

# Dynamic ECG Analysis System

world leading intelligent analysis

10 years dedicated R&D of ECG analysis algorithm

Through MIT, AHA, NST, CU and other standard database, high verification accuracy achieved 99.9%.



Analytical compatibility software: Win2000/WinXP/Win2003/Vista/Win7/Win8/Win10

## Function Feature:

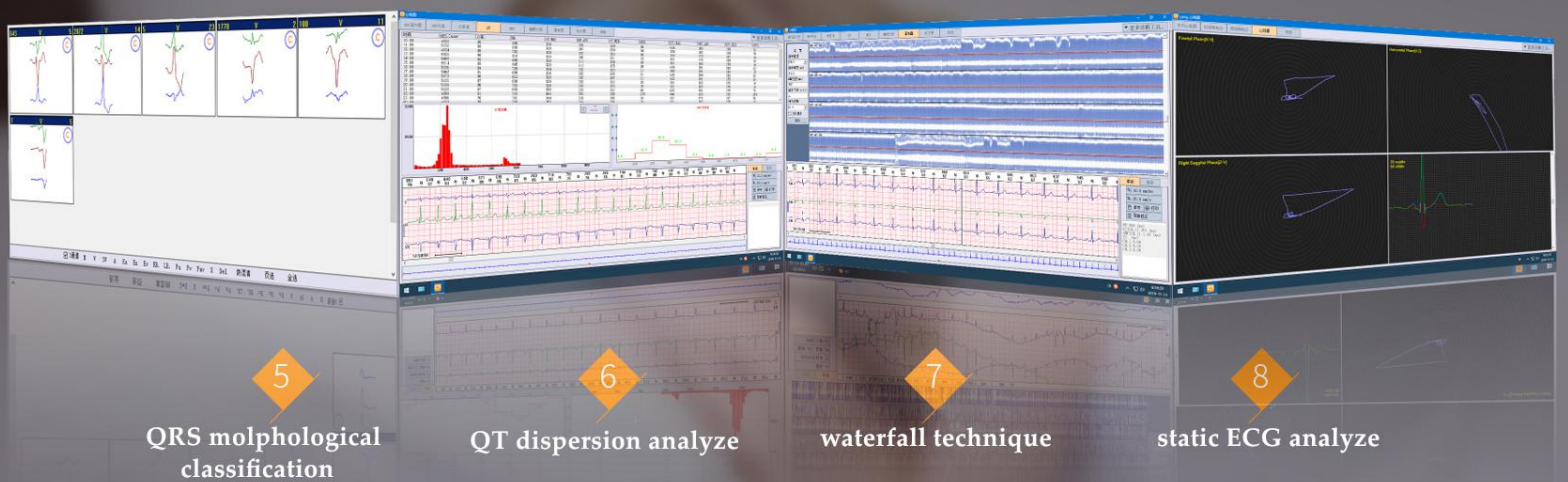
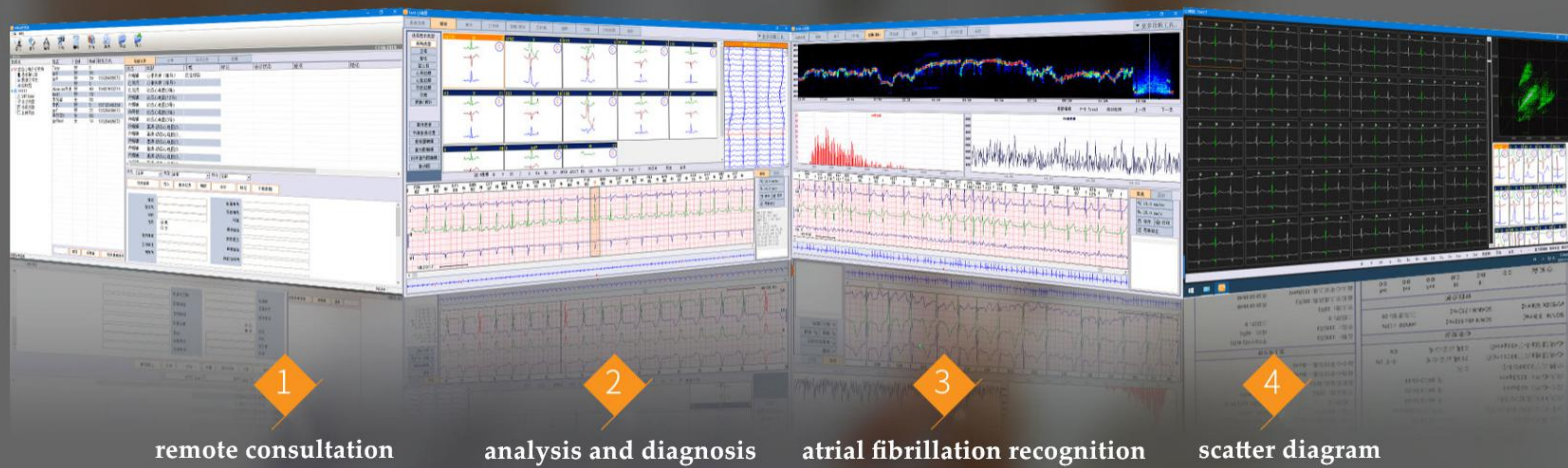
- Remote consultation
- Anti-obfuscation QRS morphological classification
- Scatter plot, histogram, overlay and other feature function description
- Automatic identification of various arrhythmias
- Automatic analysis of atrial fibrillation and atrial flutter
- Heart rate deceleration force analysis
- Microvolt level T wave electrical alternation
- ST segment analysis
- Pacemaker analysis
- Heart rate shock analysis
- Analysis of heart rate variation in time domain and frequency domain
- Analysis of apnea syndrome
- Static ECG analysis

