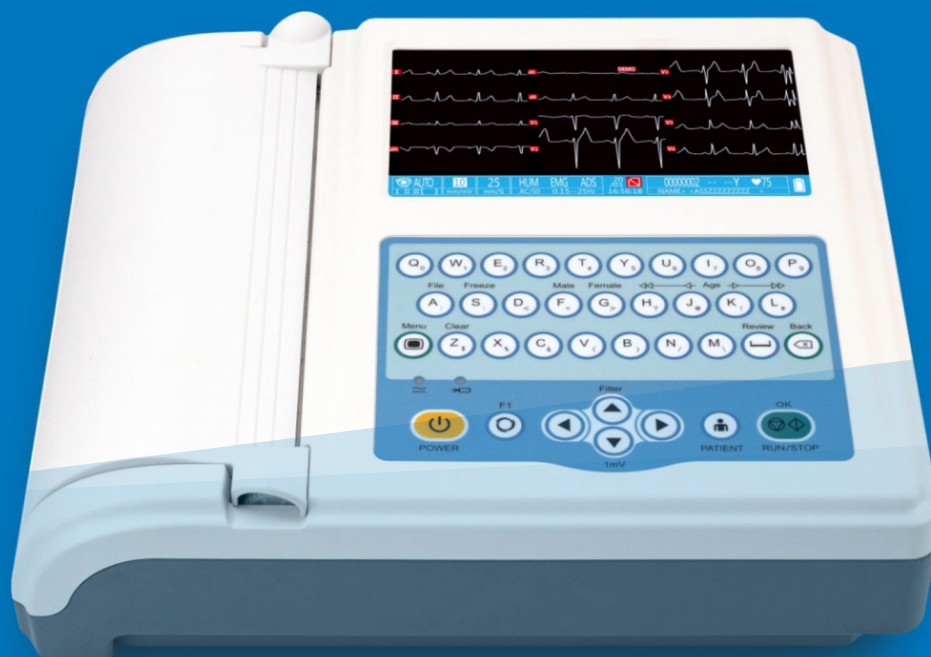


# Electrocardiograph

## 12 Channel



This is a reliable and classical **12 channel** electrocardiograph, helping clinicians make fast and accurate ECG diagnosis. It can be widely used in various medical institutions or occasions. The friendly configuration and practical design provides users with very good using experience.

### DIAGNOSIS

Fast and accurate ECG diagnosis for adult and pediatric patient.

### OPERATION

Ergonomic design, rich menu setting and good usability.

### PERFORMANCE

Stable performance, durable and reliable, with good market history.

### ANALYSIS

Auto interpretation, can analyze over 200 types of abnormal ECG.

### DATA MANAGEMENT

Practical data transmission function, external USB flash disk storage.

### POWER SUPPLY

Low-power consumption design and long battery working time.

China Care Medical Equipment Co.,Ltd  
Address:Room B101, Zhongbang Business Building, PuXing Road  
No. 87, Tianhe, Guangzhou,  
China web: [www.chinacaremedical.com](http://www.chinacaremedical.com)

- **Sampling and Analysis**

Acquisition and record standard 12 lead ECG simultaneously ( I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6 ).  
Sampling rate 32000Hz.  
High accuracy digital filter system. Automatic base line adjustment.  
Accurate pulse pace identification function.  
Excellent auto-interpretation function can analyze over 200 types of abnormal ECG for reference. ( Analysis data base: Minnesota Code ).

- **ECG Record**

High resolution thermal printing system.  
Four working modes: Auto, Manual, R-R, Store, to meet different clinical requirements.  
Recording format: 3chx4+3R, 6chx2, 6chx2+R, 12x1 and 1 minute of rhythm lead record.  
Printing paper size: 210mmx30m, roll paper or 210mmx140mm z-fold paper.

- **Patient Information and File Management**

With alphanumeric keyboard, very easy to input and edit patient information.  
Can record detailed patient information, including name, ID, gender, age, height, weight, blood pressure and hospital name.  
Can store, replay and edit 250 ECG cases with internal memory card.  
Patient ECG report can be transferred to external USB disk ( optional ).

- **Display and Keypad**

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

- **Power Supply**

Rechargeable Lithium battery, 4400mAh, 14.4V, support to continuously work about 18 hours.  
Low-power consumption and fast charging design, about 4.5 hours to charge full.  
Automatic voltage regulation design, adapt for power supply of 110-230V, 50/60Hz.

