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## ES 7 features

ES 7 monitor with 7" colour TFT. User friendly menu driven settings through encoder, It is used in ICU as a bedside monitor.

- Parameters are as follows,
  - ECG
  - SpO2

### 1. General

Dimensions	: 230mm X 200mm X 185mm (LXBXH)
Weight	: Approx.2.7kg. with in built battery.
Display	: 7" Color monitor
Resolution	: 800 x 480 pixels
Language	: English
User Interface	: Encoder & keyboard
Alarm	: User adjustable high & low limit, Audible and visual alarming
Trend	: 24 hrs Graphical and tabular trend of all parameter
Network	: Connectivity to central monitoring system (Panorama)

### 2. Power supply


Input	: 150 - 260 VAC, 50 Hz, 1 Ø.
Output	: 18V DC @ 1.2 A.
Battery	: 12 V /1.2 Ah (in built) sealed lead acid)
Back-up time	: 2-3 hrs on full charge
Power consumption	: < 30 Watts
Charging Time	: 10 to 12 hours (typically)

### 3. Environmental

Operating Temp	: -5 °C to +45 °C
Humidity	: up to 95 % non-condensing.

### 4. ECG

Parameter	: HR
Frequency response	: 0.5 Hz to 35 Hz
Lead selection	: Lead I, II, III, aVR, aVL, aVF and V
Measurement HR range:	10 to 250 bpm.
Gain	: 0.5, 1.0, and 2.0.

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CMRR : > 90 db.  
Sweep speed : 12.5, 25.0, 50.0 mm/S.  
Accuracy of HR : +/- 1 bpm  
Beep on every QRS detected

### 5. SpO2

Parameter : SpO2%, PR, Bargraph, Perfusion index  
SpO2 % Range : 0 to 100%  
Accuracy : ± 2% (70~100% SpO2)  
                  ± 3% (35~69% SpO2)  
Resolution : 1 %  
Indication : Finger absent, Searching pulse  
Measurement PR Range: 10 – 250 bpm  
Accuracy of PR : +/- 2 bpm  
Resolution of PR : 1 bpm  
Probe : Adult, Pediatric, Neonate  
Pitch variation change with oxygen saturation

#### ❖ Settings

- Limit setting for individual parameter
- Facility to set default settings.

#### ❖ Keys:

Following hotkeys are provided for fast and easy operation

- Alarm ON / OFF
- QRS Beep ON / OFF
- Home
- Power

#### ❖ Knobs:

- Encoder interface for browsing
- QRS beep volume knob

#### ❖ List of accessories for ES7

Sr.No.	Material Name	Qty.
1	ECG Cable 5 lead	1
2	SpO2 finger probe(Adult)	1
3	Adapter 18V/1.2A	1
4	User Manual	1
5	Disposable Electrode	10
6	Fuse Slow blow 3A,20mm slow blow fuse	2

\* Due to our continuous product improvement programme, the specification may change without prior notice.