## Other function:

- Full template, full lead anti - obfuscation analysis
- Full template, full lead histogram analysis
- Analysis of 3 channels arrhythmia
- Analysis of 12 channels arrhythmia
- 12 channel ST, QT analysis
- Intelligent QRS analysis, accuracy up to 99.99%
- Intelligent room early analysis, accuracy up to 97%
- Intelligent false difference automatic identification, an average of 5 minutes out of a high content of dynamic ECG report
- escape fast identification
- All kinds of block identification
- Support more than 7 days of continuous dynamic ECG analysis, only edit once

- 12-lead ST automatic scanning, key points can be set at any time
- High performance pacemaker analysis function, suitable for VVI, AAI, DDD and other latest types of pacemakers
- Supports section drawing horizontal or vertical printing. Selected section drawing can be printed continuously
- ASCII data can be output for users to use in research and development, supporting GDT data interface of German Ministry of Health
- Can be translated into their own language at the user's option
- Powerful database management function, supporting data import, export, archive, file and other functions
- Color reports can be printed
- Support network remote diagnosis
- P-R interphase trend chart, can automatically identify R wave front 1 to multiple P waves, even without P wave can be accurately identified.
- Waterfall map: using the most advanced graphics processing and digital analysis technology, quickly identify 24 hours P wave, ST segment, T wave variation area, detection accuracy up to microvolt level. Clinically, patients with abnormal P waves such as conduction block, atrial fibrillation/atrial flutter can be quickly identified.

