

LIFE SCOPE® G7 BEDSIDE MONITOR

DETAILED VISUALS, INTUITIVE MONITORING*



* Life Scope G7 bedside monitor core unit using WLAN Transport mode, shown with BSM-1700 transport monitor

The Life Scope G7 is an advanced bedside monitor with a 19" touch screen display, transport monitor and a Data Acquisition Unit designed for high acuity settings with quick access to multiple configurations and trend analysis.

MORE DATA INTEGRATION

01. Offers a complete data record, including multi-waveform, multi-parameter full disclosure
02. Includes 12-lead ECG monitoring with printing capabilities and visualization that may help indicate changes to the cardiac function
03. Combines vital signs patient monitoring and 8-channel neurology monitoring
04. Integrates with third party devices such as ventilators, anesthesia systems, and continuous cardiac output devices

MORE STREAMLINED

01. Seamless patient monitoring work flow with one admission and discharge across the entire hospital stay
02. Employs intuitive user interface with mini menus and quick access keys to data and functions
03. Customizable escalation latching and delayed alarm functionality to help reduce alarm fatigue
04. Bigger screen size allowing more patient data to be presented including G-Scope mini trends
05. Adaptable system for specialized care needs such as interactive remote display for isolation rooms

MORE INSIGHTFUL

01. Advanced features, like drug and pulmonary calculations and hemodynamics graph window, aid clinicians in closer monitoring of their patients
02. Offers advanced ECG analysis with advanced atrial fibrillation algorithm, enhanced review capability ST analysis, event recall and QTc/QRSD
03. Offers an overview of patient health status, including a comprehensive histogram, advanced interbed, HiQ View, and car seat report

LIFE SCOPE®

G7 BEDSIDE MONITOR SPECIFICATIONS

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), SpO ₂ pulse wave, CO ₂ , BIS-EEG*, EEG* (up to 2 traces), vent PAW, vent Flow, and CO Thermodilution curve.When gas is monitored: O ₂ concentration curve, CO ₂ 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

	Heart rate, VPC rate, QTc and QRSd, ST level, RR respiration rate, NIBP (systolic, diastolic, map), IBP (systolic, diastolic, mean), SpO ₂ , SpO ₂ -2, delta SpO ₂ , pulse rate, temperature, CO, Cl, Ti (injectate temperature), Tb (blood temperature), O ₂ concentration, EtCO ₂ , BIS, inspired/ expired N ₂ O concentration, inspired/ expired CO ₂ , inspired/ expired O ₂ 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), t:E (inspiration expiration ratio), SEF (90 or 95% spectral edge frequency), MDF (median frequency), power ratio of frequency (% δ, % θ, % α, % β, % γ), PPF (peak power frequency), TP (total power), power of frequency (Abs δ, Abs θ, Abs α, Abs β, Abs γ), CSA, DSA, TOF cnt*, TOF rat, Tw 1 to Tw4 (Twitch height), DBS (double burst stimulation), TET (tetanic stimulation) PTC (post tetanic count stimulation), with PiCCO monitor, PCCO, PCCI, tcPO ₂ , tcPCO ₂ , PPV, SPV. With INVOS monitor: rSO ₂ , SSI indicator, BL (baseline), area under the curve (AUC), change rate. With CCO monitor: CCO, CCI, SvO ₂ , ScvO ₂ , SV, SVI, SVV, SVR,SVRI, RVEF, EDV, EDVI, ESV, ESVI, DO ₂ , VO ₂ , O2EI, SaO ₂ 2 HRV, CF.
Numeric Data Display	

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 & Arrhythmia 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

CAUTION: Federal (United States) Law restricts this device to sale by or on the order of a physician. See Operators Manual for full prescribing information, including indications for use, contraindications, warnings, precautions and adverse events.

PARAMETERS

Leads	3,6 or 10-lead ECG cable for I, II, III, aVR, aVL, aVF, 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: multitemplate 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, BRADYCARDIA, 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)
SpO ₂	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 (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	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
CO ₂	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	Core G7 unit, 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	Core G7 unit, 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)

FOR MORE INFORMATION, PLEASE CONTACT US AT 1-800-325-0283 OR VISIT US.NIHONKOHDEN.COM
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