

by anandic

# CardioMem® CM 4000

Multi-channel digital ECG recorder

**Simplicity and reliability** – two qualities of the CardioMem CM 4000 ECG recorder. This handy, lightweight recorder supports the user throughout all phases of recording and analysing Holter ECGs, from applying the electrodes and entering patient demographic data up to inspecting the ECG waveforms.



## Compelling technology, easy to handle, ideal for everyday use

**Helpful functions**, such as the detection of faulty electrode contacts or continuous battery monitoring, helps reduce the risk of corrupted or shortened recordings and hence the costs and troubles associated with having to repeat examinations.

Auxiliary information that can aid in the final diagnosis, such as transthoracic impedance variations<sup>1</sup> (which show respiration activity during sleep) and pacemaker function.

**A large, color display** with touch screen offers an overview of all the necessary information.

**Prior to recording**, patient demographic data can be transferred to the recorder via USB, or entered manually using the recorder interface provided. A further feature is the built-in voice recorder<sup>1</sup>, which allows the user to dictate relevant patient information to the recorder, thereby helping to prevent any mix-up of data that could occur.

1. To benefit from voice recording and transthoracic impedance the CM 4000 B Advanced Clinical Pack must be ordered.

“**Interrogation** for clinical signs of **OBSTRUCTIVE SLEEP APNOEA** should be considered in **ALL AF PATIENTS**.  
ESC Guidelines<sup>2</sup>”



## Technical Specifications

Dimensions (W x H x D)	65 x 108 x 16.5 mm
Weight (CM 4000 B)	78 g (without battery) 99 g (with battery)
Battery Type (CM 4000 B)	1 x 1.5 V Alkaline (AA) 1 x 1.2 V NiMH (AA)
Operating time	Up to 120 h <sup>3</sup> (CM 4000 B) (alkaline battery)
Controls	Event key and touch screen, multi-lingual
Display	2.4" color display, 320 x 240 pixel
Connectors	Patient cable Data transfer (Mini-USB)
Available patient cables	2 channels (5 leads) 3 channels (7 leads)

## Parameters

ECG channels	2 or 3 independent, bipolar channels
Bandwidth	0,05 ... 100 Hz
Input dynamic range	± 6 mV
Offset voltage range	± 300 mV
Pacemaker detection	unipolar, bipolar and biventricular systems
Pulse width	0,1 ... 2 ms
Pulse amplitude	2 ... 250 mV
Open lead detection	Yes
Additional channels	Thoracic impedance variations

Distributed by:

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Manufactured by:

GETEMED Medizin- und Informationstechnik AG  
Oderstraße 77  
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Germany

Not commercially available in all markets.  
Not for sale in the U.S. Not cleared by the U.S. FDA.

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## Storage

Storage Type	Integrated micro-SD card (non-removable)
Sampling Rate	1024 Hz
Resolution	12 Bit
Data storage	256 Hz
Memory capacity	≥ 1 GByte
Data transfer mode	Hi-speed USB 2.0
Data transfer time	30 s (for 24 h, 3 channel ECG)

## Classification

Product classification	Ila in accordance with 93/42/EEC
Classification of applied part	Type CF (Cardiac Floating)
Ingress protection	IP 64
UMDNS code	12-388

## Environmental conditions

Operating conditions	Temperature +5 °C ... +45 °C; Relative humidity 5 ... 95 %, noncondensing
Storage and transport conditions	Temperature -25 °C ... +70 °C; Relative humidity 0 ... 90 %, noncondensing

## Scope of delivery

Recorder, pouch with waist belt, start-up kit with ECG electrodes and batteries, user manual, quick start guide, transport box



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2. Kirchhof, P. Benussi, S. Kotecha, D. Ahlsson, A. Atar, D. Casadei, B. Castella, M. Diener, H-C. Heidbuchel, H. Hendriks, J. Hindricks, G. Manolis, A. Oldgren, J. Popescu, B.A. Schotten, U. Van Putte, B. Vardas, P. (2016) ESC Guidelines for the management of atrial fibrillation developed in collaboration with EACTS. European Heart Journal (2016) 37, 2893-2962.

3. 120 hours achieved using the Panasonic EVOIA battery.