

## Technical Specifications:

<b>ECG:</b>	
Input circuit:	Floating circuit input
Lead:	Standard 12/15/16 leads
Acquisition mode:	Simultaneous 12/15/16-lead acquisition
A/D converter:	24 bits
Sample Rate:	1000Hz
Input CIR current:	≤0.1μA
Input impedance:	>50MΩ
Patient leak current:	<10μA
Time constant:	≥3.2s
Frequency response:	0.05~250Hz
Noise level:	<15μVp-p
Sensitivity:	(2.5, 5, 10, 20) mm/mV
Calibration voltage:	1mV±3%
CMRR:	≥103dB
Polarization voltage:	±500mV
Filters:	AC filter, ADS filter, EMG filter
Recording mode:	Auto/ Manual/ Rhythm
Rhythm lead printing:	Any lead selectable, printing for 30-300 seconds
<b>ECG storage:</b>	
Inner storage:	1500 ECGs
External storage:	SD card 2G
<b>ECG recorder:</b>	
Recorder:	High resolution thermal array printer
Paper speed:	(6.25、12.5、25、50) mm/s
Recording mode:	12-lead recording: 3CH,3+3CH, 6CH, 6+1CH, 6+3CH, 12CH, 12+1CH, economic mode 15-lead recording: 3CH, 3+1CH,3+3CH, 6CH, 6+1CH, 12CH, 12+1CH, 15CH, extra 3 CH recording
Recording paper:	210mm×150mm-140m, z-fold paper 210mm×140mm-140m, z-fold paper
<b>Others:</b>	
Display:	12.1 inch TFT LCD touch screen, with 1:1 ratio grid-line
Interfaces:	USB, SD card, LAN, VGA, audio, WIFI
Power supply:	100V~240V, 50Hz/60Hz, 50VA Rechargeable Li-ion battery, 14.8V-4400mAh
Dimension(LxWxH):	360mm×325mm×380mm
Net Weight:	About 5kg
<b>Standard Configuration:</b>	
IE15 main unit, ECG acquisition box, Chest electrode, Limb electrode, Thermal paper Electrode adapter (from balana plug to clip or snap ) SD card 2G Adult & children disposable adhesive electrodes	
<b>Options:</b>	
ECG workstation software Barcode scanner U disk Trolley WIFI	



ISO 13485

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# SonoScape



## IE15

Leading-edge Technologies  
Take Cardiac Care to a Higher Level

Caring for Life through Innovation



### Laptop Design

- Perfect combination of fashion sense and practical clinical use, flexible to adjust for the best viewing angle
- Full alphanumeric silicon keyboard, comfortable and durable in operation

### Easy to View

- 12.1 inch TFT LCD touch screen with 1:1 ratio background grid line, what you see on the screen is what you get in the printout
- Multiple background colors for different doctors' viewing habit

### Abundant Peripheral Interfaces

- VGA port for connecting external monitor
- LAN port for real-time data transmission
- USB ports for data transfer or barcode scanner
- SD card for data storage or software upgrade

## IE15 Leading-edge Technologies Take Cardiac Care to a Higher Level

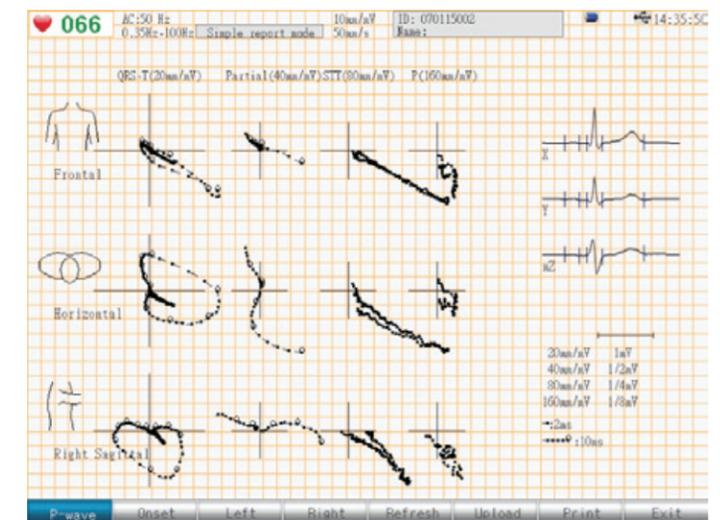
The IE15, our latest premium ECG, provides additional 3 leads for extended diagnostic interpretation for both adult and pediatric ECG analysis, which goes beyond 12-lead and guarantees the quality of the signal. With Vectorcardiograph analysis function, IE15 allows you an easier access in detection of posterior myocardial wall ischemia and significantly improves the detection of circumflex coronary-related injury pattern with extra posterior leads compared with 12-lead ECG.