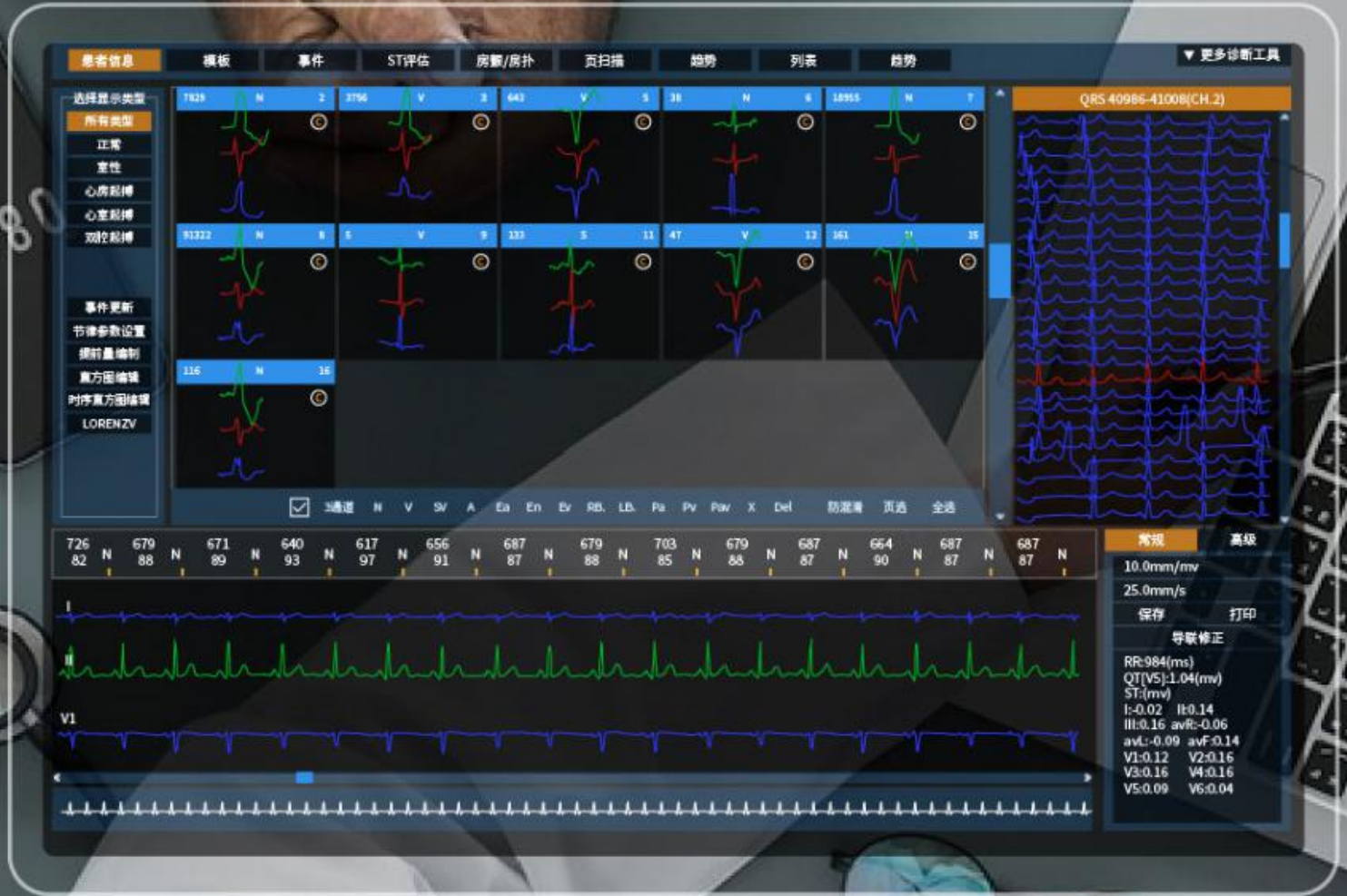
## Dynamic ECG analyze system



# humanized template editor

anti-obfuscation analysis, support merge and split types

suitable for quick correction of misjudged types, convenient for doctors to quickly grasp the problem waveform, reduce doctor's workload



## Atrial fibrillation flutter analyze

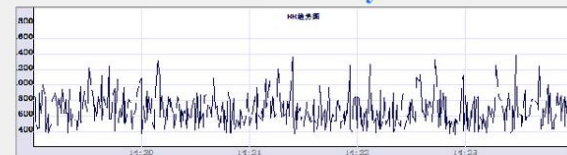
RR interval variation trend facilitates operator rapid identification of atrial fibrillation flutter, automatically determine the occurrence probability of atrial flutter, subsection analyze of atrial fibrillation and flutter. The analysis is more accurate.



