

Life Scope PT

Smart patient monitoring – even in transit

Patient monitoring even during relocation is a prime requisite. It is a critical safety measure for a patient's life. Life Scope PT Bedside Monitors designed with leading edge technology offer continuous monitoring of patients even during transit.

Life Scope PT is a high perception smart transport monitor from Nihon Kohden, global manufacturer of innovative products and advanced technologies. It provides complete modular flexibility with the Smart Cable™ System that immediately detects type of parameter and starts measuring accordingly when connected to a MULTI connector.

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Life Scope PT

Flexible functionality

Life Scope PT displays multi-parameters and can take on multi-dimensional roles

- Works as stand alone or transport monitor or
- Input unit for a Life Scope TR series, Life Scope G9 series of bedside monitors

Perfect portability

A compact, sturdy design ensuring consistent and safe monitoring as well as easy portability

- Light weight, only **1.57 kg with battery pack**
- Consistent data flow and waveforms to central monitor after transportation

Comprehensive view

A high resolution, large **5.7 inch touch screen** display for clarity

- Tabular and graphical trends
- **Smart Cable™ System** and three MULTI connectors for flexible parameters and optimum monitoring

Long lasting

Ensures continuous monitoring with five hours battery run time; store up to 72 hours full disclosure waveforms. A full disclosure can be reviewed for 24 hours, as well as other trend data for a comprehensive review.

- Displays comprehensive review data
- Stores arrhythmia and ST recall files

Thoughtful technology

- **capONE** is the world's smallest, lightest, fastest, and most durable mainstream CO_2 sensor for oral and nasal breathers. Designed for intubated and non-intubated patients, capONE shows a clear $EtCO_2$ reading and hence allows to take quick and appropriate action.
- Nihon Kohden redefined quality of care by introducing volumetric information to all care levels with non-invasive technologies like **PWTT (pulse wave transit time)** and **esCCO™ (estimated continuous cardiac output**) which provides real-time, continuous non-invasive cardiac output measurement alongside the vital sign parameters of ECG and SPO_2. esCCO is a very cost saving solution and has no additional running cost or accessories.
- **iNIBP** is a unique algorithm to measure NIBP during inflation. It provides fast and painless measurement of NIBP. Nihon Kohden's special cuffs, are designed to prevent (or reduce) subcutaneous bleeding, increase patient comfort and to reduce noise – for more accurate measurement. Life Scope PT incorporates Linear Inflation Method NIBP
- **BluPro SpO_2 technology:** Nihon Kohden offers both reusable & disposable SPO_2 probes from neonate to adult patients with BluPro SpO_2 technology to give more reliable and accurate measurement.

Specifications

BSM-1700

Display

Display size	5.7 inch touch screen display
Display modes	Standard, transport
Maximum number of waveform traces	9 traces
Display waveforms	ECG (up to 12 leads), respiration, IBP (up to 3 traces), SpO_2 pulse wave, CO_2, CO thermodilution curve, BIS
Numerical data display	Heart rate, VPC rate, ST level, respiration rate, SpO_2, pulse rate, temperature, NIBP (systolic, diastolic, MAP), IBP (systolic, diastolic, mean), $EtCO_2$, $FiCO_2$, cardiac output, cardiac index, injectate temperature, blood temperature, BIS, SEF95, SR, EMG, SQI

Alarms

Alarm items	Upper/lower limits alarm, arrhythmia alarm
Alarm levels	Crisis (red blinking), warning (yellow blinking), advisory (yellow or blue light)
Alarm indication	Alarm indicator, highlighted message, alarm sound
Alarm Suspend	1, 2, or 3 min or off

Stored patient data

Trendgraph:	*Trend parameters:* All monitored parameters *Trend display time:* Up to 72 hours
Vital signs list:	*Trend parameters:* All monitored parameters *Data Storage: Periodic:* 4320 (1 per minute for 72 hours)
NIBP:	2,048 files
Full disclosure	*Storage time:* Up to 72 hours *Number of Waveforms stored:* 5 maximum
Alarm history:	Number of entries: 32,768 files
Hemodynamics trend table	Number of entries: 2,048 files
Arrhythmia recall	Number of entries: 32,768 files
ST recall	Number of entries: 4,320 files (1 per minute for 72 hours) for all monitoring leads
12 Lead interpretive recall	Number of entries: 18 files

Parameters

ECG	*Number of electrodes:* 3, 6 or 10 *Frequency response:* *Diagnosis mode:* 0.05 to 150 Hz *Monitor mode:* 0.3 to 40 Hz Maximum *Filter mode:* 1 to 18 Hz *Heart rate counting range:* 0, 15 to 300 beats/min *Arrhythmia analysis method:* Multi-template matching software algorithm *VPC counting rate:* 0 to 99 VPCs/min *Arrhythmia alarms:* Asystole, VF, VT, V brady, EXT tachy, EXT brady SV tachy, VPC run, tachycardia, bradycardia, couplet, early VPC, multiform, V rhythm, pause, bigeminy, trigeminy, VPC, irregular RR, pacer non-capture, prolonged RR, no pacer pulse
ST level measurement	*Number of measurement channels:* up to 12 *Measuring range:* ±2.5 mV
Respiration (impedance pneumography)	*Measuring range:* 0 to 150 breaths/min
SpO_2	*Measuring Technology:* Nihon Kohden, Masimo or Nellcor *Measuring Display Range:* 0 to 100% (70 to 100% at specified accuracy) Pulse rate from SpO_2 Range: 25 to 300 beats/min (varies by SpO_2 technology)
Non invasive blood pressure, NIBP	*Measuring method:* Oscillometric cuff *Pressure display range:* 0 to 300 mmHg
Invasive blood pressure, IBP	*Number of channels:* Up to 3 *Measuring range:* –50 to 300 mmHg *Pulse rate from IBP range:* 0, 30 to 300 beats/min
Temperature	*Measuring range:* 0 to 45°C *Number of channels:* 2 maximum
Cardiac output	*Measuring method:* Thermodilution method *Measuring range:* Injectate temperature (Ti): 0°C to 27°C *Blood temperature (Tb):* 15°C to 45°C *Thermodilution curve (delta Tb):* 0°C to 2.5°C *Cardiac output (CO):* 0.5 to 20 L/min
BIS	*Input channels:* 1 or 2 (depends on the BIS sensor type) *Measuring parameters:* Bispectral Index (BIS), 95% Spectral Edge Frequency (SEF95),Suppression Ratio (SR), EMG, Signal Quality Index (SQI)
CO_2	*CO_2 measuring range:* 0 to 100 mmHg *Respiration rate counting range:* 3 to 150 breaths min

Power Requirement

DC (SB-170P lithium ion battery pack)	9.0 to 12.6 V
Battery operation time	5 hours
With SC-170R cradle	Line voltage AC 100 V to 240 V
Line frequency	50 or 60 Hz
Power input	80 VA

Dimensions and weight

Dimensions	147W × 194H × 94D mm
Weight	1.57 kg with battery pack

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