

## Technical Data TRUSCOPE® III

### General

Product Application: Adult, pediatric and neonate  
**Size & Weight**  
Dimension: 318mm (W) X 264mm (H) X 160mm (D)  
Weight: 4.89 Kg(Inclusive of 1 Li-ion battery)  
**Power Supply:** AC 100-240 V 50 Hz / 60 Hz/ 12 V D.C input  
Defibrillator & cautery protected  
Safety Class: Category I

### Display

Display: 12.1" high resolution color TFT LCD display  
Resolution: 800x600 pixels or higher  
Optional: Touch screen

### Battery

Type: Rechargeable Lithium ion batteries  
Battery back up: >240 minutes  
Battery charging time: <6 hours

### Recorder (optional)

Method: Thermal dot array  
Paper width: 50 mm  
Paper speed: 12.5 / 25 / 50 mm/sec  
Trace: Max 3 tracks

### Alarm

Level: Low, medium & high  
Indication: Auditory & visual  
Setup: Default & custom  
Silence: All alarms can be silenced

### Environment

Operating temperature: 5°-40° C  
Storage temperature: -20° to +55° C  
Operating humidity: 15% to 85% (non condensing)  
Storage humidity: 10% ≤ 93% (non condensing)  
Operating atmospheric pressure: 700 hPa to 1060 hPa  
Storage atmospheric pressure: 500 hPa to 1060 hPa

### ECG

Leads: I, II, III, aVR, aVL, aVF, V<sub>1</sub>, V<sub>2</sub>, V<sub>3</sub>, V<sub>4</sub>, V<sub>5</sub>, V<sub>6</sub>  
Optional: I, II, III, aVR, aVL, aVF, V<sub>1</sub>, V<sub>2</sub>, V<sub>3</sub>, V<sub>4</sub>, V<sub>5</sub>, V<sub>6</sub>  
Gains: Auto, 0.25x, 0.5x, 1x, 2x, 4x  
Input impedance: 5 M ohm  
Common Mode Rejection Ratio: > 89dB (Diagnostic mode)  
> 105dB (Monitor mode)  
> 105dB (Surgical mode)

Bandwidth: 0.5-40 Hz (Monitoring mode)  
0.05-150 Hz (Diagnostic mode)  
1-25 Hz (Surgical mode)

Indication of detachment of electrodes (exclusive of RL)

Scanning speed: 12.5 mm/s, 25 mm/s, 50 mm/s

Heart Rate range: Adult: 10-300 bpm

Pediatric and Neonate: 10-350 bpm

Accuracy: ±1 bpm or ±1 % whichever is greater

### Respiration

Method: Thoracic Impedance method  
Measuring range: 0-150 rpm Accuracy: ±2 rpm  
Gain: x0.25, x1, x2, x4  
Sweep speed: 6.25 mm/s, 12.5 mm/s, 25 mm/s  
Apnea alarm delay: 10s, 15s, 20s, 25s, 30s, 35s, 40s, 45s, 50s, 55s, 60s

### NIBP

Method: Automatic Oscillometric  
Operation modes: Single (manual), Cycle (automatic), STAT (continuous) & Sequence (Inflation time interval with 2/5/10/15/30 min with repetition up to 4 times for each time interval)

Measurement: Systolic pressure, Diastolic pressure, Mean arterial pressure(MAP)

Range: Adult: 10-270 mmHg

Pediatric: 10-235 mmHg

Neonate: 10-135 mmHg

Unit: mmHg / Kpa selectable

Auto measurement: 1,2,3,4,5,10,15,30,45,60,90,120,240,480 minute

Measurement time: 20s to 45s (Normally depending on HR and moving interference typically)

Maximal measurement time: 120s (adult / pediatric), 90s(neonate)

### Memory/ Storage

168 hrs of trend, 128 arrhythmia & 128 Alarm events, 1000 NIBP groups

### SpO<sub>2</sub> (Digital)

Range: 0-100%  
Accuracy: ±2% (70-100%), (0-69%) unspecified  
Pulse rate range: 20 – 250 bpm  
Pulse rate accuracy: ±1 or 1%, whichever is greater

Accessories shown are not part of standard configuration All registered trademarks acknowledged.

### SpO<sub>2</sub> (Nellcor) (Optional)

Range: 0-100%  
Accuracy: ±2% (70-100%) adult/pediatric,  
±3% (70-100%) neonate, (0-69%) unspecified  
Pulse rate range: 20 – 300 bpm  
Pulse rate accuracy: 20-250 bpm: ±3%,  
251-300 bpm: unspecified

### SpO<sub>2</sub> (Masimo) (Optional)

Range: 0-100%  
Accuracy: ±2% (70-100%) adult/pediatric non-motion conditions,  
±3% (70-100%) neonate non motion & motion conditions,  
±3% (70-100%) motion conditions (0-69%) unspecified  
Pulse rate range: 25 – 240 bpm  
Pulse rate accuracy: ±3 bpm (non-motion conditions)  
±5 bpm (motion conditions)

### Temperature

Range: 0°C-50°C  
Unit: Centigrade (°C), Fahrenheit (°F)  
Resolution: 0.1°C  
Accuracy: 0.0°C-50.0°C: ±0.1°C (not including the probe)  
25.0°C-45.0°C: ±0.2°C (including the probe)  
Alarm range: 0°C-50°C

### IBP (Option)

Channel: 2 channels  
Range: -50mmHg to +300 mmHg  
Resolution: 1mmHg  
Accuracy: ±4mmHg or 4% of the reading whichever is greater  
Unit: mmHg, Kpa, cmH<sub>2</sub>O  
Transducer sensitivity: 5µV/V/ mmHg, ±2%  
Names of pressures: ART / PA / CVP / LAP / RAP / ICP  
Optional transducer: BD, UTAH, EDWARD & BL Life Sciences

