Nihon Kohden · Patiëntmonitoring

Life Scope VS

BSM-3532 / BSM-3552 / BSM-3562 / BSM-3733 / BSM-3753 / BSM-3763

Bedside monitor series from Nihon Kohden with a touchscreen in two sizes (12.1 and 15 inch), smart-cable MULTI connections and optional modules. BSM-3532/3552/3562 and BSM-3733/3753/3763.

Screen	Trend storage	Weight
12.1 inch (BSM-35xx)…	**up to 72 hours**	**6.2 kg (12.1 inch) / 7.4…**

Description

The Life Scope VS is a series of bedside monitors from Nihon Kohden with a touchscreen in two sizes: 12.1 inch (BSM-3532, BSM-3552, BSM-3562) and 15 inch (BSM-3733, BSM-3753, BSM-3763). Via smart-cable MULTI connections, IBP, CO, CO2 and BIS, among others, are connected; the monitor recognises the cable type automatically.
The versions differ in SpO2 technology (Masimo, Nellcor or Nihon Kohden). Data can be exchanged via LS-NET or the HL7 protocol, and optional modules extend the monitor with multigas, EEG and NMT, among others.

Specifications

Type	Bedside monitor for monitoring, display, review, storage and alarming of multiple physiological parameters in adult, paediatric and neonatal patients. Two sizes: BSM-3500 series (12.1 inch) and BSM-3700 series (15 inch).
Versions (SpO2 technology)	BSM-3532 and BSM-3733: Masimo SpO2. BSM-3552 and BSM-3753: Nellcor SpO2. BSM-3562 and BSM-3763: Nihon Kohden SpO2.
Screen	BSM-3532/3552/3562: 12.1-inch colour TFT touchscreen, 800 × 600 dots, visible area 246.0 × 184.5 mm. BSM-3733/3753/3763: 15-inch colour TFT touchscreen, 1024 × 768 dots, visible area 304.1 × 228.1 mm.
Standard parameters	ECG (3, 6 or 10 electrodes), respiration (impedance method), SpO2, NIBP and temperature (2 channels) via dedicated connections.
Parameters via MULTI connections	Smart cable: the monitor recognises the cable type automatically. Per MULTI connection, IBP, CO, CO2, APCO, BIS or NMT is possible. Up to 6 MULTI connections (BSM-3532/3552/3562) or up to 7 (BSM-3733/3753/3763) with the smart expansion unit AA-374P.

Optional modules and parameters	Optional, with additional module/unit and interface card (QI-372P or QI-374P): multigas (CO2, O2, N2O and anaesthetic agents halothane, isoflurane, enflurane, sevoflurane, desflurane), flow/Paw, 8-channel EEG, neuromuscular transmission (NMT), esCCO (software QP-033P/034P; only BSM-3562/3763).
ECG analysis	Arrhythmia detection with multi-template matching (ec1 software), up to 23 arrhythmia items. 12-channel ECG with 10 electrodes, 12-lead interpretation (ECAPS 12C) and ST analysis up to 12 channels.
NIBP	Oscillometric. Measurement range adult/child: SYS 40–280 mmHg, DIA 10–235 mmHg, MAP 10–280 mmHg. Neonate: SYS 30–140 mmHg, DIA 10–110 mmHg, MAP 10–140 mmHg. Operating modes: manual, STAT, periodic, PWTT and SIM. With PWTT an NIBP measurement can be started in the event of a sudden change in circulation; iNIBP requires the program QP-038P.
SpO2 and pulse rate	BSM-3562/3763 (Nihon Kohden): accuracy (rms) ±2% SpO2 at 80–100% and ±3% SpO2 at 70–80%; pulse rate 30–300 beats/min. BSM-3532/3733 (Masimo) and BSM-3552/3753 (Nellcor): accuracy depends on the sensor (see sensor manual); pulse rate display range 25–240 and 20–300 beats/min respectively.
Temperature	2 channels (fixed), measurement range 0–45 °C, thermistor probe 400 series (YSI). Accuracy main unit ±0.1 °C (25–45 °C) and ±0.2 °C (0–25 °C).
Storage and review	Trend graph and vital signs list: 72 hours. Full disclosure: 72 hours, maximum 5 waveforms. Alarm history: 16,384 files. NIBP list: 1,024 files. 12-lead analysis: 18 files.
Alarms	Alarm levels: crisis (red, flashing), warning (yellow, flashing) and advisory. Alarm suspend 1, 2 or 3 minutes or off; alarm reset; escalation alarm. Alarm indicator on top of the monitor.
Dimensions and weight BSM-3532/3552/3562	370 (W) × 310 (H) × 172 (D) mm (excluding protruding parts); 6.2 kg.
Dimensions and weight BSM-3733/3753/3763	430 (W) × 350 (H) × 172 (D) mm (excluding protruding parts); 7.4 kg.
Battery	Nickel-metal hydride battery SB-671P (1 battery slot), 9.6 V, 2900 mAh. Operating time approx. 90 minutes (BSM-3532/3552/3562) or approx. 60 minutes (BSM-3733/3753/3763) with one fully charged new battery. Charging time approx. 10 hours during monitoring, approx. 2 hours without monitoring.
Power	100–240 V AC, 50 or 60 Hz, 100 VA. Direct current 8.5–12.6 V in battery operation.

Network and interfaces	Data connection via LS-NET (monitor network, laser printer) or via the HL7 protocol for the hospital network (HIS); LS-NET and HL7 are selectable. Interbed: data from other Life Scope bedside monitors without a central station. Optional transmitter ZS-900P for telemetry. External display and 2 Multi-Link ports possible with interface card QI-372P/QI-374P.
Environment	Operating: 10–40 °C, 30–85% RH (non-condensing), 700–1060 hPa. Transport and storage: –20 to +65 °C, 10–95% RH, 700–1060 hPa.
User interface languages	Including Dutch, English, German, French, Spanish and Italian (full list in the technical data).

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