



The Contec ECG1212G is a 12-channel digital electrocardiograph with a 10.1-inch full-touch colour LCD, simultaneous 12-lead and Cabrera-lead display, automated measurement and analysis, and onboard storage for up to 4,000 cases. It operates on AC or built-in rechargeable battery and connects to a PC via USB for real-time data transmission and remote reporting.

Focus Keyphrase: Contec ECG1212G 12-channel electrocardiograph

Short Description:

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connects to a PC via USB for real-time data transmission and remote reporting.

Long Description:

10.1-Inch Colour Touch Screen with 12-Lead and Cabrera-Lead Display

The ECG1212G is built around a 10.1-inch high-resolution colour LCD with a full-touch interface supplemented by function buttons, offering a larger and more clinically detailed view than entry-level ECG systems. The screen simultaneously displays 3, 6, or 12 leads together with HR value, print mode, sensitivity, paper speed, filter state, clock, battery level, and background grid — all on one screen. Uniquely, the ECG1212G also supports Cabrera-lead waveform display alongside the standard 12-lead format, which is relevant in cardiology settings that follow the Cabrera convention for reporting. The built-in virtual keyboard supports both Chinese and English character input, enabling complete patient data capture directly on the device.

Advanced Signal Processing and 4,000-Case Internal Memory

The ECG1212G captures 12-lead ECG signals synchronously using digital isolation technology, power frequency filtering (50/60 Hz), baseline filtering, and EMG interference filtering (25/35 Hz). The frequency response spans 0.05 Hz to 165 Hz (-3 dB), input impedance is $\geq 50\text{ M}\Omega$, CMRR exceeds 100 dB, and noise level is maintained below 15 $\mu\text{Vp-p}$ with a 1000 Hz sampling rate and >12-bit A/D conversion. Automated measurement, analysis, and interpretation are provided for all routine ECG parameters. Internal memory stores a minimum of 4,000 cases — four times the capacity of the ECG1200G — supporting high-volume clinical environments where long-term local case retention is required. Historical cases can be reviewed, searched, modified, lead-corrected, and reprinted directly from the device.

Battery Portability, Multiple Print Modes, and PC Integration

The ECG1212G operates on AC mains or its built-in rechargeable lithium battery, providing up to 10 hours of standby time and more than 3 hours of continuous printing — sufficient for full-day clinic sessions or home-visit rounds without recharging. The thermal printer supports multiple printing modes and formats including auto, rhythm, and manual, with printed output including time, paper speed, sensitivity, calibration signal, lead names, filter state, and patient information. USB

connectivity and ECG-Sync software enable real-time waveform streaming to a PC for remote analysis, specialist review, electronic case management, and report printing. The ECG1212G is CE and ISO 13485 certified.

Technical Specs Table:

Specification	Value
Model	ECG1212G
Brand	Contec
Display	10.1-inch high-resolution colour LCD (full touch)
Lead Display	3/6/12-lead simultaneous; Cabrera-lead supported
Sampling Rate	1000 Hz
A/D Conversion	>12-bit
Frequency Response	0.05 Hz – 165 Hz (-3 dB)
Input Impedance	$\geq 50 \text{ M}\Omega$
CMRR	>100 dB
Noise Level	<15 $\mu\text{Vp-p}$
Patient Leakage Current	<10 μA
Calibration Voltage	1 mV $\pm 2\%$
Polarisation Voltage Tolerance	$\pm 500 \text{ mV}$
EMG Filter	25 Hz / 35 Hz (-3 dB)
AC Filter	50 Hz / 60 Hz
Internal Memory	$\geq 4,000$ cases
Battery Life	$\leq 10 \text{ h}$ standby; >3 h continuous print
Power	AC / DC (built-in rechargeable lithium battery)
Connectivity	USB (ECG-Sync PC software)
Certifications	CE, ISO 13485

SKU: VM-ECG1212G