Monitoring

Anesthetic depth index: 0—100, 6Hz—42Hz filtering
Wireless transmission distance: ≥8 m between monitor and CSI module
EEG Sensitivity: ±400 μV
EMG: 0-100 (Logarithmic value), 75Hz—85Hz filtering
BS: 0-100%, 2Hz—42Hz filtering

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