

iocare



iM 15 Multi-Parameter Patient Monitor

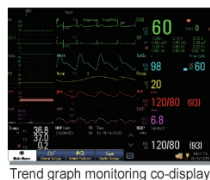
Features

- 15 inches high resolution color TFT display with LED backlight;
- Optional full touch-screen for easy operation;
- Attractive and durable silicon button with backlight;
- Support 7-lead ECG waveforms being displayed on screen, pacer pulse analysis, ST segment analysis and 20 types of arrhythmia analysis;
- Support 12-lead waveforms of resting ECG being displayed on screen, optional simultaneous 12-lead ECG analysis;
- Maximum 480-hour graphic and tabular trends, 1000 NIBP records, 700 alarm events and 2-hour ECG waveform storage and review;
- Menu shortcut key user-defined function meets different operation habits;
- Anti high-frequency electrotome and defibrillation protection meet different working environments;
- Support mounting and trolley solution;
- USB port enables software upgrades and also supports future keyboard & mouse device connection;
- Support external USB storage;
- VGA output for external display (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, SpO₂, NIBP, RESP, PR, TEMP

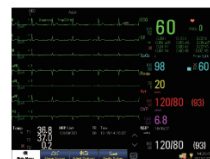
Optional: 12-lead ECG, 2-IBP, EtCO₂ (mainstream, sidestream, microstream), anesthetic depth, Masimo or Nellcor SpO₂, AG, touch screen, VGA, trolley, wall mounting, recorder, nurse call, central monitoring system.



Trend graph monitoring co-display



Bed to bed view display



7-lead full screen display



Drug dose calculation



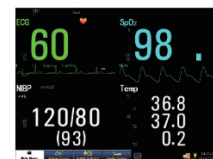
7-lead half screen display



12-lead full screen display



OxyCRG monitoring display



Large font intensive care display



Superior & intelligent coded socket



Durable silicon button with backlight



Stable handle



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



Abundant extension interface



Touch screen



Dual alarm lights



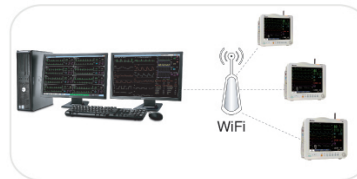
CAPNOSTAT5 mainstream module



EICO2 (Respirics) "Plug and Play"



LoFlo sidestream module



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



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

Specifications:

Device Dimension and Weight

Dimension: 370mm × 187mm × 313mm(L×W×H)
Weight: 5.0 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℃—40℃
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, aVF, aVL

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, 30 min, 45 min, 1h, 2h, 3h, 5h, 8h

Measurement types: systolic, diastolic, mean

Pressure range for adults: systolic: 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℃—50℃ (32°F—122°F)

Resolution: 0.1℃

Accuracy: ±0.1℃

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 CAPNOSTAT5 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, 50 s, 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