NIHON KOHDEN

LIFE
SCOPE®

PATIENT MONITORING SYSTEMS

WORKS
IN HARMONY,
SO YOU CAN TOO

more data, more insights, and more efficiency. Combining fully optimized, adaptable monitors with an enterprise-level server and software applications customized to

workflow. These advanced tools were designed to help accomplish one critical goal:

G7

G5

G5 MAX

Life Scope

LIFE SCOPE

G5

AGILITY AMPLIFIES ABILITIES

Different areas throughout the hospital have different requirements for patient care. The Life Scope G5 can easily be programmed to different care settings using stored configurations and provides auto screen configuration. Clinicians can customize the monitor for each patient's needs, reduce false alarms, seamlessly transport, see trends and get standard displays for fast, informed patient management. This is smart technology for high quality patient-centered care.

CHANGE IS GOOD

- 12.1 INCH TOUCHSCREEN DISPLAY
- MULTIPLE QUICK-ACCESS CONFIGURATIONS W/ TREND ANALYSIS
- ALL-IN-ONE SYSTEM WITH REMOVABLE TRANSPORT MONITOR
- BUDGET-FRIENDLY, COMPACT DESIGN
- WALL OR BATTERY OPERATION
- ADVANCED CARDIOLOGY PARAMETERS SUCH AS QTC AND A-FIB
- GRAPHICAL FEATURES SUCH AS ST-DIAGRAM, HISTOGRAM AND QUICK ACCESS TREND CABINETS

LIFE SCOPE

G5 MAX

INGENUITY FOR MID/HIGH ACUITY

The Life Scope G5Max is the all-in-one solution ideal for mid/high acuity settings. Designed to help caregivers focus on patients instead of managing equipment, the G5Max features a sleek chassis with an easy-to-clean design, alarm management, Smart Cable™ connectivity and screen builder for optimal workflow. The monitor can be equipped multi-waveform/multi-parameter full disclosure, arrhythmia and ST segment analysis, drug, hemodynamic and pulmonary calculations, and 12-lead ECGs. Data flows to the CNS-6801 Central Nursing Station, and using the BSM-1700 Transport Monitor as the patient input allows for seamless data exchange between the host and destination bedside monitors—including data collected during transport. Works with or without a Central Nursing Station.

INTELLIGENT AND INTUITIVE

- 15.6 INCH, HIGH RESOLUTION LCD TOUCHSCREEN DISPLAY
- EXCELLENT WIDE ANGLE VISIBILITY
- DURABLE, TEMPERED GLASS DISPLAY FOR EASY CLEANING
- MULTIPLE QUICK-ACCESS CONFIGURATIONS W/ TREND ANALYSIS
- ALL-IN-ONE SYSTEM WITH REMOVABLE TRANSPORT MONITOR
- WALL OR BATTERY OPERATION

G7

07-14-2021
04:55

DETAILS THAT DELIVER

The Life Scope G7 patient monitor provides caregivers the features needed for the highest acuity settings. Balancing powerful insights and ease-of-use, the G7 processor is integrated into the display unit. It also अनुभवन बहुआयामिक्स बढ़ते स्थापित कमे पर बढ़ते से न स्थापित, न अपन स्थापित पर मूल स्थापित स्थापित स्थापित more capabilities. The Life Scope G7 incorporates a Data Acquisition Unit to host the BSM-1700 Transport Monitor for uninterrupted data during transport. The compact Data Acquisition Unit can be mounted close to the patient, with a connection cable that is available in various lengths up to 10 meters.

