

# **ELK-1006D**

## **DIGITAL SIX CHANNEL ECG**



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## Digital Six Channel ECG

ELK-1006D six channel ECG is such a kind of electrocardiograph, which samples 12 leads ECG signals simultaneously and prints out the ECG waveforms with thermal printing system. Its functions are as follows: Recording and displaying ECG waveforms in auto manual mode; Auto-measuring and auto-diagnosing the ECG wave parameters; Prompting the state of lead off and paper lack; Switching several kinds of interface languages; Managing the case database.

### Technical Parameters

Normal work environment  
Operation

- a) Environment temperature +5°C~35°C
- b) Relative humidity: ≤80%
- e) Power supply: AC:100V-240V, 50/60Hz  
DC: 7.4V, 3700 mAh rechargeable lithium battery
- d) Atmospheric pressure: 86kPa-106kPa

Store and Transportation

- a) Environment temperature: -40°C-55°C
- b) Relative humidity: ≤95%
- e) Atmospheric pressure: 50kPa-106kPa

Input way: Floating and defibrillation protection

Lead: Standard 12 leads

Patient leak current: <10μA

Input impedance: ≥50MΩ

Frequency response: 0.05Hz-150Hz (-3dB~+0.4dB)

Time constant: Time constant ≥3.2

CMRR: >60dB, >100dB (Add filter)

EMG filter: 25Hz/35Hz (-3dB)

AC filter: 50Hz/60Hz (≥20dB)

Recording way: Thermal printing system

Specification of recording paper: 110mm(W) 20m(l)  
High-speed thermal paper

Paper speed:

Auto-record: 5mm/s, 6.25mm/s, 10mm/s, 12.5mm/s,  
25mm/s, 50mm/s, 100mm/s, error: ±5%

Rhythm record: 5mm/s, 6.25mm/s, 10mm/s, 12.5mm/s,  
25mm/s, 50mm/s, 100mm/s, error: ±5%

Manual-record: 5mm/s, 6.25mm/s, 10mm/s, 12.5mm/s,  
25mm/s, 50mm/s, 100mm/s, error: ±5%

Sensitivity choice: 2.5/5/10/20/40mm/mV, error ±5%

Standard sensitivity is 10mm/mV ±0.2mm/mV

Auto-toed record following the record format and  
mute-rotate, auto laube-changing, auto measurement  
and analysis

Rhythm record: record following the rhythm format  
and rhythm mode, auto measurement and analysis.

Manual record: record following the record format,  
manual leads-changing

Measurement parameters: HR, P-R interval, P Duration,  
QRS Duration, T Duration, Q-T interval, Q-Tc, P Axis, QRS  
Axis, T Axis, R(V5), S(V1), R(V5)+S(V1)

Enduring polarization voltage: ±500mV

Sampling precision: 12bits

Sampling rate: 1000Hz

Noise level: ≤15μVp-p

### Accessories

Sell in standard

User manual 1 set

Lead cable 1 set

Limb electrode clamp 1 set

Chest electrode 1 set

Wire group 1 set

Equipotential connecting wire 1 set

Thermal recording paper 1 set

Sell in addition

Synchro uploading line

### Physical Identity

Size: 315mm(L)\* 215mm(W)\* 92mm(H)

Net Weight: 1.7Kg

## Features

7TFT color screen is 800\*480, touch screen and function key control at the same time, more convenient and shortcut.

It is high resolution thermal printer and thermal-array (8 dots/mm), you should not adjust anything Frequency Response is up to 150Hz

The device can record real time clear and exact six channel ECG waveform and remark continually. The remark includes: lead sign, sensitivity, paper speed, filter state, etc.

Full digital filter for resisting baseline draft, AC and EMG interference.

Adjust the baseline automatically, optimize the print setting, and choose the rhythm leads.

Under automatic mode, just press the button once, it starts record procedure, which can enhance your work efficiency.

The power supply includes both AC/DC. This device includes built-in lithium rechargeable battery, automatic protection circuit, and it will shut automatically if there is no operation for 5 minutes.

This instrument can record 190 pieces of ECG waveform and print 120 minutes continually under the best DC state.

This instrument can store more than 1000 pieces patient's data, more convenient for data review and statistic.

The figure of whole device is elegant and gliding.

Digital signal processor for effective inhibition of baseline drift, interference, and the like.

The instrument has function with regular auto-measurement of ECG waveform parameter, auto-analyze and auto-diagnostic, it will help to reduce doctor's burden and improve working efficiency.

Sampling twelve leads ECG signal at the same time, analyzing 2x6+1 (rhythm lead), 2x6, 3x4, 3x4+1 (rhythm lead), 4x3, 4x3+1 (rhythm lead), 6x2, 6x2+1 (rhythm lead), rhythm 2, rhythm 3, rhythm 4, rhythm 5, rhythm 6, rhythm 7 recording mode at the same time, and reporting with multi-formats.

Multi-lead styles for observing the real-time wave of three leads, six leads or twelve leads, and displaying Lead Off and Lacking of paper, DEMO mode of ECG Waves it can test the ECG parameter and analyze the report, register the wave with automatic or manual mode, it also can store the patients' information by data storeroom.

Safety Class: Class I, Type CF applied part, which has defibrillation-proof applied part

According to defense degree of deleterious fluid: IPX0

Support Chinese, English, Spanish, Turkish, Polish, Italian, German, Portuguese, Kazakhstan, Russian operating interface, can print out such language reports of the above

Timing print can be set to every 1/2/3/5/10/20/30/60 minutes.

Print setting has several options, which can be set to "Print and save" (print waveform and save case), "Print no save" (only print waveform but not save case), "Save no print" (only save case but not print waveform).

## Certification

CE

