

# 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/QRSc
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

<b>Display Size/Type</b>	CSM-1702: 19" color direct bond TFT LCD
<b>Resolution</b>	CSM-1702: 1680 x 1050
<b>Characteristics</b>	True Flat, tempered glass medical certified, capacitive touch screen with up to 20 function soft keys and 3 quick recall screen configurations
<b>Number of Traces</b>	Up to 17 traces (up to 49 on three displays) moving or fixed method
<b>Waveforms</b>	ECG (up to 12), respiration, IBP (up to 8), SpO <sub>2</sub> pulse wave, CO <sub>2</sub> , BIS-EEG*, EEG* (up to 2 traces), vent PAW, vent Flow, and CO Thermodilution curve. When gas is monitored: O <sub>2</sub> concentration curve, CO <sub>2</sub> concentration curve, anesthetic agent concentration (Halothane, Isoflurane, Enflurane, Sevoflurane, Desflurane*) Analog input.
<b>Sweep Speed</b>	<b>Normal sweep speed:</b> 25 mm/s, 50 mm/s <b>Slow sweep speed (respiration):</b> 1.56 mm/s, 6.25 mm/s, 12.5 mm/s, 25 mm/s
<b>Numeric Data Display</b>	Heart rate, VPC rate, QTc and QRSD, ST level, RR respiration rate, NIBP (systolic, diastolic, map), IBP (systolic, diastolic, mean), SpO <sub>2</sub> , SpO <sub>2</sub> -2, delta SpO <sub>2</sub> , pulse rate, temperature, CO, Cl, Ti (injectate temperature), Tb (blood temperature), O <sub>2</sub> concentration, ETCO <sub>2</sub> , BIS, inspired/ expired N <sub>2</sub> O concentration, inspired/ expired CO <sub>2</sub> , inspired/ expired O <sub>2</sub> 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), I: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, tcPO2, tcPCO <sub>2</sub> , PPV, SPV. With INVOS monitor: rSO <sub>2</sub> , SSI indicator, BL (baseline), area under the curve (AUC), change rate. With CCO monitor: CCO, CCI, SvO <sub>2</sub> , ScvO <sub>2</sub> , SV, SVI, SVV, SVR, SVRI, RVEF, EDV, EDV, ESV, ESVI, DO <sub>2</sub> , VO <sub>2</sub> , O <sub>2</sub> EI, SaO <sub>2</sub> 2 HRV, CF.

## ALARMS

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

## STORED PATIENT DATA

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

## RECORDER (OPTIONAL)

<b>Recording Method</b>	Thermal array recording
<b>Number of Channels</b>	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

<b>Leads</b>	3,6 or 10-lead ECG cable for I, II, III, aVR, aVL, aVF, V1 to V6	
<b>ECG</b>	<b>Number of ECG waveforms channels:</b> up to 12; <b>Frequency response:</b> 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; <b>Heart Rate Counting range:</b> 0, 15 to 300 beats/min; <b>Arrhythmia analysis method:</b> multitemplate software algorithm; <b>VPC counting rate:</b> 0 to 99 VPCs/min; <b>Arrhythmia alarms:</b> 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	
<b>ST Level Measurement</b>	<b>Number of measurement channels:</b> Up to 12; <b>Measuring range:</b> ±2.5 mV	
<b>Respiration</b>	<b>Measuring range:</b> 0 to 150 breaths/min (Impedance)	
<b>SpO<sub>2</sub></b>	<b>Measuring Technology:</b> Nihon Kohden, Masimo or Nellcor; <b>Measuring Display Range:</b> 0 to 100% (70 to 100% at specified accuracy); <b>Pulse rate from SpO<sub>2</sub> Range:</b> 20 to 300 beats/min (varies by SpO <sub>2</sub> technology)	
<b>Non-invasive Blood Pressure, NIBP</b>	<b>Measuring method:</b> Oscillometric Cuff; <b>Pressure display range:</b> 0 to 300 mmHg	
<b>Invasive Blood Pressure, IBP</b>	<b>Measuring range:</b> -50 to 300 mmHg; <b>Pulse rate display range from IBP range:</b> 0, 30 to 300 beats/min	
<b>Temperature</b>	<b>Measuring range:</b> 0 to 45°C; <b>Number of channels:</b> 4 (max)	
<b>Cardiac Output</b>	<b>Measuring method:</b> Thermodilution method; <b>Measuring range:</b> Injectate temperature (Ti): 0°C to 27°C; <b>Blood temperature (Tb):</b> 15°C to 45°C; <b>Thermodilution curve (delta Tb):</b> 0°C to 2.5°C; <b>Cardiac output (CO):</b> 0.5 to 20 L/min	
<b>CO<sub>2</sub></b>	<b>CO<sub>2</sub> measuring range:</b> 0 to 150 mmHg; <b>Respiration rate counting range:</b> 3 to 150 breaths/min	
<b>BIS</b>	<b>Input channels:</b> 2; <b>Measuring parameters:</b> Bispectral Index (BIS), 95% Spectral Edge Frequency (SEF90, SEF95), Suppression Ratio (SR), EMG, Signal Quality Index (SQI)	
<b>CONNECTIVITY</b>		
<b>Standard:</b> 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		
<b>OPERATING ENVIRONMENT</b>		
<b>Temperature</b>	41 to 104°F (5 to 40°C)	
<b>Humidity</b>	30 to 85% RH (non-condensing)	
<b>Atmospheric Pressure</b>	700 to 1060 hPa	
<b>Degree of Protection</b>	Against harmful ingress of water: IPX1	
<b>POWER REQUIREMENT</b>		
<b>AC</b>	100 to 240 V ±10%	
<b>DC (SB-950P)</b>	10.8 V	
<b>Line Frequency</b>	50 or 60 Hz	
<b>Battery Emergency Backup Time</b>	3 minutes	
<b>Power Input</b>	AC 150, Battery 130 VA	
<b>Noise</b>	<48 dBA	
<b>DIMENSIONS &amp; WEIGHT</b>		
<b>Dimensions</b>	<b>Core G7 unit, CSM-1702:</b> 18.7" W x 12.8" H x 4.5" D (475 W x 326 H x 115 D mm) <b>JA-170P:</b> 7.1" W x 7.1" H x 5.3" D (182 W x 182 H x 136 D mm), (excl. cable) <b>BSM-1700:</b> 5.8" W x 7.6" H x 3.7" D (147 W x 194 H x 94 D mm) <b>WS-171P recorder unit:</b> 3.9" x 3.2" x 5.6" (99 W x 82 H x 142 D mm), (option) <b>AA-174P multi amp unit:</b> 6.1" x 2.4" x 7.5" (156 W x 63 H x 190 D mm) (option, excluding cable)	
<b>Weight</b>	<b>Core G7 unit, CSM-1702:</b> 18.3 lbs (8.3 kg); <b>JA-170P:</b> 2.4 lbs (1.1kg), (excluding cable) <b>BSM-1700:</b> 3.5 lbs (1.57 kg without battery pack); <b>WS-171P recorder unit:</b> 1.4 lbs (0.62 kg) (option); <b>AA-174P multi amp unit:</b> 1.8 lbs (0.82 kg) (option)	