CARDIOLINE

ar600view

ar600**view** combines features that are unusual for a portable electrocardiograph with the characteristic trademarks of the latest generation of CARDIOLINE® ECGs – reliability, modularity, versatility and expandability. **ar**600**view** integrate Bluetooth interface for data transmission.

ar600**view** is an electrocardiograph with a dual power supply system (through mains or internal rechargeable battery pack) and in its base version it:

- registers ECG in automatic, manual and auto-timer mode;
- visualises the real-time ECG signal on its graphic display in the formats 3 and 3+3 channels;
- prints the ECG signal in high resolution on 60mm-paper with its thermal printer in various formats: 1, 2, 2+R, 3 and 6 channels;
- memorises the last automatic ECG for later printout of copies;
- organises tests by date/time and includes a keyboard for entering patient as well as user data;
- calculates ECG parameters automatically;
- archives tests on a PC with ECG management software ECG **cube**ecg;
- transmits ECG data in real-time to a PC with ECG management software ECG **cube**ecg.

Due to its flexible firmware, **ar**600**view** can be adapted at any time to the user's individual requirements by entering a specific activation code. The available options can be selected freely and individually either at the time of purchase or, later, at the site of operation without interrupting the daily workflow.

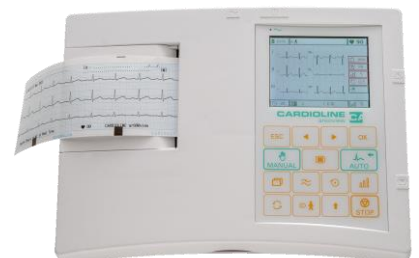In just a few minutes your **ar**600**view** could include:

- *Memory option*: files up to 100 tests without the need of immediate printing ("paper saving" mode);
- *ECG interpretation option*: program for automatic parameter calculation and interpretation of the ECG signal;

Intended use

ar600**view** is a digital electrocardiograph that simultaneously records and digitalises the 12 ECG channels and prints them on an integrated thermal printer.

The device is designed for monitoring the cardiac functions and/or diagnosing the health status of the patient.

The proper use of the product is in a medical environment. The device should only be used by qualified and suitable trained personnel and must comply with the instructions in the user manual.
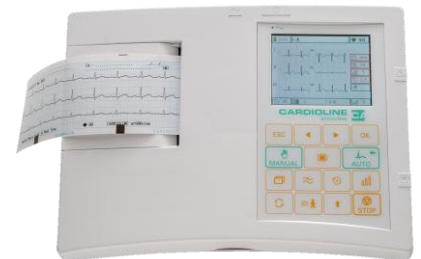
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Technical specifications

