



ECG Monitoring Solutions
Event Recording

CARDIAC DIAGNOSTIC SOLUTIONS



SPACELABS
Healthcare

Which CardioCall is right for you?

The CardioCall family of recorders can also be supplied with x 4 transmission speed, enabling trans-telephonic downloads to Spacelabs Healthcare receiving station in a quarter of the normal time.

CardioCall²⁰

- Event Mode
- Loop Mode
- 20 Minutes Memory

Event			Loop			
Length of recording	No. Channels	No. Events	Length of recording		No. Events	
60 sec	Single	10	Pre-event	Post-event	Single Channel	Dual Channel
			1min	1min	10	5



CardioCall^{VS20} & CardioCall^{VS20x4}

- Event Mode
- Loop Mode
- Programmable
- 20 Minutes Memory

Event			Loop			
Length of recording	No. Channels	No. Events	Length of recording		No. Events	
30 sec	Single	40	Pre-event	Post-event	Single Channel	Dual Channel
60 sec	Single	20	1 min	1 min	10	5
30 sec	Dual	20	45 sec	15 sec	20	10
60 sec	Dual	10	2 min	30 sec	8	4
			4 min 30 sec	30 sec	4	2
			9 min	1 min	2	1
			0 sec	60 sec	20	10



CardioCall^{ST80} & CardioCall^{ST80x4}

- Loop Mode
- Extended 85 minute single channel, 40 minute dual channel memory capacity
- Special mode as required by patient and at automatic time intervals

Special Mode				Normal Mode			
Single & Dual Channel Cables				Length of recording		No. Events	
Patient Activated		Timer Activated		Pre-event	Post-event	Single Channel	Dual Channel
Minutes Before	Minutes After	Time	Time to Fill				
			Between Recording	0	20 sec	255	127
				1 min	1 min	42	21
				9 min	1 min	8	4
2 min	20 sec	20 sec	1 hour	30 min	10 min	2	1
			5 days (single)	0	60 min	1	N/A
			5 days (dual)	15 min	5 min	N/A	2
				80 min	5 min	1	N/A
				10 min	10 min	N/A	2



CardioCall Specifications

Channels	1 or 2	Frequency deviation	100Hz/mV
Size (wxhxd)	56x71x18mm	Battery	1 AA (1.5V) alkaline battery
Weight	88g	Battery life	Loop - 5 weeks, Event mode - 6 months
Dynamic range	5mV	Transmitting modes	FM trans-telephonic OR direct PC download
DC offset rejection	+/- 300mV	Frequency response	Loop - 0.05-40Hz Event Recording - 0.5-40Hz
Transmission center frequency	1850Hz	Sampling	800Hz per channel

ECG Monitoring from Spacelabs Healthcare

Long term ECG Event Monitoring is widely used for monitoring symptomatic patients over several weeks in order to capture transient or infrequent arrhythmias.

Spacelabs Healthcare provide the latest multifunction CardioCall recorders, direct download solutions and x4 trans-telephonic capabilities.

CardioCall ECG Recorders

Compact & discrete

CardioCall recorders are small, unobtrusive and light. Weighing only 88g and measuring only 55mm across, ensures the patient feels less self-conscious about wearing the device. All the features you would expect and more.

Long battery life:

A single AA battery will last over 6 months when used in direct contact mode and over 5 weeks in loop mode.

Time and Date stamp:

Shows the recording time of every strip. This allows the physician to see from the final report whether the symptomatic arrhythmias were associated with particular activities or spread evenly across the day.

Easy to use:

One button to record, one to transmit, ensures maximum patient compliance

Programmable:

The recording length and number of recordings can be adapted to capture the relevant ECG. The length of time recorded before and after each event can be reconfigured using a programming key.

Two Recorders in One!

The CardioCall has two different modes of recording

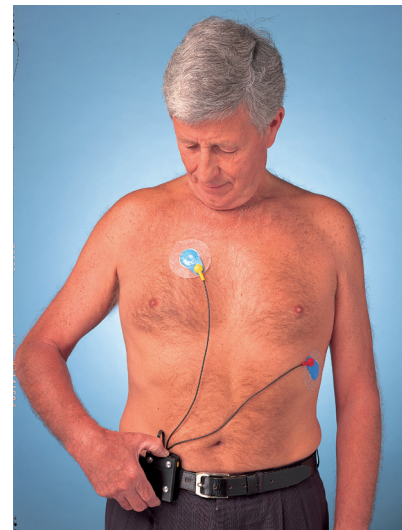
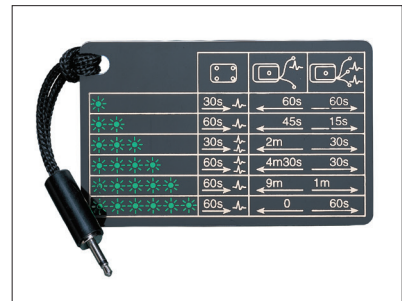
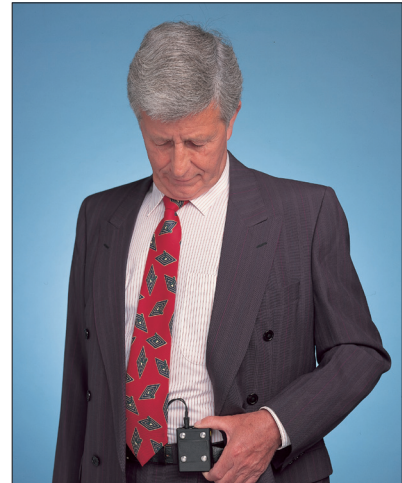
1 Event Mode:

When the patient has a symptom, they place the electrode feet on the back of the recorder, directly onto their chest and press a button. The ECG is then recorded for a pre-programmed duration.

2 Loop Mode:

The CardioCall is attached to the patient by electrodes. When the patient senses a symptom they capture the ECG by pressing the event button.

The recorder then stores the episode that includes ECG data that preceded, and followed the patient pressing the event button.



EventStation - Trans-telephonic ECG Monitoring System

EventStation is a PC based receiving station for use with any industry standard trans-telephonic monitor. When used with the Spacelabs Healthcare CardioCall^{x4} monitors, data is received at 4 times the normal rate.

Manual receiving mode

In manual mode calls from patients can be answered by a member of staff and guided through the download procedure.

The download and editing elements within EventStation can run independently. This enables the operator to continue ECG editing and reporting while simultaneously downloading real time calls.

The operator can edit ECG and compile reports as the events are received, or batch print events, into a single report at the end of a monitoring period.

Automatic receiving mode

EventStation also has an automatic receiving mode that can be used if required.



Download Content

Complete System

- Provided as complete system including PC and modem connections
- Receives DTMF/FSK transmissions from CardioCall recorders
- Archive to CD, network
- Print, fax or email reports

CardioNavigator - Direct Download

The CardioNavigator (C-NAV) software and interface cable enables the ECG recorded by CardioCall to be downloaded via serial connection, directly to a PC, for on-screen review, editing, printing and archiving. CardioNavigator provides a convenient, cost effective way to download stored ECG from CardioCall.

