



ESM-1400B

Multi-parameter patient monitor



INTENSIVE CARES



ESM-1400B

Features

- 8inch high resolution color TFT LCD display.
- 13 Type Arrhythmic Analysis, Multi-Lead ECG Waveforms Display in Phase, Real time S_T segment analysis, pacemaker detection Drug calculation and titration table
- Efficient resistance to interference of defibrillator and electrosurgical cautery
- SPO2 can testing for 0.1% Weak
- RA-LL impedance Respiration
- Trend Coexist Display
- OxyCRG DyNamic View Display
- Options: EtCO2, touch Screen
- UP to 2-5 hours working capacity of built_in rechargeable battery.
- Large volume of tabular and graphic trends information storage and easy to recall.
- Anti-ESU, anti- defibrillator

Specifications

1. ECG

Lead Mode: 5 Leads or 3 Leads
 3 Leads: RA, LA, LL, Lead mode: I, II, III
 5 Leads: RA, LA, LL, RL, V
 Lead mode: I, II, III, aVR, aVL, aVF, V
 Gain x250, x500, x1000, x2000
 Heart Rate:
 Range: Adult 15~300bpm
 Neonate / Pediatric: 15~350 bpm

Accuracy: $\pm 1\%$ or ± 1 bpm,
 Resolution: 1 bpm
 Sensitivity: $> 200 \mu V$
 Differential Input Impedance $> 5M\Omega$

Bandwidth
 Diagnostic: 0.05~130Hz
 Monitor: 0.5~40Hz

Surgery: 1~20Hz
 2. RESP
 Method: Impedance between R-F (RA-LL)
 Scope of base impedance: 200~4000 Ω
 Bandwidth: 0.1~ 2.5 Hz
 RESP

Range: Adult 2~120BrPM
 Neonate / Pediatric 2~150 BrPM
 Resolution: 1 BrPM
 Accuracy: ± 2 BrPM
 Suffocation warning: 10~40s

3. NIBP
 Method: Oscillometric
 Mode: Manual, Auto, STAT
 Measuring interval in AUTO MODE: 1,2,3,4,5,10,15,30,60,90,120,180,240,480 MINS
 Measuring interval in STAT MODE 5 MINS
 PR range: 40~240 bpm
 Measuring Range and Resolution

Adult SYS 40~270mmHg
 DIA 10~215mmHg
 MEAN 20~235mmHg
 PED SYS 40~200mmHg
 DIA 10~150mmHg
 MEAN 20~165mmHg
 NEO SYS 40~135mmHg
 DIA 10~100mmHg
 MEAN 20~110mmHg

STATIC NIBP range: 0~300mmHg
 Static NIBP accuracy: ± 3 mmHg
 Max Average tolerance ± 5 mmHg;
 Max. Standard tolerance: 8mmHg
 Over-pressure protection:
 Adult mode: 300 mmHg
 Ped mode: 240 mmHg
 Neo mode: 150 mmHg

4. SpO2
 Measuring range: 0~100%
 Resolution: 1%
 Accuracy: 70~100%: ± 2 ;

Pulse Rate:
 Measuring range: 20~300bpm
 Resolution: 1bpm
 Accuracy: ± 3 bpm
 5. TEMP
 Channels: 1
 Measuring:
 Range: 0~50
 Resolution: 0.1
 Accuracy: 0.1 (sensor tolerance no not included)
 6. Power
 Adapter
 Input: AC 90 V 240V, 50/60Hz
 Output: DC 12V~ 20V
 Built-in Battery
 TYPE: 14.8V, 2200mAH Li-ion rechargeable battery
 Operating time: 2-5 hours working time under full power
 Charging time: 2 hours
 7. CO2 (Optional)
 Measuring and alarm range: 0% ~ 13%
 Resolution: 1 mmHg
 Accuracy : 2 mmHg @ $< 5.0\%$ CO₂ (at ATPS)
 RR: 3~ 150 bpm

Standard accessories

main unit	1
5lead ECG cable	1
NIBP cuff for adult with extend tube	1
SpO2 adult finger probe	1
Surface TEMP probe	1
Power Wire	1
User manual in English	1



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