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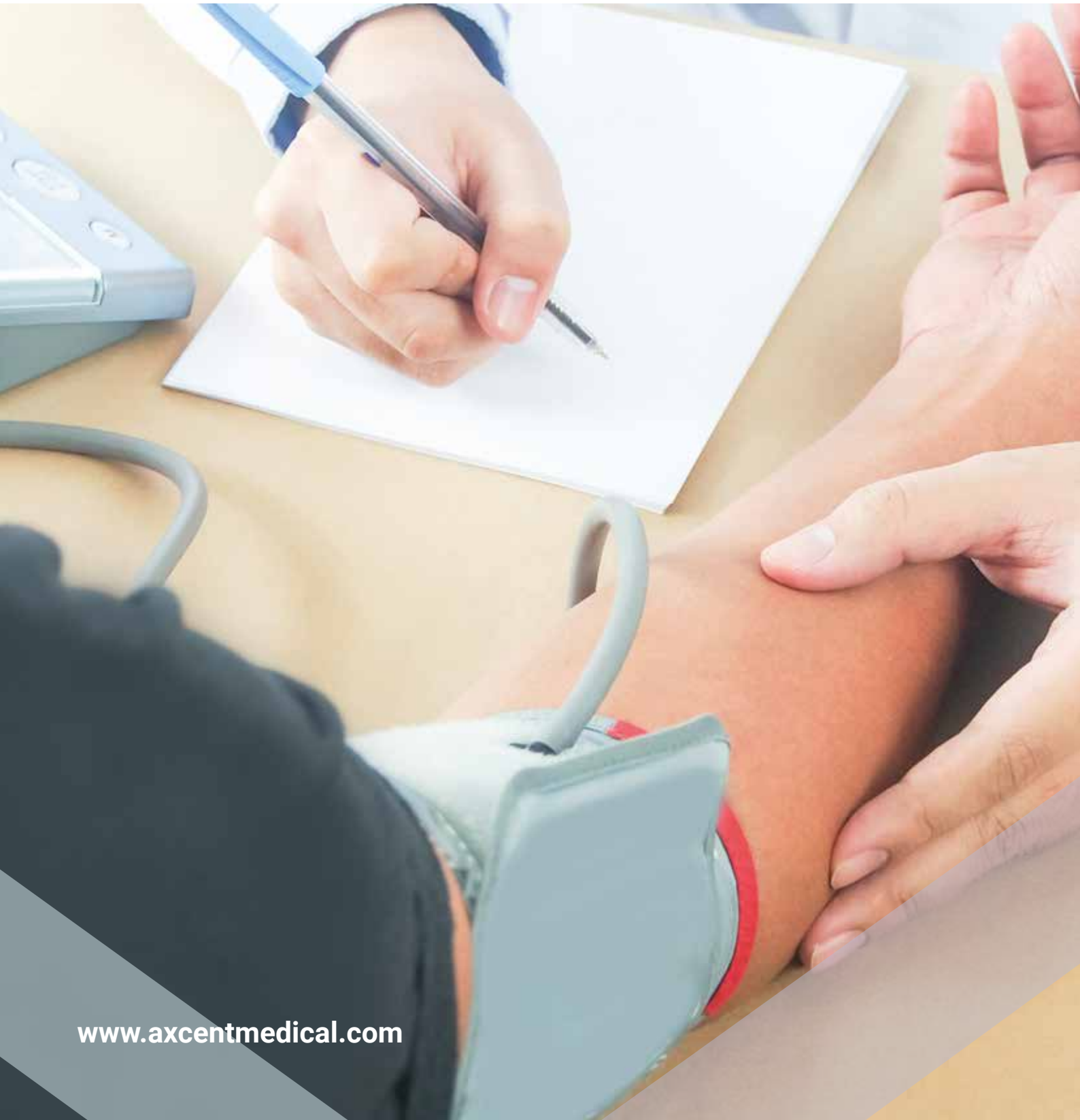
Patient Monitoring Solutions



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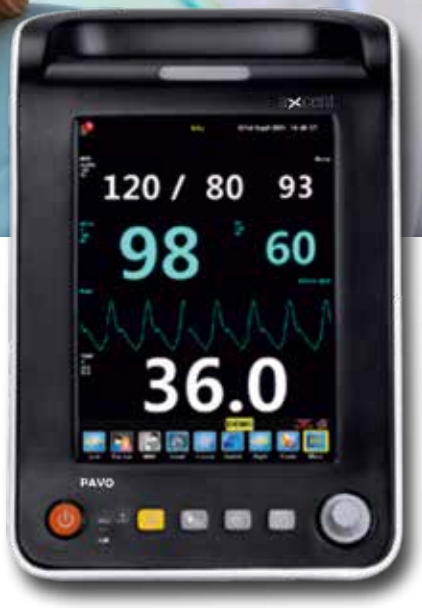

PAVO **Vital Sign Monitor**

Features

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

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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 MΩ
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: ×0.25, ×0.5, ×1, ×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

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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

