

A close-up photograph of a person's hands holding a white digital ECG device. The device has a small screen displaying a heart rate line and the text "Digital Single Channel ECG". A red heart rate line graphic is overlaid on the image, connecting the hands to the device. The background is a soft, out-of-focus white.

A digital single channel ECG device, likely a portable ECG monitor. It features a small LCD screen displaying a heart rate reading of 102 bpm and a waveform. Below the screen is a keypad with various function buttons (Power, Mode, Stop, Print, Memory, Exit, Setup, Print, P1-100) and a central 'SET' button. The device is white and compact, with a small printer output on the left side. A warning label is visible on the left side of the device.

ADD: No.112 Qinhuang West Street, Economic & Technical Development Zone,
Qinhuangdao, Hebei Province, PEOPLE'S REPUBLIC OF CHINA
Tel : 0086-335-8015430
Fax : 0086-335-8015588
E-mail : cms@contecmed.com.cn contec88@gmail.com
Website : <http://www.contecmed.com>

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ECG100G is a kind of single channel electrocardiograph, which features in printing ECG waveform by thermal printing system, prompting for "Lead off" or "Lack of paper", multi-language interface, recording ECG waveform in AUTO/Manual mode, convenient to operate.

Function

- ◆ Adopt digital signal processing technology and get high-quality ECG waveform via power frequency filter, baseline filter and EMG filter of ECG signal.
- ◆ Adopt high-resolution thermal printing system(8 dot/mm), no need for any adjustments. Recording frequency: up to 150Hz.
- ◆ Real-time and continuously record the clear and accurate ECG waveform and annotation character(including lead mark, sensitivity, paper speed and filter state, etc.).
- ◆ In AUTO mode, finish recording by pressing the button once, which improves work efficiency.
- ◆ Multi-language (Chinese, English, French, Italian, German, Spanish and Turkish) interface and report.
- ◆ In optimal DC state, up to 7-hour standby time, continuous print up to 4-hour, record up to 150 ECG waveform.

Accessories

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|---|---|
| <ul style="list-style-type: none"> ◆ Standard: A lead cable A limb electrode A chest electrode A thermal recording paper A power cord An earth wire A user manual | <ul style="list-style-type: none"> ◆ Optional: ECG electrode Bag Conductive gel |
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Physical characteristic

- ◆ Working environment
 - Temperature: 5°C~40°C
 - Relative humidity: 25%~95%(non-condensing)
 - Atmospheric pressure: 700hPa~1060hPa
- ◆ Transport and storage environment
 - Temperature: -40°C~+55°C
 - Relative humidity: ≤95%
 - Atmospheric pressure: 500hPa~1060hPa
- ◆ Dimension: 315mm(L) × 215mm(W) × 77mm(H)
- ◆ Weight: 1.5Kg

Performance

- ◆ Input mode: floating and defibrillation protection
- ◆ Frequency response: 0.05Hz ~ 150Hz(-3dB~+0.4dB)
- ◆ CMRR: >60dB, >100dB(add filter)
- ◆ Time constant: ≥ 3.2s
- ◆ Patient leak current: <10μA
- ◆ Calibration voltage: 1mV
- ◆ Sensitivity:
 - 5, 10, 20 mm/mV ±5%, standard sensitivity: 10mm/mV±2%
- ◆ Noise level: ≤15μVp-p
- ◆ Input circuit current: ≤50nA
- ◆ Input impedance: ≥50MΩ
- ◆ Sampling accuracy: 12-bit
- ◆ Safety classification:
 - class I, type CF and defibrillation-proof applied part
- ◆ Recording mode: thermal printing system
- ◆ Paper size: 50mm(W)×20m(L)
- ◆ Sampling frequency: 800Hz
- ◆ EMG interference filter: 35Hz (-3dB)
- ◆ Power frequency filter: AC 50Hz/60Hz(-20dB)
- ◆ Paper speed: 25, 50mm/s, ±5%
- ◆ Power supply:
 - AC: 100V~240V(50/60Hz)
 - DC: 7.4V/2000mAh rechargeable lithium battery
- ◆ Fuse specification: two AC time lag fuse(φ5×20mm), T1.6AL250V
- ◆ Waterproof degree: IPX0
- ◆ Working mode: continuous working

Selling points analysis

- ◆ Record single-channel ECG waveform and annotation continuously.
- ◆ AC/DC, built-in rechargeable lithium battery.
- ◆ ◆ In optimal DC state, up to 7-hour standby time, continuous print up to 4-hour, record up to 150 ECG waveform.
- ◆ Print the ECG waveform by the high-resolution thermal printing system.
- ◆ Display waveform clearly and accurately by STN-LCD.
- ◆ Multi-language interface.