CARDIOLINE

ECG100S

Allgemeine Präsentation

The ECGS series is the new line of electrocardiographs by Cardioline, intended for private physicians and clinical institutions. The ECGS family has been designed to offer the best price performance ratio on the market.

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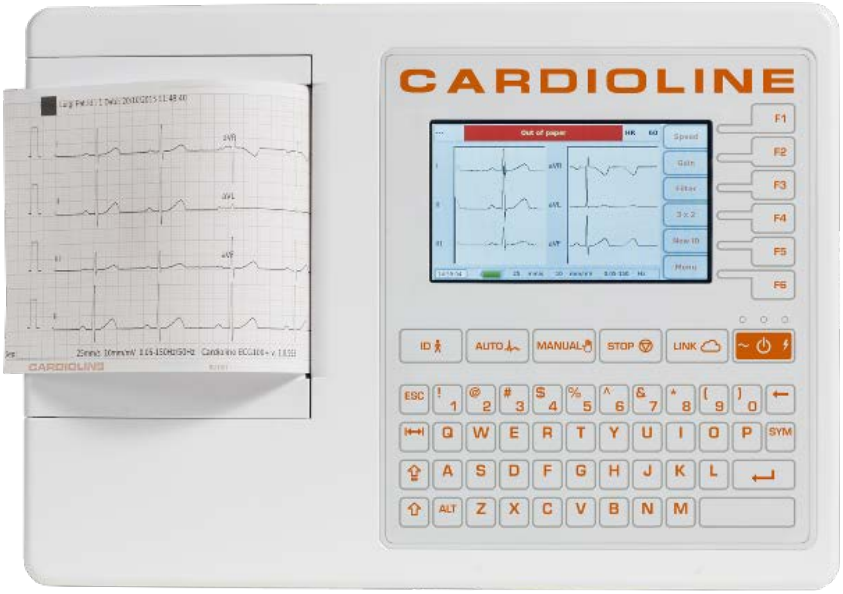
ECG100S offer uncompromised, fully diagnostic ECG acquisition, meeting or exceeding the most severe standards used in clinical and interpretation applications. Thanks to the interpretation algorithm from the University of Glasgow, it provides state of the art Analysis algorithms for resting ECG interpretation, including full pediatric interpretation and acute ST elevation myocardial infarction detection, perfect for emergency situations.

It can be easily connected to a small computer environment and offer ECG transfer and PDF storage, simply using the USB device port (without the need to configure advanced network environments).

The ECG100S offers a complete and intuitive user interface. Dedicated keys are immediately accessing the primary operations (ID, manual or automatic ECG) and a quick configuration menu can pre-set and store user modes. The large display allows a preview of the ECG for a safe and quick acquisition.



Main Features

- Next generation front end for high quality and stable traces, precise measurements, quick and precise ECG acquisition.
- Extremely high signal quality, which exceeds the most severe standards for ECG acquisition (AAMI, ANSI, AHA, ACC).
- Interpretation algorithm from the University of Glasgow for the best performances in resting ECG analysis.
- USB connectivity option for integration and bidirectional communication with the standard patient clinical and demographic data management systems.
- SCP, PDF export formats.
- Wide color display with high quality traces for safe and quick acquisition.
- Intuitive and straightforward user interface with full alphanumeric keyboard and programmable keys.

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Technical Specifications

ECG leads	12-leads (I, II, III, aVR-L-F, V1-6)
CMRR	> 100 dB
DC imput impedence	No lead-off 100 MΩ
A/D converter	24 bit, 32000 samples/second/channel
Sampling rate of the input stage	32000 samples/second/channel
Sampling rate - for signal analysis	1000 samples/second/channel
A/D convertion	20 bit
Output data resolution	< 1µV/LSB
Bandwidth	0.05 – 300 Hz
Pacemaker detection	Hardware detection coupled with convolution digital filtering
Filters	Diagnostic fully digital high pass filter; adaptive digital AC interference filter (50/60 Hz); digital low pass filter, muscular filter 25 and 40 Hz (only for display and printing)
Defibrillation protection	AAMI/IEC Standard
Front-end performance	ANSI/AAMI IEC 60601-2-25:2011
Safety	EN 60601-1 internal power equipment – Class I on external AC/DC power supply ANSI/AAMI ES1; CE1936
ECG storage	Internal storage 100 ECGs
Display	4.3” colour LCD display, backlit for waveform real-time tracing
Thermal printer	8 dot/mm; 108 mm; z-fold 100x150 mm
Manual printing	3, 6 channels, 5/10/25/50 mm/s
Automatic printing	Standard or Cabrera; 3, 3+1, 6 channels Patient Demographic, Global Measurements, Optional Interpretation (Glasgow University, Prof. MacFarlane) Adult, Paediatric, STEMI
Keyboard	Mechanical keypad with alphanumeric keys and special function keys
Connectivity	USB device
Patient cable	Standard 15D, 10-wires
Data export	SCP, PDF
Power supply	Medical grade AC power supply (100-240 VAC 50/60 Hz); internal rechargeable battery (NiMH)
Internal battery	Recharging time: 4 hours to 85% of full charge Duration: more than 500 ECGs – more than 5 hours
Dimensions	285 x 204 x 65 mm
Weight	1.8 Kg with battery

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