SEE THE BIG PICTURE

- 19 INCH, HIGH RESOLUTION LCD TOUCHSCREEN DISPLAY
- EXCELLENT WIDE ANGLE VISIBILITY
- DURABLE, TEMPERED GLASS DISPLAY FOR EASY CLEANING
- ADD ONE INDEPENDENT INTERACTIVE REMOTE MONITORING SCREEN
- DETAILED VISUALS AND COMPACT DESIGN WITH INTEGRATED PROCESSOR
- ALARM OUT INTERFACE
- DATA ACQUISITION UNIT FOR EASIER ACCESS TO CONTROLS AND TRANSPORT MONITOR FUNCTIONS
- ADVANCED INTERBED FUNCTION ENABLES MULTI-CLINICIAN OVERSIGHT
- ADVANCED FEATURES INCLUDING SPO$_2$ HISTOGRAM, HIQ-VIEW PAIRING, WLAN TRANSPORT AND CAR SEAT CHALLENGE FUNCTIONS
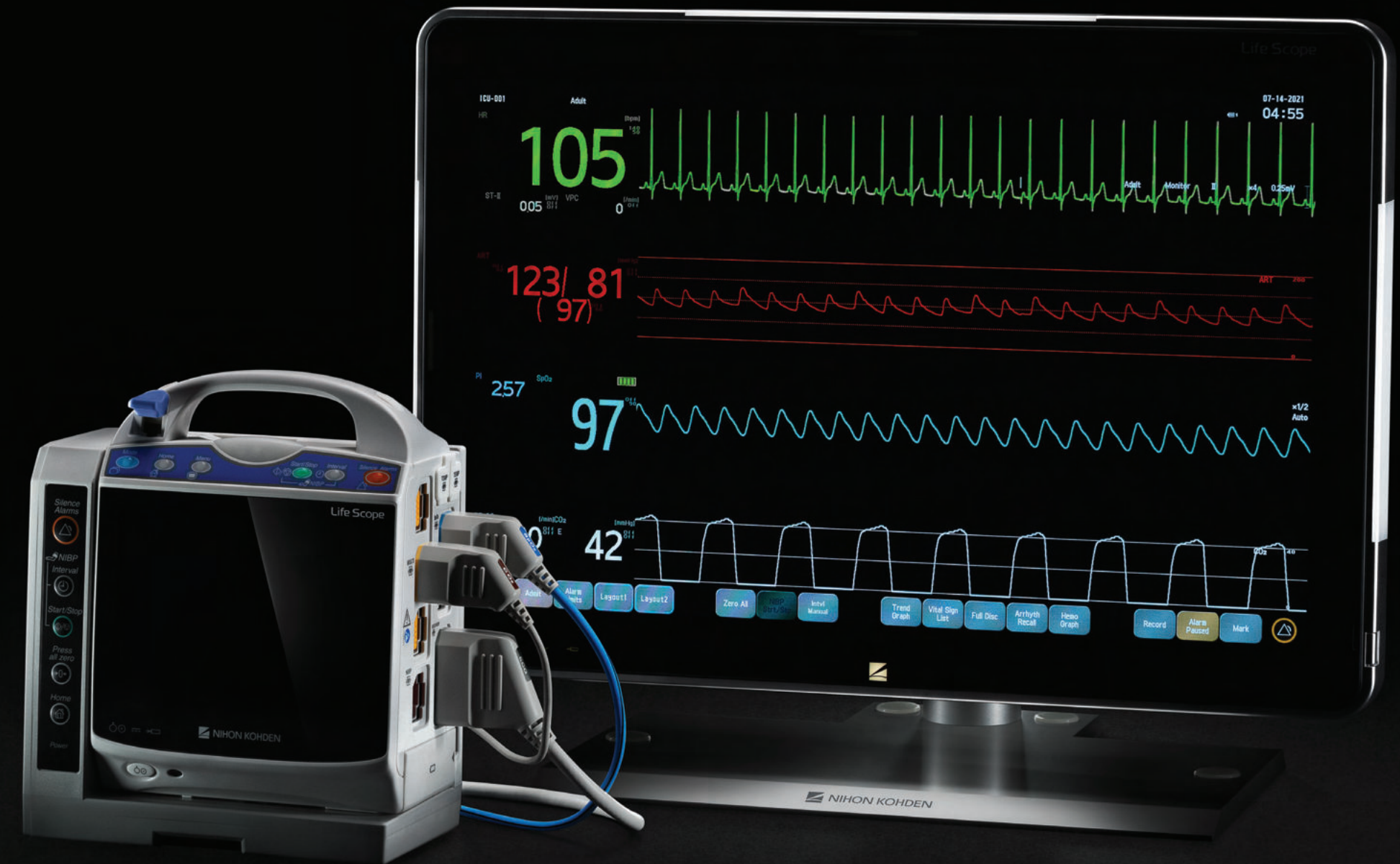
BSM-1700

EVERY STEP OF THE WAY

The BSM-1700 lightweight transport monitor has a high resolution touchscreen display and ▢▢▢ ▢▢▢▢▢▢▢▢▢▢ ▢▢▢▢ ▢▢▢▢▢▢ ▢▢▢▢▢▢▢▢▢▢▢ ▢▢ ▢▢ 24 ▢▢▢▢▢ ▢▢▢▢▢▢▢▢▢▢▢▢▢ ▢ ▢▢▢▢▢▢ ▢, ▢▢▢▢▢▢ and graphical trends. The BSM-1700 can function as a compact standalone monitor, a transport monitor or an Input Unit for a Life Scope G5 or G7 series bedside monitor.

