



# Experience the Finest Display

MULTI PARAMETER MONITOR  
**ULTIMA PRIME**



*Happier Living Everyday*



**Provides connectivity to BPL Medius+ Central Nursing Station Software and displays a maximum of 10 waveforms**



#### High Resolution Display

High resolution 12.1" TFT colour display, optional Touch screen



#### Standard Configuration

Standard configuration of ECG, RESP, Nellcor SpO<sub>2</sub> / Masimo SpO<sub>2</sub> / Digital SpO<sub>2</sub>, NIBP, TEMP



#### Calculation

The added functions of the device are Drug dose calculation, HRV analysis & Hemodynamic calculation.



#### Connectivity to CNS

Connectivity to optional BPL Medius+ Central Nursing Station Software (Wired or optional wireless)



#### 168 Hour Trend

Provides for maximum of 168 hours of trend review



#### ECG Monitoring

5 Lead ECG / 3 Lead ECG (optional)



#### Waveform Display

Maximum 10 waveforms display



#### Arrhythmia and ST Analysis

The device provides for arrhythmia detection and ST analysis



#### Optional Parameters & Configuration

2-IBP, ETCO<sub>2</sub> (Main Stream / Side Stream), Multi-Gas / AGM, Noninvasive Cardiac Output, HL7 Output and Thermal Recorder



## Product Specifications

General	
Display	12.1 inch Color TFT LCD Display optional : touch screen
Resolution	800x600 pixels
Battery operation in Non-Touch Model	Rechargeable Lead Acid Battery 12 V, 2.0Ah. ≥60 Minutes operating time under normal use and full charge (with additional Battery>120 Mins).
Battery in Touch Screen Model	Rechargeable Lithium ion battery, 11.1 V, 4.0Ah ≥240 minutes (2 batteries for 480 minutes)
Weight	4.5 Kg
Dimension	318 x 264 x 152mm

ECG / Respiration	
Lead Mode	5 Lead, 3-Lead (Optional)
Heart Rate Range	Adult:10~300 bpm 10-350 bpm
Sensitivity	≥0.2 mVp-p
Accuracy	+1% or + 1 bpm, whichever is greater
CMRR	Monitor mode: 105dB Surgery mode: 105dB Diagnostic mode: 90dB
Frequency mode (-3dB)	Monitor mode: 0.5-40Hz Surgery mode: 1-25Hz Diagnostic mode: 0.05-150Hz
ST Segment Range	-2.0mV ~ +2.0mv
ECG Sweep Speed	12.5/25/50mm/sec
Respiration Method	Impedance variation between RA-LL (R-F)
Respiration Rate Range	0 ~ 150 rpm

NiBP	
Method	Automatic Oscillometry
Unit	mmHg/Kpa
Range of Measurement	Adult: 10~270mmHg Child: 10~235mmHg Neonate: 10~135mmHg Mean: 20~235mmHg
Pulse Rate Range	40~240 bpm
Cuff pressure range	Adult 0~280mmHg
Auto measurement interval	1, 2, 3, 4, 5, 10, 15, 20, 30, 45, 60, 90 Minutes; 2, 4, 8 Hours

Nellcor SpO <sub>2</sub>	
Saturation Range	1-100%
Resolution	1%
Accuracy	At 70~100% : ±2 digits (Adult) At 70~100% : ±3 digits (Neonate) At 70~100% : ±2 digits (Low perfusion) At 0~69% : unspecified
Pulse rate range	20~300 bpm
Resolution	1 bpm
Pulse rate accuracy	±3 digits

Masimo SpO <sub>2</sub>	
Saturation Range	1-100%
Resolution	1%
Accuracy	At 70~100% : ±2% (Measured without motion in adult/ pediatric mode) At 70~100% : ±3% (Measured without motion in neonate mode) At 70~100% : ±3% (Measured with motion) At 0~69% : Not specified
Pulse Rate Range	25~240 bpm
Resolution	1 bpm





## Product Specifications

Pulse Rate Accuracy	± 3 bpm (Measured with motion) ± 5 bpm (Measured with motion)
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Digital SpO <sub>2</sub>	
Measurement Range	1 ~ 100 %
Resolution	1%
Accuracy	At 70~100%, ±2% At 0~69%, unspecified
Pulse Rate Range	25 ~250 bpm
Resolution	1 bpm
Pulse Rate Accuracy	±1% or ±1 bpm, whichever is greater

Temperature	
Measurement Range	0°C ~ 50°C
Accuracy	±0.2°C at 45.1°C - 50°C; ±0.1°C at 25°C - 45°C; ±0.2°C at 0°C - 24.9°C; (Exclusive of probe)
Connecting Cable	Compatible with YSI 400 Series

Trend	
Graphical Trend	168 Hours
Alarm Events	1000 -1800
NiBP Measurements	750 - 1000

Recorder	
Method	Thermal dot array
Paper Width	50 mm

Paper Speed	12.5/25/50(mm/sec)
Traces	Maximum 3 traces

Environmental	
Temperature	0°C-45°C
Relative Humidity	<80%
Atmospheric Pressure	86 kPa-106 kPa

Options	
2-IBP Channels	
Touch Screen Display	
ETCO <sub>2</sub> (Main Stream or Side Stream)	
Multi-Gas / AGM	
Non-Invasive Cardiac Output (Impedance cardiography)	
Thermal Recorder	
<b>Note:</b> Optional features shall be configured at factory prior to shipment based on customer order.	

Standard Accessories	
ECG Patient Cable (5 lead)	1 No.
Disposable Electrodes	1 Packet
NiBP Cuff	3 Set
Temperature Probe	1 No.
SpO <sub>2</sub> Adult Sensor Probe	1 No.
Power Cord	1 No.
Rechargeable Battery	1 No.

### CERTIFIED ISO 13485 : 2016 COMPANY

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