### EtCO<sub>2</sub> (Sidestream) (Option)

Method: Sidestream (CPT)  
Range: 0.0 % to 13.1 % (0 mmHg to 99.6 mmHg)  
Resolution: 0.1% or 1 mmHg  
Accuracy: <5.0 %, ±0.3 % (±2.0 mmHg)  
5.0 %, <±10 % of the reading  
Unit: %, mmHg

### EtCO<sub>2</sub> (Microstream) (Option)

Method: Microstream/ Advanced Sidestream  
Range: 0% to 19.7% (0 mmHg to 150 mmHg)  
Resolution: 0.1% or 1 mmHg  
Accuracy: 0.0-40.0 mmHg. ±2% of the reading  
41-71 mmHg. ±5%, of the reading  
71-100 mmHg. ±8% of the reading  
101-150mmHg. ±10% of the reading  
Unit: %, mmHg, Kpa

### EtCO<sub>2</sub> (Mainstream) (Option)

EtCO<sub>2</sub> (Mainstream)Module  
Measurement range: 0% to 19.7 % (0 mmHg to 150 mmHg)  
Resolution: 0.1% or 1mmHg  
Accuracy: +/- (0.3%<sub>ABS</sub> + 4 %<sub>REL</sub>)  
Unit: %, mmHg, kPa

### Multigas (Mainstream & Sidestream) (Option)

- Co<sub>2</sub>, N<sub>2</sub>O & 5AA - ISA AX plus/ IRMA - AX plus  
- Co<sub>2</sub>, O<sub>2</sub>, N<sub>2</sub>O & 5AA - ISA OR plus

### Certification

Safety: IEC 60601-1 and IEC 60601-1-2  
Conformity: CE 0123 according to Annexe II 93/ 42/ EEC (medical devices)

### Accessories (As per Configuration)

Power cord - 1 no.  
ECG cable (5 lead) - 1 no.  
ECG electrodes - Pack of 10  
SpO<sub>2</sub> probe with extensioncable - 1 no. each  
NIBP cuff - Adult & Paediatric  
NIBP extension tube  
TEMP probe (body surface) - 1 no.  
Grounding wire - 1 no.  
User manual - 1 no.  
Warranty card - 1 no.

Technical data are subject to change without notice

Part no.: 2-100005 0221 Ver. no.: 1.0

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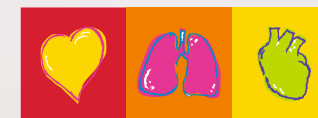
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# TRUSCOPE® III

## 12.1" screen Multi-utility monitor



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## Features

- 12.1" high resolution color TFT LCD display
- Import & Export configuration option
- HRV and NIBP Analyze option
- Total 12 waveform display simultaneously for 12 lead ECG
- ST & Arrhythmia analysis
- 168 hours tabular and graphic trends & data storage
- Drug dosage, Hemodynamic, Nephridium, Ventilation & Oxygenation calculation software
- OXYCRG software
- Standard configuration: ECG, HR, RESP, NIBP, Digital SpO<sub>2</sub>, PR, Dual TEMP
- Central station connectivity: Wired
- Pacemaker detection facility
- Video Output (VGA)
- Numerical Trend Export to USB Stick

## Optional

- Dual IBP
- Touch screen
- 12 Lead ECG
- EtCO<sub>2</sub> (Mainstream/ Sidestream/ Microstream)
- SpO<sub>2</sub> (Nellcor / Masimo)
- Multigas (CO<sub>2</sub>, O<sub>2</sub>, NO<sub>2</sub> & 5AA) Mainstream/ Sidestream
- Thermal recorder
- Central station connectivity: Wi-Fi
- Dual Battery
- Telemetry



## Screen layouts

8 different screen layouts for users to view the screen from different angles and distance

## Networked Monitoring:

- Wired & Wi-Fi connectivity to central nursing station for continuous monitoring of vital sign parameters.
- HIS & HL-7 compatibility.

## Easy data transfer

- USB export of trend data
- Interface for plug and play of peripheral devices like USB stick, mouse etc.
- Export Data to PC with PC Viewer Software

## Ease of use monitoring

- Easy to use and quick workflow
- Customised smart keys for one click operation

## Screen Layouts

### Standard



Numeric as well as graphical display of selected parameters and upto 10 waveforms

### 7- Lead



The ECG waveforms of 7-lead are displayed in the waveform display area, they are I, II, III, aVR, aVL, aVF, and V- respectively

### 12- Lead



The 12-lead ECG waveforms are displayed in the waveform display area, they are I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5 and V6

### Big Numerics



On Big Numeric screen, you can select any parameter on screen, to View it from far of distance.



### OxyCRG



The graphic trend of HR, SpO<sub>2</sub> and Resp last 16 minutes are displayed under the waveforms

### Hi Res Trend



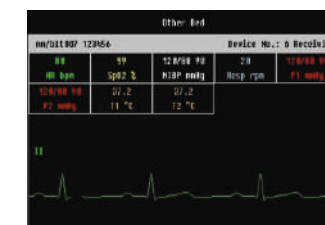
The HI RES Trend graph relevant to the parameters is displayed on the left corner of the waveform, it shows the graphic trend for user defined time of each parameter.

### NIBP Review



The recent groups of NIBP measurement results are displayed below the waveforms

### Other Bed



Realize other bed monitoring by selecting the monitors for other beds in the same network. The other-bed-monitoring screen can display all the parameter data of other bed and a certain physiological parameter waveform



LAN/ WIFI



HIS/ HL7

