Neo ECG S120
ECGTablet

Technical Specification

Main unit	HR range	30bpm~300bpm
	Accuracy	±1
	Leads	9,12 lead synchronous acquisition
	A / D conversion	24 bits
	Sampling rate	32000 samples/Sec
	Common mode rejection ratio	≥140dB (AC filter on) ≥120dB (AC filter off)
	Time constant	≥5s
	Frequency response	0.01HZ～350HZ (+0.4db-3.0db)
	Sensitivity	Auto, 2.5mm/mV, 5 mm/mV, 10 mm/mV, 20 mm/mV, 40 mm/mV, less than ±5% error
	Filter	AC filter: 50Hz, 60Hz, Off
		EMG filter: 25Hz, 35Hz, 45Hz, Off
		ADS filter: 0.01 Hz, 0.05 Hz, 0.32 Hz, 0.67 Hz
		Low pass filter: 75Hz,100Hz,150Hz,300Hz,Off
	Paper speed	5mm/s, 6.25mm/s, 10mm/s, 12.5mm/s, 25mm/s and 50mm/s, less than ±3% error
	Input Impedance	≥100MΩ (10Hz)
	Input Circuit Current	≤10nA
	Calibration voltage	1mV±2%
	Depolarization voltage	±900mV, ±5%
	Noise	≤12.5µV
	Amplitude quantisation	0.95 µV/LSB
	Recovery time after defibrillation discharge	<10s
	Pacer pulse display	Pacing pulse with amplitude of ±2mV~±700mV, duration of 0.1ms~2.0ms, A-5 rise time of less than 100µs, and frequency of 100/min can be displayed on the ECG recording.
	Minimum detectable signal	20µVp-p
Size & Weight	7" Tablet	Size: 197mm(L) * 112.4mm(W) * 26.1mm(H) Net Weight: 0.8Kg
Analysis algorithm	Glasgow	

Neo ECG S120
ECGTablet

TED MEDICAL
Builds Future
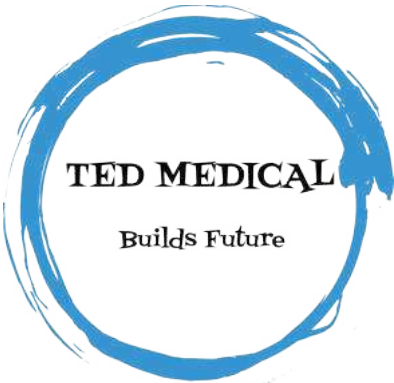
Neo ECG S120
ECGTablet

AI-ECG PLATFORM

AI-ECG Platform is an artificial intelligence (AI) electrocardiogram (ECG) assisted analysis and diagnosis system independently developed by Lepu Medical.

* High Accuracy Rate

Test by 50,000,000 training data and 1,000,000 independent measured data,the average accuracy rate of AI-ECG platform reach 95.2%.