RR histogram



RR tendency chart



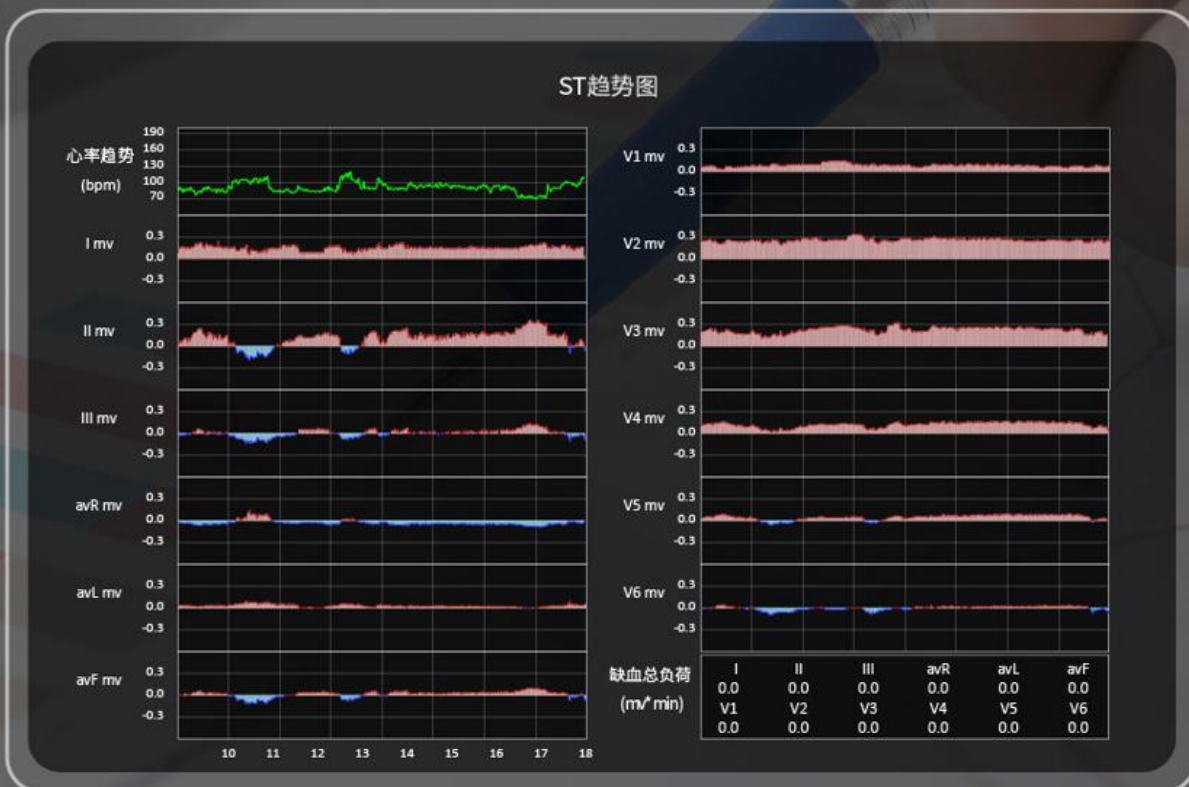
# Pacemaker analysis

automatically distinguish pacemaker signals from autonomic heart beats, analyze AAI/AAIR, VVI/VVIR, VDD, DDD/DDDR pacemaker ECG.



## ST Segment Analyze

The software makes statistical summary of ST segment changes of all recorded DCG data, shows the trend of ST segment change. ECG and ST segment changes can be quickly found at each time point.



