



# ESM-700 Plus

## Patient Monitor



INTENSIVE CARES



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## Patient Monitor



- 8.4" high resolution color TFT display
- 6 parameters: NIBP, SPO2, PR TEMP, RESP, ECG
- Multi-display: standard, large font, trend coaxis
- Up to 4 hours working capacity of built-in rechargeable battery.
- 4 Separated PCB board: main board, power, NIBP, SpO2
- Optional: Masimo/Nellcor SpO2, Suntech NIBP from USA 4-IBP, EtCO2 Recorder, Touch Screen ECG, TEMP, RESP, HR

### Standard Parameters:

#### NIBP

Method: Digital Automatic oscillometric  
 Operation mode: Manual/Automatic/continuous  
 Auto measurement time: Adjustable(1-480min)  
 Measurement Unit: mmHg/Kpa selectable  
 Measurement types: Systolic, Diastolic, Mean  
 Measurement Range:  
 Range of Systolic pressure:  
 Adult: 40-270mmHg  
 Pediatric: 40-220mmHg  
 Neonate: 40-135mmHg  
 Range of mean pressure:  
 Adult: 20-235mmHg  
 Pediatric: 20-165mmHg  
 Neonate: 20-110mmHg  
 Range of diastolic pressure:  
 Adult: 10-215mmHg  
 Pediatric: 10-150mmHg  
 Neonate: 10-100mmHg  
 Over-pressure protection:  
 Double safety protection  
 Resolution: 1 mmHg  
 Alarm: Systolic, Diastolic, Mean

#### SPO2

Measurement range: 0-100%  
 Resolution: 1%  
 Accuracy: +2%(70-100%); 0-69% unspecified  
 Alarm range: 0-100%

#### Pulse Rate

range: 20-300bpm  
 Resolution: 1bpm  
 Error: +1bpm or +2%, whichever is greater

### Optional Parameters:

#### RESP

Method: Thoracic impedance  
 Measurement range: Adult: 7-120rpm;  
 Neonate/Pediatric: 7-150rpm  
 Apnea alarm: YES, 10-40s  
 Resolution: 1rpm  
 Accuracy: +2rpm

#### TEMP

Compatible probe: YSI or CYF  
 Measurement range: 5-50°C  
 Resolution: 0.1°C  
 Accuracy: +0.1°C  
 Refreshing time: about 1  
 Average measuring time: <10s

#### ECG

Lead mode: 5 -lead(R,L,F,N,C)  
 Lead selection: I, II, III, avR, avL, avF, V  
 Waveform: 3 and 7 channel selectable  
 Gain selection: 0.5mm/mv, 1mm/mv, 2mm/mv  
 Sweep speed: 12.5mm/s; 25mm/s; 50mm/s  
 Heart rate range:  
 Adult: 15-300bpm;  
 Neonate/pediatric: 15-350bpm  
 Accuracy: +1bpm or +1%, whichever is greater  
 Resolution: 1bpm  
 Filter: surgery mode: 1-20Hz  
 Monitor mode: 0.5-40Hz  
 Diagnostic mode: 0.05-130Hz  
 Scaling signal: 1mv, +3%  
 Protection: withstand 4000VAC/50 voltage isolation against electrosurgical interference and defibrillation  
 Alarm range: 15-350bpm  
 S-T segment detector:  
 Measurement range: 2.0mV-+2.0mV  
 Alarm Range: -2.0mV- +2.0mV  
 Accuracy: -0.8mV -+0.8mV  
 Error: +0.02mV

Arrhythmia analysis: YES

#### IBP

Channel: 2 channels  
 Range: -50-300mmHg  
 Resolution: 1mmHg  
 Accuracy: ±4mmHg(±4%)  
 Unit: mmHg, Kpa  
 Converter Sensitivity: 5mV/V/mmHg  
 Transducer sites: ART/PA/CVP/LAP/RAP/ICP

#### EtCO2 (Sidestream CO2)

Measurement range: 0-99mmHg  
 Accuracy: +2mmHg (0-40mmHg)  
 Sampling Range: 100ml/min  
 Sampling rate accuracy: 15%  
 Respiration rate: 0-120rpm  
 Respiration accuracy: +2rpm (0-70rpm)  
 +5rpm (>70rpm)  
 Respiration time: <240msec (10% to 90%)  
 Delay time: <2s

#### EtCO2 (mainstream CO2)

Method: Infrared Spectrum Range: 0.0-10% (0-76%) Resolution: 1mmHg (0.1%)  
 Accuracy: <5%(±4.0 mmHg)  
 Or<10%(of Readings)

#### Recorder

Build-in, thermal array  
 Plethysmogram waveform: 2 channels  
 Record mode: manual, on alarm, time-defined  
 Recording width: 50mm  
 Printing speed: 50mm/s  
 Recording type: Frozen waveform record



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