

## CETUS x12 Patient Monitor

### Features

- 12.1" color TFT LCD screen
- 8 waveform display, up to 12-lead ECG analysis
- Useful calculation  
(Hemodynamic, Drug Dose, Oxygenation, Ventilation)
- Pacemaker detection
- ST & arrhythmia analysis
- OxyCRGs screen
- Wired/Wireless CMS, support HL7 protocol to HIS
- SpO2 pulse-tone modulation (Pitch Tone)
- MEWS (Modified Early Warning Score)
- Graphical & tabular trend review (120 hours)
- Rechargeable Lithium-Ion Battery (2600 mAh)



## 12.1" color TFT LCD screen, wide and flat screen design, economic and reliable

Configuration: ECG+SpO2+NIBP+2TEMP+PR+RESP, Li-ion battery

Optional: Touch-Screen, 12-lead ECG, Masimo SpO2, 2/4/6 IBP, C.O., EtCO2, Multi-Gas, BIS, NMT, VGA, Thermal Recorder, Wired/Wireless CMS

### Technical Specifications

#### Display

12.1" TFT (touch screen optional)

Resolution: 800 x 600

Number of traces: 8 waveforms

#### ECG

Lead type: 3-lead, 5-lead, 12-lead

ECG waveform: 2 channels, 7 channels, 12 channels

Display sensitivity: 2.5 mm/mV ( $\times 0.25$ ), 5 mm/mV ( $\times 0.5$ ), 10 mm/mV ( $\times 1.0$ ), 20 mm/mV ( $\times 2.0$ )

Wave sweep speed: 6.25 mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s

Bandwidth

Diagnostic mode: 0.05 Hz~100 Hz

Monitor mode: 0.5 Hz~40 Hz

Surgery mode: 1 Hz~20 Hz

Strong filter mode: 5 Hz~20 Hz

CMRR >100 dB

Notch: 50/60 Hz notch filter can be set to on or off

Differential input impedance >5M $\Omega$

Electrode polarization voltage range:  $\pm 400$  mV

Baseline recovery time <3s after defibrillation (in monitor and surgery mode)

Calibration signal: 1mV (peak - peak), accuracy  $\pm 3\%$

#### RESP

Measurement method: Thoracic electrical bioimpedance

Rate: 0 – 150 bpm

Measuring lead: Lead I, II

Wave gain:  $\times 0.25$ ,  $\times 0.5$ ,  $\times 1$ ,  $\times 2$

Respiratory impedance range: 0.5-5 $\Omega$

Baseline impedance: 500-4000 $\Omega$

Gain: 10 grades

Scan speed: 6.25 mm/s, 12.5 mm/s, 25 mm/s

#### Pulse Rate

Range: 30~254 bpm

Resolution: 1bpm

Accuracy:  $\pm 2$ bpm (non-motion)  
 $\pm 5$ bpm (motion)

Refreshing rate: 1s

#### TEMP

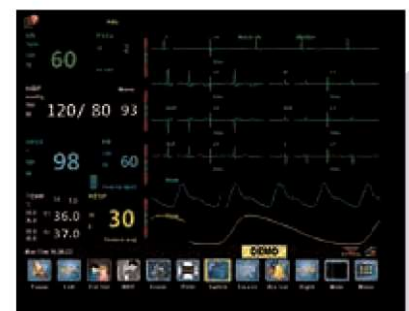
Accuracy:  $\pm 0.1$  °C or  $\pm 0.2$  °C °F (without probe)

Measurement range: 5~50 °C (41~122 °F)

Channel: Two channels

Resolution: 0.1 °C

Parameters: T1, T2 and TD



7-lead ECG

# CETUS x12 Patient Monitor

## Technical Specifications

### NIBP

Measurement method: Automatic oscillometric method

Operating mode: Manual, automatic, continuous

Measurement unit: mmHg/kPa selectable

Typical measurement time: 20~40 s

Measurement type: Systolic, Diastolic, Mean

Measurement range (mmHg)

Range of Systolic pressure:	Adult	40-270
	Pediatric	40-200
	Neonatal	40-135
Range of Diastolic pressure:	Adult	10-210
	Pediatric	10-150
	Neonatal	10-95
Range of Mean pressure:	Adult	20-230
	Pediatric	20-165
	Neonatal	20-105

Measurement accuracy

Maximum average error:  $\pm 5$  mmHg

Maximum standard deviation: 8 mmHg

Resolution: 1 mmHg

Interval: 1, 3, 4, 5, 10, 15, 30, 60, 90, 120, 180, 240, 480 minutes

Overpressure protection: Software and hardware, double safety protection

Cuff pressure range: 0-280 mmHg

### SpO2

Measurement range: 0-100%

Resolution: 1%

Accuracy:  $\pm 2\%$  (70-100%, Adult/Pediatric);  
 $\pm 3\%$  (70-100%, Neonate);  
0-69%, unspecified

Refreshing Rate: 1 s

### Masimo SET® SpO2 (Optional)

Measurement range: 0-100%

Resolution: 1%

Accuracy:  $\pm 2\%$  (70-100%, Adult/Pediatric, non-motion, low perfusion);  
 $\pm 3\%$  (70-100%, Neonate, non-motion);  
 $\pm 3\%$  (70-100%, motion);  
0-69%, unspecified

Refreshing Rate: 1 s

### Recorder (Optional)

Built-in, Thermal dot array

Horizontal resolution: 16 dots/mm (25 mm/s paper speed)

Vertical resolution: 8 dots/mm

Paper speed: 25 mm/s, 50 mm/s

Number of waveform channels: 3

### Operation Environment

Power: AC 100-250V, 50/60Hz

Temperature: 5-40 °C

Humidity: <80%

Patient Range: Adult, Pediatric, Neonate

Battery backup: Standard 2-3 hrs (2.600 mAh), optional 3-5 hrs (4.800 mAh)





