

Technical specifications

CE
0470

Power supply	Internal AC power supply 115-230 V \pm 10% 50/60Hz Rechargeable sealed lead battery 12 Volt, 2000 mAh
Battery power capacity	1 hour, 220 recordings
Writing system	Thermal printer, 8 dot/mm. Usable print height 210 mm
Thermosensitive paper	Format 210 mm in gridded Z-fold packets: length 30 m, page 210 x150 Rolls: length 17 m, page 210 x 280
Monitor	Backlit graphic display 32x120 pixels (61x16mm), 2,5 inches
Keyboard	Membrane, with functional and alphanumeric extended keyboard
Leads	12 standard/cabrera leads
Signal memory	10 seconds each lead in automatic mode
Print channels	12
Print format	Automatic mode: 3, 6x1, 6x2, "Full Page"(3x4+R)x1 and (3x4+3R)x1, 12x1 Manual mode: 3, 6, 12
Operating modes	Manual: acquisition and printing in real time Automatic: simultaneous acquisition Pre-programmed: simultaneous acquisition at programmable intervals Arrhythmia: detection of arrhythmia events (optional) HRV: acquisition and processing of heart rate variation (optional) PC ECG: transmission of signal in real time to Personal Computer (optional) Paper Saving: acquisition without print (optional)
Recording sensitivity	Manual: 5 - 10 - 20 mm/mV Automatic: according to number of channels printed
Paper transport speed	5 - 25 - 50 mm/s
Defibrillation protection	Internal
Input dynamics	\pm 300 mV @ 0 Hz \pm 10 mV band width
Input impedance	> 100 MW on each electrode
Common mode rejection	> 100 dB
Frequency response	0,05 - 150 Hz (-3dB)
Time constant	3.3 s
Acquisition	12 bit 1000 samples/s/channel printing and filters 500 samples/s/channel in calculation and filters Resolution 5 MicroV/bit
Pacemaker recognition	Recognizes pulse in accordance with current IEC standards
Filters	Mains and muscle interference: modified digital notch 50 - 60 Hz Anti-drift: digital high-pass 0.5 Hz, linear phase, without morphological distortion
Serial interface	Infrared
Diagnostics programs	Parameter calculation (optional) Electrocardiogram interpretation (optional) Arrhythmia program (optional) HRV: heart rate variation (optional)
Options	Memory option, ECG measurements option, ECG analysis option, arrhythmia option, HRV analysis option, PC archive option, PC ECG option
Dimensions	325 x 80 x 345 mm (length x height x depth)
Weight	4800 grams without paper
Safety and Conformity to standards	Class I, type CF Ref: EN 60601-1, EN 60601-2-25, IEC 60601-2-51 According to: 93/42 CEE: class IIa CE0470



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CARDIOLINE® ar2100adv

Tradition and reliability
for a continue evolution



ar2100adv combines multiple levels of performance in a multichannel ECG recording with all the features of reliability, modularity, versatility and upgradability that characterize the latest generation of CARDIOLINE® electrocardiographs

Tradition and reliability for a continue evolution

In short, an A4 format electrocardiograph providing solutions that will help improve the quality of diagnosis performed by specialists and hospital staff alike



Safe and easy wireless connection
thanks to the IR (Infrared) digital interface.

User friendly interface
the liquid crystal display and a complete alphanumeric keyboard ensure quick and trouble free operation of the ECG examination and patient management.

Easily adapted to suit your individual requirements
affording an advanced diagnostics support and facilitating the communication and transfer of information. The selection of the "options" offered has no restrictions or constraints, it has no effect on day-to-day use of the instrument and upgrades can be made directly at your clinic or ward.

Main features

Automatic, manual and pre-programmed recording mode.

Multi-channel print format on A4 paper: 3, 6x1, 6x2, "Full Page" (3x4+R) and (3x4+3R), 12 channels.

LCD Display.

Extended alphanumeric keyboard.

Paper in rolls and packs.

Dual power supply: mains and rechargeable internal batteries.

Memory of the last ECG recording and printing of additional copies.

Time and date indication.

Options available

Memory option

Storage of more than 40 full ECG exams, with no need to print out the ECG.

ECG measurements option

Automatic calculation of the main ECG parameters.

ECG analysis program

A useful and dependable diagnostics support. The results obtained by analysing the 12 lead simultaneously, can be printed out in a "physician

tailored layout" following the methodology with which a Physician would read an ECG.

Arrhythmia option

Detection of arrhythmia events during continuous recording.

HRV analysis option

Measurement of the heart rate variability in a predicted interval (from 1 to 5 minutes) and printout of the relevant results.

PC archive option

Archival storage of the ECG in a personal computer running the CARDIOLINE® software for the ECG computerised management. The data upload to the PC is made by use of the wireless "IR" interface; no direct connection to the PC is required.

PC ECG option

Real time display of the 12 ECG leads on a PC endowed with CARDIOLINE® software for the ECG computerised management. The software can offer an optional module for automatic interpretation of the ECG signal.