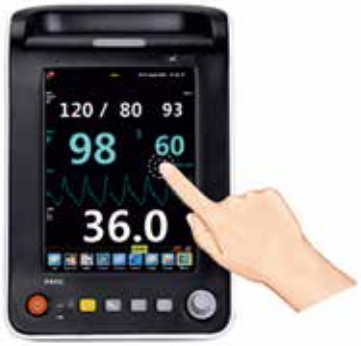
Standard SpO2

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)

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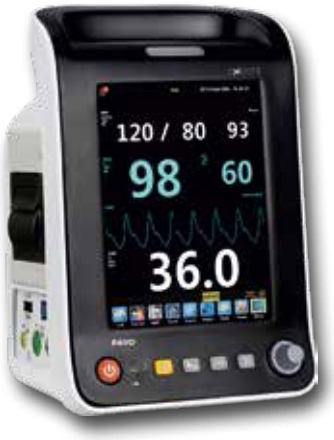
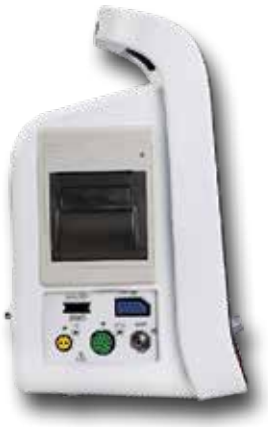
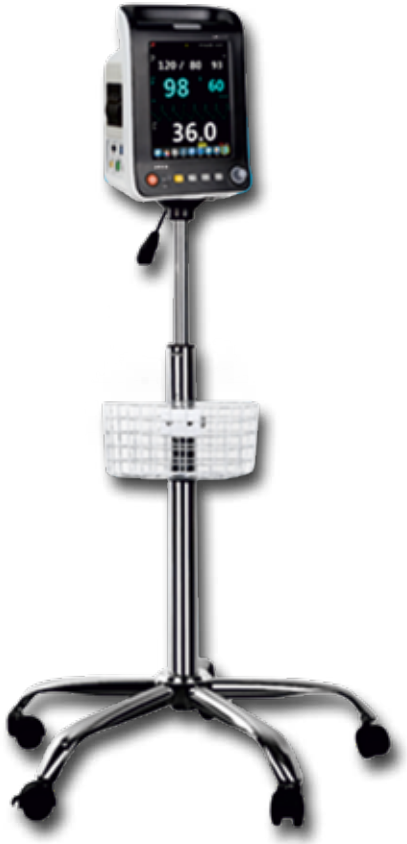




Infrared Ear Thermometer (optional)

Displayed range: 34~42.2 °C (93.2~108 F°)
Operation ambient temperature range:
10~40 °C (50~104 °F)
Accuracy for displayed temperature range:
≥35 °C (95.9 °F) ~ ≤42.2 °C (107.6 °F) range
±0.2 °C (0.4 °F)
<35 °C (95.9 °F) ~ ≥34 °C (93.2 °F) range
±0.3 °C (0.5 °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)

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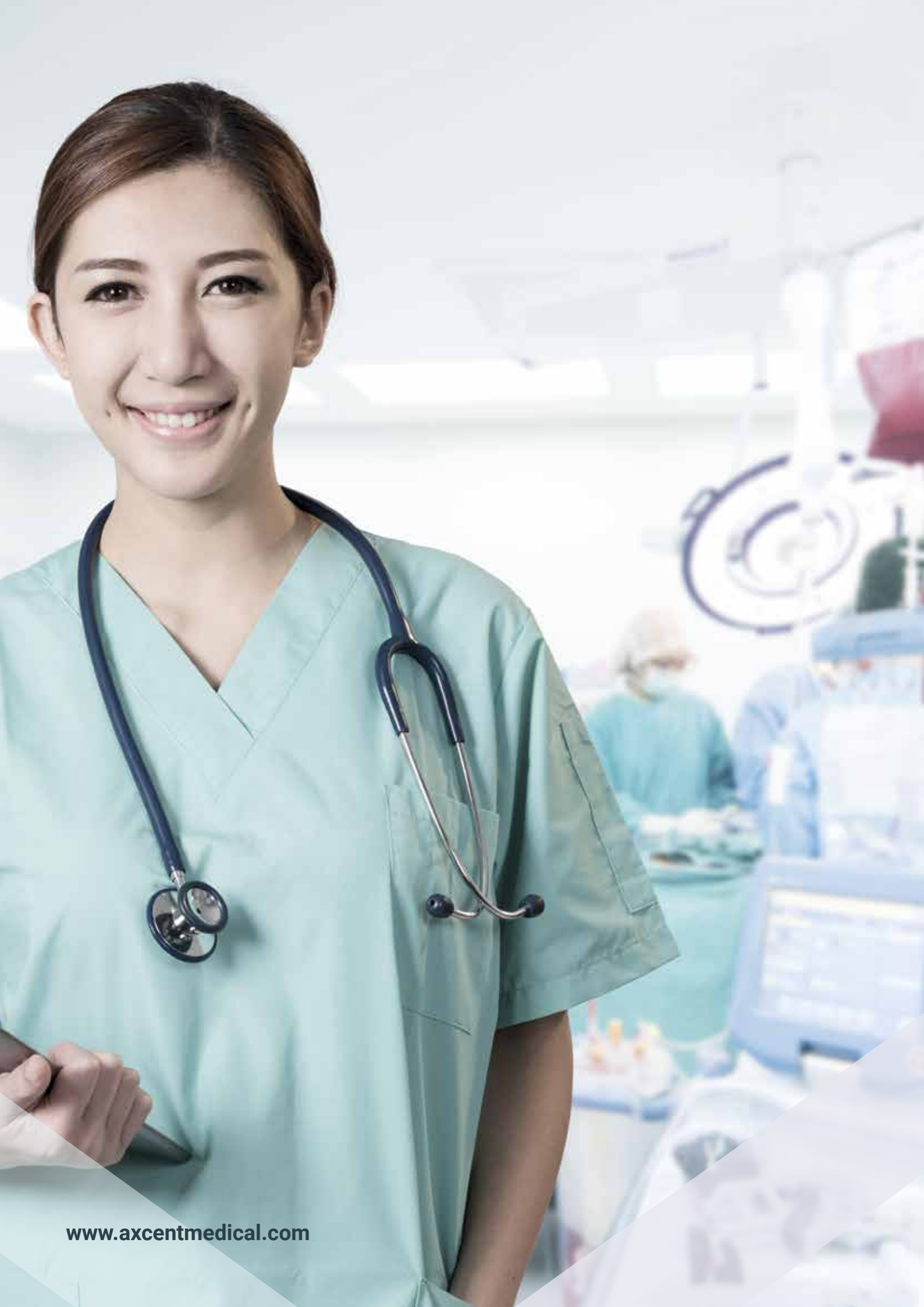

