



**lifree**  
medical devices

# LM-12

**Configured vital signs monitor, model LM-12, has the following features:**

- 12.1" color TFT, touch screen
- A maximum of 13 waveforms can be displayed simultaneously
- Rechargeable Li-ion, 2500 mAh battery, with an operating time of 3.5 hours. Optionally, battery can be extended to 5000 mAh for an operating time of 7 hours
- You can place LM monitors in a transport cart or wall-mounted
- 120 hours of graphic and numeric trends for every monitored parameter, and 1200 NIBP events
- Built-in Wi-Fi module (optional)
- Alarms are audible and visual with 3 priority levels, user-adjustable, for every monitored parameter
- With pacemaker detection and defibrillation sync
- Can monitor adult, pediatric and neonatal patients oxyCRG view, ideal for neonatal monitoring
- Able to calculate drug dose titration, hemodynamic, oxygenation, ventilation, kidney function profiles, among others
- Wired or wireless communication with a central monitoring system is available as an option, as is bed-to-bed functionality
- Can integrate a thermal printer module with 3 channels (optional)
- In compliance with 510(k) US FDA requirements

## **ECG:**

- 3/5 lead monitoring with simultaneous waveform of every lead, or those selected by the user
- Optionally, you can include 12-lead monitoring, with simultaneous waveform of every lead, or those selected by the user
- Heart rate (HR) monitoring
- Up to 16 different arrhythmia analysis
- ST analysis, with numeric display of every monitored lead, simultaneously
- Filters can be modified depending of the area where the monitor is being used

## **RESP:**

- Obtained by impedance of lead II or I
- Respiratory waveform display
- Numeric display of respiratory rate (RR)
- Apnea alarm, user-adjustable

## **NIBP:**

- Numeric display of systolic (SYS), diastolic (DIA) and mean pressures, simultaneously
- With 3 operating modes: manual, auto, and continuous
- Adjustable time interval in automatic mode, between 1 and 480 minutes
- Pulse Rate (PR) monitoring with numeric display
- Available modules: LIFEE or SunTech (optional)



# LM-12

## **SpO2:**

- SpO2 numeric display
- Perfusion Index (PI) numeric display and bar graph showing signal quality
- With plethysmography waveform
- Pulse Rate (PR) monitoring with numeric display
- Adequate monitoring of low-perfusion and moving patients with precise, in-house algorithm
- Available modules: LIFEE or Nellcor (optional)

## **TEMP:**

- Two temperature channels are available, only one probe is default
- Simultaneous monitoring of two temperatures, with numeric display of differential temperature
- Skin and endocavity probes, available for temperature monitoring

## **IBP (optional):**

- Invasive blood pressure in up to 8 channels, simultaneously, by invasive method
- Several pressure waveforms display
- Numeric display of systolic (SYS), diastolic (DIA) and mean pressures, simultaneously, when they apply
- Label function: Art, PA, CVP, RAP, LAP, ICP, depending where the pressure is being measured
- With two additional generic labels (P1, P2), user-adjustable
- Pulse Rate (PR) monitoring with numeric display

## **CO2 (optional):**

- Available in mainstream and sidestream technology
- Monitored parameters: EtCO2, FiCO2, AwRR
- FiCO2 and EtCO2 waveforms display
- Air way respiratory rate (AwRR) numeric display
- Apnea alarm, user-adjustable
- Available modules: LIFEE or Respirationics (optional)

## **Cardiac Output/CO (optional)**

- Measures cardiac output by thermodilution technique, which is an invasive method
- Monitored parameters: C.O., TB, TI
- Realizes an average of 6 measurements before cardiac output final result

## **Anesthetic Gases/AG (optional)**

- Masimo technology available for mainstream and sidestream
- Automatically identifies anesthetic gas: HAL, ISO, ENF, SEV, DES
- Other monitored parameters: inspired and exhaled fraction of CO2, N2O, O2 (paramagnetic measurement), mentioned anesthetic gases, AwRR and MAC
- Waveform and numeric display of monitored parameters
- Apnea alarm, user-adjustable