* High Analysis Speed

Take 1s for automatically resting ECG analysis. The time saved can reduce the overall time of clinical ECG analysis.
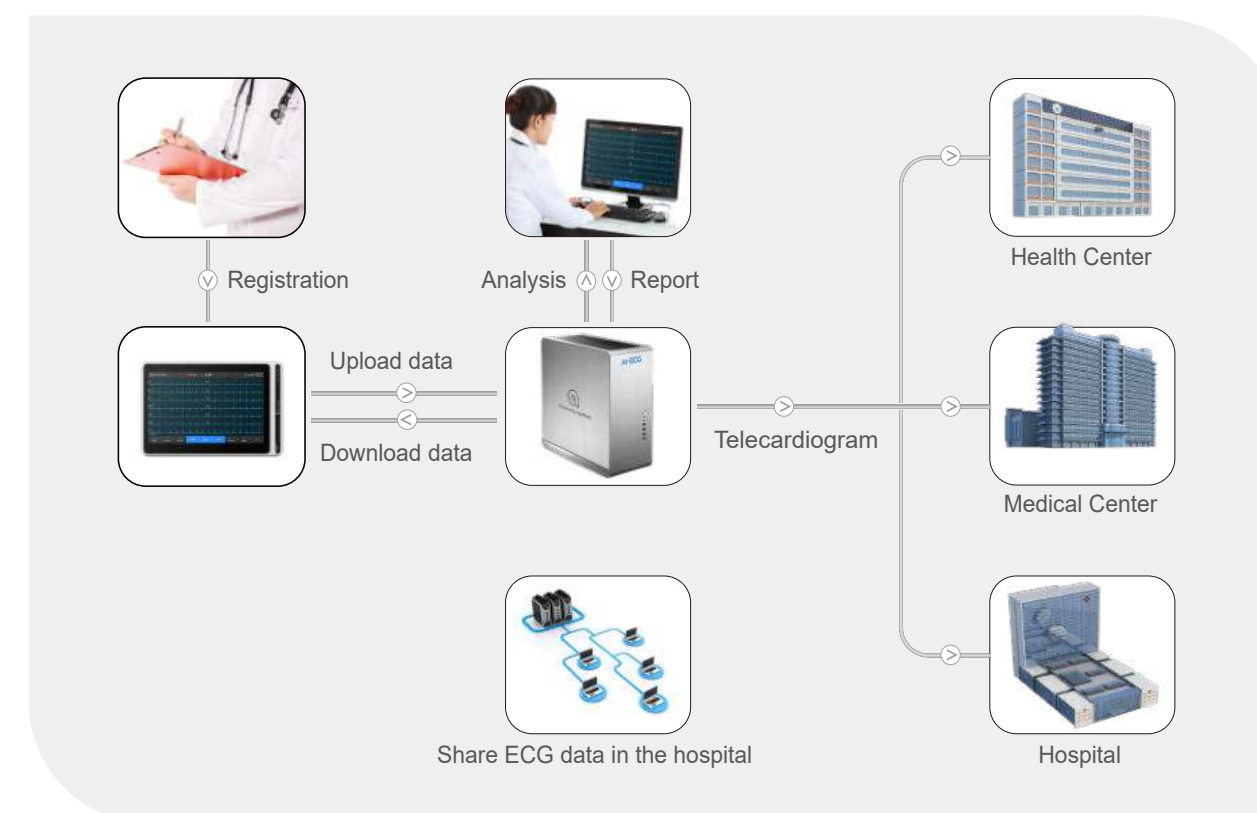
* Comprehensive Diagnosis

Support 16 types of cardiac classification, 104 types of ECG diagnostic classifications.

Function Features

* 7" high resolution color touch screen, easy to operate.Portable design, compact in size.
* Can be powered by an external DC power supply, a built-in rechargeable lithium battery.
* Support synchronous acquisition and display of 9/12-lead waveform, as well as heart rate detection.
* Support automatic pacing detection and marking.
* Support auto, RR analysis, HRV, medicine test, ECG event mode.
* Provide 4 sampling modes: pre-sampling, real-time sampling, periodic sampling and trigger sampling.
* Input patient information via virtual alphanumeric keyboard and barcode scanning.
* Freeze the ECG waveform on the screen.
* Output files in multiple formats, such as Carewell ECG, PDF, BMP, HL7, DICOM, SCP.
* Store, preview, review, edit, export, upload, print and search patient data.
* Support wireless transmission of ECG data via WiFi and mobile networks.
* Support laser printer via USB port.
* Export patient datato USB flash disk via USB connector.
* Support the user login permission control, use password or account & password authentication to use the device.
* Support online and offline login to the device, and view the historical patient data of the department according to thelogin account.
* Support connection with AI-ECG PLATFORM in achieving intelligent diagnosis (Optional).

