

Critical Care Patient Monitor

Features

- 15.6" High resolution TFT LCD Touch screen
- 10 waveform display, up to 12-lead ECG analysis
- Useful calculation (Hemodynamic, Drug Dose, Oxygenation, Ventilation)
- · Pacemaker detection
- ST & arrhythmia analysis
- Sp02 support PVI and PI, low perfusion 0.2%
- Aspect BISx module, NMT module optional
- Wired/Wireless CMS, support HL7 protocol to HIS
- Sp02 pulse-tone modulation (Pitch Tone)
- VGA support external display
- Graphical & tabular trend review (120 hours)
- · 48 hours full disclosure wave review for each patient



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CETUS x15 Critical Care Patient Monitor

Multiple parameter options satisfy the need for ICU, CCU, NICU.

Configuration: ECG, SpO2, NIBP, TEMP, Resp, PR; 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



Masimo SET* Sp02 Provides anti-motion and anti-low perfusion Sp02 measurement.



Bispectrial Index™ by Aspect
Monitor the level of consciousness
of the patient under general anesthesia
or sedation. provides BIS, SQI, EMG, SR,
SEF, TP, PC value and EEG wave.



Masimo Phasein IRMATM/ISA Sidestream/Mainstream EtCO2 Allows selection of the modality best suited to the application, monitoring with infrared absorption technique.



NMT Intergrade Organon TOF-Watch® SX



IBP 2-4 Channel, support IBP waveform overlapping display



C.O. Cardiac Output

Technical Specifications

Display

15.6" TFT (touch screen optional) Resolution: 1366 x 768

Number of traces: 10 waveforms

1/0

LAN: 1 standard RJ45 port WLAN: IEEE 802.11b/g/n USB: 2 USB connectors

VGA: 1 VGA monitor connector (option)
Output: 1 connector for Nurse call,
Defib Sync Analog Output (options)

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

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: 5Hz~20 Hz

MRR>100 dB

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Technical Specifications

Notch: 50/60 Hz notch filter can be set

to on or off

Differential input impedance $>5M\Omega$

Electrode polarization voltage range: ±400mV

Baseline recovery time <3s after defibrillation

(in monitor and surgery mode)

Calibration signal: 1 mV (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: $0.5-5 \Omega$

Baseline impedance: $500-4000 \Omega$

Gain: 10 grades

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

TEMP

Accuracy: ± 0.1 or ± 0.2 °F (without probe) Measurement range: $5 \sim 50 \%$ ($41 \sim 122$ °F)

Channel: Two channels

Resolution: 0.18

Parameters: MT1, T2 and TD

Sp02

Measurement range: 0-100%

Resolution: 1%

Accuracy: ±2% (70-100%, Adult/Pediatric);

±3% (70-100%, Neonate);

0-69%, unspecified

Refreshing Rate: 1s

Masimo SET® Sp02(Optional)

Measurement range: 0-100%

Resolution: 1%

Accuracy: ±2% (70-100%, Adult/Pediatric,

non-motion, low prefusion);

±3% (70-100%, Neonate,

non-motion);

±3% (70-100%, motion); 0-69%,

unspecified

Refreshing Rate: 1s

Pulse Rate

Range: 30~254 bpm

Resolution: 1 bpm

Accuracy: ±2bpm (non-motion)

±5bpm (motion)

Refreshing rate: 1s

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

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CETUS x15 Critical Care Patient Monitor

Technical Specifications

Range of Mean pressure:

Adult 2

20-230

Pediatric

20-165

Neonatal 20-105

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or 0-2

Measurement accuracy

Maximum average error: ±5 mmHg

Maximum standard deviation: 8 mmHg

Resolution: 1 mmHg

Interval: 1, 2, 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

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 Ω

C.O. (Optional)

Method: Thermodilution

Range: C.O.: 0.2 to 20 L/min

TB: 23 to 45 🛭

T1: -1 to 271

Accuracy: C.O.: ±5% or ±0.1L/min,

whichever is greater

TB, T10±0.50 (without sensor)

Standard Mainstream CO2 (Optional)

Measurement range: 0-19.7%, 150 mmHg,

or 0-20 kPa

Resolution: 0.1 mmHg

Measurement accuracy

0-40 mmHg: ± 2 mmHg

41-70 mmHg: ± 5% of reading

71-100 mmHg: ± 8% of reading

101-150 mmHg: ± 10% of reading

Respiration rate: 3-150 bpm.

Respiration rate accuracy: 1 ±1bpm

Warm-up time: 97% within 8 s,

full accuracy within 20 s

Standard Sidestream CO2 (Optional)

Measurement rage: 0-20% (0-150 mmHg)

Accuracy: < 5.0% CO 2: ± 2 mmHg

> 5.0% CO 2: < 6% of reading

Respiration rate: 2~150 BPM

Respiration rate accuracy: 1% ±1BPM

Warm-up time: 97% within 45 s, full accuracy

within 10 min.

