



# ESM-80

Handheld Monitor



INTENSIVE CARES



## Description

- View position auto-flip for easy view
- Suitable for adults, pediatrics and neonatal patients
- High resolution 2.4" color LCD display
- Selectable working modes: spot check and continuous monitoring
- Adjustable audio and visual alarm
- Long battery life with recharge seat

### Standard configuration:

Standard Digital SpO<sub>2</sub>, Pulse Rate, Plath bar & Spo<sub>2</sub> waveform

### Options:

Nellore SpO<sub>2</sub>, 3-lead ECG, infrared receiving adapter,  
Rechargeable lithium battery (include battery charger & AC-DC adapter)  
Suitable for: ER, General Ward, Recovery Room

## Technical Features

### Safety standards

- SFDA classification: I !
- CE classification: I! b
- Type of protection against electric shock: 11, with internal power device
- Degree of protection against electric shocks
- Degree of protection against ingress of liquid: IPX1
- Equipment type: Handheld

### Mechanical

- Dimension: 58.5mm (w)\*123mm (H)\*28mm (D)
- Weight : < 200g

### Battery

- Type: 3AAA alkaline batteries or
- Lithium ion rechargeable battery (Option)
- Runtime : > 16hours for normal measurement status

### Display

- 2.4" OLEO 320\*240 pixels

### Sound

- Gives audible alarm, button tone and beep tone
- Supports Pitch Tone and multi-level volume;
- Alarm tones meet the requirement of IEC 60601-1-8

### Data Storage

- Displaying way: Trend tabular
- Trend interval: 2 seconds to 30 minutes
- Trend parameter: PR, Spo<sub>2</sub>
- Trend data: Spot-checkmode: ID from 1 To 99,300 groups for each ID
- Continuous monitor mode: 60000 groups can be stored
- Patient Range
- Adult, Pediatric and neonatal patients

### Standard Digital SpO<sub>2</sub>

- Range: 0-100%
- Resolution: 1%
- Accuracy: 70% to 100%: +2%
- 0% to 69%: unspecified
- Refreshing rate: <13 seconds
- Pitch Tone: yes

### PR

- Range: 25 bpm to 250 bpm
- Resolution: 1 bpm
- Accuracy: +2% or +1bpm
- Refreshing rate : < 13 seconds

### Nellor SpO<sub>2</sub> (Option)

- Range: 0% to 100%
- Resolution: 1%
- Accuracy: 70% to 100%: +3 % ( Neonatal), +2 % ( Adult/Child)
- 0% to 69%: unspecified

### PR

- Refreshing rate: 7 seconds
- Pitch Tone: Yes
- Range: 20 bpm to 300 bpm
- Resolution: 1 bpm
- Accuracy: 20bpm-250bpm +3bpm  
251-300bpm unspecified
- Refreshing rate: 7s

### ECG

- Lead type: Standard: 3 lead (RA, LA, LL or R, L, F)
- Lead: I, LI, III
- Gain: 2.5mm/mV (X0.25), 5mm/mV (X0.5), 10mm/mV (X1)
- Input impedance: > 5.0M
- Input current: < 0.1uA
- Baseline recovery: Monitor mode: 3s
- Electrode offset potential: +500 mV
- ECG signal input range: -6.0mV to +6.0mV
- CMRR: Diagnostic mode: 2:90dB
- Standardizing signal: 1mV +5%
- Electrode off indicating: Yes
- Work mode: Monitor and Diagnostic mode
- HR range: 10 bpm - 300 bpm
- HR Resolution: 1 bpm
- HR Accuracy: +1% or +1 bpm



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