PATIENT INSIGHTS TO GO

- 5.7 INCH TOUCHSCREEN DISPLAY
- COMPATIBLE WITH G-SERIES NIHON KOHDEN BESIDE MONITORS
- ENSURES SEAMLESS TRANSPORT WITH CONTINUITY OF PATIENT DATA
- LIGHTWEIGHT WORKHORSE FOR RUGGED, SIMPLIFIED WORKFLOW
- UP TO 5 HOUR BATTERY OPERATION
- OPTIONAL WIRELESS CONNECTIVITY FOR WLAN TRANSPORT CAPABILITY

G9

TOUCHSCREEN MACHINE

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BETTER DATA, BETTER DECISIONS

- 21.5 INCH HIGH RESOLUTION TOUCHSCREEN DISPLAY
- CONNECT UP TO THREE INDEPENDENT AND INTERACTIVE MONITORS
- TRUE FLAT TEMPERED GLASS DISPLAY FOR EASY CLEANING
- DETAILED PARAMETERS AND VISUALS
- UNIQUE, CARE AREA-SPECIFIC DISPLAY CONFIGURATIONS
- INTERBED FUNCTION ENABLES MULTI-CLINICIAN OVERSIGHT
- INCLUDED DATA ACQUISITION UNIT FEATURES 7 SMART PORTS, COMPACT DESIGN FOR CONFIDENT PATIENT TRANSPORT

NIHON KOHDEN

THE NK-HiQ™ ENTERPRISE GATEWAY

ONE RECORD, UNLIMITED POTENTIAL

The NK-HiQ Enterprise Gateway is the backbone of the Nihon Kohden Patient Monitoring System, ██████████████ █ ██████ █████████████ ████ █ ██████ ████ ██████████████ ███████ ███ █, ███████ ███ █ █████.
When fully deployed, the NK-HiQ Enterprise Gateway not only interfaces to the hospital EMR, ████████ █████ █ ████████ ██ ██████ ████ █████ ███████████████ ██████ ███ ██ █, █████ █████.

Powered for enterprise-level health systems, the NK-HiQ Enterprise Gateway grows with the needs of a hospital or integrated delivery network, supporting up to 2,000 patient monitoring devices and 300 remote viewing stations.

CONTINUITY IS BEAUTIFUL

- REDUCES COSTS THROUGH OPERATIONAL EFFICIENCIES AND LESS BURDEN ON THE STAFF
- STREAMLINES IT ADMINISTRATION ACROSS DEVICES AND COMMUNICATION PROTOCOLS
- REDUCES THE TYPICAL SERVER FOOTPRINT BY MORE THAN 60%

