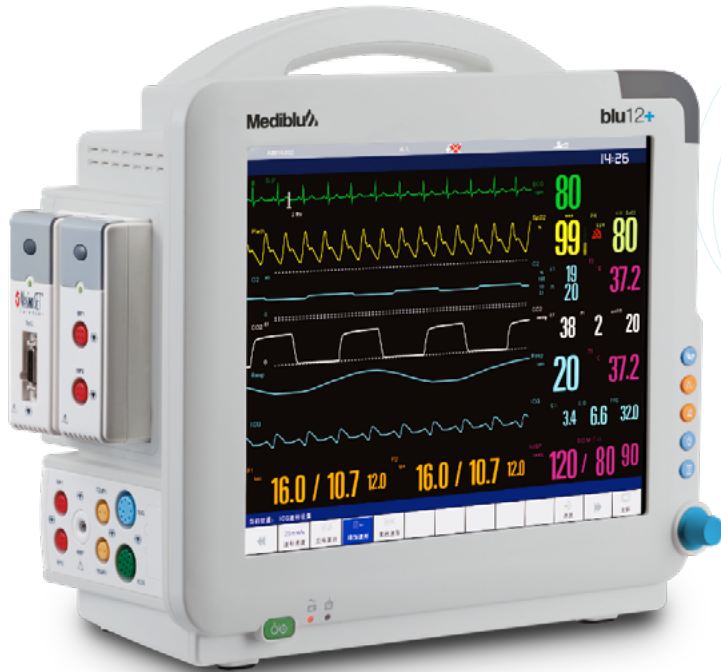


# blu12+

## Multi-Parameter Patient Monitor



**Advanced ergonomic design, portable, compact & lightweight. Userfriendly and intuitive user interface and software:**

- » 12.1" Touch Colour LCD Screen.
- » Multi-channel waveform display.
- » Portable operation, multi-pronged.
- » Full-screen touch, fingertip operation.
- » Fast button backlit design for easy night operation.
- » Ergonomic knob operation, classic and flexible.
- » Plugin & use, powerful 2 module slots, easy to upgrade.
- » Flexible combination, resource sharing.
- » Global gold standard Masimo SpO2, ensures low perfusion measurement.
- » Sun tech NIBP blood pressure, accurate blood pressure measurement.

Suitable for adult, pediatrics & neonates

**Easy to use Multi-Parameter Patient Monitor, dedicated to In-hospital applications including emergency room pre and post-operative care, ICU, Operating room, ambulatory surgery, intermediate care/step down units, labour & delivery, and hospital based special procedure areas.**



### Anesthesia Monitoring

The latest respiratory gas and brain activity monitoring technology for the most reliable performance during surgery.



### Respiratory Monitoring

Industry-leading CO2 & RM monitoring technology provides the most flexible and accurate solutions for both the intubated and non-intubated patients.



### Cardiac Monitoring

Mediblu's ECG algorithm, together with ICG technology allows for flexible and reliable measurements even for extreme cardiac cases.



### Emergency Cases

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

## Performance and Technical Specifications

### General

- » Size: 318x264x152mm
- » Weight ≤ 4.5kg
- » Display 12.1" Color TFT - Resolution 600 pixels
- » Intelligent audio, three level, and Visual, Red Led, comprehensive alarm

### Environment

- » Working temperature: 0-+40°C Storage temperature: -20-+50 °C
- » Safety IEC60601 Approved

### Power Requirement

- » Power Voltage AC 100-240V 50/60Hz; DC 12V (Optional)
- » Power Rate 80VA
- » Operating time under normal use ≥ 3 Hours Charge time 6 Hours

### Thermal Printer (Optional)

- » Method: Thermal dot array with 3 tracks
- » Paper width: 50 mm with Paper Speed of 12.5/25/50 (mm/sec)

### System output

- » Ethernet Network standard RJ45 socket; Defibrillation Out. BNC connector
- » USB 2 sockets; Video Output 1VGA (Option); Nurse call 1 Rj11 connector

### Data Storage & Review

- » Trend: Land trend: 168h,min.resolution is 1min (store when power goes off)
- » NIBP measurement reviewing: 1000 groups
- » ARR event: 128 groups of ARR event and the associated waveform.
- » Alarm events:128 groups of parameter alarm events and associated parameter waveform at the alarm moment
- » Full Disclosure waveform: 96 hours for 3 waveforms(with 4G SD card)