IE15 provides fast entry, high-quality report printout and data transfer, which is more suitable used in ECG clinical applications, especially in Cardiology.

## Leading Vectorcardiograph(VCG) Technology

Vectorcardiography is a method of recording the magnitude as well as direction of the electrical forces generated by the heart in a continuous series of vectors that form curving lines around a central point.

- Diagnosis of Coronary Heart Disease
- Diagnosis of Atrial & Ventricular Enlargements
- Differential Diagnosis of Bundle Branch Blocks (BBB)
- Differential diagnosis of Arrhythmia
- Other Clinical Applications



## New ECG Acquisition Platform, New User Experience

### More Quickly

- Waveform instant-on start-up availability
- Waveforms stable within 1 second after acquisition, speeding up analysis

### More Stable

- Signal processing improvement, less interference and better performance
- Neat and orderly waveforms without drifting or overlap

### More Accurate

- 1:1 ratio in waveforms display , good for accurate diagnosis
- New type of filters, maintain more useful signals, avoid misdiagnose



## ECG Acquisition Box

### More Cost-saving

- Independent lead for cost-saving in after-sale maintenance, no longer need to change the whole ECG cable when one lead breaks down

### More Time-saving

- Keys on the acquisition box can help doctors or nurses to print, stop printing or start arrhythmia analysis quickly and directly, good for time saving and improving efficiency.



## Cabrera Lead Mode

- The Cabrera lead order is aVL, I, -aVR, II, aVF, III, V1 through V6. Cabrera lead mode makes it easier to visualize waveform progression in the frontal plane, then better to position the origin of myocardial ischemia or arrhythmia and significant to estimate the infarction part and infarct size

## Pacemaker Detection

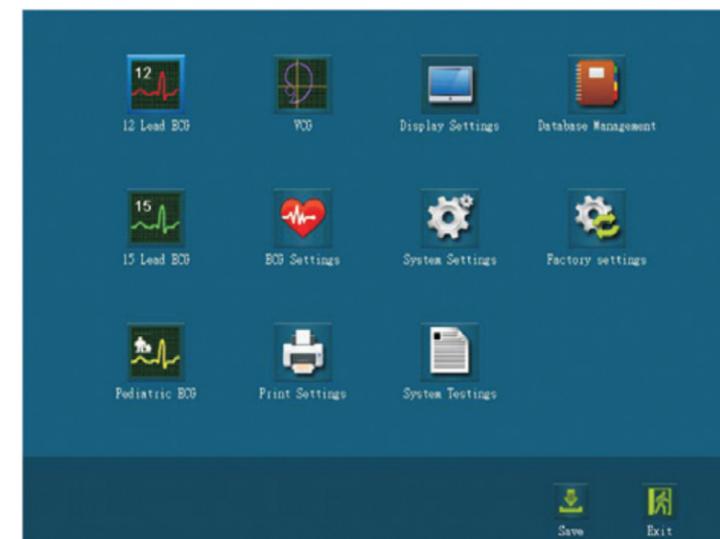
- Through ECG waveforms display and analysis, doctors can determine the pacemaker type and work status through the ECG analysis.
- Automatic measures parameters, such as time and amplitude of wave group, more efficient in diagnosis procedure

## 300 Seconds Waveform Freezing

- When press the freezing key, the doctor can review the previous 300 seconds of waveforms then select the most valuable 10 seconds of it to analyze and print out.
- It is significant when testing some naughty children, fracture patients, aged people whose skin is too dry to connect the electrodes and so on.

## Pediatric ECG

- Wider frequency response and professional pediatric measurement package enable IE15 to be more suitable in pediatrics, neonate cardiac diagnosis.