- **Physical Design**

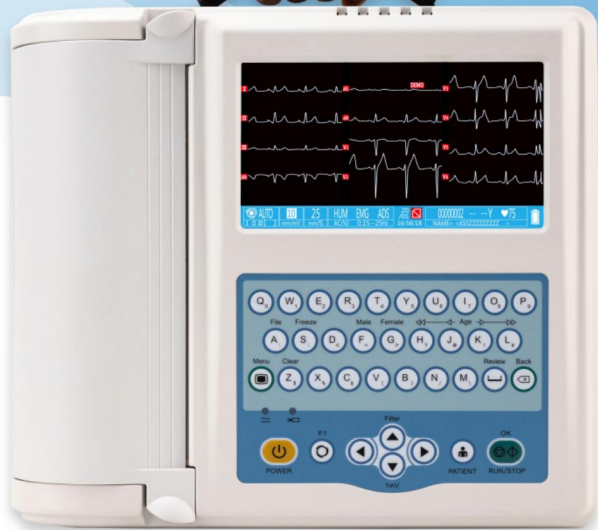
Compact and ergonomic design, easy to carry and operate.  
Proper size and proper weight, very convenient for mobile diagnostics.  
Measurement: 310mmx278mmx76mm, 3.0kgs.

- **Interface and Communication**

With UART and USB communication port.  
Support transferring ECG files to external USB disk for storage (optional).  
Support connecting to computer to manage ECG data with PC ECG Management Software. (optional).

## Technical Specification

<b>Main Unit</b>	Lead	Standard 12 leads ( I, II, III, aVR, aVL, aVF, V1 to V6 )
	Lead acquisition	12 leads synchronously acquisition
	Sampling rate	32000Hz
	Working mode	MAN, AUTO, R-R, STOR
	Filter	AC Filter: 50Hz / 60Hz / Off EMG Filter: 25Hz / 45Hz / Off
	CMRR	≥120dB (with AC Filter)
	Input circuit	Floating; Protection against defibrillator effect
	Input impedance	≥2.5MΩ (10Hz)
	Patient current leakage	<10μA
	Frequency response	0.05-150Hz (-3dB)
	Calibrating voltage	1mV±5%
	Sensitivity	2.5, 5, 10, 20, 40, mm/mV (±3%), Auto
	Paper feeding speed	6.25, 12.5, 25, 50mm/s(±3%)
	Accuracy of data	<±5% or <±40μV
	Time constant	≥3.2s
	AD conversion	12 bits
	Inter-channel interference	<2%
Noise level	<30μ Vp-p	
HR detection range	30-300 BPM (±1BPM)	
<b>Pacing Pulse Identification</b>	Amplitude	2mV-250mV
	Width	0.1ms-2.0ms
	Sampling rate	4000Hz/Channel
<b>Recorder</b>	Recording way	Thermal dot matrix recording
	Recording format	3chx4+3R, 6chx2, 6chx2+R, 12chx1, 1 minute rhythm lead record
	Paper specification	210mmx30m, roll paper
<b>Others</b>	LCD display	800x480 graphic 7 inch color LCD
	Patient cases storage	250 patient cases ( Internal SD card is optional )
	Communication interface	UAB, UART
	AC power supply	110-230V (±10%), 50/60Hz (±1Hz), power 60VA
	DC power supply	Rated voltage/capacity: 14.4V / 4400mAh, Lithium battery Rated charging current: 1300mA (constant voltage and current)
	Fuse specification	Rated charging cycle number: not less than 500 times
<b>Environment</b>	Working Environment	Ambient temperature: +5°C ~ +40°C
		Relative humidity: 25% to 80% (no condensation) Atmospheric pressure: 700hPa ~ 1060hPa
	Storage Environment	Ambient temperature: -20°C ~ +55°C Relative humidity: 25% to 93% Atmospheric pressure: 700kPa~1060kPa



## Standard Packages

* ECG Machine	1 unit
* Patient Cable	1 pc.
* Limb Electrodes (4pcs./set)	1 set
* Chest Electrodes (6pcs./set)	1 set
* Power Cable	1 set
* Grounding Cable	1 pc.
* Paper Axis	1 set
* Thermal Paper (210mmx30m)	1 pc.
* Fuse	2 pcs.
* User Manual	1 pc.

## Optional Functions

- Use the PC ECG Management Software to manage ECG date on computer ( acquisition of real-time ECG, edit, import, save, print and transfer ECG report, VCG examination and etc. ).
- Transfer ECG data to USB disk for storage, then upload data to computer for management.
- Connect to a bar-code scanner to scan patient ID.

