



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



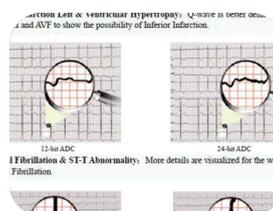
Powerful Analysis

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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