

# Purescope

## Multi parameter patient monitor



8.5 inch LCD screen



7 inch LCD screen

*' Enhanced health care system  
Combination of effective and precise technology  
with simple and compact design '*

### ECG, SpO2, NIBP, 2- IBP, 2-Temperature, Respiration (EtCO2/Printer)

- 800 x 480 high resolution Wide TFT Color LCD Screen
- 3 kgs Compact and light weight design for portable environment
- Detecting the ECG arrhythmia alarms.
  - 12 kinds of arrhythmia
  - Display of PVC & ST Level
- High performance Battery Capability
  - 5 hours charging time
  - 4 hours operating time
- 48 hours of graphic and tabular trend
- Interface: RS-232 port, VGA port, LAN port ( option )

### ● Easy-to-use design



- EtCO2 Module : Measures CO2 concentration waveform and EtCO2 concentration using the sidestream
- ECG Module : Measures cardiac output using the thermodilution method
- SpO2 Module : Measures oxygen saturation
- IBP Module : Measures invasive blood pressure module
- Temperature Module : Dual channel temperature module
- NIBP Module : Measures non-invasive blood pressure module

### ● Display mode



The main screen is identified as graph area, numeric area, information area



Up to 48 hours of graphic and tabular trend of all parameters, and vital signs list data can be stored and revised.

## General

- Display Model: IP-3010 7 inch wide TFT color LCD
- Model: IP-3050 8.5 inch wide TFT color LCD
- Dimension 240(W) x 230(H) x 160 (D) [mm]
- Weight 3.0 kg excluding accessories
- Resolution 800 x 480 pixel
- Waveforms 5 max
- Interface RS 232 Port, VGA Port, LAN Port

## 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 100VA
- Battery One battery typically provides operating time of 4 hours per when fully charged with no printing, no external communication, and no audible alarm sound.
- Battery type Li-ion ( 11.1 VDC/2200mAh)
- Fuse 250V / 5A

## Environmental Conditions

- Operating temperature 10 °C to 40 °C [ 50°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) 20 bpm to 250 bpm
- Measurement range ± 3 bpm or ± 3% whichever is greater
- HR range accuracy 12.5 mm/s, 25 mm/s, 50mm/s
- Sweep speed YES
- Lead-off detection > 90 dB at 50 or 60 Hz
- CMRR

## 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 ]



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CE 0470



## Respiration

- Method Type Trans-thoracic impedance
- Leads RA to LA
- Range 0 to 150 breaths/min
- Accuracy ±2 breaths/min
- Sweep speed 6.25mm/s, 1.5mm/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 1% to 100%
- Pulse rate range 25 to 250 bpm
- SpO2 accuracy Adult  
± 2% at 71 to 100%  
± 3% at 50 to 70%
- Neonate  
± 3 % at 71~100%
- 0~49 % Unspecified
- Pulse rate accuracy ± 2 % at 25 to 250 bpm
- 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 ± 1 % or ± 1 bpm
- Pressure measurement range - 50 to + 300 mmHg
- Parameter displayed P1,ABP  
P2,CVP,PAP,LAP

## EICO2 ( Option)

- Method type Non-dispersive infrared
- measurement range 0 to 150mmHg
- measurement range 0 to 40mmHg ±2mmHg
- measurement range 41 to 70mmHg ±5% of reading
- measurement range 71 to 100mmHg ± 8% of reading
- measurement range 101 to 150mmHg ± 10% of reading
- Respiratory rate range 2 to 150 bpm
- Respiratory rate accuracy ± 1 breath

CE 0470

- 7" / 8.5" color high resolution wide TFT color LCD screen
- Detection of 12 kinds of ECG arrhythmia alarms
- 5 hours charging and 4 hours operating battery
- 3 kgs compact & light design

## IP-3000 Series

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