



ESM-1415D

Multi-parameter patient monitor



INTENSIVE CARES



ESM-1415D

Features

- 15" 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: printing, 2-IBP, EtCO2, touch Screen and animal software with animal accessories
- UP to 1-2 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

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: 15~300 bpm
 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

Range: Adult 2~120 BrPM

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: 2

Measuring:

Range: 0~50°C

Resolution: 0.1°C

Accuracy: $\pm 0.1^\circ C$ (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: 1-2 hours working time under full power

Charging time: 2 hours

7. IBP (Optional)

Label: ART, PA, CVP, RAP, LAP, ICP, P1, P2

Measuring and alarm range

ART: 0 ~ 300 mmHg, PA:-6 ~ 120 mmHg

CVP/RAP/LAP/ICP: -10 ~ 40 mmHg,

P1/P2:-10 ~ 300 mmHg

Press Sensor Sensitivity: 5 $\mu V/V/mmHg$,

Impedance: 300-3000 Ω

Resolution: 1 mmHg

Accuracy : $\pm 2\%$ or ± 1 mmHg, which great

Actualization interval: about 1 Sec.

8. 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
5 lead 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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