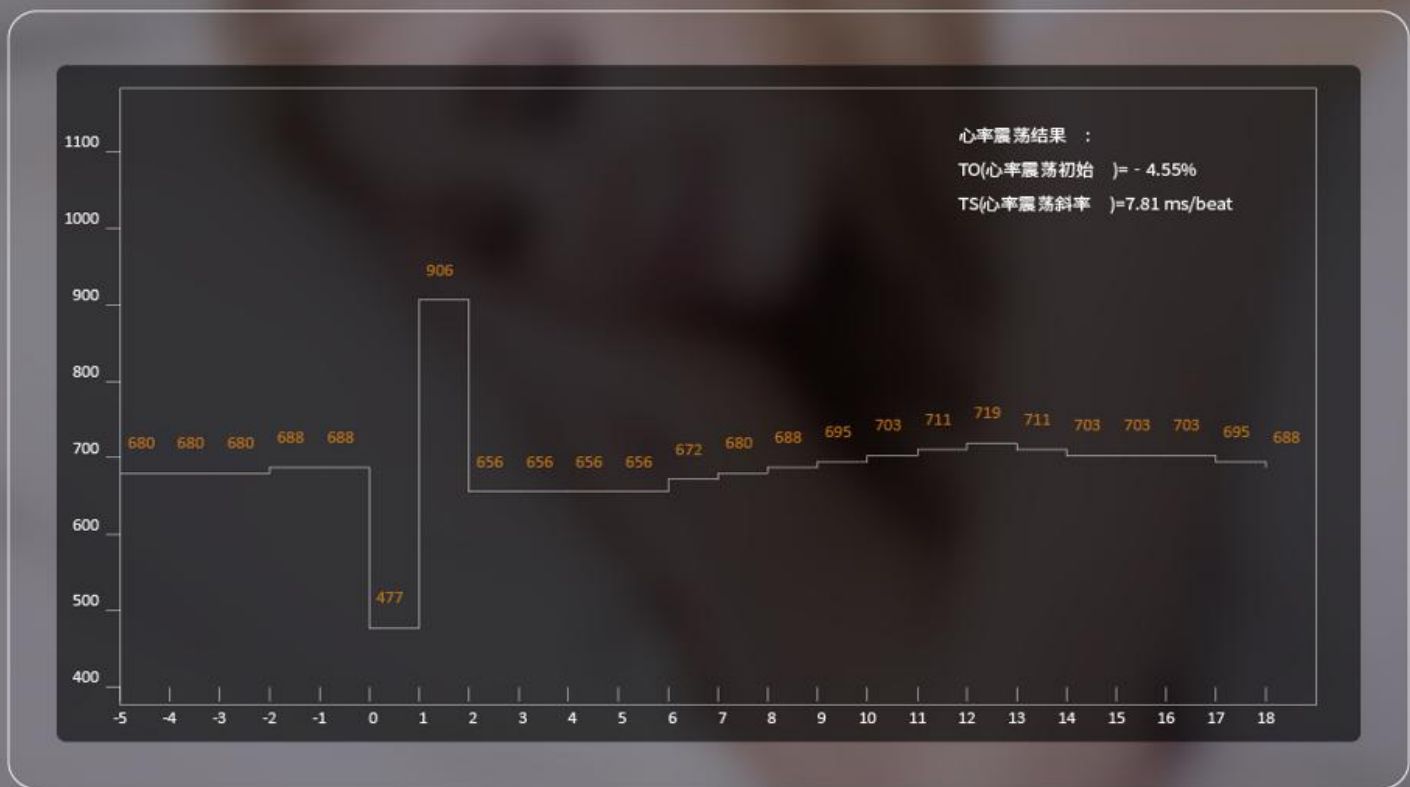
# Heart rate variability analysis

use liner and nonlinear analysis, the autonomic nerve function can be evaluated qualitatively and quantitatively. Reflect the rhythm of the heart.



# Heart rate turbulence (HRT)

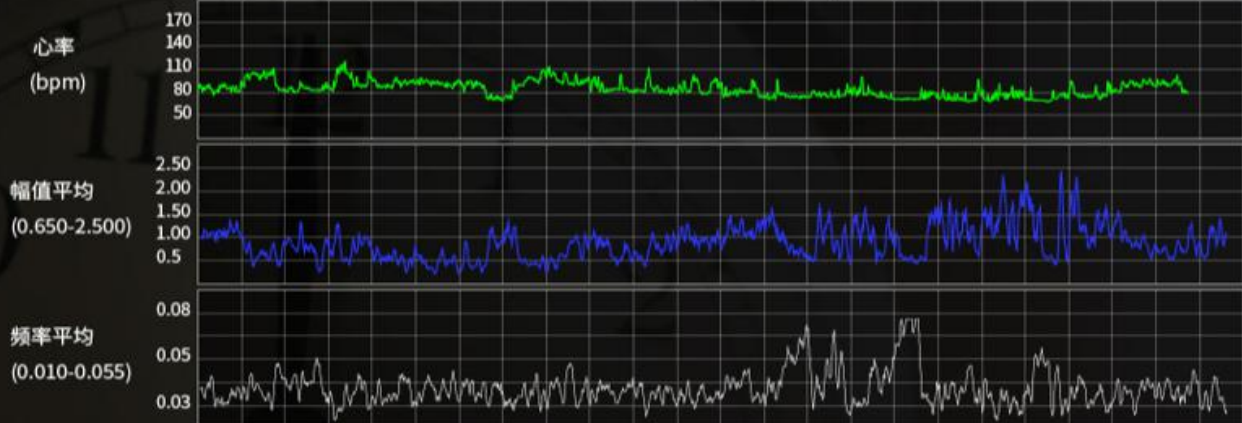
A high risk predictor for patients with myocardial infarction, automatically provides indicators for initial oscillation and oscillation slope detection. It reflects the bidirectional change function of sinoatrial node.