In-hospital Solution

Registration

Analysis ∧ ∨ Report

Health Center

Upload data

Download data

Telecardiogram

Medical Center

Share ECG data in the hospital

Hospital

Neo ECG T180
ECGTablet

Technical Specification

Main unit	HR range	30bpm~300bpm
	Accuracy	±1
	Leads	9,12,15,18 lead synchronous acquisition
	A / D conversion	24 bits
	Sampling rate	32000 samples/Sec
	Common mode rejection ratio	≥140dB (AC filter on) ≥120dB (AC filter off)
	Time constant	≥5s
	Frequency response	0.01HZ～350HZ (+0.4db-3.0db)
	Sensitivity	Auto, 2.5mm/mV, 5 mm/mV, 10 mm/mV, 20 mm/mV, 40 mm/mV, less than ±5% error
	Filter	AC filter: 50Hz, 60Hz, Off
		EMG filter: 25Hz, 35Hz, 45Hz, Off
		ADS filter: 0.01 Hz, 0.05 Hz, 0.32 Hz, 0.67 Hz
		Low pass filter: 75Hz,100Hz,150Hz,300Hz,Off
	Paper speed	5mm/s, 6.25mm/s, 10mm/s, 12.5mm/s, 25mm/s and 50mm/s, less than ±3% error
	Input Impedance	≥100MΩ (10Hz)
	Input Circuit Current	≤10nA
	Calibration voltage	1mV±2%
	Depolarization voltage	±900mV, ±5%
	Noise	≤12.5μV
	Amplitude quantisation	0.95 μV/LSB
	Recovery time after defibrillation discharge	<10s
	Pacer pulse display	Pacing pulse with amplitude of ±2mV~±700mV, duration of 0.1ms~2.0ms, A-5 rise time of less than 100μs, and frequency of 100/min can be displayed on the ECG recording.
	Minimum detectable signal	20μVp-p
Size & Weight	10.1" Tablet	Size: 272.6mm(L) * 181.2mm(W) * 25.8mm(H) Net Weight: 1.2Kg
	10.1" Base	Size: 274mm(L) * 288mm(W) * 111.2mm(H) Net Weight: 2.5Kg
Analysis algorithm	Glasgow	

Neo ECG T180
ECGTablet

TED MEDICAL

Builds Future
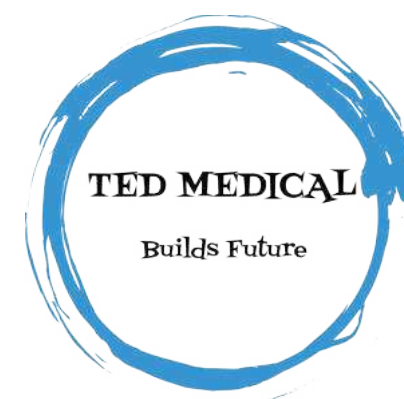
Neo ECG T180
ECGTablet

AI-ECG PLATFORM

AI-ECG Platform is an artificial intelligence (AI) electrocardiogram (ECG) assisted analysis and diagnosis system independently developed by Lepu Medical.

* High Accuracy Rate

Test by 50,000,000 training data and 1,000,000 independent measured data, the average accuracy rate of AI-ECG platform reach 95.2%.

