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ar1200adv

Technical specifications

CE 0470

Power supply	A.C. mains with external power supply 230V±10% 50/60 Hz.; available also: 115V±10% 50/60 Hz. Rechargeable NiMH batteries, 10x1,2 Volt, 1800 mAh
Battery power capacity	2 hours, more than 300 recordings
Writing system	Thermal printer, 8 dot/mm. Usable print height 110 mm
Thermosensitive paper	Rolls : length 20 m, page 120x100 mm, gridded Z-Fold : length 30 m, page 120x100 mm, gridded
Monitor	Backlit graphic display 32x120 pixels (61x16mm), 2,5 inches
Keyboard	Membrane, with functional and simplified alphanumeric keyboard
Leads	12 standard/cabrera
Signal memory	10 seconds each lead in automatic mode
Print channel	6
Print format	3, 3+R and 6
Operating modes	Manual: acquisition and printing in real time Automatic : simultaneous acquisition of the 12 leads 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 printing *(optional)*
Recording sensitivity	Manual: 5 – 10 – 20 mm/mV ± 5% Automatic: according to number of printed channels
Paper speed	5 - 25 - 50 mm/s
Defibrillation protection	Internal
Input dynamics	± 300 mV @ 0 Hz.± 5 mV in pass band
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	11 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, switch on/switch off filter Anti-drift: digital high-pass 0.5 Hz, linear phase, always enabled and without morphological distortion
Serial interface	Infrared
Diagnostics programs	Parameter calculation *(optional)* Electrocardiogram interpretation*(optional)* Arrhythmia *(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	320 x 72 x 240 mm (length x height x depth)
Weight	1850 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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Quality management system certified according to EN ISO 9001: 2000 – EN ISO 13485: 2003 - Certificate N. 800278

CARDIOLINE® is an **et medical devices SpA** brand

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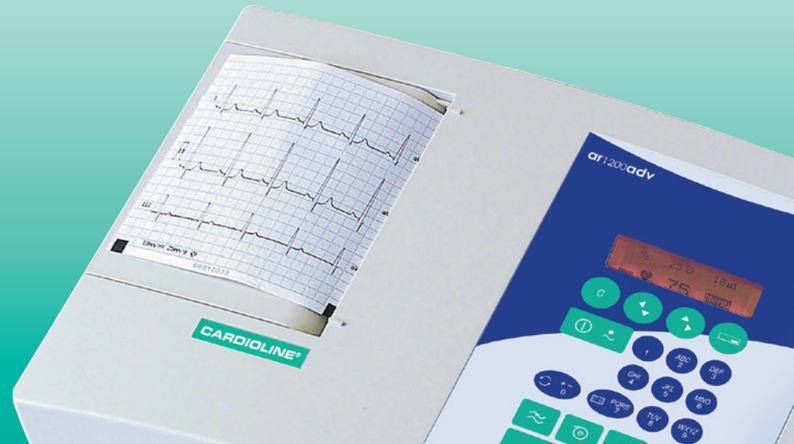
CARDIOLINE® ar1200adv

Tradition and reliability for a continue evolution



CARDIOLINE® ar1200adv

ar1200adv 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

In short, a multi-channel electrocardiograph providing solutions that will help improve the quality of diagnosis performed by specialists and hospital staff alike

Tradition and reliability for a continue evolution

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

User friendly interface
the liquid crystal display and a simplified set of alphanumeric keys ensure quick and troublefree use under any conditions, and dependable 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 surgery.

Main features

Automatic, manual and pre-programmed recording mode.

Multi-channel print format on 120 mm paper: 3, 3+R, 6 channels.

LCD Display.

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 up to 20 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
Storage of the ECG in a personal computer running the CARDIOLINE® software for the ECG computerised management. The data upload to the PC are 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.