

ESSE-30

Digital Portable Electrocardiograph









Features

- 4.3"color LCD touch screen
- high-resolution & high- frequency data sampling realize that waveforms display accurately
- Innovative digital filters ensure better performance
- high-precision data saving ensures the accuracy of follow-up data analysis
- Built in 80mm reel type thermal printing mechanism
- Support external printer and barcode scanner
- Automatic measurement and interpretation passed the test of authoritative CES database

Data saving

- Support data saving by internal memory, U disk
- Support data transferring & reviewing & reanalyzing

Data saving

- Adapt Innovative digital filters for better performance
- Fast-speed baseline correction algorithm rapidly stabilize baseline
- Adapt 24-bit high-resolution data sampling
- Adapt 1000Hz high-frequency
- 24-bit high-accuracy data saving ensure the accuracy of follow-up data analysis
- Synchronization analysis for 12 lead waveforms, supporting report preview & report format adjustment



Function upgrading

- Multi report formats selectable
- Rhythm report realized synchronous display of multi-channel data
- Support Pre-sampling mode, Real-time sampling mode & Trigger sampling mode
- Automatic energy saving function
- The date dimension allows data file management to be summarized by date
- Built in high capability rechargeable lithium ion battery





Support multiple report formats, the length of recorded waveform is selectable





Support four kinds of filter setting: AC filter, baseline drift filter, EMG filter, lowpass filter High-speed baseline correction filter ensures rapidly correcting the baseline





Reports in multiple formats such as Auto (4×3, 3×4+1, 3×4, 2×6+1, 2×6, 3-2+1, 3-2), Manual (manual1, manual2, manual3, manual4), Rhythm (single-lead rhythm and 3-lead rhythm)

Clinical mounting solution







Specification

Size and Weight:

-Size: 315mm × 215mm × 75mm

-Weight: 1.6 kg

Display

-Type: 4.3", 480×272 TFT LCD

Power Supply:

-Input voltage: AC:100V~240V, 50Hz/60Hz

-Input power: 80VA

-Standard: Comply with IEC 60601-1

and IEC 60601-1-2

Battery

-Type: Rechargeable lithium-ion battery

-Rated Voltage: 11.1V -Capability: 2000mAH

-Operating time: Used continuously for 4 hours

(print 150 shares of cardiogram) -Indication of battery capability: With

Input/Output Specification

-Keyboard: 6 function keys, 4 direction keys, 1confirm key, 1 power key

-Standard touch-screen connector (4 lines)

-USB connector: 1 x USB Host Support hot-swap, connects USB device

Data Storage

-Fixed Memory: 200 groups of ECG data

-Optional Memory: U disk

-Storage mode: Background storage automatically

-Storage format: PDF, DAT

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: 80mm(effective record width is 72mm)

-Paper: 80mm×20m(reel)

-Paper type: Reel thermosensitive printing paper -Recording precision: ±5% (X axes), ±5% (Y axes)

-Recording type: Auto (4×3, 3×4+1, 3×4, 2×6,

3-2+1, 3-2),

Manual (Manual 1, Manual 2, Manual 3, Manual 4), Rhythm (single-lead rhythm, three-lead rhythm)

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, Taxis

-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: ±500 mV.

-Response to frequency: 0.05Hz-150Hz

-Baseline filter: On/Off (0.05Hz)

-ECG filter: Off, 25Hz, 35Hz, 45Hz

-Lowpass filter: 75Hz,100Hz,150Hz

-Gain selection: 2.5, 5, 10, 20 (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 (10Hz)

-Current of input loop: ≤15n A

-Patients leakage current: ≤10 μ A

-CMRR: ≥110 dB (with AC filter)

-Time for response to wave displaying: ≤5s

-Time for baseline recovered after switching leads: ≤1s

-Defibrillator-proof: 5000V 360J

Environmental Specifications

-Operating:

-Temperature: 5°C~40°C

-Relative humidity: ≤85% (non condensing) -Atmospheric pressure: 700hPa~1060hPa

-Transportation and storage -Temperature: -20°C~+55°C

-Relative humidity: ≤93% (non condensing)

-Atmospheric pressure: 500hPa~1060 hPa



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