

CARDIO M-PRO

Digital 12-Channel ECG



Intelligent 12-channel ECG with touchscreen

CARDIO M-PRO - a 12-channel ECG with a variety of intelligent features, which will help to reduce the amount of time consuming work steps and will implement a modern workflow in every practise. The combination of a wide 8 inch LCD touchscreen with a full alphanumeric keyboard will simplify the already functional device even more.

Plug in an external USB printer or a barcode scanner to combine the existing pracise management system with the CARDIO M-PRO will reduce the working steps, too. - The CARDIO M-PRO supports all popular outputs, such as manual, automatic, rhythm, R-R, off five recording modes, Minnesota code diagnostic information as well. The powerful analysis module can report 140 kinds of diagnostic analysis and supports PDF, DICOM, FDA-XML, DAT or JPEG.

Features and Benefits

- 8-inch color widescreen touch LCD monitor, 12-channel synchronous display with the screen
- Using the computer keyboard input and full-screen touch operation design
- Using 24-bit high-precision synchronous data acquisition, with low noise, high dynamic range, wide frequency response characteristics
- The use of excellent performance of the linear phase of the all-digital filter, high-fidelity waveform output
- The use of innovative fast baseline correction algorithm, can be stable within 1-3s baseline
- ECG automatic analysis system through ECE CSE ECG database test
- The use of high-definition low-noise thermal recorder, put the stack paper automatic positioning function, without human intervention
- Built-in high-energy lithium battery, can print 500 copies of ECG data
- Hidden portable handle design, mobile, easy to carry
- Using high-precision data storage, support for internal Flash, large-capacity USB, SD card storage
- Support manual, automatic, rhythm, R-R, off five recording modes, Minnesota code diagnostic information output
- Support ECG waveform freeze and automatic playback
- Support external USB printer, bar code scanner
- Support networking, support PDF, Dicom (optional), FDA-XML (optional) format output

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The keyboard of CARDIO M-PRO is designed to be user-friendly and easy to operate. According to functions, keys are divided into single function key, dual function key and combined function key. Below are examples of some important keys.



:**†**.



Gender switch key

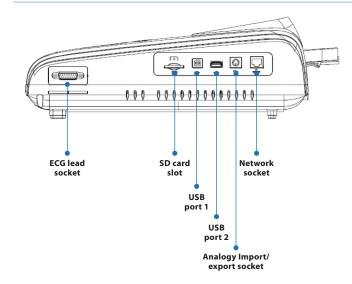
Age group switch key

Method switch key



CARDIO M-PRO provides on the devices right side all important ports and sockets for an easy everyday workflow.

ECG lead socket:	Connect to patient cables to collect ECG data
SD card slot:	Can be inserted in SD mermory card to store
	ECG data
USB port 1:	Standard USB connector. For USB stick,
	USB printer or barcode scanner. Can also be
	used to software upgrade.
USB port 2:	Standard USB connector, can be connected
	to PC computers.
Analogy Import/	
export socket:	Reserved function
Networt socket:	RJ45 socket, can be connected to internet



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Specifications

Size and Weight

Size: Weight:

4.2 ka

360 x 276 x 130 mm (W H D)

Display Type:

8", 800x480 TFT LCD touch screen

Power Supply

Input voltage: Input power: Earth leakage current: Standard:

AC:100V~240V, 50/60 Hz 100 VA <0.3 mA Comply with IEC 60601-1 and IEC 60601-1-2

Battery

Type: Rechargeable lithium-ion battery Rated Voltage: 11.1V 4400 mAH Capability: Operating Time: Used continously for 5 hours (print 500 shares of cardiogram) Indication of battery

With

capability:

Input/Output Specification

Keyboard: USB keyboard Standard touchscreen connector (4 lines) RJ-45 (one) TCP/IP; Web function Network connector: 1x USB Host connects scanner & printer **USB-Connector:** 1x USB Device connects PC Computer SD-Card: SD Card (optional)

Data Storage

800 groups of ECG data Fixed Memory: **Optional Memory:** Flash, SD card or U disk Storage mode: Background storage automatically PDF, DAT, DICOM, FDA-XML, JPEG Storage format:

Measure and Diagnosis of ECG Waveform

HR range: 30bpm - 300bpm HR precision: ± 1bpm (10s average) Coefficient error: ≤5%, 0,333 Measure info of ECG waveform: P time limit, PR interphase, QRS time limit, QT interphase, QTC interphase, RV5swing, SV1swing, RV6swing, SV2swing, RV5-SV1swing, Paxis, QRS acis, Taxis Diagnosis analyze: \geq 140 kinds

Enviromental Specifications

Operating Temperature: 5°C ~ 40°C 25% ~ 95% (non condensing) Relative humidity: 700hPa ~ 1060hPa Atmospheric pressure: Transportation and storage -20°C ~ +55°C Temperature: 25% ~ 95% (non condensing) Relative humidity: Atmospheric pressure: 500hPa ~ 1060hPa

Recorder

Recording way:	Thermal dot array
Horizontal resolution:	40 dots/mm
Vertical resolution:	8 dots/mm
Recording speed:	5mm/s, 6.25mm/s, 10mm/s, 12.5mm/s, 25mm/s,
	50mm/s, error: ±3%
Record width;	215mm (the effective record width of the device
	is 210mm)
Paper:	210mm x 140mm x 20m (Z type)
Paper type:	Folded thermosensitive printing paper
Recording type:	more than 10 kind of printing methods
	(Auto:3x4, 3x4+1R, 3x4+3R, 6x2, 6x2+1R,12x1,
	12x1_V6; Manual: 3 path, 6 path, 12 path;
	Rhythm: single-lead, three-lead, R-R: R-R)

Display of ECG Collection

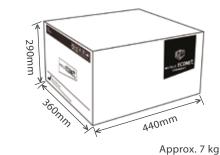
12-lead, defibrillator-proof, Pacemaker, Signal input: pulse rejection Degree of protection against electric shock: 4000VV, Type CF applied part Electrode offset potential: ±600 mV d.c. Response to frequency: 0.05Hz-200Hz (-3dB) Baseline filter: On/Off ECG filter: 25Hz, 35Hz, 45Hz, Close Lowpass filter: 75Hz, 100Hz, 150Hz, 200Hz, Close Frequency filter: Off/On Gain selection: 2.5, 5, 10,20, 40,10/5, AGC (mm/mV) ≤ 5% Gain accuracy: Time base selection: 5 mm/s, 6.25 mm/s, 10 mm/s, 12.5 mm/s, 25 mm/s, 50mm/s Input impedance: ≥50MΩ Current of input loop: ≤15n A Patients leakage curent: ≤10 µ V CMRR: ≥110dB (with AC filter open) Time for response to wave displaying: ≤5s Time for baseline recovered after

≤1s 5000V 360J Recovering time for defibrillator-proof: ≤5s Energy reduced $\leq 10\%$ Voltage transfer ≤1V Standard complied with: IEC 60601-2-25

Packaging

switching leads:

Defibrillator-proof:



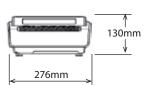
Right

Back



Dimensions

Left



Front

*** ***********



Weiterführende Informationsmedien:

Available further product information:



Image Broschüre CARDIO M-PRO Image brochure CARDIO M-PRO



Komplette Zubehörliste Complete Accessory list

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