

DRE Waveline

Portable Monitor

- ECG • Respiration • Dual Temperature
- Pulse-Oximeter • Non-invasive BP
- Dual invasive BP • Capnography

PRODUCT FEATURES

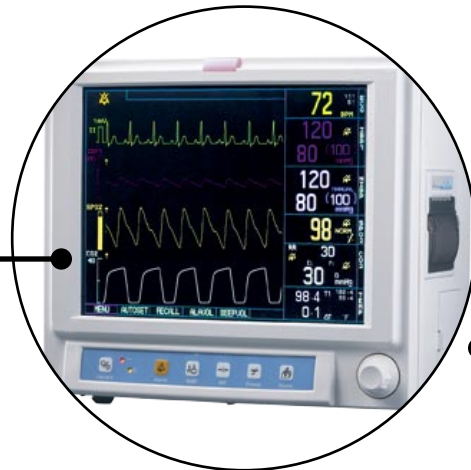
- Upgradable monitor with maximum 7 parameters
- High resolution 10.4" (diagonally) color TFT display
- Multi-lead ECG monitoring
- In-built cautery and defibrillator protection
- 24 hr. graphical/tabular trends with zoom facility with separate trend for storing 240 NIBP readings
- Graded and color coded alarms with audio/visual indicators
- Alarm recall facility to view last 16 stored critical alarms (patient related)
- Demo mode for training the staff
- Optional dual channel thermal array recorder
- Comprehensive patient data entry
- Mains and battery operation [in-built or external battery (12V)]
- Facility to interface with Slave monitor for remote display
- RS-232 connectivity
- FDA 510 (K)

DISPLAY

- Type: high resolution color TFT
- Size: 10.4" (diagonally)
- Resolution: 640 x 480 pixels. Excellent viewing from distance and angle.
- Waveform Field: Configurable screen for max. four waveforms (ECG, SPO2, Resp, Invasive BP or CO2)
- Digital Field: HR/PR, ST, RR, SPO2, T1, T2 or DT, IBP2 & NIBP (sys., dia., MN), ETCO2 and FiCO2

GENERAL

- Dimension: 202 x 310 x 230 mm (H x W x D)
- Weight: 7.5 kg with in-built batteries. Direct interface possible with color central station. Slave display option possible.



Optical Encoder/Keys

Optical Encoder: Rapid access to all the functions and setting of parameters through single knob

Hot Keys: Quick action hard keys for Alarm mute, NIBP Start/Stop, IBP Zero, Freeze and Return to the main screen.

3/5 Lead ECG Monitoring

Automatic detection of 3 or 5 lead ECG cable. Display of I, II, III with 3-lead cable and I, II, III, aVR, aVL, aVF and V with 5-lead cable. In-built cautery and defibrillator protection.

HR Range: 20 to 270 bpm. Programmable arrhythmia detection (bradycardia, tachycardia, asystole, irregular & skipped beat)

Respiration

Impedance pneumography principle. Display of respiration waveform with respiration rate.

Respiration Range: 4 to 150 bpm

User Selectable Apnea Alarm Delay: 5-90 sec. (steps of 5 sec.)

Temperature

Simultaneous monitoring of two temperatures. Display of T1 and T2 or DT (if difference between T1 & T2 is less than 9.9°C)

Temperature Range: 12°C to 43°C

Pulse Oximeter

Pitch variation with change in oxygen saturation.

SPO2 Range: 0-100%. Display of pulse strength, plethysmograph and SPO2 values

Accuracy: 100 to 70% (± 2 digits), 69 to 50% (± 3 digits), 49 to 0% (unspecified). Accuracy in neonatal monitoring 100 to 70% (± 3 digits)

Invasive Blood Pressure

Simultaneous monitoring of 2 channels. Display of Systolic, Diastolic and Mean pressure with respective waveform of IBP1 and IBP2. Individual and common channel zeroing. Labeling facility with automatic limits/gain/color setting. Pressure channel overlapping option available.

Range: -40 to 300mmHg

IBP Scale: 300, 150, 60, 30, 20 & 10 mmHg

Non-Invasive Blood Pressure

Oscillometric principle, display of systolic, diastolic & mean pressure

Modes: Manual, STAT (5min), Automatic (interval 2 min. to 90 min.)

Range: 20 to 255mmHg

Accuracy: ± 5 mmHg

Capnography

Side stream capnography with display of CO2 waveform and digital values of ETACO2 and FiCO2. CO2 gets priority for calculating respiration rate. Gain 20, 40, 60 & 80mmHg.

Flow Rate: 140 ml/min. (+20/-10)

CO2 measurement is possible in mmHg/Kpa/Vol%

ETACO2 Range: 0-80 mmHg

FiCO2 Range: 2-20 mmHg

RR Range: 0-150

Apnea Alarm Delay: 30 sec.

Alarms

Alarm setting for all parameters.

Patient Alarm: Red flashing with audio and message indicator

Equipment Alarm: Yellow flashing with audio and message indicator. Alarm auto-set facility provided

Alarm Suspend: Continuous Yellow

Auto setting of alarm for HR/PR, SPO2, IBP1, IBP2, ETACO2, FiCO2, Respiration and Temperature

Re-Alarm Facility: 3 min. for acknowledged alarm

Trends

24 hr. of graphical and tabular trend for HR/PR, SPO2, IBP1, IBP2, ETACO2, FiCO2, Respiration and Temperature.

NIBP Trend: 240 readings tabular

Alarm Recall: Last 16 alarm events with date, time and message. 2 hr. zoom for graphical trends with mark, record and print facility.

Recording (optional)

Optional external dual channel thermal recorder for recording two waveforms (selectable) with numerical data and alarm status. NIBP and tabular trend recording with patient information. Direct/Delayed/Continuous modes of recording. Record On Alarm facility (selectable).

Power Supply

Universal Power: 95-265V AC, 50/60Hz

Power Ratings: 40W

Battery Type: 12V 4 Ah lead acid

Operating Time: In-built rechargeable batteries for 30 min. of continuous operation under full charge condition (fully loaded, NIBP 2 min. & recorder ON for 2 min.)

Charging Time: 12 hrs. (typical) ambulatory monitoring possible with car battery interface.

External Battery: 12 V 2A (min.)



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