

Lifescreeen
7-day ECG Screening System

CARDIAC DIAGNOSTIC SOLUTIONS



Diagnose arrhythmias before they become an everyday occurrence

Del Mar Reynolds' rich history of innovation began nearly a half century ago with the development of Holter monitoring and analysis. Now the Diagnostic Cardiology part of Spacelabs Healthcare, we are proud to continue this tradition of connecting innovation with care.

Holter monitoring and Event Recording have been the traditional techniques to identify arrhythmic events or rhythm disturbances for over 40 years.

7-day continuous ECG recording opens the window of opportunity to capture and document events in a simple to use and time efficient way. Lifescreen is a simple and effective system for quickly screening up to 7-days of full disclosure ECG. The system has two key elements, the 7-day recorder, based on our standard Lifecard CF digital Holter recorder, and the Lifescreen software.

The technique also requires minimal patient interaction and provides symptomatic and non-symptomatic events to be viewed in context to the full disclosure ECG.

Lifecard CF 7-day recorder

Lifecard CF records 7-days of continuous ECG onto a single CompactFlash (CF) card using one AAA battery for the entire recording.

The splashproof design and disposable carrying pouch make it practical and convenient to wear the device, with minimal electrode disturbance and freedom for the patient to carry out their activities of normal daily living.

The Lifecard CF features a constant lead impedance check. If an electrode becomes detached, the recorder notifies the patient to re-attach, thereby preserving the integrity of the recording.

The Lifecard CF can be detached and re-attached to the multi-day electrodes that ensure a diagnostic quality signal.

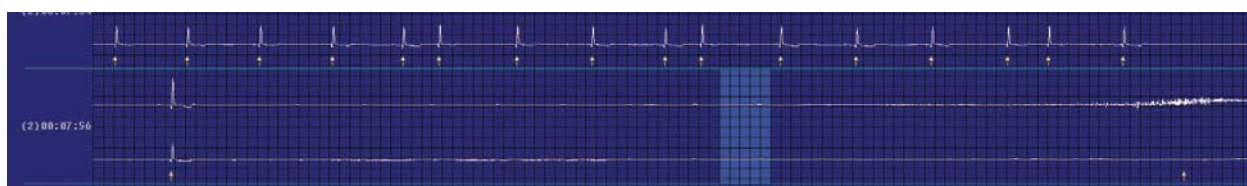
The combination of Lifecard CF's features ensure that outstanding ECG quality can be recorded for accurate screening from the most challenging recording environments.



Small and lightweight



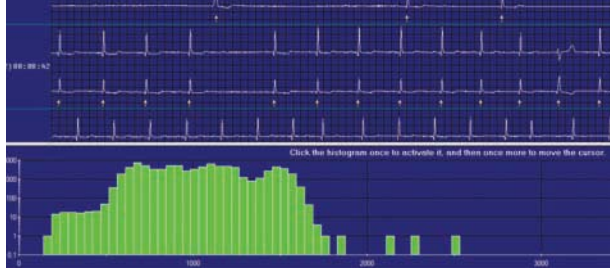
Splashproof Lifecard CF



Assess the ECG event in context

The Lifescreen 7-day ECG Screening Software

Diagnose arrhythmias before they become an everyday occurrence



Fast & Easy

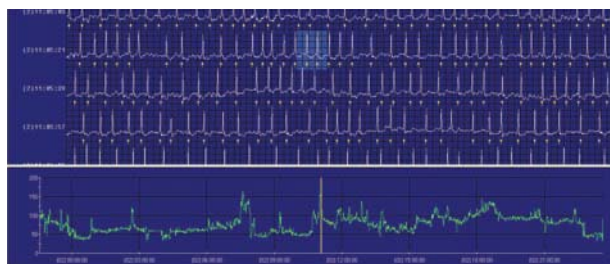
Lifescreen is a simple ECG screening tool with a number of features that enable the operator to rapidly identify relevant ECG events.

Patient List

This list corresponds with use of the patient event button on the Lifecard CF to coincide with symptomatic events. The ECG event marker and surrounding ECG are shown. Relevant events can be selected and added to the report.

7-day Heart Rate Graph

The operator can identify the maximum and minimum heart rates and view the associated ECG. RR intervals can be measured with on screen callipers with heart rates annotated directly on the ECG strip.

