

# ECG-C12B

## ECG Machine

### (12 Channel)



### Introduction

The ECG-C12B is an advanced and reliable ECG machine helping clinicians make fast and accurate ECG diagnosis. It is configured with color screen, alphanumeric keyboard, high accuracy thermal printing system and big capacity battery power supply, with multi working modes and rich menu setting to improve using experiences. This machine can analyze over 200 kinds of abnormal ECG. It can be widely used in various medical institutions or occasions.

### Product Features

#### Sampling and Interpretation

- Acquisition and record standard 12 lead ECG simultaneously (I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6).
- High accuracy AC filter, EMG filter and base line anti-drift filter. Automatic base line adjustment.
- Accurate pulse pace identification function.
- Excellent auto-interpretation function can identify and analyze over 200 kinds of abnormal ECG. (Analysis data base: Minnesota Code).

#### Record

- 8 dots, high resolution thermal printing.
- Four working modes: Auto, Manual, Rhythm, Exam. to meet different clinical requirements.
- Recording format: 6chx2+R, 6chx2+3R, 9chx1, 12chx1
- Printing paper size: 210mmx30m, roll paper. (Thermal paper without grid is also available.)

### Patient Information and File Management

- With alphanumeric keyboard, very easy to input and edit patient information.
- Can record detailed patient information, including name, ID, age, gender, nation, medical card number and hospital name.
- Can store, replay and edit 400 ECG cases with internal memory card.
- Patient ECG report can be transferred to external USB disk.

### Display and Keypad

- 800x480 graphic, 7inch color LCD to display detailed ECG waveform and working status. (Display ECG waveform, patient information, sensitivity, paper speed, filter, date and time, heart rate, battery status, paper status and etc.)
- Soft silicon alphanumeric keyboard to operate and input information.
- One-key operation to support fast ECG examination.

### Power Supply

- Rechargeable built-in Li-ion battery, 2200mAh, 14.4V, support to continuously work about 9 hours or 18 hours.
- Fast charging design, about 2.5 or 4.5 hours to charge full.
- Adapt for power supply of 110-230V, 50/60Hz.

### Physical Design

- Compact and ergonomic design, easy to carry and operate.
- Small size and light weight, very convenient for mobile diagnostics.
- Measurement: 347mmx293mmx83mm, 4.8kgs.

### Communication

- With UART and USB communication port.
- Support transferring ECG files to external USB disk. Uses can manage the ECG files in computer.
- Support connecting to bar-cold scanner to scan patient code.

### Accessories



### Technical Specifications

PARAMETER	SPECIFICATION
Lead	Standard 12 leads
Lead acquisition	Synchronously 12 leads acquisition
Work mode	Manual / Auto / Rhythm / Eaxm.
Filter	AC Filter: 50Hz / 60Hz EMG Filter: 25Hz / 45Hz Anti-Drift Filter: 0.15Hz (Adaptive)

CMMR	$\geq 120\text{dB}$ ( with AC filter )
Input circuit	Floating; Protection circuit against defibrillator effect
Input Impedance	$\geq 50\text{M}\Omega$
Input circuit current	$\leq 0.05\ \mu\text{A}$
Patient current leakage	$< 10\ \mu\text{A}$
Calibrating voltage	$1\text{mV} \pm 2\%$
Voltage tolerance	$\geq \pm 500\text{mV}$
Time constant	$\geq 3.2\text{s}$
Frequency response	$0.05 \sim 160\text{Hz}(-3\text{db})$
Noise level	$< 15\ \mu\text{Vp-p}$
Inter-channel Interference	$\leq 0.5\text{mm}$
Sensitivity	5, 10, 20, 40, Auto (mm/mV)
Recording mode	6chx2+R, 6chx2+3R, 9chx1, 12chx1
Paper speed	12.5, 25, 50mm/s (+/-3%)
Recording paper	210mmx30m high resolution thermal roll paper
Display	7inch color LCD
Internal memory	400 patient cases storage
Communication port	USB, UART
Power Supply	AC 75-265V ( $\pm 10\%$ ), 50/60Hz, 60VA DC Rechargeable Li-ion battery, 14.4V, 2200mAh or 4400mAh
Dimension/Weight	347mmx293mmx83mm, 4.8kgs.



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