* High Analysis Speed

Take 1s for automatically resting ECG analysis. The time saved can reduce the overall time of clinical ECG analysis.
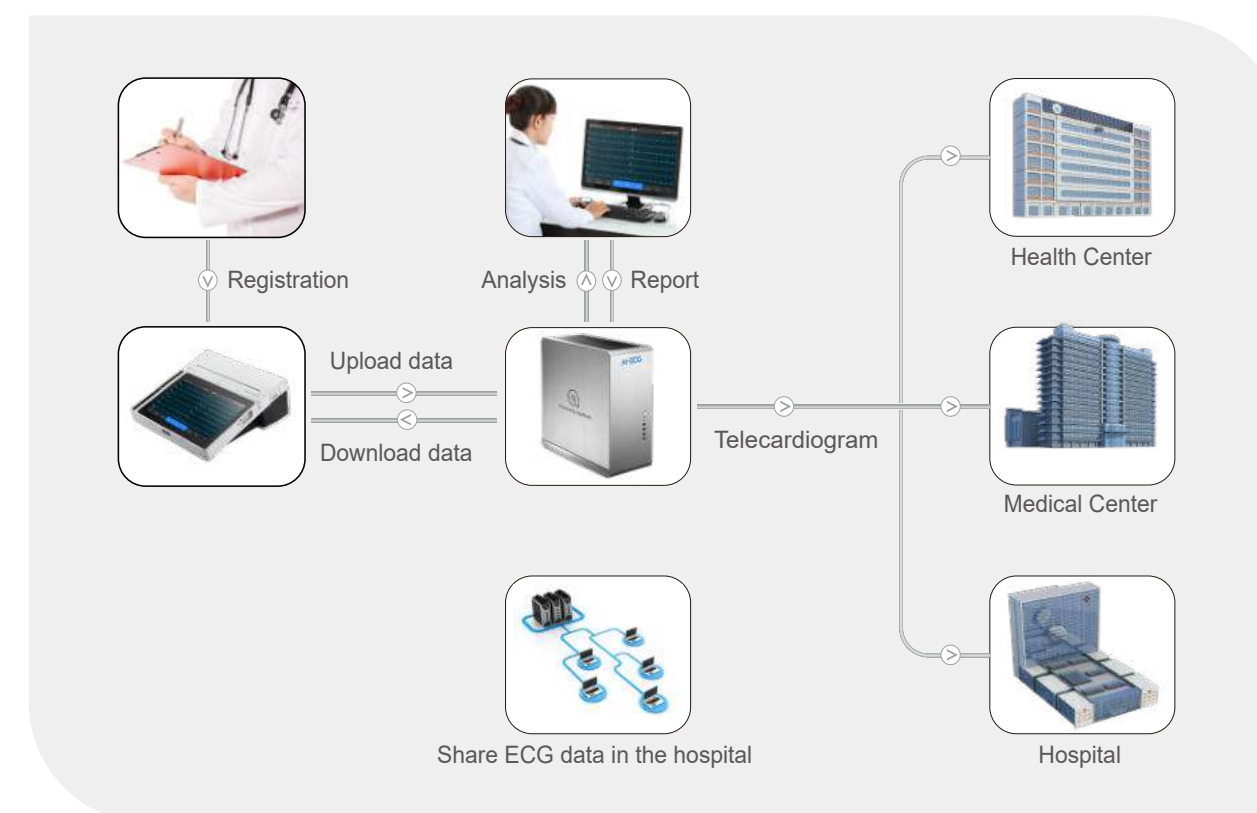
* Comprehensive Diagnosis

Support 16 types of cardiac classification, 104 types of ECG diagnostic classifications.

Function Features

* 10.1" high resolution color touch screen, easy to operate. Portable design, compact in size.
* Can be powered by an external DC power supply, a built-in rechargeable lithium battery or recorder charging pot.
* Support synchronous acquisition and display of 9/12/15/18-lead waveform, as well as heart rate detection.
* Support automatic pacing detection and marking.
* Support auto, RR analysis, HRV, medicine test, ECG event mode.
* Provide 4 sampling modes: pre-sampling, real-time sampling, periodic sampling and trigger sampling.
* Input patient information via virtual alphanumeric keyboard and barcode scanning.
* Freeze the ECG waveform on the screen.
* Output files in multiple formats, such as Carewell ECG, PDF, BMP, HL7, DICOM, SCP.
* Store, preview, review, edit, export, upload, print and search patient data.
* Support wireless transmission of ECG data via WiFi and mobile networks.
* Base with build-in thermal printer and support external laser printer.
* Export patient datato USB flash disk via USB connector.
* Support the user login permission control, use password or account & password authentication to use the device.
* Support online and offline login to the device, and view the historical patient data of the department according to thelogin account.
* Support connection with AI-ECG PLATFORM in achieving intelligent diagnosis (Optional).

In-hospital Solution

Registration   Analysis   Report

Upload data

Download data   Telecardiogram

Share ECG data in the hospital

Health Center

Medical Center

Hospital

AI-ECG Platform

AI ECG assisted analysis technology

Abnormal heart rate of origin
1. Sinus tachycardia
2. Sinus bradycardia
3. Sinus arrhythmia
4. Ventricular asystole
5. Atrial flutter
6. Atrial fibrillation
7. Ventricular flutter
8. Ventricular fibrillation
9. (Atrial, junctional, and ventricular) escape
10. (Atrial, junctional, and ventricular) escape rhythm
11. (Supraventricular and ventricular) extrasystolic bigeminy
12. (Supraventricular and ventricular) extrasystolic trigeminy
13. (Supraventricular and ventricular) extrasystolic couplet
14. Atrial tachycardia
15. (Supraventricular and ventricular) tachycardia
16. Non-paroxysmal junctional tachycardia
17. Accelerated idioventricular rhythm (AIVR)

