M7810 Specifications

Physical Specification
- M7810 Dimensions: Display Unit: 425mm(L) x 245mm(W) x 384mm(H) 16.7"(L) x 9.6"(W) x 15.1"(H)
- M7810 Dimensions: Module Rack: 503mm(L) x 169mm(W) x 148mm(H) 19.8"(L) x 6.7"(W) x 5.8"(H)

M7810 Weight
- Display Unit with XM module and recorder: 31lb./14kg
- Module Rack (with no modules) 5.5lb/2.5kg

Module weights vary, contract Oricare for details by module.

Display
- Type: Color TFT LCD 17"
- Resolution: 1280 x 1024
- Waves Displayed: 15 max

EKG
- Lead Types: 12-lead(optional), 5-lead, 3-lead
- Gain: Auto, x0.125(1.25mm/mV), x0.25, x0.50, x1, x2, x4(40mm/mV)
- Sweep Speed: 6.25, 12.5, 25, 50mm/s

ECG HR Range:
- Adult: 15 – 300bpm
- Pediatric/Neonate: 15 – 350bpm
- Resolution: 1bpm
- Accuracy: +/-1bpm or +/-1%
- Bandwidth: Diagnostic Mode: 0.05 – 150Hz
- Monitoring Mode: 0.5 – 40Hz
- Surgical Mode: 1 – 20Hz
- S-T Segment Detection: Measurement Range: -2.0mV – +2.0mV
- Alarm Range: -2.0mV – +2.0mV

RESP
- Method: Trans-Thoracic Impedance
- Operation Mode: Auto/Manual
- RR Measurement Range:
  - Adult: 0 – 120rpm
  - Neonate/Ped.: 0 – 150rpm
- Resolution: 1rpm
- Accuracy: +/-2rpm
- Apnea Alarm Threshold: 10, 15, 20, 25, 30, 35, 40 sec.
- Sweep Speed: 6.25, 12.5, 25, 50mm/s

SpO2
- Method: Nellcor Oximax module
- Measurement & Alarm Range: 1 – 100%
- Resolution: 1%
- PR Range: 20 – 300bpm
- Accuracy: +/-2bpm
- Refresh Rate: 1sec.

NIBP
- Measurement Ranges:
  - Adult:
    - Systolic Pressure: 40 – 270mmHg
    - Diastolic Pressure: 10 – 215mmHg
    - Mean Art. Pressure: 20 – 235mmHg
  - Pediatric:
    - Systolic Pressure: 40 – 200mmHg
    - Diastolic Pressure: 10 – 100mmHg
- Accuracy: +/-2%
- Pulse Rate: 40 – 250bpm

IBP
- Measurement Ranges:
  - Adult/Pediatric:
    - Systolic Pressure: 60 – 250mmHg
    - Diastolic Pressure: 40 – 220mmHg
    - Mean Art. Pressure: 45 – 225mmHg
  - Neonate:
    - Systolic Pressure: 40 – 120mmHg
    - Diastolic Pressure: 20 – 90mmHg
    - Mean Art. Pressure: 30 – 100mmHg
- Accuracy: +/-2.5% or +/-5mmHg
- Pressure Accuracy (SP10: 2002):
  - Max mean error: +/-5mmHg
  - Max Standard Deviation: 8mmHg
- Sensitivity: 5µV/V/mmHg
- Impedance Range: 300 – 3000Ohm

C.O. (V-CO module)
- Method: Thermodilution
- Measuring Range:
  - C.O.: 0.1L/min to 20L/min
  - Tblood: 23°C – 43°C
  - Tinjectate: -1°C – 27°C
- Warm-up time:
  - Mainstream: IRMA AX+: Iso 45s
  - Full accuracy mode: 60s
  - Sidestream: <20s
- CO2 (V-CO2 module)
- Type: Sidestream or Mainstream
- Range: 0 – 150mmHg
- Accuracy:
  - +/-2mmHg 0 – 40mmHg
  - +/-5% 41  – 70mmHg
  - +/-8% 71  – 100mmHg
  - +/-10% 101  – 150mmHg