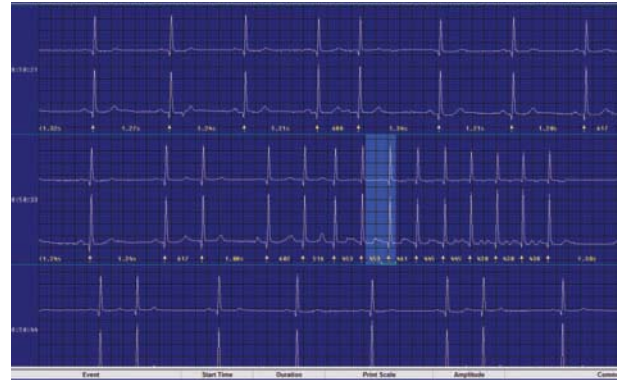


Event Tools

An RR histogram and tachogram aid the operator to zoom into events with long or short RR intervals, typically pauses, VT, SVT, bradycardias and atrial fibrillation.

Full Disclosure

The full screen, full disclosure ECG can be rapidly scanned on configurable screen layouts with zoom and annotation tools.



ST Events

Lifescreen features X-Y axis callipers for the measurement of ST changes due to silent or transient ischemic events.

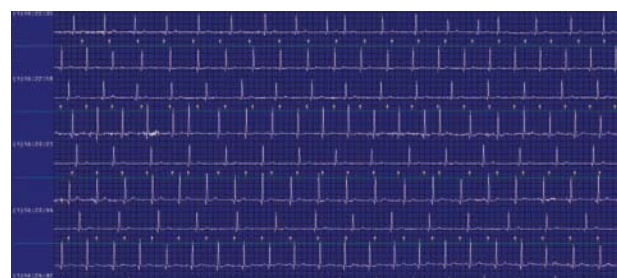
Pacemaker

Lifecard CF has dedicated circuitry for the detection of pacing spikes. Lifescreen can display these markers superimposed on the ECG.

Configurable Reports

Lifescreen creates simple, user configurable reports of the relevant events and detail, including heart rate graphs, RR tachograms, RR histograms and full disclosure.

After screening the 7-day recording, the most relevant 24-hour period/s can be exported to any current Spacelabs Healthcare analyzer for detailed Holter analysis. Segments of the recording or the full 7-days can be stored on CD or e-mailed to analysis sites for further review.



Data Management and networking

CardioNavigator is the Spacelabs Healthcare central data management system for communication and integration of data from all of our products.

CardioNavigator Provides:

- A central SQL or Paradox database of recordings and reports that can be accessed for analysis or review from any networked system
- Network viewing of reports including, editing and analysis of results and local printing
- Electronic transmission of recordings or results via e-mail to other CardioNavigator users
- HL7, Bidirectional interface to hospital information systems
- Reports that can be stored in PDF or RTF format
- Network, CD or DVD archiving of databases for backup

Lifecard CF '7-day' Mode Specifications

Features

- Pacemaker Spike Detection
- Single AAA alkaline cell required
- Splashproof
- Patient ID storage (voice recording)
- Lightweight and comfortable to wear
- Time and Date Recording
- Patient event button
- Large Digit LCD Clock Display
- On board ECG hook-up monitor
- Belt Clip standard on long length patient cables

Specification

Dimensions	96 x 57 x 18 mm (3.8 x 2.2 x 0.7 inches)	Amplitude Resolution	10 microvolt (0.0025 mV)
Weight*	118g (4.2oz)	Sampling Rate	256 samples per second
Power Supply	One AAA alkaline battery	Frequency Response	0.05 Hz to 40 Hz
Memory	90 MB removable CF card 3 or 4 electrode for 2 channel ECG	Pacemaker Pulse Detection	Channels 1 and 2
Data Compression	10 μ V max. compression error Tested with MIT-BIH databases. Exceeds EC38 requirements.	Pacemaker Pulse Sensitivity	7 mV
Dynamic Range	10 mV	Calibration	Automatic
		Signal to Noise Ratio	70 dB
		Common Mode Rejection	>80dB at 50/60 Hz
		Input Impedance	>5 Mohm
		Temperature	Operating: 0° to +45° C Storage: -20° to +65° C

*weight includes battery, patient cable and CompactFlash Card

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