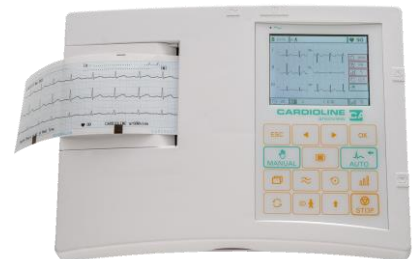|	
AC mains power supply	AC mains with external battery charger 230V±10% 50/60 Hz.; also available: 115V±10% 50/60 Hz
Max. current absorbed	100 mA at 117 V ~ ±10%; 50 mA at 230 V ~ ±10%
Mains protection	Fuse: T 0,5 A
Internal power supply	Rechargeable battery pack NiMH 8x1.2 Vdc; 1,500 mAh
Battery protection	PolySwitch 1.5 A – ambient conditions 40°C
Int. power supply protection	Fuse Pico SHF SLO-BLO T 2 A Littlefuse
Applied part	CF type
Defibrillation protection	Internal
Input dynamic	± 300 mV @ 0 Hz.± 5 mV in pass band
Input impedance	> 100 MΩ on each electrode
Common mode rejection	> 100 dB
Frequency response	0.05 ÷ 150 Hz (-3dB)
Time constant	3.3 s
Acquisition	11 bit 1,000 samples/s/channel in printer and filters 500 samples/s/channel in calculation phase resolution 5 μV/bit
Processing	Automatic correction of the baseline
Leads	12 leads standard or Cabrera
Signal memory	10 s for each lead in auto isochronous
Recording sensitivity	*manual:* 2.5 – 5 – 10 – 20 mm/mV ± 5% *automatic:* depending on number of printed leads
Writing system	Thermal printer at 8 dot/mm Usable print height 54 mm Calibration mV print-out
Print channels	1, 2, 2+R, 3 and 6* (*only in manual mode)
Paper speed	10 – 12.5 - 25 – 50 mm/s
Thermal paper	*roll*: length 15 m page 60x75mm, gridded *Z-Fold*: length 18 m, page 60x75mm, gridded
Pacemaker detection	Detects pulse in accordance with current IEC standards
Filters	*Mains interference:* modified digital notch filter 50–60 Hz *Anti-drift:* 0.5 Hz digital high-pass, linear phase *Muscle tremor:* 3 filters 35, 25 & 20 Hz
Serial interface	Bluetooth Class I, USB (service)
Keyboard	Soft touch with 15 function keys
Display	Visualisation of the 12 ECG channels, functional parameters , HR (30 - 300), incl. signal check, graphic colour LCD TFT, 3.5'', resolution 320(RGB) X 240, colour depth 24bit, technology type a-Si, actual area (mm) 70.08 x 52.56, 6 LED backlit
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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Autonomy .... *Paper Saving:* acquisition and automatic archiving without printing

Autonomy .... *Internal battery:* 3 hours in 1-channel mode

Recharging time...................... *Internal battery:* 14 hours to 100%

Housing protection category..... IP 20

Dimensions............................. c (length x height x depth)

Weight .... 1,000 grams without paper

Ambient conditions
function:.................................. Ambient temperature: +10°C to +40°C

Rel. humidity: 25% to 95% (without condensation)

Atmospheric pressure: 700hPa to 1,060 hPa

Ambient conditions
transport and storage: .... Ambient temperature: -10°C to +40°C

Rel. humidity: 10% to 95% (without condensation)

Atmospheric pressure: 500hPa to 1,060 hPa

Classification 93/42 CE: .... class IIa, CE1936

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Standard accessories

Code	Description	Qty
63050025	Patient cable	1
	Paper roll 60mm x 15m	1
65090056	Carrying case model "CARDIOLINE 60"	1
66020006	10 Alligator clip adapter x4mm plug	1
66020028	ECG ruler	1
	PC Archive upg	1
	ECG measurement upg	1
	RTE upgrade	1
66030034C	Disposable electrodes ECG, tab, 100pcs	1
83080019	ar600view power supply EU socket	1
	User manual ar600view	1

Options

Code	Description
9IN600VE	ECG Interpretation
9ME600VE	ECG memory

Accessories

Code	Description
63030105	4 Periph. Ecg Electrodes Clamp Ag/agcl
63030106	Set of 4 periph. ECG electr.clamp Ag/Agl
63030107	4 Periph.ecg Electr.clamp Ped. Ag/agcl
63030163	6 Chest Ecg Electr.suction Type Ag/agcl
63050025	ECG patient cable IEC, 10 lead, plug 4mm
63050068	ECG patient cable AHA, 10 lead, plug 4mm
63090335	Universal Trolley - SE
63090136	Patient cable arm for trolley
63090236	Set of 10 snap adapters for 4mm plug
65090056	Carrying case model "CARDIOLINE 60"
66010037C	ECG paper roll, 60x75mm x200 sh. 10 pcs
66010040C	ECG paper Z-fold, 60x75mm x250 sh.10pcs
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
63090295	BT USB dongle for PC + extension cable
83080019	ar600view power supply EU socket

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