

Patient Monitoring Solutions



PAVO Vital Sign Monitor

Features

- 8" color TFT LCD Screen (touch screen optional)
- Portable, lightweight and sturdy design
- Flexible parameters configuration for different clinical environments

120 / 80 93

- Rechargeable Li-ion Battery (up to 12 hours uninterruptable work)
- Big font and font color display setting
- Spot-check and continuous monitoring mode
- Selectable for Adult, Pediatric and Neonatal patients
- Wired/Wireless CMS, support HL7 protocol to HIS
- Barcode scanner support
- Thermal recorder support
- Graphical & tabular trend review
- 48 hours holographic wave review for each patient (stored in SD card)

For Out-Patient Department, Spot-check, Transport, Ward and other Basic Monitoring.

Configuration	Optional
SpO2 + NIBP, Li-ion battery	Masimo/Nellcor SpO2, Quick Temp, Barcode scanner
SpO2+NIBP+ECG+TEMP, Li-ion battery	Masimo/Nellcor SpO2, EtCO2, Quick Temp, Barcode scanner, Thermal Recorder

Technical Specifications

Display

8" color TFT LCD Screen, resolution: 800 x 600

ECG

Lead type 3-lead: I, II, III 5-lead: I, II, III, aVR, aVL, aVF, V 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: 0.05Hz~100Hz Monitor mode: 0.5Hz~40Hz Surgery mode: 1Hz~20Hz Strong filter mode: 5Hz~20Hz CMRR >100dB Notch: 50/60 Hz notch filter can be set to on or off Differential input impedance >5 M Ω Electrode polarization voltage range: ±400 mV Baseline recovery time <3 s 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 Ω Baseline impedance: 500-4000 Ω Gain: 10 grades Scan speed: 6.25 mm/s, 12.5 mm/s, 25 mm/s

TEMP

Measurement method: Thermistor Measuring range: 5~50 °C (41~122 °F) Resolution: 0.1 °C Measurement accuracy: ±0.1 °C

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



PAVO Vital Sign 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 40-230 Neonatal 40-135 Range of Diastolic pressure: Adult 10-210 Pediatric 10-150 Neonatal 10-100 Range of Mean pressure: Adult 20-230 Pediatric 20-165 Neonatal 20-110 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

Standard SpO2

Measurement range: 0-100% Resolution: 1% Accuracy: ±2% (70-100%, Adult/Pediatric); ±3% (70-100%, Neonate); 0-69%, unspecified Refreshing Rate: 1s

Masimo SpO2 (optional)

Measurement range: 0-100% Resolution: 1% Accuracy: ±2% (70-100%, Adult/Pediatric), non-motion, low ±3% (70-100%, Neonate, non-motion); ±3% (70-100%, motion); 0-69%, unspecified Refreshing Rate: 1s



Portable Design



Touch Screen (Optional)



Quick Temp (Infrared Ear Thermometer)







Infrared Ear Thermometer (optional)

Displayed range: $34 \sim 42.2 \text{ °C} (93.2 \sim 108 \text{ F}^\circ)$ Operation ambient temperature range: $10 \sim 40 \text{ °C} (50 \sim 104 \text{ °F})$ Accuracy for displayed temperature range: $\geq 35 \text{ °C} (95.9 \text{ °F}) \sim \leq 42.2 \text{ °C} (107.6 \text{ °F})$ range $\pm 0.2 \text{ °C} (0.4 \text{ °F})$ $< 35 \text{ °C} (95.9 \text{ °F}) \sim \geq 34 \text{ °C} (93.2 \text{ °F})$ range $\pm 0.3 \text{ °C} (0.5 \text{ °F})$



Phasein IRMA[™] Sidestream CO2 (optional)

Warm-up time: Full accuracy within 10 seconds Sampling flow rate: 50 ml/min (+/-10/min) Accuracy: ± (0.2% +2% of the reading) Measurement Range: 0 -15% Rise time: 200 ms, typical at 50 ml/min flow rate Total response time: within 3 seconds (with 2m Momoline sampling line) AWRR Range: 0-150 bpm AWRR Accuracy: ±1 breath

