

HM-12V

Multiparameter Monitor

(12.1 inch)



Feature

1. 12.1-inch Six Standard parameters: ECG, RESP, NIBP, SPO2, TEMP, PR/HR
2. 13 Type Arrhythmic Analysis, Multi_Lead ECG Waveforms Display in Phase, Real time S_T segment analysis, pacemaker detection Drug calculation and titratiotable;
3. Efficient resistance to interference of defibrillator and electrosurgical cautery;
4. SPO2 can testing for 0.1% Weak;
5. RA-LL impedance Respiration;
6. Trend Coexist Display;
7. OxyCRG DyNamic View Display;
8. Bed to Bed view Display;
9. Networking capacity and nurse calling system;
- 10.Options of Internal Recorder, IBP, EtCO2, Central Monitoring System, Touch Screen, VGA, Neonate SPO2
- 11.Built-in rechargeable battery 4400mAh;
- 12.12.1" high resolution color TFT LCD display;
- 13.Large volume of tabular and graphic trends information storage and easy to recall;
- 14.Anti-ESU, anti- defibrillator;
- 15.Capture dynamic waveforms.

Technical Specification

ECG

Lead Mode: 5 Leads (R, L, F, N, C or RA, LA, LL, RL, V)

Lead selection: I, II, III, avR, avL, avF, V,

Waveform: 2 ch

Lead mode: 3 Leads (R, L, F or RA, LA, LL)

Lead selection: I, II, III,

Waveform: 1 ch

Gain: '2.5mm/mV, '5.0mm/mV, '10mm/mV, '20mm/mV, auto

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Heart Rate

Range: 15 ~ 300 bpm

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

Resolution: 1 bpm

Sensitivity: >200 (μ V P-P)

Differential Input Impedance: > 5 M Ω

CMRR

-Monitor: > 105 dB

-Operation: > 105 dB

-Diagnosis: > 85 dB

Electrode offset potential: ± 300 mV

Leakage Current: <10 μ A

Baseline Recovery: < 3S after Defi.

ECG Signal Range: ± 8 m V (Vp-p)

Bandwidth

-Surgery: 1 ~ 15 Hz

-Monitor: 0.5 ~ 35 Hz

-Diagnostic: 0.05 ~ 100 Hz

Calibration Signal: 1 (mV p-p), Accuracy: $\pm 5\%$

ST Segment Monitoring Range: Measure and Alarm -2.0 ~ +2.0 mV

ARR Detecting

Type: ASYSTOLE, VFIB/VTAC, COUPLET, BIGEMINY, TRIGEMINY, R ON T, VT>2, PVC, TACHY, BRADY, MISSED BEATS, PNP, PNC

Alarm: Available

Review: Available

Respiration

Method: Impedance between R-F (RA-LL)

Differential Input Impedance: $>2.5\text{ M}\Omega$

Measuring Impedance Range: $0.3 \sim 5.0\Omega$

Base line Impedance Range: $0 \sim 2.5\text{ K}\Omega$

Bandwidth: $0.3 \sim 2.5\text{ Hz}$

Resp. Measuring Range:

-Adult: $0 \sim 120\text{ rpm}$

-Neo/Ped: $0 \sim 150\text{ rpm}$

Resp. Alarm Range:

-High alarm range limit: $8 \sim 120\text{ rpm}$

-Low alarm range limit: $6 \sim 120\text{ rpm}$

Resolution: 1 rpm

Accuracy: $\pm 2\text{ rpm}$

Apnea Alarm: $10 \sim 40\text{ S}$

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 (Min)

Measuring Period in STAT Mode: 5 Min

Pulse Rate Range: $40 \sim 240\text{ bpm}$

Alarm Type: SYS, DIA, MEAN

Measuring and alarm range

-SYS: $40 \sim 280\text{ mmHg}$

-DIA: $10 \sim 225\text{ mmHg}$

-MEAN: $20 \sim 240\text{ mmHg}$

Resolution Pressure: 1 mmHg

Accuracy Pressure Maximum Mean error: $\pm 5\text{ mmHg}$

Maximum Standard deviation: $\pm 8\text{ mmHg}$

SpO₂

Measuring Range: $0 \sim 100\%$

Alarm Range: $0 \sim 100\%$

Resolution: 1%

Accuracy: $70\% \sim 100\% \pm 2\%$; $0\% \sim 69\%$ unspecified

Actualization interval: about 1 Sec.

Alarm Delay: 10 Sec.

Pulse Rate

Measuring and Alarm Range: $20 \sim 250\text{ bpm}$

Resolution: 1 bpm

Accuracy: $\pm 3\text{ bpm}$

Temperature

Measuring and Alarm Range: 0 ~ 50°C

Resolution: 0.1°C

Accuracy: $\pm 0.1^\circ\text{C}$

Actualization interval: about 1 Sec.

Average Time Constant: <10 Sec.

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: 5uV/V/mmHg

Impedance: 300-3000 Ω

Resolution: 1 mmHg

Accuracy: $\pm 2\%$ or $\pm 1\text{mmHg}$, which great

Actualization interval: about 1 Sec

Standard Packing List

5-lead ECG cable (including RESP)

SpO2 sensor

NIBP cuff

NIBP extension tube

TEMP sensor

AC power adaptor

Fuse

Operation instruction

Optional Function

Internal Recorder, IBP, EtCO2, Central Monitoring System, VGA