



HW-EM103

12-CHANNEL ECG



Healthward[®]

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HW-EM103

FEATURES AND HIGHLIGHTS

Printing system

High-resolution thermal array printing, with adjustable print density of 1-10 levels, producing realistic and delicate waveform and character effects. Suitable for capturing ECG waveforms of adults, children, and newborns.

Baseline stability detection ensures that neat and beautiful ECG waveforms are printed every time.

Prints on 215mm thermal paper, with clear and accurate records of uncompressed ECG waveforms of three, six, and twelve leads, lead labels, sensitivity, paper speed, filter settings, analysis reports, and other information, which can be used for clinical diagnosis and research.

Other Features

Automatic mode can automatically adjust the waveform sensitivity, and the recording time for each set of leads can be set between 3 to 12 seconds.

Baseline width

The baseline width can be adjusted from level 1 to 4, allowing for the creation of neat and beautiful ECG waveforms according to personal preference.

Technical parameters

▪ Product weight	GW: 6kg, NW: 3.5kg
▪ Leads	standard 12 leads
▪ Sampling rate	14 bits/1000Hz (12-lead synchronous acquisition)
▪ Printing paper specifications	215mm*25mm
▪ Paper speed	6.25mm/s, 12.5mm/s, 25mm/s, 50mm/s (±3%)
▪ Sensitivity	10mm/mV (AUTO), 2.5mm/mV, 5mm/mV, 10mm/mV, 20mm/mV
▪ Common Mode Rejection Ratio	≥100dB (with AC filter)
▪ Input loop current	≤0.1μA
▪ Translation: Patient leakage current	<10μA
▪ Calibration voltage	1mV ± 2%
▪ Polarization resistance voltage	≥±500mV
▪ Time constant	≥3.2s
▪ Frequency response	1Hz~150Hz
▪ Noise level	<15μVp-p
▪ Sensitive threshold	≤20μV
▪ Interference between channels	≤0.5mm
▪ Data storage	Comes with 20 default storage capacity; optional large capacity memory can store up to 10100 cases.



Shell material

Brand new ABS engineering plastic mold injection molding.

**Handle**

Retractable handle design, comfortable to hold and easy to store.

**Power supply**

Dual-use AC/DC power supply, built-in rechargeable lithium battery

**Internal structure**

Adopting aluminum-magnesium alloy bracket, stable and reliable, with good shock resistance and easy to move.

**Design**

The appearance design is simple and elegant, light and easy to carry, and has complete functions.

**Data interface**

Built-in USB interface, supports direct insertion of USB flash drive to copy data; can convert ECG data into images in batches and upload them to USB flash drive for viewing and printing directly by connecting to a computer and printer.

**Screen design**

The 7-inch color LCD liquid crystal display shows waveform, menu (paper speed, gain, filter status, etc.), patient information (ID number, name, gender, age), and working status. The brightness of the LCD display screen can be adjusted to 1-8 levels, suitable for use in various lighting conditions.

**Operation interface**

The operation interface is available in both Chinese and English. The display can be set to show 3/6/12 leads simultaneously, and the grid and waveform size can be adjusted on the screen for easy observation by medical staff. The device can record 1 lead, 1+ rhythm, 3 leads, 6 leads, and 12 leads in both manual and automatic modes.

**Keypad**

High-quality silicone full keyboard keys with a long lifespan and good tactile feel. Supports full keyboard patient information and hospital name input in both Chinese and English, with quick switching between uppercase and lowercase.



As the circumstance of printing, the photos might have minor difference on color, tactile from real products.
As the update of design and improvement, parameters and outlook of products might change, thanks for understanding.

Healthward



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General catalogue