### ECG

- » Mode: 3/5/12-leads
- » Lead selection: I, II, III, aVR, aVL, aVF, V1-V6 (option)
- » Gain selection: AUTO, 0.25x, 0.50x, 1.0x, 2.0x, 4.0x
- » Sweep speed: 6,25mm/s,12,5mm/s,25mm/s,50mm/s
- » Heart Rate:15-300 bpm -HR accuracy: ± 1 %
- » ST segment deviation analysis: -0.8-+0.8mV
- » ST accuracy: ±0.02mv

### NIBP (Non-invasive blood pressure)

- » Method: Automatic Oscillometry
- » Displayed parameters: Systolic, Diastolic and mean arterial pressure
- » Measurement type : adult, paediatric, neonatal
- » Operation Modes; Manual, Auto and Continuous
- » Measurement range:
- » Systolic 4.0 - 36.0 kPa
- » Diastolic 1.3 - 33.0 kPa
- » Mean 2.6 - 35.0 kPa
- » Accuracy : ± 0.4 kPa or 5 % Resolution: 0.1 kPa
- » Protection: Hardware and SW overpressure protection

### SpO2, Masimo SpO2 (Optional)

- » Display type: waveform data
- » Measurement range (0 to 100) %
- » Measurement precision: (70 to 100) %: ±2 %
- » SpO2 resolution 1%

### Temperature (Rectal & Surface)

- » Method: Thermal resistance
- » Number of channels: 6
- » Displayed parameters: T1, T2 and □□
- » Measurement range: 0,0°C to 50.0°C, Resolution: ±0.1 °C

### ETCO2 Sidstream, Mainstream, ETCO2 Microstream (Optional)»

- » Measure method: infrared spectrum
- » Warm up lime: Capnogram displayed in less than 15 seconds
- » Measurement Range: 0 - 19.7%(0-150mmHg)
- » Resolution: 1 mmHg, Unit: %, mmHg, kPa
- » CO2 Accuracy: 0-40mmHg,±2%,101-150 mmHg, ± 10%

### IBP (Invasive blood pressure)

- » Method: Directly invasive pressure measurement
- » Number of channels: 6
- » Pressure readings: Systolic pressure, diastolic pressure and mean pressure
- » Pressure labels: ART, PA, LAP, RAP, RAP, CVP, ICP, P1/P2
- » Measurement range:(-10 to 350) mmHg
- » Dynamic Accuracy: ± 4mmHg or 4%, whichever is greater

### Cardiac Output

- » Method: Thermal dilution
- » Measurement parameters: C.O., TB, TI, C.I.
- » Measurement Range: C.O. 0.1- 20 L/min
- » TB: 23.0 - 43.0°C,TI: -1 0 - 27.0°C, Resolution:C.O.: 0.1 L/min
- » TB Alarm range: 23.0-43.0-c , high/low limit can be adjusted continuously

### Anesthesia Gas Analysis (Optional)

- » Measure method: Infrared spectrum
- » Measure mode: Mainstream or Sidestream
- » Fi and Et values: CO2 N2O O2 AG (HAL, ISO, ENF, SEV, DES)
- » Resolution: 1 %- Unit:%.
- » Calibration: Auto Room air calibration when changing airway adapter (<5 sec)
- » Warm-up time: <10 s, full accuracy within 1 min
- » awRR measurement range: 0-150 rpm, Accuracy : ± 1 rpm

### RESP

- » Method: Thoracic impedance
- » Lead Selected from: 1 (RA-LA) or II (RA-LL); Default: 1
- » Gain: x0.25, x1 x2 x4,-Bandwidth: 0.25 Hz ta 2.0Hz (-3dB)
- » Sweep speed: 6.25mm/s, 12.5mm/s, 25mm/s
- » Measurement Range: 0-150 rpm,- Resolution : 1 rpm
- » Delay of Apnea Alarm: 10s, 15s, 25s, 30s, 35s, 40s, 45s, 50s, 55s, 60s

### Standard configuration:

- » 15" Touch screen display, 3 Standard module slot, 3/5 Lead ECG, HR, RESP, NIBP, SpO2, PR,2-TEMP,1 RJ45 Ethernet socket, , 1 VGA port, 2 USB1 .1 Lithium rechargeable battery.

### Optional Modules:

- » Sidestream CO2, Microstream CO2, Mainstream CO2, AG , CO IBP , 2°Temp, Masimo SpO2 , Nellcor SpO2.

### Optional Accessories

- » Printing: 3 channel thermal recorder, Mounting Rolling stand , wall mount, Battery: 11 .1V/4.0AH Rechargeable Lithium Battery.
- » Other options: External Display, Wireless Lan. Extensive Memory card, Analog Output (ECG or IBP)

The Central Monitor Blu6000 offers  
Wireless networking and WAN  
communication to multiple Patient-  
Monitors