ST: H4ZP8B3

DISPLAY

Display Size/Type	**CSM-1501 (CU-151R):** 12.1" color TFT LCD; **CSM-1502 (CU-152R):** 15.6" color direct bond TFT LCD
Resolution	**CSM-1501:** 1280 × 800; **CSM-1502:** 1366 × 768
Characteristics	True Flat, tempered glass medical certified, capacitive touch screen (G5 Max) with up to 15 function soft keys and 3 quick recall screen configurations (CSM-1501; resistive film touch screen)
Number of Traces	Up to 15 traces (30 traces on two displays) moving or fixed method
Waveforms	Up to 15 traces (30 traces on two displays) moving or fixed method ECG (up to 12), respiration, IBP (up to 8), SpO₂ pulse wave, CO₂, BIS-EEG, EEG* (up to 2 traces), vent PAW, vent Flow, and CO Thermodilution curve. When gas is monitored: O₂ concentration curve, CO₂ concentration curve, anesthetic agent concentration (Halothane, Isoflurane, Enflurane, Sevoflurane, Desflurane*) Analog input.
Sweep Speed	**Normal sweep speed:** 25 mm/s, 50 mm/s **Slow sweep speed (respiration):** 1.56 mm/s, 6.25 mm/s, 12.5 mm/s, 25 mm/s
Numeric Data Display	Heart rate, VPC rate, ST level, RR respiration rate, NIBP (systolic, diastolic, map), IBP (systolic, diastolic, mean), SpO₂, SpO₂-2, delta SpO₂, pulse rate, temperature, CO, CI, Ti (injectate tempera- ture), Tb (blood temperature), O₂ concentration, EtCO₂, BIS, inspired/ expired N₂O concentration, inspired/expired CO₂, inspired/expired O₂ concentration, inspired/expired anesthetic agent concentration (Halothane, Isoflurane, Enflurane, Sevoflurane, Desflurane), MAC (minimum alveolar concentration), Ppeak (peak airway pressure), PEEP (positive end expiratory pressure), Pmean (mean airway pressure), MV (minute volume), TVi (inspiratory tidal volume), TVe (expiratory tidal volume), C (compliance), R (airway resistance), Ri (inspiratory airway resistance), Re (expiratory airway resistance), t:E (inspiration expiration ratio), SEF (90 or 95% spectral edge frequency), MDF (median frequency), PPF (peak power frequency), TP (total power), power of frequency, CSA, power ratio of frequency, DSA, TOF cnt, TOF rat, Tw 1 to Tw4 (Twitch height), DBS (double burst stimulation), TET (tetanic stimulation) PTC (post tetanic count stimulation), PCCO, PCCI, tcPO₂, tcPCO₂, PPV, SPV. With INVOS monitor: rSO₂, SSI indicator, BL (baseline), AUC (area under the curve), change rate. With CCO monitor: CCO, CCI, SvO₂, ScvO₂, SV, SVI, SVV, SVR, SVRI, RVEF, EDV, EDVI, ESV, ESVI, DO₂, VO₂, O₂EI, SaO₂, HRV, CF, QTc and QRSd

ALARMS

Alarm Items	Vital sign, arrhythmia, technical, operational, interbed
Alarm Levels	**Crisis:** red blinking **Warning:** yellow blinking **Advisory:** yellow or blue light
Alarm Indication	Alarm indicator (360° visibility) highlighted message, alarm sound
Alarm Suspend	1, 2, or 3 min
Alarm Master	Adult and Pediatric up to 4, Neonatal up to 6

STORED PATIENT DATA

Trendgraph	**Trend parameters:** up to 9 for each trend graph (up to three); **Trend display time:** Up to 72 hours (short trend for the last 30 minutes on main screen)
Vital Signs List	Three lists of up to 15 parameters each for up to 72 hours; **Periodic:** up to 1 per minute for 72 hours
NIBP	**Number of entries:** 1,024 files
HEMO List	**Number of entries:** 1,024 files
Full Disclosure	**Storage time:** up to 72 hours; **Number of waveforms stored:** 5 (max)
ST Recall	**Number of files:** 4,320 files (1 per minute for 72 hours) for all monitoring leads
History	16,384 files (Alarm & Arrythmia recall)
12-Lead Interpretive Recall	**Number of files:** 18 files
Storage Capacity	72 hours (OCRG/Hemodynamics/Trend/aEEG)

RECORDER (OPTIONAL)

Recording Method	Thermal array recording
Number of Channels	3 traces (max)

* With optional modules

PARAMETERS

Leads	3,6 or 10-lead ECG cable for I, II, III, aVR, aVL, V1 to V6
ECG	**Number of ECG waveforms channels:** up to 12; **Frequency response:** diagnosis mode - 0.05 to 150 Hz, ST mode -0.05 to 18 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 software algorithm; **VPC counting rate:** 0 to 99 VPCs/min; **Arrhythmia alarms:** ASYSTOLE, VF, VT, V RHYTHM, V BRADY, EXT TACHY, EXT BRADY, A-Fib, End A-Fib, VPC RUN, COUPLET, EARLY VPC, BIGEMINY, TRIGEMINY, FREQ VPC, PROLONGED RR, SV TACHY, TACHYCARDIA, BRADY-CARDIA, VPC, MULTIFORM, IRREGULAR RR, NO PACER PULSE, PACER NON-CAPTURE, PAUSE
ST Level Measurement	**Number of measurement channels:** Up to 12; **Measuring range:** ±2.5 mV
Respiration	**Measuring range:** 0 to 150 breaths/min (Impedance)
SpO₂	**Measuring Technology:** Nihon Kohden, Masimo or Nellcor; **Measuring Display Range:** 0 to 100% (70 to 100% at specified accuracy); **Pulse rate from SpO₂ Range:** 20 to 300, (varies by SpO₂ technology)
Non-invasive Blood Pressure, NIBP	**Measuring method:** Oscillometric Cuff; **Pressure display range:** 0 to 300 mmHg
Invasive Blood Pressure, IBP	**Measuring range:** –50 to 300 mmHg; **Pulse rate display range from IBP range:** 0, 30 to 300 beats/min
Temperature	**Measuring range:** 0 to 45°C; **Number of channels:** 4 (max)
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
CO₂	**CO₂ measuring range:** 0 to 150 mmHg; **Respiration rate counting range:** 3 to 150 breaths/min
BIS	**Input channels:** 2; **Measuring parameters:** Bispectral Index (BIS), 95% Spectral Edge Frequency (SEF90, SEF95), Suppression Ratio (SR), EMG, Signal Quality Index (SQI)

