MM15
Multi-Parameter Patient Monitor

- **V-BIS Module (Bispectral Index)**
- **V-AG Module (Masimo Mainstream/Sidestream)**
- **V-RM Module (Respiration Mechanics)**
- **V-CO2 Module (Respironics Mainstream)**
- **V-ICG Module (Impedance Cardiography)**
- **V-C.O. Module (Thermal Dilution Cardiac Output)**
- **V-IBP Module (Maximum 8-IBP)**
- **V-NIBP Module (Omron® NIBP)**
- **V-SpO2 Module (Nellcor OxiMax™ SpO2)**

**Features:**
- M10 Transport Monitor/XM Module
- Standard: 3/5-lead ECG, NIBP, SpO2, 2-TEMP
- Optional: Nellcor OxiMax™ SpO2 (iM20 only)
- Standard: 3/5-lead ECG, NIBP, SpO2, 2-TEMP

**Technical Specifications**

**Physical Specification**
- Size: 333 mm(L) x 211 mm(W) x 289 mm(H)
- Weight: < 8.2 kg

**Display**
- 12.1” Full Touch-screen Color TFT
- Resolution: 280 x 1024 dpi

**Environment Requirement**
- Ambient Temperature: -20°C - 55°C (-4°F - 131°F)
- Humidity: 15%-95% non-condensing

**Power Supply**
- External Power Supply: 100-240V AC, 50/60HZ
- Internal Battery Power Supply: Rechargeable Li-ion 4200 mAh 14.8 V DC 2100 mAh (optional)

**RESP**
- Method: Trans-thoracic impedance
- Operation mode: Auto/Manual
- Resolution: 0.15s, 15s, 30s (default), 35s, 40s
- Alarm: 3 levels of audible and visual alarm, alarm events recallable
- Band width: 0.02-8.0 Hz (3dB)
- Sweep speed: 6.25mV/s, 12.5mV/s, 25mV/s, 50mV/s

**ECG**
- Lead type: 5-lead and 3-lead selectable, 12-lead optional
- Lead cable: RA; LA; LL; V1-V6
- Gain selection: 0.25-5.00mV, 5.00-10.00mV, 10.00-20.00mV
- Sweep speed: 25mm/s, 50mm/s
- Frequency range: 0.5-150Hz
- Overload protection: ±5V

**Blood Pressure**
- Measurement range: 0-300mmHg
- Accuracy: ±10mmHg
- Resolution: 1mmHg

**Intensive/Emergency Cares**
- The modular design and the expanded parameter configurations extend possibilities in ICU/ER monitoring on a case-to-case basis.
- The industry-leading CO2 & RM monitoring technology provides the most flexible and accurate solution to the extreme cardiac cases.
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- Mediblu’s unique iSEAP™/SEMIP Cardiac Monitoring solutions brings flexible choices and reliable application of ICG technology, meeting a wide range of patient needs, including non-intubated patients.
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- The latest respiratory gas and brain activity monitoring technology backs you up with the most reliable performance during surgeries.

**Respiratory Monitoring**
- The industry-leading CO2 & RM monitoring technology provides the most flexible and accurate solution to the intubated and non-intubated patients.

**Cardiac Monitoring**
- Mediblu’s unique iSEAP™/SEMIP ECG algorithm, together with the application of ICG technology, brings flexible choices and reliable measurements on even the extreme cardiac cases.

**Anesthesia Monitoring**
- The modular design and the expanded parameter configurations extend possibilities in ICU/ER monitoring on a case-to-case basis.

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- Mediblu’s unique iSEAP™/SEMIP Cardiac Monitoring solutions brings flexible choices and reliable application of ICG technology, meeting a wide range of patient needs, including non-intubated patients.
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Technical Specifications (Cont.)

SpO2
Measurement & Alarm Range: 0 - 100%
Resolution: 1%
Accuracy: ±2% (70-100%, Adult/Pediatric);
±3% (70-100%, Neonate)
PR Measurement and Alarm Range: 30 - 300bpm
Resolution: 1bpm
Accuracy: 3bpm Refresh 1s
ISO 9919
SpO2 (By Nellcor OxiMax™)
Measurement & Alarm Range: 0 - 100%
Resolution: 1%
Accuracy: ±2-3% (70-100%, Adult/Pediatric);
±3-3.5% (70-100%, Neonate)
PR Measurement and Alarm Range: 20 - 300bpm
Resolution: 1bpm
Accuracy: 3bpm (depends on probe)

Temperature (2 Channels, 1 probe by default)
Measurement range: 0~50ºC (32-122ºF)
Resolution: 0.1ºC
Accuracy: ±0.1ºC (without probe)
Channel: Dual-channel. Provide T1; T2; ΔT

IBP (Multi-channel extendable)
Measured Pressure: ART, PA, CVP, RAP, LAP, ICP, P1,P2
Measurement range: -50 - 300 mmHg;
Resolution: 1 mmHg
Accuracy: ±2% or ±1mmHg, whichever is greater (without probe)
Sensitivity: 5μV/V/mmHg;
Impedance range: 300-3000Ω
IEC 60601-2-34

CO2 (Mainstream / Sidestream)
By Philips Respironics CAPNOSTAT 5 & LoFlo Technology
Range: 0~ 150mmHg
Accuracy: ±2% 0 ~ 40mmHg, ±5% 41~70mmHg
±5% 71~100mmHg
±10% 101~150 mmHg
AwRR Accuracy: ±1rpm

Anesthetic GAS/O2
Technology Infra-red absorption characteristic
Paramagnetic Oxygen: Optional
Gas CO2, O2,N2O, Des, Iso, Enf, Hal, Sev
Warm-up time: IRMA AX+ Iso accuracy mode: 45s
Full accuracy mode: 60s
Sample flow rate (for ISA OR+ / AX+) 50 ±10 ml/min
Measuring range: CO2: 0 ~ 15%
N2O: 0 ~ 100%
Hal/Iso/Enf: 0 ~ 8% Sev: 0~10%
Des: 0 ~ 22%
O2: 0 ~ 100%(ISA OR+/AX+)
Respiratory Rate: 0-150bpm ±1bpm

Thermal Recorder
Built-in, direct thermal pixel array recorder
2 channels printing and 1,2 channels selectable
Up to 3 channels printing and 1,2,3 channels selectable (to be released)
Print speed: 25mm/s, 50mm/s (to be released)
Paper width: 50 mm

I/O Interface
8-USB Ports
SD Card Socket
RS-232 Serial Port
VGA output
RJ-45 Ethernet Port. IEEE 802.3 DVI output
Analog and Nurse Call output Defibrilation Synchronization Output
WLAN Access Point 802.11g 54Mbps (optional)

Wi-Fi
IEEE 802.11b/g/n
Frequency Band 2.4 GHz ISM band
Modulation OFDM with BPSK, QPSK, 16-QAM, and 64-QAM
Typical Transmit Power (±2 dBm) 17 dBm for 802.11b DSSS
15 dBm for 802.11b CCK

ISO 21647
Mediblu offers quality products.
We provide integrated solutions for all your medical needs.

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