

## Technical specifications

**CE**  
0470

Power supply	Internal AC power supply 115-230 V ± 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	± 300 mV @ 0 Hz.± 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

# Medical Device Depot Inc.

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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.