CONNECTIVITY

Standard: Ethernet (LS-Net), USB, third party interface (2), HDMI remote video out, recorder and RS-232 Serial out. Optional third party interface (4), Nurse call, independent interactive remote display port (G5 Max), DVI independent remote video out (G5 Max), Ethernet (HIS), ground terminal and AC power

OPERATING ENVIRONMENT

Temperature	41 to 104°F (5 to 40°C)
Humidity	30 to 85% RH (non-condensing)
Atmospheric Pressure	700 to 1060 hPa
Degree of Protection	Against harmful ingress of water: IPX1

POWER REQUIREMENT

AC	100 to 240 V ±10%
DC (SB-950P)	10.8 V
Line Frequency	50 or 60 Hz
Battery Operation Time	**CSM-1501:** Up to 180 minutes; **CSM-1502:** Up to 120 minutes
Power Input	AC 120, Battery 100 VA
Noise	<48 dBA

DIMENSIONS & WEIGHT

Dimensions	**CSM-1501:** 13.4" W × 11.6" H × 8" D (341 W × 294 H × 204 D mm) **CSM-1502:** 15.9" W × 11.9" H × 8" D (403 W × 302 H × 204 D mm) **BSM-1700:** 5.8" W × 7.6" H × 3.7" D (147 W × 194 H × 94 D mm) **WS-151P recorder unit:** (built in option) **AA-174P multi amp unit:** 6.1" × 2.4" × 7.5" (156 W × 63 H × 190 D mm) (option, excluding cable)
Weight	**CSM-1501:** 13.2 lbs (6 kg) **CSM-1502:** 15.4 lbs (7 kg); **BSM-1700:** 3.5 lbs (1.57kg without battery pack); **WS-151P recorder unit:** 0.77 lbs (0.35 Kg) (option) **AA-174P multi amp unit:** 1.8 lbs (0.82 kg) (option)

DISPLAY

Display Size/Type	**CSM-1702:** 19" color direct bond TFT LCD
Resolution	**CSM-1702:** 1680 × 1050
Characteristics	True Flat, tempered glass medical certified, capacitive touch screen with up to 20 function soft keys and 3 quick recall screen configurations
Number of Traces	Up to 17 traces (up to 49 on three displays) moving or fixed method
Waveforms	ECG (up to 12), respiration, IBP (up to 8), SpO₂ pulse wave, CO₂, BIS-EEG*, EEG* (up to 2 traces), vent PAW, vent Flow, and CO Thermodilution curve.When gas is monitored: O₂ concentration curve, CO₂ concentration curve, anesthetic agent concentration (Halothane, Isoflurane, Enflurane, Sevoflurane, Desflurane*) Analog input.
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Numeric Data Display	Heart rate, VPC rate, ST level, RR respiration rate, NIBP (systolic, diastolic, map), IBP (systolic, diastolic, mean), SpO₂, SpO₂-2, delta SpO₂, pulse rate, temperature, CO, CI, Ti (injectate temperature), Tb (blood temperature), O₂ concentration, EtCO₂, BIS, inspired/ expired N₂O concentration, inspired/ expired CO₂, inspired/ expired O₂ concentration, inspired/ expired anesthetic agent concentration (Halothane, Isoflurane, Enflurane, Sevoflurane, Desflurane), MAC (minimum alveolar concentration), Ppeak (peak airway pressure), PEEP (positive end expiratory pressure), Pmean (mean airway pres- sure), MV (minute volume), TVi (inspiratory tidal volume), TVe (expiratory tidal volume), C (compliance), R (airway resistance), Ri (inspiratory airway resistance), Re (expiratory airway resistance), I:E (inspiration expiration ratio), SEF (90 or 95% spectral edge frequency), MDF (median frequency), power ratio of frequency, PPF (peak power frequency), TP (total power), power of frequency, CSA, DSA, TOF cnt, TOF rat, Tw 1 to Tw4 (Twitch height), DBS (double burst stimulation), TET (tetanic stimulation) PTC (post tetanic count stimulation), PCCO, PCCI, tcPO₂, tcPCO₂, PPV, SPV. With INVOS monitor: rSO₂, SSI indicator, BL (baseline), area under the curve (AUC), change rate. With CCO monitor: CCO, CCI, SvO₂, ScvO₂, SV, SVI, SVV, SVR,SVRI, RVEF, EDV, EDVI, ESV, ESVI, DO₂, VO₂, O₂EI, SaO₂ HRV, CF, QTc and QRSd