Rise times (t 10-90%): About 100 ms,

when flow is 100 ml/min, adult water trap,

1.5 m sampling tube

Delay time: <3 sec when flow is 100 ml/min,

adult water trap, 1.5 m sampling tube

Recorder (Optional)

Built-in, Thermal dot array

Horizontal resolution: 16 dots/mm

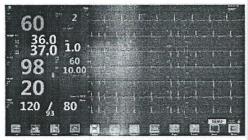
(25 mm/s paper speed)

Vertical resolution. 8 dots/mm

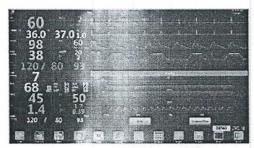
Paper speed 25 mm/s 50 mm/s

Number of waveform channels: 3

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12-lead ECG



OxyCRG screen

Phasein ISA Sidestream CO2 (Optional)

Warm-up time: Full accuracy within

10 seconds

Sampling flow rate: 50ml/min(+/-10/min)

Measurement Range: 0-25%

Accuracy: $0\sim15\%$ (±0.2% of the reading)

15~25%, unspecified

Rise time: 200 ms, typical at 50 ml/min

flow rate

Total response time: within 3 seconds

(with 2 m Nomoline sampling line)

AWRR Range: 0-150 bpm AWRR Accuracy: ±1 breath

Phasein IRMA™ Mainstream CO2 (Optional)

Measurement Range: 0-25%

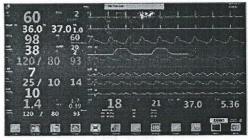
Accuracy: $0\sim15\%$ ($\pm0.2\%$ of the reading)

15~25%, unspecified

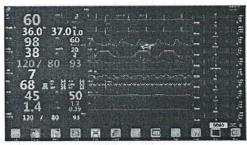
Warm-up time: Full accuracy within,

10 seconds

AWRR Range: 0-150 bpm AWRR Accuracy: ±1 breath



4 channel IBP



Dynamic trends

Phasein IRMA™ AX+ Mainstream Multi-gas (Optional)

Gas: CO2, N2O, HAL, ISO, ENF, SEV, DES with

automatic identification

Warm-up time: Full accuracy within

20 seconds for IRMA

AX+ CO2 Accuracy:

0-10%: ± (0.2%+2% of the reading)

0-15%: $\pm (0.3\%+2\% \text{ of the reading})$

N20 Accuracy:

0-100%: $\pm (2\%+2\%)$ of the reading

HAL, ISO, ENF:

0-8%: \pm (0.15%+5% of the reading)

SEV:0-10%: ± (0.15%+5% of the reading)

DES:0-22%: ± (0.15%+5% of the reading)

Agent identification time: <20 s (typical <10 s)

AWRR range: 0 150 bpm

AWRR accuracy of 1-10ph

Apnea time 20~60



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Technical Specifications

Aspect BISx module (Optional)

Parameter Measurement:

BC: 0~30 (Only limited to the combined use of an external sensor with a BIS module)
EMG: 30~55 dB (bar chart) with intensity between 30 dB and 80 dB (tendency chart)

BIS: 0~100 SQI: 0%~100% SR: 0%~100%

SEF: 0.5 Hz~30 Hz

TP: 40~100 Db

EEG Measurement: Input impedance > 5 $M\Omega$

Noise (RTI) <2 μ V (0.25~50 Hz)

Input signal range: ±1 MV

EEG bandwidth between: 0.25 Hz~110 Hz

NMT Tof-Watch® SX (Optional)

Microprocessor-controlled

Stimulation Mode: TOF, TOFS, PTC,

1 Hz Twitch, 0.1 Hz Twitch, DBS DBS3.3 and

3.2 (Double Burst), Tetanic Stimulation (Burst),

5s - 50 Hz or 100 Hz

Output (accuracy ±5% of full scale value)

Surface electrodes:

Constant current, 0-60 mA (0-12/18µC) up to 5 KOhm.

Monophasic, 200 μs or 300 μs pulse width

Needle electrodes:

Constant current,0-6 mA (0-0.24 μ C) up to 5 KOhm.

Monophasic, 40 µs pulse width

Acceleration transducer: Accuracy ±5% of full

scale value

Temperature sensor: Range 20.0-41.5°C

(accuracy ±5 °C)

Operation Environment

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

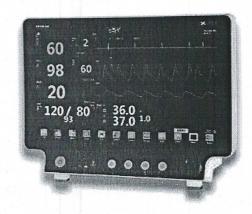
Temperature: 5-40 °C

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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