



ESM-1400A

Multi-parameter patient monitor



INTENSIVE CARES



ESM-1400A

Features

- All-in-one designed module with 5 standard parameters: ECG, NIBP, SPO2, Pulse Rate and Temperature.
- Optional parameter: ETCO2
- This machine can meet all requirements, and meet requirements of hospital & other departments in emergency treatment, first-aid, rescue, etc.
- Touch screen, 5.0 inch color TFT LCD, simple for operating, quickly & accurately measure the data;
- Build-in rechargeable Li-battery (7200mAh 3.7V), up to 15hours running time, support AC and DC power;
- Adjustable audible and visual alarms, and sensor off alarm;
- Long time monitoring and sleeping monitoring;
- Easy to carry, suitable for ambulance center
- Storage and review data up to 9999 user ID and 3888groups via Trend Graph and Trend List.
- Bluetooth data upload to Android mobile
- Big font screen interface is easy to observe;
- Back light can be adjusted

Specifications

1. General Specifications:

Size: 160mm×160mm×100mm

Net Weight: 750g

Display Specification

Measurement Display: color TFT- LCD/touch screen

Power Supply Indicator: Dual-color LED (red/green)

Charging indicator: A green LED

2. Power Supply

AC Power Adaptor

Input: 100~240V AC, 50/60Hz, 0.7A

Output: DC 5V, 2A

Battery

Li-ion rechargeable battery, 3.7V/7200mAh

Operating Time: 15 hours with full battery capacity.

(Condition: 25°C, NIBP working period is 15 minutes)

Recharge Time: 10 hours.

3. Environment

Temperature

Working: 0°C ~ 45°C

Transport and Storage: -25°C~85°C

Humidity

Working: 30%~85 %

Transport and Storage: 30% ~95 % (no condensation)

4. Monitoring Parameter

ECG

Input:5-lead ECG cable, standard AAMI cable connector

Lead Selection:I, II, III, avR, avL, avF, C

Gain Selection: ×1, ×2, ×4, ×8

Sweep Speed: 12.5, 25, and 50 mm/s

Frequency Response: None filter: 0.05~100Hz (-3dB), filter: 0.5~40Hz (-3dB)

Calibration Signal: 1mV square wave

Heart Rate

Measuring Range: 20 bpm~300 bpm

Renew Time: 1 time per beat

Accuracy: ±1 bpm

Alarm Mode: Audible and visual alarm

SpO2

SpO2%

Measuring Range: 0%~100%

Resolution: 1 %

Accuracy: ±2%(90%~99%),±3%(70%~89%), unspecified (0%~69%)

Pulse Rate

Measuring and Alarm Range: 20~300bpm

Resolution: 1bpm

Accuracy: ±1bpm

NIBP

Method: Oscillometric

Mode: Manual, Auto, STAT

Measuring Interval in AUTO Mode: 1, 2, 3, 5, 10, 15, 20, 30, 45, 60 (min)

Measuring Period in STAT Mode: 5 min

Cuff Pressure Range: 0 mmHg~300mmHg

Pulse Rate Range: 30 bpm~250bpm

Measurement Range: Adult 30 mmHg~255mmHg, Pediatric 30 mmHg~160mmHg

Over-pressure Protection: Adult 300mmHg, Pediatric 220mmHg

Pressure Resolution: 1mmHg

Temperature

Input: Body surface thermal-sensitive resistor temperature sensor

Measuring Range: 0°C~50°C

Accuracy: ±0.1°C

EtCO2 (Optional)

Measuring Range: 0~150mmHg

Resolution: 1 mmHg

Accuracy: ±2mmHg@< 5.0% CO2

Respiration Rate (Optional)

Measuring Range: 0~120rpm

Resolution: 1rpm

Accuracy: ±1rpm

5. Storage and Review

Maximum Data Quantity: 3888 groups

Maximum Trend Time: Continuous 129.6 hours

Standard accessories

Main unit	1
5 lead ECG cable with TEMP sensor	1
NIBP cuff for adult with extend tube	1
SpO2 adult finger probe	1
AC charger	1
User manual in English	1



Optional



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