



# ESSE-65

Digital 12-channel  
ECG Machine

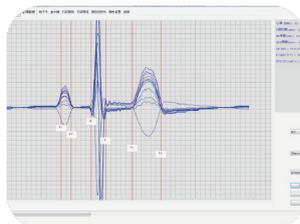


**CARDIOLOGY**



## Accurate

*innovative ECG analysis algorithm supports accurate and valid diagnostic*  
*Automatic measurement and interpretation certified by CSE database*



## Humanized

*Automatic Position, support external USB printer ,Two selections for recording: Fast and Paper-saving*



## Convenient

*Full color touch screen & Alphanumeric keyboard*  
*Concealed and portable handle, convenient carrying*  
*Support barcode scanner*



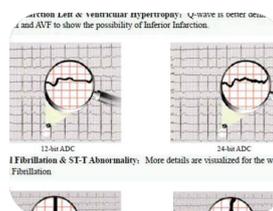
## Powerful Analysis

*140 kinds of diagnosis analysis reports*



## Anti-interference

*Digital filter design ensure powerful anti-disturbance performance*  
*High stability of baseline: stabilize baseline in 1-3 seconds*



## Multiple Storage and Communication Options

*Mass storage : Internal flash + SD card + U disk*  
*LAN/Wi-Fi(optional) connections*  
*Fast FTP file transfer realizes data remote communication and management*



## Intelligent ECG Data Management

ECG Series: ESSE-30/ESSE-80/ESSE-65, with powerful ECG Management System, captures and stores every heartbeat of patient, and then provides a computerized ECG analysis using innovative ECG analysis algorithm, providing clinicians with the diagnostic confidence to make fast and reliable cardiac care decisions





## Specification

### Size and Weight:

- Size: 360mm×276mm×130mm (W×H×D)
- Weight: 4.2kg

### Display

- Type: 8.0", 800×480 TFT LCD touch screen

### Power Supply:

- Input voltage: AC:100V~240V, 50Hz/60Hz
- Input power: 100VA
- Earth leakage current: <0.3 mA
- Standard: Comply with IEC 60601-1 and IEC 60601-1-2

### Battery

- Type: Rechargeable lithium-ion battery
- Rated Voltage: 11.1V
- Capability: 4400mAH
- Operating time: Used continuously for 5 hours (print 500 shares of cardiogram)
- Indication of battery capability: With

### Input/Output Specification

- Keyboard: USB keyboard
- Standard touch-screen connector (4 lines)
- Network connector: RJ-45 (one) TCP/IP; Web function
- USB connector: 1 x USB Host connects U disk ,scanner,and printer  
1 x USB Device connects PC computer
- SD card: SD card(Optional)

### Data Storage

- Fixed Memory: 800 groups of ECG data
- Optional Memory: Flash, SD card or U disk
- Storage mode: Background storage automatically
- Storage format: PDF, DAT, Dicom, FDA-XML, JPEG

### Recorder

- Recording way: Thermal dot array
- Horizontal resolution:40 dots/mm
- Vertical resolution: 8 dots/mm
- Recording speed: 5 mm/s,6.25 mm/s,10 mm/s, 12.5 mm/s,25 mm/s,50 mm/s, error:±3%
- Record width: 215mm(the effective record width of the device is 210mm)
- Paper : 210mm×140mm×20m (Z type)
- Paper type: Folded thermosensitive printing paper
- Recording type: more than 10 kind of printing methods (Auto:3×4,3×4+1R,3×4+3R,6×2,6×2+1R, 12×1, 12×1\_V6;Manual : 3 path, 6path, 12path,
- Rhythm: single-lead, three-leads , R-R: R-R)

### Measure and Diagnosis of ECG Waveform

- HR range: 30bpm -300bpm
- HR precision: ±1bpm (10s average)
- Coefficient error: ≤5%, 0.333
- Measure info of ECG waveform: P time limit, PR interphase, QRS time limit, QT interphase, QTC interphase, RV5swing, SV1swing, RV6swing, SV2swing, RV5+SV1swing, P axis, QRS axis , T axis
- Diagnosis analyze: ≥140 kinds  
Display of ECG Collection
- Signal input:12-lead, defibrillator-proof, Pacemaker pulse rejection
- Degree of protection against electric shock: 4000V, Type CF applied part
- Electrode offset potential: ±600 mV d.c.
- Response to frequency: 0.05Hz-200Hz(-3dB)
- Baseline filter: On/Off
- ECG filter: 25Hz,35Hz,45Hz, Close
- Lowpass filter: 75Hz,100Hz,150Hz,200Hz, Close
- Frequency filter: Off/On
- Gain selection: 2.5,5,10,20, 40,10/5, AGC (mm/mV)
- Gain accuracy: ≤5%
- Time base selection: 5 mm/s,6.25 mm/s, 10 mm/s, 12.5 mm/s,25mm/s, 50mm/s
- Input impedance: ≥50MΩ
- Current of input loop: ≤15n A
- Patients leakage current: ≤10 μ V
- CMRR: ≥110 dB (with AC filter open)
- Time for response to wave displaying: ≤5s
- Time for baseline recovered after switching leads: ≤1s
- Defibrillator-proof: 5000V 360J  
Recovering time for defibrillator-proof ≤5 s  
Energy reduced ≤10%  
Voltage transfer ≤1V
- Standard complied with: IEC 60601-2-25  
Environmental Specifications
- Operating:  
-Temperature: 5°C~40°C  
-Relative humidity: 25%~95% (non condensing)  
-Atmospheric pressure: 700hPa~1060hPa  
-Temperature: -20°C ~ +55°C  
-Relative humidity: 25%~95% (non condensing)  
-Atmospheric pressure: 500hPa~1060 hPa



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