

- 15.6" or 19" switchable TFT LCD Touch Screen
- Aluminium material shell
- Fanless design suitable for quite care environment
- 10 waveform display, up to 12-lead ECG analysis
- Useful calculation (Hemodynamic, Drug Dose, Oxygenation, Ventilation)
- SpO2 support PVI and PI, low perfusion 0.2%
- Aspect BISx module, NMT module optional
- Wired/Wireless CMS, support HL7 protocol to HIS
- SpO2 pulse-tone modulation (Pitch Tone)
- VGA support external display
- Graphical & tabular trend review (120 hours)
- 48 h full disclosure wave review for each patient

CETUS X Advanced Patient Monitor

Multiple parameter options satisfy the needs of ICU, CCU, NICU

Configuration: ECG, SpO2, NIBP, Resp, PR; Li-ion battery

Optional: 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 SpO2 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 IRMA™/ISA

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



NMT

Stimpod NMS450X – Objective TOF neuromuscular monitoring of muscle relaxants during general anaesthesia



IBP

2-4 Channel, support IBP waveform overlapping display



C.O.

Cardiac Output

Technical Specifications

Display

15.6" TFT Touch screen 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 SD: 1 SD card socket

VGA: 1 VGA monitor connector Output: 1 connector for Nurse call,

Defib Sync Analog Output

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: 6.25mm/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



CFTUS X Advanced Patient Monitor

Technical Specifications

CMRR>100dB

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

on or off

Differential input impedance >5 $M\Omega$

Electrode polarization voltage range: ±400 mV

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

Respiratory impedance range: $0.5-5 \Omega$

Baseline impedance: 500-4000 Ω

Gain: 10 grades

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

TEMP

Accuracy: ±0.1 °C or ±0.2 °F (without probe)

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

Channel: Two channels

Resolution: 0.1 °C

Parameters: T1, 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® SpO2(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: 1bpm

Accuracy: ±2bpm (non-motion)

±5bpm (motion)

Refreshing rate: 1s







12-lead ECG 60 2 36.0 1.0 98 7 160 7 20 7 120 /3 80 1 10 14 1 10 10 11 1 10

OxyCRG screen 60 37.07 98 50 7 68 15 15 1 45 50 1 1.4 50

NIBP

Measurement method: Automatic

oscillometric method

Operating mode: Manual, automatic,

continuous

Measurement unit: mmHg/kPa selectable

Typical measurement time: 20~40s

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, 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: 0-280mmHg

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: 1 mmHg

Accuracy: ±2% or ±1 mmHg,

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 °C

T1: -1 to 27 °C

Accuracy: C.O.: ±5% or ±0.1L/min, whichever is greater TB, T1: ±0.5°C

(without sensor)



CFTUS X Advanced Patient Monitor

Technical Specifications

Standard Mainstream CO2 (Optional)

Measurement range: 0-19.7%,

150 mmHg, or 0-20kPa Resolution: 0.1 mmHa

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% ±1 bpm

Warm-up time: 97% within 8s, full accuracy

within 20s

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 45s, full accuracy

within 10 min

Rise times (t10-90%): About 100 ms, when flow is 100 ml/min, adult water trap\1.5m

sampling tube

Delay time: <3sec 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

Phasein ISA Sidestream CO2 (Optional)

Warm-up time: Full accuracy within 10 se-

conds

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

Measurement Range: 0 -25%

Accuracy: $0 \sim 15\%$ (±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: $0 \sim 15\%$ (±0.2% of the reading)

15~25%, unspecified

Warm-up time: Full accuracy within

10 seconds

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

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%: ± (0.3%+2% of the reading)

N20 Accuracy:

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

HAL, ISO, ENF:

0-8%: ± (0.15%+5% of the reading)



Vivid visualized icons ... Engineered for the most impressive operation

SEV:0-10%: ± (0.15%+5% of the reading)
DES:0-22%: ± (0.15%+5% of the reading)
Agent identification time: <20s(typical <10s)

AWRR range: 0-150 bpm AWRR accuracy: +/-1 bpm

Apnea time: 20~60s

Aspect BISx module (Optional)

Parameter Measurement:

BC: 0~30 (Only limited to the combined use of

an external sensor with a BIS module) EMG: 30~55dB (bar chart) with intensity

between 30dB and 80dB (tendency chart)

BIS: 0~100

SQI: 0%~100%

SR: 0%~100%

SEF: 0.5 Hz~30Hz

TP:40~100 Db

EEG Measurement: Input impedance >5 M Ω

Noise (RTI) $<2\mu V (0.25\sim50 \text{ Hz})$

Input signal range: ±1 Mv

EEG bandwidth between: 0.25 Hz~110 Hz

NMT Stimpod NMS 450X (Optional)

Nerve Locating: 0.0 – 5.0 mA

Nerve Mapping: 0 - 20 mA

NMT Monitoring: 0 – 80 mA

Load Impedance

Nerve Locating: $0 - 20 \text{ k}\Omega (100 \text{ V})$

Nerve Mapping: $0 - 20 \text{ k}\Omega \text{ (400 V)}$

NMT Monitoring: $0 - 5 k\Omega$ (400 V)

Stimulating Modes

Train-of-Four (TOF)

Double Burst (DB)

Post-Tetanic-Count (PTC)

Supra Maximal Current (SMC)

Tetanus (TET)

Twitch (1Hz, 2Hz, 5Hz)

Auto (Changes automatically depending

on the depth of the block)

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)





Patient Monitoring Solutions

For more information, please contact us.

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