CARDIOLINE

walk400h

walk400**h** is a latest-generation holter recorder able to acquire and memorise from 3 to 12 ECG channels, compatible with the holter reader software **CARDIOLINE**®, for details of which see the relevant documentation.
walk400**h** is a micro-computer with highly evolved PC connectivity and extensive capacity to memorise and handle holter tests.
The features which distinguish **walk**400**h** are:

- large, colour, LCD graphic display visualises up to six ECG signal charts at the same time;
- intuitive, basic user interface uses guided procedures to enable the operator to complete the test easily and rapidly;
- wireless PC connection using bluetooth technology or, alternatively, via USB cable;
- built-in voice recorder to memorise vocal messages during the test (event-marker function) and/or to insert patient details when preparing the test;
- incorporated movement sensor to record the motor activity of the patient;
- extensive data memorisation, capacity to handle tests lasting from one to seven days;
- single, 5-position joystick to rapidly scroll the device menu;
- limited size and weight for increased patient comfort;
- functions with a single AA battery.

walk400h

The beat-beat acquisition of each ECG channel is performed at a minimum frequency of 250 samples per second per channel. For special analytic tests a higher sampling frequency may be chosen. All the ECG channels are recorded without interrupting the beat-beat acquisition of the signal and without any sort of signal compression.
The recorder contains a flash memory of one GB thanks to which holter charts lasting a total of one week can be memorised.

Technical specifications

CARDIOLINE

walk400h

Channels	configurable from 3 to 12 acquired channels acquired simultaneously and continuously
Duration of recording	from 1 to 7 days (depending on the functioning mode)
Sampling frequency	250, 1000 samples per second (depending on the functioning mode)
Resolution	14; 15 bit (depending on the functioning mode)
Sensitivity (LSB)	2.5microV/bit; 5.0 microV/bit (depending on the functioning mode)
Input signal range	AC: ±40mV
Input signal range	DC: ± 400mV
Frequency response	0.05Hz – 150Hz
Common mode rejection	> 90dB
Time constant	3.3 sec
Saturation detection	performed for each channel
Pacemaker recognition	hardware detection on 3 channels
Connection to PC	wireless type Bluetooth Class II in real-time; USB cable to download the test
Display	colour display for visualisation of ECG chart, quality of electrode/skin contact and messages for preparation and download of the test
Display resolution	2,2"; 240x320dots; ¼ VGA
Voice recorder	incorporated
Event Marker	using keypad plus voice recorder
Memory	1 GB, incorporated in the device.
LED	1 green LED to check battery status; 1 blue LED to check system status
Keys	1 multi-function, 5-position joystick
Patient cable	5; 7; 10-wire cable with snap attachment
Defibrillator protection	absent
Power supply	1 AA alkaline battery (ultra or rechargeable NiMh of at least 2500 mAh)
Dimensions	96x65x20 mm
Weight	105g (with battery) 80g (without battery)
Housing protection category	IP 30
Applied parts	type CF
Classification EEC Directive 93/42	IIa
Classification (EN60601-1	internally powered device – Type CF
PC Interface	Standard Bluetooth key or USB 2.0
Environmental operating conditions	temperature between +10 and +45 °C relative humidity between 25 and 95 % (without condensation) atmospheric pressure between 700 and 1060 mbar
Environmental storage conditions	temperature between +10 and +45 °C relative humidity between 25 and 95 % (without condensation) atmospheric pressure between 500 and 1060 mbar