CARDIOLINE

ar2100view

ar2100**view** combines optimised performance in multi-channel ECG recording equipped with 12 channels colour graphic display and A4 format print system with all the features of reliability, modularity, versatility and upgradeability that characterise the latest generation of **CARDIOLINE**® electrocardiographs.
ar2100**view** is available as in a base version as well as a Bluetooth version for data transmission via integrated Bluetooth interface.

ar2100**view** has dual power supply (mains and rechargeable internal batteries), which in the basic configuration allow to:

▪ recording of an ECG in either automatic, manual mode and pre-programmed;
▪ printing the ECG on 210 mm in different format paper using a high-resolution thermal printer;
▪ sorting of the tests according to clock, date and alphanumeric keyboard to manage user and patient data;
▪ effect the automatic ECG parameter measurement;
▪ archive the ECG in a personal computer running **cube**ecg software (only for bt version);
▪ visualize the real time display of the 12 ECG leads on a personal computer screen through the Bluetooth to allow management of patient medical records and archiving of ECG's in digital format thanks to the **cube**ecg software (only for bt version).

Thanks to the flexibility of the software used, **ar**2100**view** can be adapted at any given moment to suit your individual requirements. The range of "options" offered is particularly generous and there are no restrictions or constraints, as the selection can be made either at the moment of purchase or later on at your clinic or surgery without having to interrupt day-to-day activity.
In just a few minutes your **ar**2100**view** can be equipped with:

▪ *Memory option*: storage of up to 200 full ECG exams, with no need to print out the ECG;
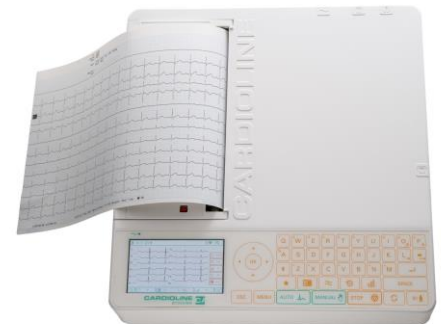▪ *ECG analysis program:* automatic ECG interpretation program.

Intended use

ar2100**view** is a digital 12 channel ECG, able to acquire and digitalize the 12 leads simultaneously, to visualize in real time on the integrated LCD color display and to print on thermal printer, to memorize 200 ECG traces (optional), to archive them and/or to transmit them to **cube**ecg system (optional) to PC through the Wireless Bluetooth connection.
The device is designed and produced for use as an active diagnostic tool.
The proper use of the product in a medical environment. The device should only be used by qualified and suitably trained personnel, and must comply with the instructions contained in the User Manual.
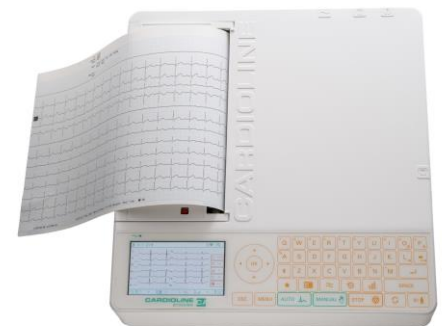Expected useful life: 5 years