Conduction abnormalities
1. Pre-excitation syndrome
2. Sinoatrial conduction block
3. Atrioventricular conduction block
4. Bundle branch block

1. Left atrial hypertrophy (LAH)
2. Right atrial hypertrophy (RAH)
3. Biatrial hypertrophy (BAH)
4. Left ventricular hypertrophy (LVH)
5. Right ventricular hypertrophy (RVH)
6. Biventricular hypertrophy (BVH)

Atrioventricular hypertrophy (AVH)

Atrioventricular

Myocardial ischemia

Myocardial infarction

1. Abnormal Q wave
2. Anterior myocardial infarction (Acute, recent, old)
3. Extensive anterior myocardial infarction (Acute, recent, old)
4. Anteroseptal myocardial infarction (Acute, recent, old)
5. Lateral myocardial infarction (Acute, recent, old)
6. Inferior myocardial infarction (Acute, recent, old)

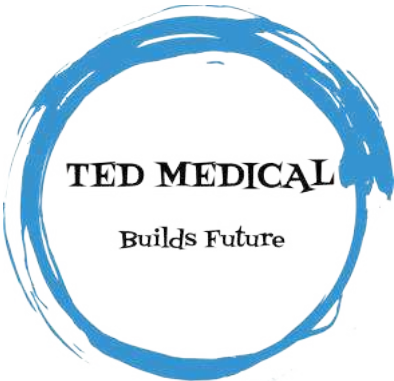ST segment and T wave changes

AI-ECG Platform AI analysis software has been approved by the US FDA, and has obtained EU CE certification and NMPA registration approval.

OmniECG C120 AI

AI smart digital ECG

(14-inch touch screen) (Self-developed AI chip)

(12-lead synchronous acquisition)

TED MEDICAL
Builds Future

Exquisite appearance

Excelsior design, which simplifies complexity

Matt finishing stimulating comfortable tactility

14"

Patient cable interface

USB & Ethernet
This ECG can be connected with a scanner, a printer, and more.

High-Resolution Touch screen

Non-reel thermal printer (A4, letter size)

Outstanding performance

Pursuit of waveform fidelity and efficient operation

Accurate capture of ECG waveform

Ultra-high sampling rate and common mode rejection ratio ensure clear and stable waveforms.

Efficient printing system

With a built-in 210-mm high resolution dot matrix recorder and an external network printer, this ECG supports A4 thermal printing paper and abundant report contents: multiple combination templates of measured values, measurement matrix, average template, and waveform reports.

Strong anti-interference ability

With built-in AC and EMG filter, baseline drift filter, and low-pass filter, this ECG can effectively reduce noise and interference.

12-lead
simultaneous acquisition

The 14-inch high-resolution color touch screen can display 12-lead waveforms on the same screen.

High-quality accessories

Product standard accessories:
Patient cable,limb electrode clips,and chest electrode suction bulb
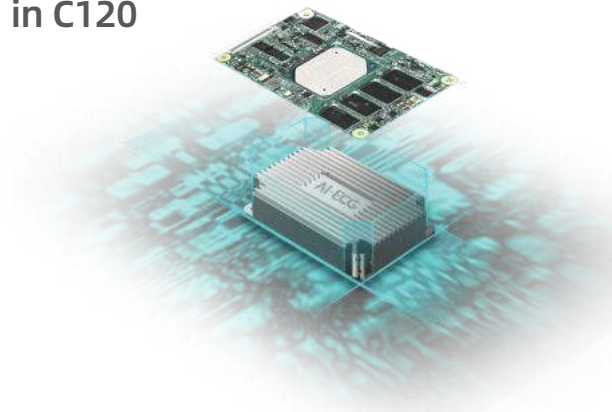
Product optional accessories:
ECG Trolley

All-round empowerment of AI technology

Lepu's independent R&D AI chip is implanted in C120

- Self-developed AI-ECG general chip module, with built-in Lepu AI-ECG core algorithm

- Professional high-performance GPU chip

- TPM encryption chip protects IP of AI-ECG chip

C120 can be connected with AI-ECG Platform AI analysis software

ECG machine

Wi-Fi

Cable

ECG data

Analysis report

AI-ECG-Platform

HL7 protocol

Data transmission

HIS
LIS
EMR

Hospital information system