AwRR Range: 0 – 150rpm
- Accuracy: +/-1rpm

Anesthetic Gas/O2 (V-AG module)
- Technology: Infrared Absorption
- Paramagnetic Oxygen: optional
- Games: CO, O2, NO, N2, Ar, Enf, Hal, Sar with Auto Agent ID
- Warm-up time: 15minutes
- Mainframe IRMA AX+: 45s
- Full accuracy mode: 60s
- Sidestream: <20s
- Sample Flow Rate: 50+/-10ml/min

Power Supply
- AC Power: 100 – 240VAC 50/60Hz
- Battery Technology: Rechargeable Li-ion
- Number of Battery: 1 (standard), 1 (option)

Interfaces
- Analog output: Deblur, Sync., Nurse Call, USB (4 or 8), VGA, DVI, RS-232, Module Rack interface (PAM), Network RJ-45

M7810 Patient Monitoring System

Manufactured for:
Oricare, Inc.
1900 AM Drive
Quakertown, PA 18951 USA
GL6007 June 2014
M7810 Modular Patient Monitor is easy to use, reliable and flexible to match your patient’s needs. Whether at work in the Operating Room, Post-Anesthesia Care Unit, Intensive Care Area, NICU or other Medium to High Acuity area, this monitor includes the features and technology you need at a price that makes it an outstanding value. The large 17” Touchscreen is easy to use and view. The optional module rack allows for expansion into the most demanding clinical environments. The M7810 monitor features large storage capacity capable of retaining 1200 NIBP measurements and 150 hours of trends for review. Standard Display modes include Big Numbers and OxyCRG for neonates, NIBP Table, Trends, and much more! M7810 is fully User-Configurable with capability to name and store User-defined Screens.

M7810 Features
- 17” high-resolution color TFT-LCD Display with Touchscreen showing up to 15 waveforms
- Intuitive Touchscreen User Interface – click on parameter or waveform to configure it
- Plug and Play modules – Main unit holds multi-function XM1-J module plus 3 single-wide modules in integrated rack PM module rack holds 8 single-wide modules
- Arrhythmia and S-T segment analysis
- Pacemaker detection, electrocutaneous interference proof
- Defibrillator protection and defibrillator synchronization
- Supports up to 8 IBP channels
- HL-7 Network and Electronic Record support via XML files
- SD card slot for data storage and easy data transfer
- Night mode for ICU and NICU use

M7810 Standard Configuration: 3/5 Lead ECG, Resp, Edan SPO2, NIBP, 2-Temp, 2- IBP, StripChart Recorder
M7810 Options Available: 12 lead ECG, Cardiac Output, Nellcor SPO2, up to 8 IBP, Respironics ETCO2, Anesthesia Gas Analyzer measures 5 Agents with ID

Module Details
- Standard XM1-J module includes 3/5 Lead ECG (12-lead optional), Resp, Edan SPO2, NIBP, 2-Temp, 2-IBP
- Optional modules available include:
  - V-SpO2 Module (NellcorOxiMax™ SpO2)
  - V-NIBP Module (OMRON NIBP)
  - V-IBP Module (up to 8 IBPs possible)
  - V-C.O. Module (Thermodilution Cardiac Output)
  - V-CO2 Module (Respironics Main/Side-stream)
  - V-AG Module (Anesthesia Gases and opt. O2)

Clinical Performance and User Friendly
- M7810 has the advanced capabilities needed to prepare you for any clinical scenario – options available include:
- High Acuity support with Module Rack available for expansion up to 8 IBPs, Gas Analysis, more…
- NellcorOximax™ SPO2 available
- CO2 monitoring is available from Respironics (LoFiO™ or Capnostat 5™) with Mainstream or Sidestream sampling, 50ml/min flow rate
- Anesthesia Gas Analysis capability using PhaseIn technology – sidestream or mainstream sampling available. Past O2 (paramagnetic) available also.

Advanced Features and Connectivity
- M7810 Mounting Solutions: Anesthesia machine via GCX Arm or Shelf or GCX Wall Mount
- Modular flexibility in a compact system
- Large screen for ease of view and control
- Quick Keys on Main Display for frequently used functions
- No need for extra expense and complexity of rack in many cases