



Patient Monitoring Solutions







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)
- Modular configuration for sensors and functions



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 (×0.25), 5 mm/mV (×0.5), 10 mm/mV (×1.0), 20 mm/mV (×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: 1Hz~20Hz

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 >5MΩ

Electrode polarization voltage range: ±400 mV

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

Calibration signal: 1mV (peak - peak), accuracy ±3%

RESP

Measurement method: Thoracic electrical bioimpedance

Rate: 0 – 150 bpm

Measuring lead: Lead I, II

Wave gain: ×0.25, ×0.5, ×1, ×2

Respiratory impedance range: 0.5-5Ω

Baseline impedance: 500-4000Ω

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: ±2bpm (non-motion) ±5bpm (motion)

Refreshing rate: 1s

TEMP

Accuracy: ±0.1 °C or ±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

IBP (Optional)

Channel: 2, 4 or 6-channel

ART: 0 to 300 mmHg

PA: -6 to 120 mmHg

CVP/RAP/LAP/ICP: -10 to 40 mmHg

Measurement range: P1/P2 -50 to 300 mmHg

Resolution: 1mmHg

Accuracy: +/-2% or +/-1mmHg, whichever is greater (without sensor)

Sensitivity: 5uV/mmHg/V

Impedance range: 300 to 3000 Ohm

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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: ± 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: 1s

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: 1s

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)





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