

ELK-8000B

MULTIPARAMETER PATIENT MONITOR



Store & Reviewing

- ECG: 30 minutes one important lead's ECG waveform
- Alarm: 1800 groups Alarm events reviewing
- NIBP: 400 groups NIBP measurement
- Arrhythmia: 128 groups data (8 seconds ECG waveforms)
- Power off storage: 72 hours trend data & 1 ECG wave form(option)

ECG

- Mode: 5-leads (standard); 3-leads or 12-leads (option)
- Lead selection: I, II, IH, aVR, aVL, aVF, V1~V6(option) -Gain: AUTO, 0.25x, 0.5x, 1.0x, 2.0x, 4.0x
- Insulation Breakdown Voltage 4000VAC 50/60Hz Sweep speed 6.25mm/s, 12.5mm/s, 25mm/s, 50mm/s
- HR Range: Adult: 10~300bpm Child & Neonate: 10~350bpm
- HR Accuracy $\pm 1\%$ or ± 1 bpm, whichever is greater

IBP (option)

- Channel: 2
- Measurement Range: -50~+300mmHg
- Unit: mmHg, kPa
- Accuracy: ± 2 mm Hg or 2%, whichever is greater

Alarm

- Three Level: Low, medium and high
- Indication: Auditory and visual
- Setup: Default and custom
- Silence: All alarms can be silenced
- Volume: 45-85 dB measured at 1 meter

Thermal Recorder (Option)

- Method: Thermal dot array
- Paper width: 50 mm (1.97 in)
- Paper Speed: 12.5/25/50 (mm/sec)
- Traces Maximum: 3 tracks

EtCO₂ (option, Microstream)

- Range 0~19.7% (0-150 mmHg)
- Unit: %, mmHg: kP
- Respiration Rate Range 2~150 bpm



Dual Alarm Light

Physiological Alarm Light & Equipment Technical Alarm Light
Extra Large Alarm Light Design

All-in-one

ECG, RESP, SPO₂, NIBP, 2-TEMP(Standard)
9-leads ECG, 2-IBP, Cardio Output(ICG)
Side stream/mainstream/Micro stream CO₂

Various extensible interfaces

Standard : Ethernet Network, Defibrillation Synchronization Output, Nurse Call
Option: analog output, USB Port, VGA output

Built-in Recorder & WLAN modular (option)

3-Channel thermal recorder offers convenient documentation
Wifi wireless connectivity realizes in hospital transportation

Central Monitor System

Router



Wall Mount

Rolling Stand

WIFI with smart IT solutions

- Wireless integration with Central Monitoring Station
- Dynamic trends provide up to 240 hours of useful information for review
- 8 traces per monitor and 16 monitors on one screen
- View up to 32 maximum bed on one platform in real-time
- Review and manage patient data anytime and anywhere in and pre-hospital

TECHNICAL SPECIFICATIONS

Quality Standards and Classification

Anti-electroshock degree:

Class I equipment (internal power supply)

TEMP/SpO₂ /NIBP: BF

ECG/Resp: CF

Application Range

Adult/Pediatric/Neonatal/Medicine/Surgery/
Operating Room/ICU/CCU

Display

12.1"real color TFT screen

Environment

working environment conditions

Temperature:
Working temperature 0 – 40°C

Humidity:
Working humidity ≤ 85 %

Shipping and storage conditions

Temperature:
Transportation and storage
temperature
-20 – 60 °C

Humidity:
Transportation and storage
humidity ≤ 93 %

Electrical Specifications

Power supply voltage: AC 100~240V

AC, power frequency: 50/60Hz, maximum input
power 70VA

Fuse is F2AL 250V

Working method: continuous work

Built-in lithium battery: d.c 11.1V not less than
2000mA, working time not less than 2 hours.

ECG

Gain: X0.25, X0.5, X1, X2, Auto

Waveform speed: 12.5mm/s, 25mm/s, 50mm/s

Sensitivity >200uV (peak-to-peak)

bandwidth:
Diagnostic mode: 0.05~130Hz
Monitoring mode: 0.5~40Hz
Operation mode: 1~20Hz

Common Mode Rejection Ratio:
Diagnostic mode: >90dB
Monitoring mode: >100dB
Operation mode: >100dB

Electrode polarization voltage: ±300mV

Input impedance ≥5M

DC bias voltage: ±300mV

Calibration signal: 1mV (peak-to-peak), accuracy ±5%

ST segment detection measurement:
Measurement range: -2.0mV~+2.0mV
Measurement accuracy: within the range of
-0.8mV~+0.8mV, the measurement error is
±0.02mV or ±10%, whichever is greater,
other ranges are undefined

Trend Data Length

School limit list: 400 groups

Waveform playback: 6000 seconds

Trend table: 7 days

Trend graph: up to 7 days

Alarm review: 60 groups

ST Segment

Maximum upper limit 2.0mv

Minimum lower limit -2.0mv

Single adjustment amount 0.1mv

Dimension and Weight

Product Size: 262*336*84mm

Product weight: 2.72kg

SpO₂

Measuring range: 0~100%

Resolution: 1%

The accuracy is within the range of 70% to 100%, and the measurement error should be $\pm 2\%$;

In the range of 0% to 69%, the measurement error is undefined

Pulse Rate

Measuring range: 30~300bpm

Resolution: 1bpm

Accuracy: ± 3 bpm

Update time: 1s

Respiration Rate

Adult 0~120BrPM

Children and neonates 0 to 150 BrPM

In the range of 7BrPM~120BrPM, the measurement error should be ± 2 BrPM.

Errors in other ranges are undefined

Standard Accessories

NIBP cuff & tube

ECG cable & electrodes

SpO₂ sensor

TEMP probe

Lithium-ion battery

Power cable

Operator's manual

NIBP

Measuring Range and Precision Range

Adult Systolic blood pressure: 40~270mmHg

Diastolic blood pressure: 10~215mmHg

Mean blood pressure: 20~235mmHg

Static pressure range: 0~300mmHg

Static pressure precision: ± 3 mmHg

Pressure precision:
Max. average error: ± 5 mmHg ;
Max. standard deviation: 8mmHg

Heart Rate

Adult 15 to 300bpm (beats/minute)

Neonatal/Child 15 to 350 bpm (beats/minute)

Accuracy $\pm 1\%$ or ± 1 bpm, whichever is greater

Temperature

Range 0~50C

Resolution 0.1C

Accuracy ± 0.1 C (excluding sensor error)

Optional Accessories

End-tidal CO₂ (optional)

Recorder (optional)

Dual IBP, Nellcor (optional)