

COMEN

COMEN Share with the World



H12 12-Channel Electrocardiograph



Shenzhen Comen Medical Instruments Co., Ltd.

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## Getting Smaller and Stronger

The development of the Internet has revolutionized all industries, including computers, mobile phones, watches and glasses, and even affected to medical devices.

The concept of miniaturization has been thriving, and it is this frontier trend that Comen has been following in the footsteps of the world to create the H12 high-end 12-channel electrocardiogram machine.

We believe that the smaller and more exquisite electrocardiogram machine, should not only has good looking design but also perfect performance.

It should integrate excellent outlook and function well.

To this end, we are reinventing ourselves from the inside out and innovating completely, adhering to the thought of exquisite design, precise measurement, and perfect performance to make H12 more practical and aesthetically pleasing than previous products.

## Compact, flexible, intuitive design

Continuous refine of H12 makes it more compact, more delicate and more practical.

10.4 inch LED HD touch screen  
Full vertical screen display  
Display formats 12 × 1、6 × 2

Hand-writing pen allows operation and input more easily



Full touch screen operation allow up and down sliding

USB interface can be connected with U disk, mouse, keyboard, external printer and scanning guns, etc.

Plug and play of the up and lower shells allows easy disassembling and maintenance with high reliability and stability.

## Accurate measurement

High precision digital filtering technology eliminates baseline drift and other disturbances, providing real and accurate ECG waveforms.



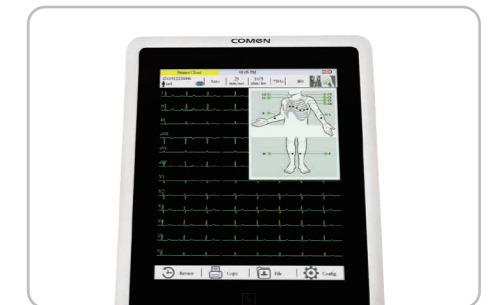
- 12-lead ECG acquisition, amplification and recording simultaneously
- Polarization voltage  $\geq \pm 650\text{mV}$ , CMRR  $\geq 110\text{dB}$ , Time constant  $\geq 5\text{S}$ , 24bits A/D conversion allows powerful anti-defibrillation ability and accurate collection of ECG waveform
- First using Cabrera Leads, which was the standard lead type recommended by “2009 International Electrocardiograph Standard and Diagnose Direct”, to help detect and calculate frontal plane axis in myocardial ischemia and myocardial infarction, improving diagnosis of infarction artery, fatalness, etc.
- 122 arrhythmia analysis
- Automatic arrhythmia detection and report
- Support HRV analysis and rhythmic R-R analysis
- Support pace make detection

## Perfect performance

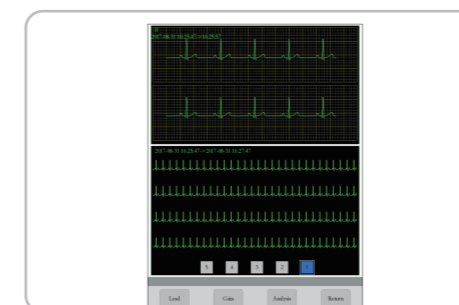
- Hand writing input of patients information
- Quick access to patient information through HL7 protocol and DICOM worklist
- Patient case management help easy search, transmit, print and view patients information
- Standby and automatic wake-up, timing shutdown available
- USB disk to input & output ECG data
- Intelligent charging mode, both slow charging and fast charging available



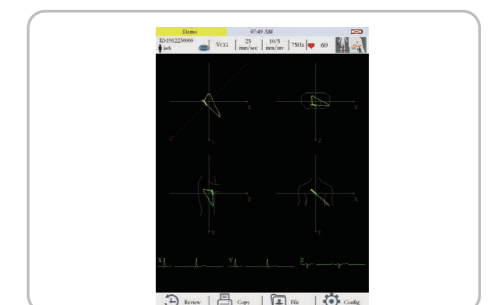
Scan guns available allows for quick inputting the patients information.



Amplification of Leads status map to show ECG leads conductivity.



