

IP-4050

Multi-Parameter Patient Monitor

2ch ECG / SpO2 / NIBP / 2ch IBP / 2ch Temp / Respiration
Optional Built-In EtCO2

IP-4050 is

10.4 inch Multi-Parameter Color Patient Monitor
High resolution (800*480) / WideScreen (16:9) TFT LCD
7 parameters along with 6 waveforms

ECG Analysis

PVC and ST Level Display / Pacemaker Detection
Detection of 12kinds of arrhythmia

Advanced SpO2

PureSET SpO2 Technology
SpO2 Averaging (4/8/12/16) Technology

EtCO2 module

Built-In Respiration EtCO2 module



Features

Easy to Use

Selectable 6 wave / 5 wave / 4 wave / 3 wave Display
Configurable color and font of parameters
Configurable color of waveforms

Transportable

Up to 3 hours use with a battery
Light weight of 3 kgs

Quick Start-Up

Less than 2 seconds

72 hours of tabular and graphic trend data
RS-232 port or LAN (Option)
Multi-national Languages (7 Languages)
Rolling stand and Wall mount
Central Monitoring System (UDP type)



General

- Display Model IP-4050 10.4 inch wide TFT color LCD
- Dimension 257 (W) x 236 (H) x 185 (D) [mm]
- Weight 3.0 kg excluding accessories
- Resolution 800 x 480 pixel
- Waveforms 6 max
- Interface RS 232 Port, VGA Port, LAN Port (Optional)
- Touch screen (Optional)

Printer (Optional)

- Type Thermal
- Paper speed 50 mm/s
- Paper size 2 inch (50.8mm)
- Weight 153g
- Resolution 203 dpi: 8 dots/mm

Power requirement

- Voltage AC 100-240V~50Hz/60Hz 100V A
- Battery One battery typically provides operating time of 3 hours per when fully charged with no printing, no external communication, and no audible alarm sound. (Without Option)
- Battery type Li-ion (10.8 VDC/2200mAh)
- Fuse 250V / 5A

Environmental Conditions

- Operating temperature 5°C to 40 °C [41°F to 104 °F]
- Operating humidity 15% to 90% RH, non-condensing
- Storage temperature -20 °C to 50 °C [-4°F to 122 °F]

ECG

- LEAD 3 / 5 leads
i, ii, iii, aVR, aVL, aVF, V (Chest Lead)
- HR (Heart rate)
Measurement range 20 bpm to 300 bpm
- HR range accuracy ± 3 bpm or $\pm 3\%$ whichever is greater
- Sweep speed 12.5 mm/s, 25 mm/s, 50 mm/s
- Lead-off detection YES
- CMRR > 90 dB at 50 or 60 Hz
- Gain 5, 10, 20 mm/mV

Temperature measurement

- Method Type Thermistor
- Compatible with YSI Series 400 temperature probes
- Parameter displayed TEMP 1, TEMP 2
- Range 10 °C to 45 °C [50 °F to 113 °F]
- Display accuracy ± 0.1 °C (25 °C to 45 °C) [to °F]
 ± 0.2 °C (10 °C to less than 25 °C) [to °F]

Respiration

- Method Type Trans-thoracic impedance
- Leads RA to LA
- Range 0 to 150 breaths/min
- Accuracy ± 1 breaths/min
- Sweep speed 6.25mm/s, 12.5mm/s, 25mm/s

NIBP

- Measurement Technology Oscillometric method
- Pressure display range 0mmHg to 300mmHg
- Pressure display accuracy Less than ± 3 mmHg
- Measurement range
Adult / Child Systolic : 50 to 255 mmHg
Diastolic : 30 to 220 mmHg
Mean : 40 to 235 mmHg
Infant / Neonate Systolic : 30 to 130 mmHg
Diastolic : 20 to 100 mmHg
Mean : 25 to 120 mmHg
- Auto Mode : 1, 3, 5, 10, 30, 60, 90, 120, 240 min

SpO2 (Pulse oximeter)

- % Saturation range 0% to 100%
- Pulse rate range 25 to 250 bpm
- SpO2 accuracy Adult 70 to 100% $\pm 2\%$
Neonate 70 to 100% $\pm 3\%$
0~69% Unspecified
- Pulse rate accuracy ± 2 bpm which is greater
- Perfusion range 0.05 % to 20 %

IBP

- Channel 2 channels
- Method type Pressure transducer method
- Pulse rate range 20 to 250 bpm
- Pulse rate accuracy $\pm 1\%$ or ± 1 bpm
- Pressure measurement range -50 to +300 mmHg
- Parameter displayed P1, ABP
P2, CVP, PAP, LAP

EtCO2 (Optional)

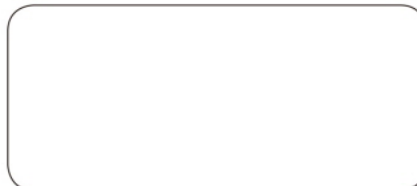
- Built-In Respironics Sidestream
- Method type Non-dispersive infrared
Single beam optics, dual wavelength, no moving parts
- CO2 measurement range 0 to 150mmHg
0 to 40mmHg ± 2 mmHg
41 to 70mmHg $\pm 5\%$ of reading
71 to 100mmHg $\pm 8\%$ of reading
101 to 150mmHg $\pm 10\%$ of reading
- Respiratory rate range 2 to 150 bpm
- Respiratory rate accuracy ± 1 breath

Ver 1.01090908

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