# Respiratory sleep analysis

For automatic diagnosis of sleep apnea syndrome, automatically calculate various indicators of apnea.

## obstructive respiratory sleep analysis



## analysis of obstructive respiratory events

起始	终止	持续	起始	终止	持续	起始	结算	持续
19:44:40	19:59:40	15(min)	21:08:40	21:27:40	19(min)	10:50:40	11:06:40	16(min)

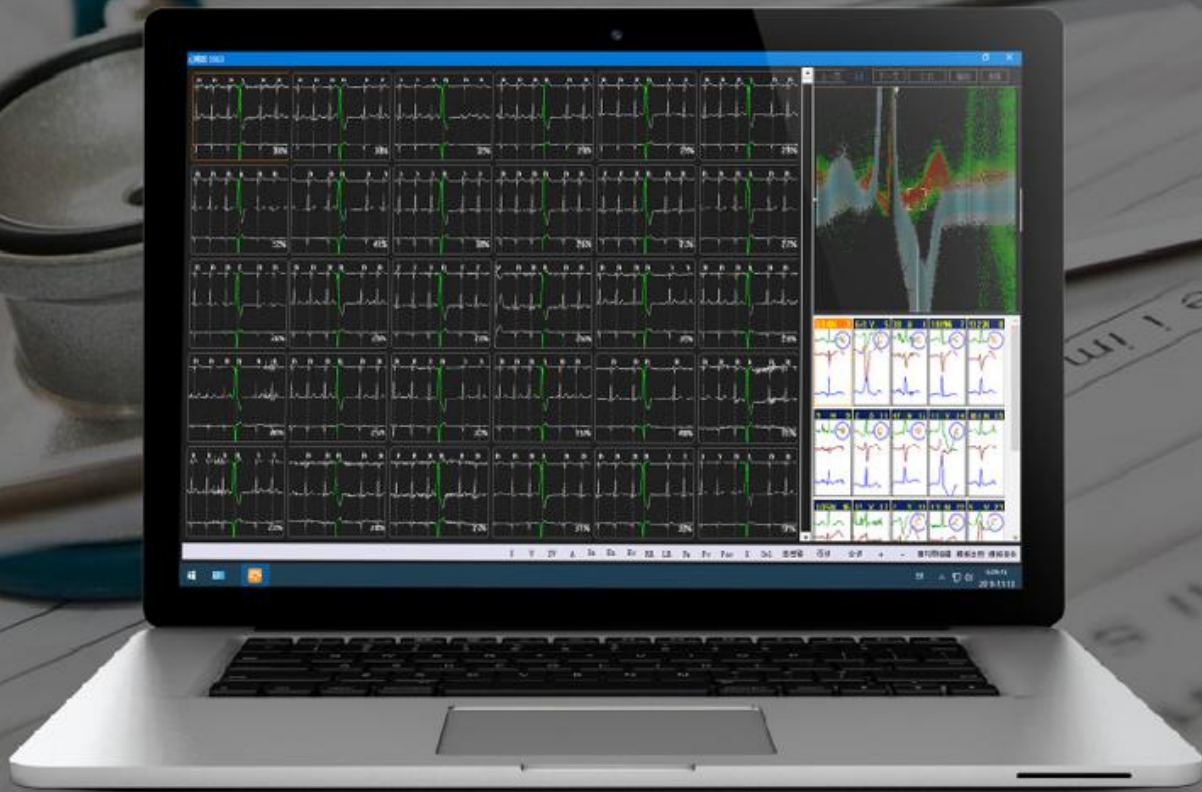
## LORENZ scatter plot

by reading the diagram of the scatter interface, different intervals of the histogram reverse play-back of real-time ECG waveform, batch modification, rapid editing of arrhythmia heartbeat.



# Anti-obfuscation superposition analysis (DEMLX)

analyze the heart beat by fast superposition, to find out the arrhythmias with different waveforms, especially the wide QRS group is pseudo- different. So that the missing rate of the wide QRS group can be reduced to the minimum.



Dynamic ECG machine analysis system workflow