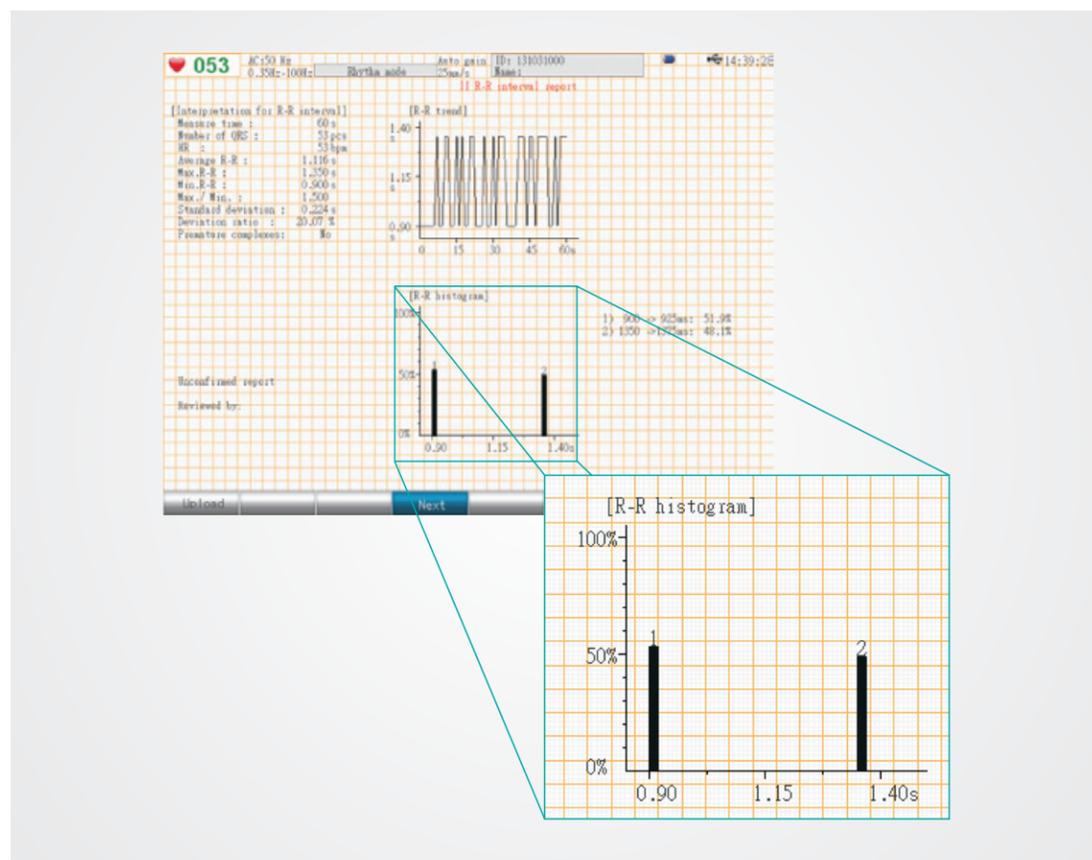


# Arrhythmia Auto-trigger Printing

- IE15 can be automatically printing when detecting arrhythmia, which can help avoid missed diagnosis and offer valuable clinical information for doctors.

# R-R Analysis Function

- 30-300 seconds of RR interval analysis with RR histogram, help doctors to better determine the arrhythmia.

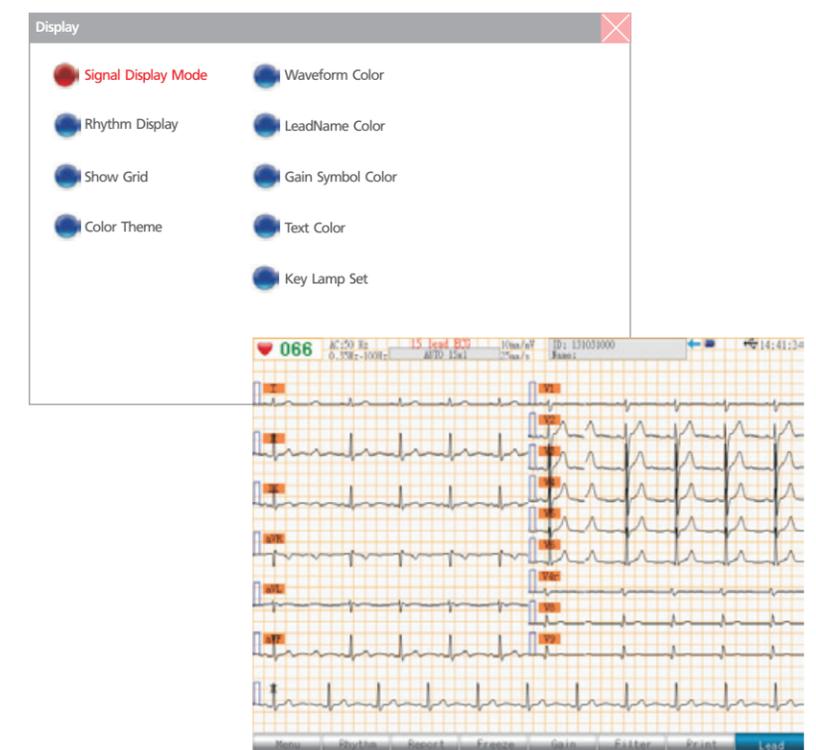


# Preview Function

- The doctor can preview the waveforms or the analysis result directly on the screen then to decide whether to save, print, upload or delete.

# 1:1 Ratio Background Grid Line

- What you see on the screen is what you get in the printout.
- Convenient for the doctor to make the preliminary screening and diagnose without printout, good for cost-saving



# Data Management System

- Internal data storage for 1500 files, while external 2G SD card for unlimited files
- The doctor can inquiry, copy, recall the saved data.
- User-defined function for doctors' different habits and applications
- Data can be upload to the ECG workstation on PC by LAN or WIFI