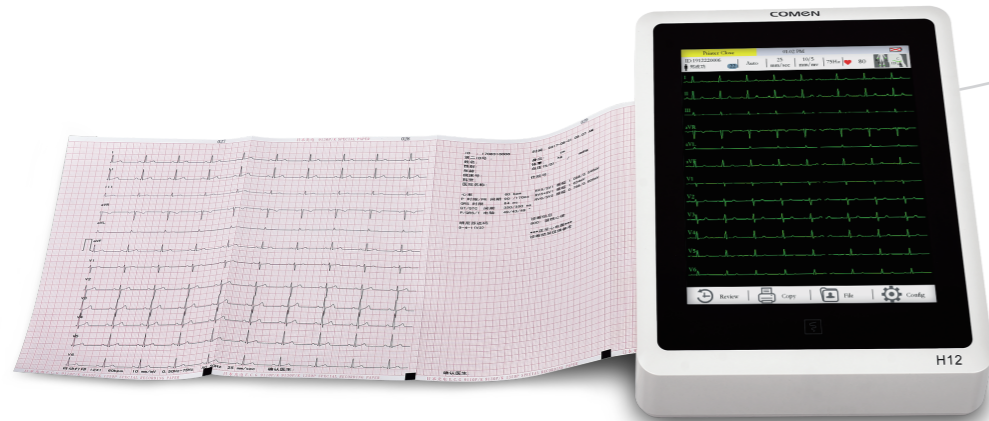
600 seconds of 12-lead waveforms review; 10 seconds 12-leads waveforms review and recording.



VCG detection function.

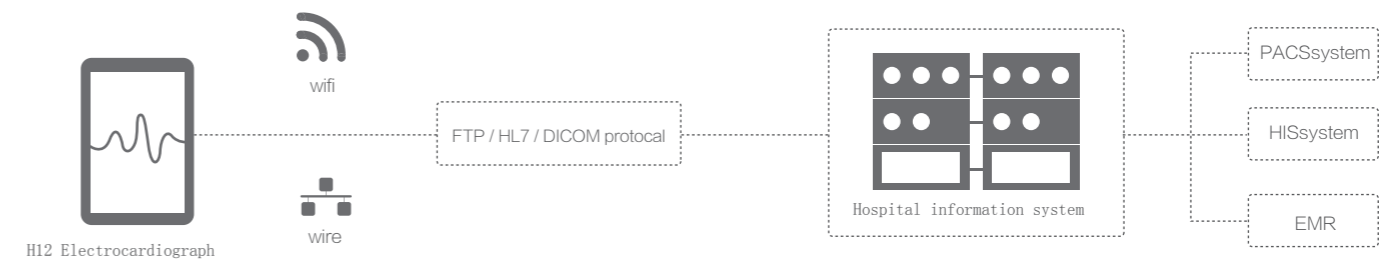
## More efficient printing systems

- Automatic measurement of ECG waveform, automatic report output, support a variety of record formats
- Various recording format: 12×1、12×1+1T、6×2、6×2+1R、3×4、3×4+1R、3×4+3R
- Recording mode: one key printing, extended printing, normal printing
- Extended printing: an additional rhythm will be automatically printed once acute events such as significant tachycardia, significant bradycardia, tachycardia, and bradycardia occurred under automatic ECG diagnosis mode
- Intellectualized Cali-Rec™ recording calibration system solves the problem of ECG paper jam, paper deflection completely



## ECG Information Solution proposal

- Support wire/wireless networking, support built-in WiFi(optional)
- Support connection with U disk, SD card, mouse, keyboard, scanning gun, laser printer
- Support BMP / JPG / PDF / DICOM / SCP-ECG / FDA-XML format reporting
- Support ECG data management software, HL7 / FTP / DICOM protocol allow connection with hospital HIS、EMR、PACS system .Doctor can view ECG waveform and diagnosis report from computer directly



## Powerful Data storage

- 600 seconds 12-lead waveforms review
- 10000 ECGs internal memory; support formats DAT、BMP、JPG、PDF、DICOM、FDA-XML、SCP
- Patients name and ID number search support;

