



medical **ECONET**
GERMANY

CARDIO E3 CARDIO E6

Precise multi-channel electrocardiograph device



Affordable versatile 3 and 6-channel ECG

CARDIO E3 and CARDIO E6 of medical ECONET offer a wide range of innovative solutions for diagnostic ECG acquisition.

An ECG is typically used as a baseline test for new patients or anyone showing symptoms of heart disease. In a standard 12-lead ECG, ten electrodes are placed on the patient's limbs and the surface of the chest. The overall magnitude of the heart's electrical potential is then measured from twelve different angles and is recorded over a period of time. In this way, the overall magnitude and direction of the heart's electrical depolarization is captured at each moment throughout the cardiac cycle. It's non-invasive, painless, and quick and it's considered one of the best ways to assess heart disease risk.

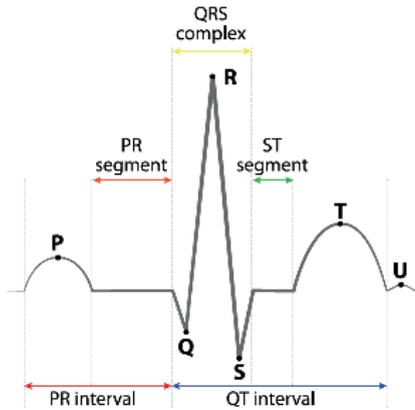
A normal ECG can be a great reassurance that your heart is functioning well and working harmoniously with your body to contribute to your good health.

Features and Benefits

- 7" high resolution foldable 800 x 480 TFT colorLCD
- Direct printing by various PCL6 compatible printers
- Built-in 4G SD card to save 10,000 ECG reports in multiple format
- Alpha-numeric keyboard and one-touch operation
- Extend printing once arrhythmia is detected
- 5 hours working time with a built-in rechargeable lithium battery
- Three operating modes: Automatic, Manual and Rhythm
- Simultaneous 12 leads ECG acquisition and display
- Simultaneous 3 leads ECG printing with 80mm thermal paper for CARDIO E3
- Simultaneous 6 leads ECG printing with 110 mm thermal paper for CARDIO E6
- Pacemaker detection
- Precise ECG auto-interpretation program
- Network transmission (optional)
- Software upgrade automatically via SD card
- Support external USB printer (PCL 6 language) to print 12 lead ECG reports
- Support linear barcode reader

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The Main Function of CARDIO E3 and CARDIO E6

A standard 12-lead electrocardiogram, also known as an ECG, is one of the standard tests used to measure the electrical activity of the heart muscle. It's non-invasive, painless, and quick (it usually only takes five to ten minutes) and also provides information about heart muscle damage, types and kinds of arrhythmias (abnormal heart rhythms), and signs of a heart attack. It's considered one of the best ways to assess heart disease risk.

An ECG is typically used as a baseline test for new patients or for anyone showing symptoms of heart disease. While the average person doesn't need to undergo the procedure very often, those who smoke, have high cholesterol or have a family history of heart disease should consult with their doctor to see how often they should get tested.



CARDIO E6



Standard 12 channel

Efficient and User-centered Design

- CARDIO E3 and CARDIO E6 are equipped 7" Color TFT LCD (800X480) display and alpha-numeric keyboard.
- The carrying handle provides mobility enabling you to take fetal monitoring where you need it.
- The recording paper is 80 mm in width, the clearly printed reports include ECG measurement data, patient ID, sex, age, etc.
- Up to 10,000 ECGs can be saved in the built-in SD card. User can export data in various standard file format (PDF, JPG, XML, BMP, DICOM)
- The device can operate for up to 5 hours with a lithium-ion battery.

Extendible and Advanced Functions

- Standard 12-lead ECG measures the overall magnitude of the heart's electrical potential from twelve different angles and records over a period of time.
- ECG auto-interpretation improves the correct interpretation of the ECG, facilitating health care decision making and reducing costs.
- Manual mode: Users can select lead group need to be recorded. AUTO mode: The lead groups switch automatically. Rhythm mode: Users can select rhythm lead group and record its rhythm waveforms.
- This device can detect whether there is a pacemaker or not.

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Specifications

Dimension

Size: 310 (W) x 244 (D) x 65 (H) mm
Weight: Approx. 2.1 kg

Display

Type: 7" color LCD screen, 800 x 480 pixels
Indicator: Paper Out, Lead Off Alarm, Operation Manual, Patient Information, Battery, Volume, Date and Time, Heart Rate, Working Mode, Paper Speed, Gain, Filter