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Technical Specification

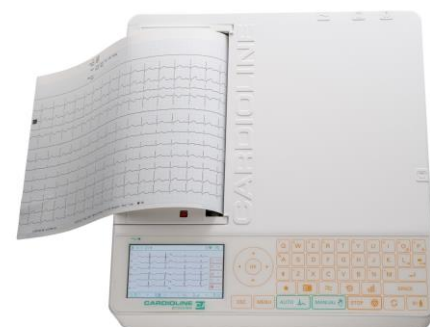|	
A.c. mains power supply	Internal power supply 90-250V 47/63Hz
Maximum current absorbed	500 mA a 115 V ~ ±10% 300 mA a 230 V ~ ±10%
Mains protection	Fuse: T 1,6 A 250 V
Internal power source	Rechargeable battery NiMH 10x1,2 Vdc; 2000 mAh
Internal power supply protection	Pico fuse SHF SLO-BLO T 5 A Littelfuse
Classification (EN60601-1)	Device class I
Applied part	CF type
Class (93/42/EEC Directive)	IIa
Defibrillation protection	Internal
Input dynamic	± 300 mV @ 0 Hz.± 10 mV in pass band
Input impedance	>100 MΩ on each electrode
Common mode rejection	>94 dB balanced electrode impedance
Frequency response	0,05 ÷ 190 Hz (-3dB)
Time constant	3,3 s
Acquisition	12 bit; 1000 samples/s/channel printing; 500 samples/s/channel in calculation and filters; Resolution (LSB) 5 μV/bit
Leads	12 leads Standard, Cabrera with quality control of the electrodes connection.
Signal memory	10 seconds for each lead in auto isochronous
Recording sensitivity	Manual and automatic: 2,5 - 5 – 10 – 20 mm/mV ± 5%
Writing system	Thermal printer 8 dot/mm Usable print height 210 mm
Print format	3 / 6 / 12 / D3+1 / D3+3 / D6x2 / D12
Paper transport speed	5 – 10 – 12,5 - 25 – 50 mm/s
Thermal paper	Z-Fold pack: page 210x280mm *200FF, gridded
Pacemaker recognition	Recognises pulse in accordance with current IEC standards
Filters	Mains interference: Modified digital notch filter 50–60 Hz linear phase Anti-drift: Digital high-pass 0.5 Hz, linear phase, always enabled. muscular tremors: 3 frequencies: 20, 25 and 35 Hz.
Serial interface	Bluetooth class I (optional)
Keyboard	Capacitive with 47 keys
Display	Visualization 12 ECG channels, functional parameters, HR (30 - 300), included contact electrodes control signal. Colour graphic LCD TFT 480x272 pixels, display effective area 95.04 x 53.856 mm, led backlit (4,3")
Interpretation program	Parameter calculation ECG interpretation (optional)
Type of use	Continuous
Operating modes	Manual: acquisition and printing in real time Automatic: simultaneous acquisition

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PC-ECG: real-time acquisition with visualization on PC (optional)

Paper Saving: acquisition and automatic archive without printing (optional)

Battery capacity .... Internal battery: 80 min. printing 6 channels
Recharging time........................ Internal battery: 10 hours 100%
Housing protection degree......... IP 20
Dimensions .... 325 x 80 x 345 mm (length x height x depth)
Weight .... 3700 gr. without paper
Operation ambient conditions .... Ambient temperature: from +10°C to +40°C
Relative humidity: from 25% to 95% (without condensation)
Atmospheric pressure: from 700hPa to 1060 hPa

Transport and storage
ambient conditions .... Ambient temperature: from -10°C to +40°C
Relative humidity: from 10% to 95% (without condensation)
Atmospheric pressure: from 500 to 1060 hPa

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Standard accessories supplied

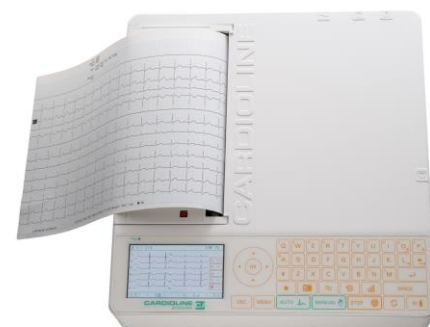| Code	Description	Q.ty
63050025	ECG patient cable IEC, 10 leads, banana 4mm	1
66020006	10 Alligator clip adapter x4mm plug	1
66030034C	Disposable electrodes ECG, tab, 100pcs	1
	ECG paper Z-fold, 210x280mm x 200 sheets	1
66020028	ECG ruler	1
	User's manual	1
65090025	Dust cover	1
	ECG Measurement Upgrade	1
	PC Archiving Upgrade (without adapters) (only for bt vers.)	1
	Real-time PC ECG (without adapters) (only for bt vers.)	1

Options

Code	Description
9ME210SE	ECG Memory Upgrade
9IN210SE	ECG Interpretation

Accessories

Code	Descrizione
63030105	4 limbs. ECG electrodes clamp Ag/Agcl
63030107	4 limbs .ECG electr.clamp ped. Ag/Agcl
63030163	6 chest ECG electr.suction type Ag/Agcl
63050025	ECG patient cable IEC, 10 lead, plug 4mm
63090136	Patient cable arm for trolley
63090335	Universal Trolley - SE
63090236	Set of 10 snap adapters for 4mm plug
63090295	BT USB dongle for PC cl.I + extens.cable
65090025	Dust cover
66010042C	ECG paper Z-fold, 210x280mm x 200 sheets
66020002	ECG electrode gel, 260 ml
66020006	10 Alligator clip adapter x4mm plug
66020028	ECG ruler
66030031C	Disposable electrodes ECG, snap, 50 pcs
66030034C	Disposable electrodes ECG, tab, 100pcs
66030036C	Disposable electr.ECG neonatal 25pcs
66030037C	Disposable electrod. ECG banana, 60 pcs

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