



medical **ECONET**
GERMANY



CARDIO M-PRO

Intelligent 12-lead ECG with touchscreen

- 12, 6 and 3-channel resting ECG
- 8" LCD color touch screen
- All 12 channels can be written out one below the other or in packages (2x6, 3x4)
- Clear, high printout in DIN A4 format
- Printout of rhythm derivation for 3- and 6-channel settings
- Manual ECG monitoring or 10-second ECG memory for interpretation
- Automatic interpretation recommendation
- The interpretation function distinguishes between 25 diagnostic cases based on the Minnesota protocol

Specifications

Dimensions	
Size	360 x 276 x 130 mm (W H D)
Weight	approx. 4,2 kg
Display	
Type	8", 800 x 480 TFT LCD touchscreen
Power Supply	
Input voltage	AC: 100 V ~ 240 V, 50/60 Hz
Input power	100 VA
Earth leakage current	< 0,3 mA
Standard	Comply with IEC 60601-1 & 60601-1-2
Battery	
Type	Rechargeable lithium-ion battery
Rated Voltage	11.1 V
Capability	4400 mAh
Operating time	Used continuously for 5 hours (max. 500 shares of cardiogram)
Indication of battery capability	included
Input / Output Specifications	
Keyboard	USB keyboard
Standard touchscreen connector (4 lines)	
SD-Card	optional
Data Storage	
Fixed Memory	800 groups of ECG data
Optional Memory	Flash, SD-Card or U disk
Storage Mode	Background storage automatically
Storage format	PDF, JPEG
Measure and Diagnosis of ECG Waveform	
HR range	30 bpm - 300 bpm
HR precision	± 1 bpm (10 s. 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, P axis, QRS axis, T axis
Diagnosis analyze	≥ 140 kinds

Recorder	
Recording way	Thermal dot array
Horizontal resolution	40 dots / mm
Vertical resolution	8 dots / mm
Recording speed	5 mm/s, 6,25mm/s, 25 mm/s, 50 mm/s, Error: ±3 %
Record width	215 mm (the effective record width of the device is 210 mm)
Paper	210 x 140 x 20 mm (Z-type)
Paper type	Folded thermosensitive printing paper
Record 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	
Signal input	12-lead, defibrillator-proof, Pacemaker, pulse rejection
Baseline filter	On/Off
ECG filter	25 Hz, 35 Hz, 45Hz, Close
Lowpass filter	75 Hz, 100 Hz, 150 Hz, 200 Hz, Close
Frequency filter	On/Off
Gain selection	2.5, 5, 10, 20, 40, 10/5, AGC (mm/mV)
Gain accuracy	≤ 5%
Time base selection	5 mm/s, 6.25 mm/s, 10 mm/s, 12.5 mm/s, 25 mm/s, 50mm/s
Input impedance	≥50 MΩ
Current of input loop	≤ 15 nA
Patients leakage current	≤ 10 μV
CMRR	≥ 100 dB (with AC filter open)
Time for response to wave displaying	≤ 5 s.
Time for baseline recovered after switching leads	≤ 1s.
Defibrillator-proof	5000V 360J Recovering time for defibrillator-proof: ≤5s Energy reduced ≤10% Voltage transfer



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Im Erlengrund 16, 46149 Oberhausen - Germany

t: +49 (0) 208 377 890-0 info@medical-econet.com
f: +49 (0) 208 377 890-55 www.medical-econet.com
facebook.com/medicaleconetgermany

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