ALARMS

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ST Recall	**Number of files:** 4,320 files (1 per minute for 72 hours) for all monitoring leads
History	16,384 files (Alarm & Arrythmia recall)
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Storage Capacity	72 Hours (OCRG/Hemodynamics/Trend/aEEG)

RECORDER (OPTIONAL)

Recording Method	Thermal array recording
Number of Channels	3 traces (max)

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ST Level Measurement	**Number of measurement channels:** Up to 12; **Measuring range:** ±2.5 mV
Respiration	**Measuring range:** 0 to 150 breaths/min (Impedance)
SpO₂	**Measuring Technology:** Nihon Kohden, Masimo or Nellcor; **Measuring Display Range:** 0 to 100% (70 to 100% at specified accuracy); **Pulse rate from SpO₂ Range:** 20 to 300 beats/min
Non-invasive Blood Pressure, NIBP	**Measuring method:** Oscillometric Cuff; **Pressure display range:** 0 to 300 mmHg
Invasive Blood Pressure, IBP	**Measuring range:** –50 to 300 mmHg; **Pulse rate display range from IBP range:** 0, 30 to 300 beats/min
Temperature	**Measuring range:** 0 to 45°C; **Number of channels:** 4 (max)
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
CO₂	**CO₂ measuring range:** 0 to 150 mmHg; **Respiration rate counting range:** 3 to 150 breaths/min
BIS	**Input channels:** 2; **Measuring parameters:** Bispectral Index (BIS), 95% Spectral Edge Frequency (SEF90, SEF95), Suppression Ratio (SR), EMG, Signal Quality Index (SQI)

CONNECTIVITY

Standard: Ethernet (LS-Net), USB, third party interface (6), HDMI remote video out, recorder and RS-232 Serial out. Optional third party interface (4), Nurse call, independent interactive remote display port, DVI independent remote video out, Ethernet (HIS), ground terminal and AC power

OPERATING ENVIRONMENT

Temperature	41 to 104°F (5 to 40°C)
Humidity	30 to 85% RH (non-condensing)
Atmospheric Pressure	700 to 1060 hPa
Degree of Protection	Against harmful ingress of water: IPX1

POWER REQUIREMENT

AC	100 to 240 V ±10%
DC (SB-950P)	10.8 V
Line Frequency	50 or 60 Hz
Battery Emergency Backup Time	3 minutes
Power Input	AC 150, Battery 130 VA
Noise	<48 dBA

DIMENSIONS & WEIGHT

Dimensions	**CSM-1702:** 18.7" W × 12.8" H × 4.5" D (475 W × 326 H × 115 D mm) **JA-170P:** 7.1" W × 7.1" H × 5.3" D (182 W × 182 H × 136 D mm), (excl. cable) **BSM-1700:** 5.8" W × 7.6" H × 3.7" D (147 W × 194 H × 94 D mm) **WS-171P recorder unit:** 3.9" × 3.2" × 5.6" (99 W × 82 H × 142 D mm), (option) **AA-174P multi amp unit:** 6.1" × 2.4" × 7.5" (156 W × 63 H × 190 D mm), (option, excluding cable)
Weight	**CSM-1702:** 18.3 lbs (8.3 kg); **JA-170P:** 2.4 lbs (1.1kg), (excluding cable) **BSM-1700:** 3.5 lbs (1.57 kg without battery pack); **WS-171P recorder unit:** 1.4 lbs (0.62 kg) (option); **AA-174P multi amp unit:** 1.8 lbs (0.82 kg) (option)

NIHON KOHDEN

MORE IS POSSIBLE

1.800.325.0283 us.nihonkohden.com

15353 BARRANCA PARKWAY, IRVINE CA 92618