



CardioMem[®]



Multi-channel digital recorders
CardioMem[®] CM 4000 and CM 4000 B
for Holter ECG

Cardiac function diagnostics

Vital signs monitoring

Telemonitoring



CardioMem® CM 4000 and CM 4000 B

Digital Recorders for Holter ECGs

Simple, fast, and reliable – that’s what our customers look for when it comes to recording and analysing Holter ECGs. The lightweight, easy to use, Cardio-Mem® recorder supports the user throughout all phases of recording Holter ECGs, from applying the electrodes and entering patient demographic data up to checking the ECG waveforms.

Innovative Technology – Comprehensive Functionality

Helpful functions, such as the detection of faulty electrode contacts or continuous battery monitoring, reduce the risk of corrupted or shortened recordings and hence the costs and troubles associated with having to repeat examinations. Optional auxiliary information that can aid in the final diagnosis, such as transthoracic impedance variations (which show respiration activity during sleep) and pacemaker function, can be acquired simultaneously to the ECG without any additional electrodes.

Excellent Design and Ease of Use

A large color display with touch screen offers an overview of all the necessary information, including patient demographic data, a diagram of the thorax showing correct electrode hook-up in accordance with the patient cable attached, an electrode impedance gauge, ECG waveforms and battery status. Using the touch screen, the user is intuitively guided through the recorder menus and can make changes to the configuration if necessary.

CardioMem® is small, lightweight and ingress protected against splashed water and dust, making it ideal for everyday use. 3, 5 or 7 lead patient cables are available for different types of recordings. Depending on the recording requirements, casings for AA or AAA batteries are available. For even longer recordings, the battery can be replaced and the recording continued.

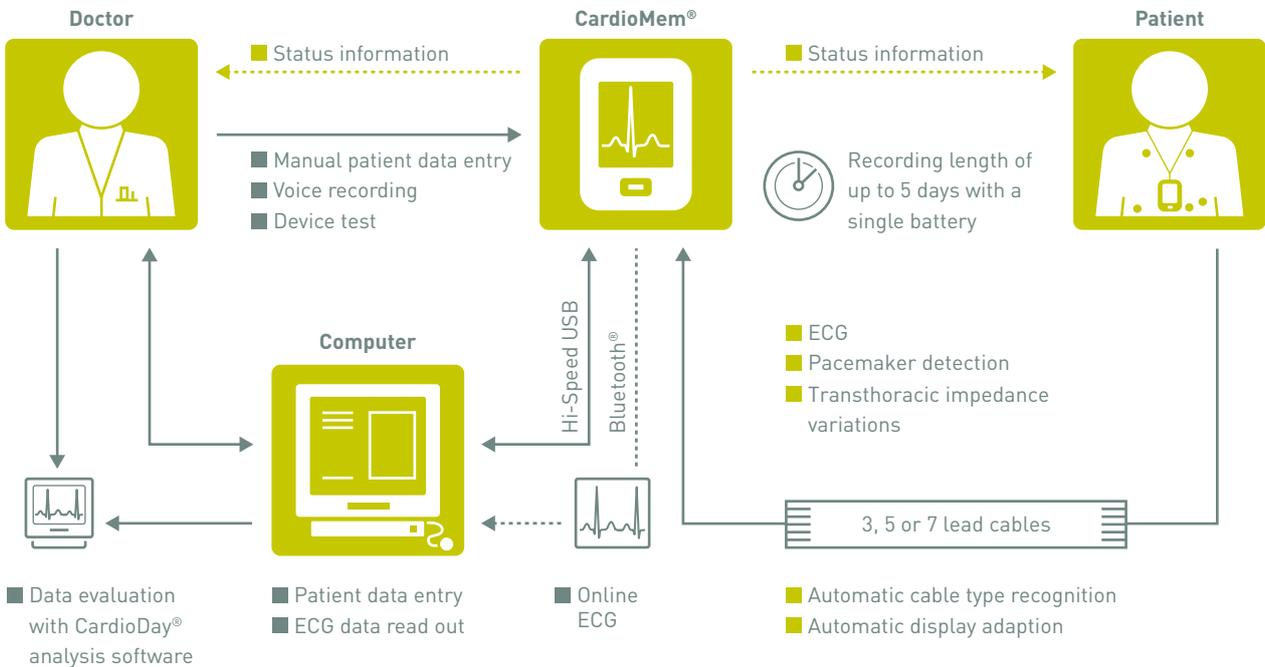
The CM 4000 series



□ Option

	CM 4000	CM 4000 B
Operating time with one alkaline battery	2 days	5 days
ECG cables: 2 channel (5 lead), 3 channel (3 or 7 lead)	□	□
High-resolution storage (1024 Hz/12 bit)		□
Pacemaker pulse detection	□	□
Acquisition of transthoracic impedance	□	□
Voice recorder	□	□
Bluetooth® interface	□	□

user-friendly
modular
reliable



Bluetooth® Interface

An optional integrated Bluetooth® module allows for encrypted, bi-directional data transfer with a PC. This technology can be used to transfer patient demographic data, configure recorder settings, e.g. length of recording, as well as synchronise the internal recorder clock with the PC clock before the recording begins. Furthermore, the ECG and optional auxiliary waveforms can be wirelessly transmitted online during the recording. Using CardioDay®, our analysis software tool, the information can be displayed, measured, printed and exported, for example, as an XML file. This feature makes the CardioMem® recorders ideal for collecting safety ECGs during pharmaceutical studies.

When Time is of the Essence – the Voice Recorder

The user can decide whether, prior to use, a patient ID or demographic data be transferred from a PC to the recorder, or if it is to be manually entered using the recorder interface. If the user is pressed for time, he or she can choose to dictate the patient information directly to the device via the voice recorder. The person carrying out the analysis then has an additional media file with information at his or her disposal, thus reducing the risk of a mix-up in data during the subsequent analysis phase.

Hi-Speed Data Transfer

At the end of the recording period, the acquired data are transferred to a PC via the Hi-Speed USB interface. After downloading, the recorder is immediately ready for the next patient.

Highlights

Brilliant color display

Touch screen graphical user interface (GUI)

Self-orientating GUI for left- or right-handed users

Flat housing, protected against splashed water

Automatic recognition of patient cable type

Voice recorder for patient identification

Bluetooth® interface for online ECG, data exchange

Hi-Speed USB interface

Perfect for pharmaceutical studies





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