Main Machine

Lead: Standard 12 leads
Measurement Parameter: HR, PR interval, QRS duration, QT/QTc, R/QRS/T electric axis, RV5/SVI amplitude
Input method: Floating Ground input with defibrillator protection
Recording mode: - Manual Mode (Manual 1, Manual 2, Manual 3, Manual 6, Manual 12)
- Rhythm Mode
- Auto Mode (3CHx4, 3CHx4+1R, 3CHx4+3R, 6CHx2, 6CHx2+1R, 12CHx1)
Filter: - AC Filter: 50 Hz /60 Hz/ Off
- EMG Filter: 20Hz/25Hz/30Hz/35Hz/40Hz/45Hz/ Off
- DFT Filter: 0.05Hz/ 0.15Hz/ 0.25Hz/ 0.32Hz/ 0.5Hz/ 0.67Hz/ ADS/ Off
Input circuit current: $\leq 0.1 \mu\text{A}$
Input impedance: $\geq 50 \text{ M}\Omega$ (10 Hz)
Patient leakage current: $< 10 \mu\text{A}$
Time constant: $\geq 3.2 \text{ s}$
Frequency response: 0.05 Hz to 150 Hz (-3 dB)
Noise level: $\leq 15 \mu\text{Vp-p}$
Standard sensitivity: $10 \text{ mm/mV} \pm 0.2 \text{ mm/mV}$
Sensitivity: 2.5 mm/mV, 5 mm/mV, 10 mm/mV, 20 mm/mV, Tolerance $\pm 5\%$
Internal calibration voltage: $1 \text{ mV} \pm 5\%$
Polarization voltage: $\pm 300 \text{ mV}$
CMRR: $> 98 \text{ dB}$

Recorder

Type: Thermal matrix printing
Resolution: $\geq 8 \text{ dots/mm}$ (Vertical)
 $\geq 32 \text{ dots/mm}$ (25 mm/s),
 $\geq 16 \text{ dots/m}$ (50mm/s) (Horizontal)
Record speed: 5mm/s, 6.25 mm/s, 10mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s
Recording Paper: EM-601: 110mm width rolled paper
EM-301: 80mm width rolled paper

Others

Leads: Standard 12 leads with defibrillator protection
Safety level: Class I, CF Type
Fuse: 2- ϕ 5x20 mm AC Time-delay Fuse T1 A/250 V

Power

Requirements: 100~240 V, 50/60Hz, 30 VA~100 VA
Output: DC +14.8 V / 2200 mAh
Battery: Built-in rechargeable lithium battery

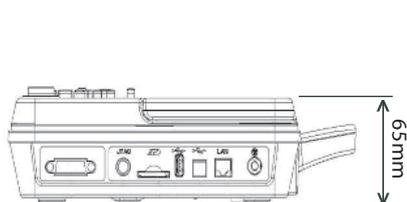
Environment Conditions

- Storage**
 Temperature: $-20 \text{ }^\circ\text{C}$ to $50 \text{ }^\circ\text{C}$
 Relative humidity: 25% to 95%
 Atmospheric pressure: 500 hPa to 1060 hPa
- Usage**
 Temperature: $+5 \text{ }^\circ\text{C}$ to $40 \text{ }^\circ\text{C}$
 Relative humidity: 25% to 80%
 Atmospheric pressure: 700 hPa to 1060hPa

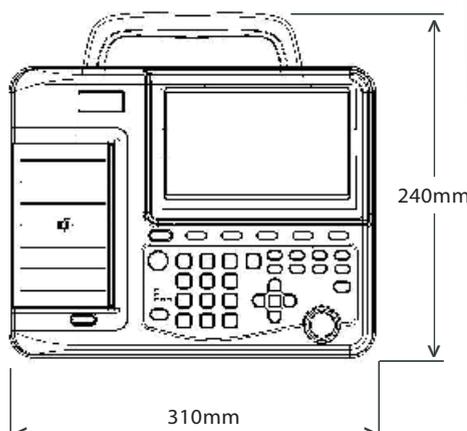
Accessory

Standard:	10-lead ECG patient cable	1 ea
	Limb electrodes (4pcs / pack)	1 ea
	Chest electrodes (6pcs / pack)	1 ea
	Paper	1 ea
	Gel	1 ea

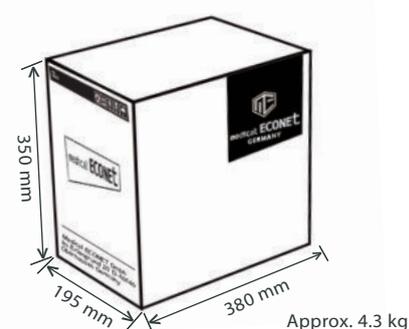
Right side



Top



Packaging



Accessory Information



ECG Cable Banana Type



ECG Cable Clamp Type

for disp. electrodes



Chest Electrodes

for adult, 6pcs / pack

31.10-2055



Chest Electrodes

for pediatric, 6 pcs / pack

31.10-2056



Limb Electrodes

4 pcs / pack

31.10-2054



Adapter for Disposable Electrodes

10 pcs / pack

31.10-2039



Disposable Electrodes

30 pcs / pack

70.10-3700



Roll Paper

Width: 80 mm



Mouthpieces

100 pcs / box

70.10-3030



Rechargeable Battery

36.11-4101



Mobile Cart

with basket

31.10-3018



ECG Cable Arm

cable hanger

31.10-2041