Phasein IRMA[™] Mainstream CO2 (optional)

Measurement Range: 0-15% Warm-up time: Full accuracy within 10 seconds Accuracy: ± (0.2% +2% of the reading) AWRR Range: 0-150 bpm AWRR Accuracy: ±1 breath

Operation Environment

Power: AC 100-250 V, 50/60 Hz Temperature: 0-40 °C Humidity: 15-85% Patient Range: Adult, Pediatric, Neonate Battery backup: Standard 4-5 hrs (2.600 mAh), optional 8-10 hrs (5.200 mAh) or 12-15 hrs (7.800 mAh)



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, ecnomic 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 dBNotch: 50/60 Hz notch filter can be set to on or off Differential input impedance $>5M\Omega$ Electrode polarization voltage range: ±400 mV Baseline recovery time <3s after defibrillation (in monitor and surgery mode) Calibration signal: 1mV (peak - peak), accuracy ±3% 60

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: ±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





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: ±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: ±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

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)





CETUS x15 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)

60

98

20

120/ 80

60

- Pacemaker detection
- ST & arrhythmia analysis
- 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 hours full disclosure wave review for each patient



$CETUS \ x15 \ \text{Critical Care Patient Monitor}$

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 IRMA[™]/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

I/O

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: 6.25 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

Technical Specifications

Notch: 50/60 Hz notch filter can be set to on or off Differential input impedance >5MΩ 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: $\times 0.25$, $\times 0.5$, $\times 1$, $\times 2$ Respiratory impedance range: 0.5-5 Ω 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 or ±0.2 °F (without probe) Measurement range: 5~50 (41~122 °F) Channel: Two channels Resolution: 0.1 Parameters: T1, T2 and TD

SpO2

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: 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 10-210 Range of Diastolic pressure: Adult Pediatric 10-150 Neonatal 10-95



CETUS x15 Critical Care Patient Monitor

Technical Specifications

Range of Mean pressure:

Adult20-230Pediatric20-165Neonatal20-105

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: 0-280 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 27 Accuracy: C.O.: ±5% or ±0.1L/min, whichever is greater TB, T1 ±0.5 (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: ± 5% 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



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: 0~15% (±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: 0~15% (±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



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: $0-10\% \pm (0.2\% + 2\% \text{ of the reading})$ 0-15%: ± (0.3%+2% of the reading) N2O Accuracy: 0-100%: ± (2%+2% of the reading) HAL, ISO, ENF: $0-8\% \pm (0.15\% + 5\% \text{ of the reading})$ 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: +/-1bpm Apnea time: 20~60 s



CETUS x15 Critical Care Patient Monitor

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 MΩ 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 µC) 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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Features

- 15.6"/17/19" 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

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 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 IRMA[™]/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 Resolution: 1366 x 768 Number of traces: 10 waveforms

I/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



Technical Specifications

CMRR>100dB Notch: 50/60Hz notch filter can be set to on or off Differential input impedance >5 MΩ 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 Ω 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

SpO2

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 36.0 1.0

4 channel IBP

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 20-230 Range of Mean pressure: Adult 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

OxyCRG screen



Dynamic trends

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: $\pm 2\%$ 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)



Technical Specifications

Standard Mainstream CO2 (Optional)

Measurement range: 0-19.7%, 150 mmHg, or 0-20kPa 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% ±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

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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: $0 \sim 15\%$ (±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: $0-10\% \pm (0.2\%+2\%)$ of the reading) 0-15%: ± (0.3%+2% of the reading) N20 Accuracy: 0-100%: ± (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 MΩ 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, 1Hz Twitch. 0.1Hz Twitch, DBS DBS3.3 and 3.2 (Double Burst), Tetanic Stimulation (Burst), 5s – 50 Hz or 100 Hz Output (accuracy $\pm 5\%$ of full scale value) Surface electrodes: Constant current,0-60mA(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 µC) up to 5 KOhm. Monophasic, 40µs pulse width Acceleration transducer: Accuracy ±5% of full scale value Temperature sensor: Range 20.0-41.5 °C $(accuracy \pm 5 °C)$

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)





Patient Monitoring Solutions

For more information, please contact us.

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