

# EMS-15000A

# Esonic BIOTECH

## Multi-Parameter Patient Monitor



### Features:

- \* 15.6" high resolution color TFT display, 5-channel waveform display
- \* Standard Parameters: ECG, SpO2, NIBP, TEMP, PR ; Optional: IBP (Two Channel) & EtCO2 (Side Stream)
- \* Arrhythmia analysis and ST segment analysis
- \* Up to 800 groups parameter data & 24-hour ECG waveform storage and recall
- \* 480-hour graphic and tabular trends for all parameters
- \* 7-Channel ECG waveforms display simultaneously
- \* Protection against interference from defibrillator, electrosurgical knife
- \* Adult / Pediatric / Neonatal measurement modes
- \* Visual and audible alarms; Networking capability
- \* Build-in rechargeable battery ; Optional built-in thermal printer

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## Multi-Parameter Patient Monitor

### Technical Specification

#### NIBP Monitoring

**Measuring method:** Automatic measurement by intelligent oscillating method

**Cuff inflation time:** <30 seconds (typical adult cuff)

**Initial cuff inflation pressure:** Adult and infant mode: 180mmHg  
Neonate mode: 120mmHg

**Overpressure protection limit:** Adult and infant mode: 300mmHg  
Neonate mode: 120mmHg

**Measuring range: Systolic Pressure:**  
Adult and infant: 25mmHg~265mmHg  
Neonate: 25mmHg~135mmHg  
**Diastolic Pressure:**  
Adult and infant: 12mmHg~220mmHg  
Neonate: 12mmHg~110mmHg  
**Mean Arterial Pressure:**  
Adult and infant: 18mmHg~245mmHg  
Neonate: 18mmHg~120mmHg

**Measuring Accuracy**      Systolic  $\pm 10\%$   
                                    Diastolic  $\pm 10\%$   
                                    Map  $\pm 10\%$

**Measurement Mode**      Manual, Auto, STAT

#### TEMP Monitoring

**Measuring Range**      15.0°C~45.0°C

**Measuring Accuracy**     $\pm 0.2^\circ\text{C}$

#### SpO<sub>2</sub> & Pulse Rate Monitoring

**SpO<sub>2</sub> Measuring Range**    135%~100%  
**Transducer**                    dual-wave length LED  
**Low Perfusion capability**    0.4%~5%  
**PR Measuring Range**        30bpm~250bpm  
**PR Measuring Accuracy**      $\pm 2\text{bpm}$

#### ECG Monitoring

**Heart rate measurement:**  $\pm 0.4\text{mVp} \sim \pm 3\text{mVp}$

**Heart rate display range:** 20bpm~250bpm

**Display Accuracy:**  $\pm 1\%$  or  $\pm 2\text{bpm}$

**Heart rate alarm delay time:** 12s

**Sensitivity selection:** Auto, x1/2, x1, x2, x4  
Tolerance : 5%

**Sweeping speed:** 12.5mm/s, 25mm/s, 50mm/s

**ECG Noise level:** 30 VP-P

**ECG input loop current:** 0.1A

**Input impedance:** 5M

**Common-mode:** 80dB

#### Other Technical Specification

**power supply:** 100-250Vac, 50/60Hz

**power Consumption:** <80 VA

**Display mode:** 15.6 inches TFT color LCD

**Alarming mode:** Audible-visual alarm

**Networking por:** Ethernet port

#### Standard Configuration

ECG, SpO<sub>2</sub>, NIBP, TEMP, PR

#### Optional Configuration

**IBP (Two Channel) , EtCO<sub>2</sub> (Side Stream) & built-in thermal printer**

## Esonic Biotech, Co., Ltd.

**Headquarters:** 14F No. 97, Tun-Hwa S. RD., SEC 2, Taipei, 106 Taiwan, R.O.C

**Factory:** Floor 5, Building A, Xin Yongfeng Industrial Zone, NO.2, Tianbao Road, YingRen Stone, Community, ShiYan Street, Bao 'An District, Shenzhen, Guanggong, China.