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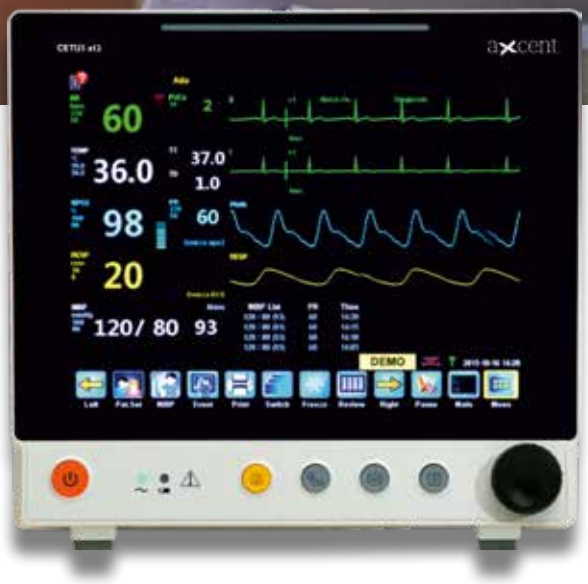

CETUS x12 **Patient Monitor**

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)

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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 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 defibrillation (in monitor and surgery mode)
Calibration signal: 1mV (peak - peak), accuracy ±3%

RESP

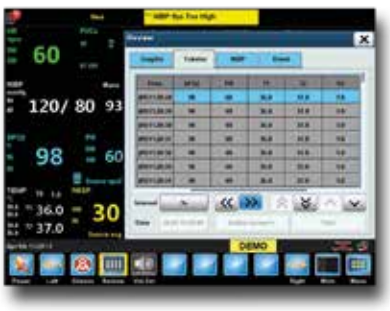
Measurement method: Thoracic electrical bioimpedance
Rate: 0 – 150 bpm
Measuring lead: Lead I, II
Wave gain: ×0.25, ×0.5, ×1, ×2
Respiratory impedance range: 0.5-5Ω
Baseline impedance: 500-4000Ω
Gain: 10 grades
Scan speed: 6.25 mm/s, 12.5 mm/s, 25 mm/s

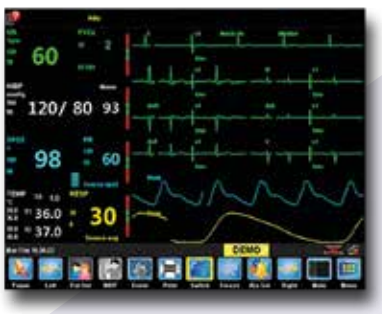
Pulse Rate

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





7-lead ECG

CETUS x12 **Patient Monitor**

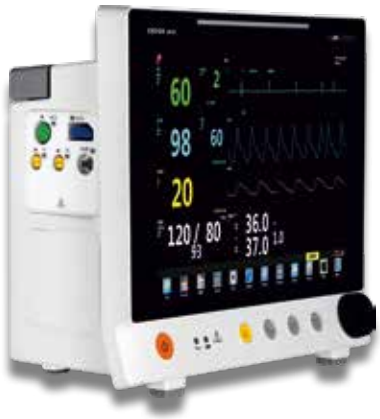
Technical Specifications

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)

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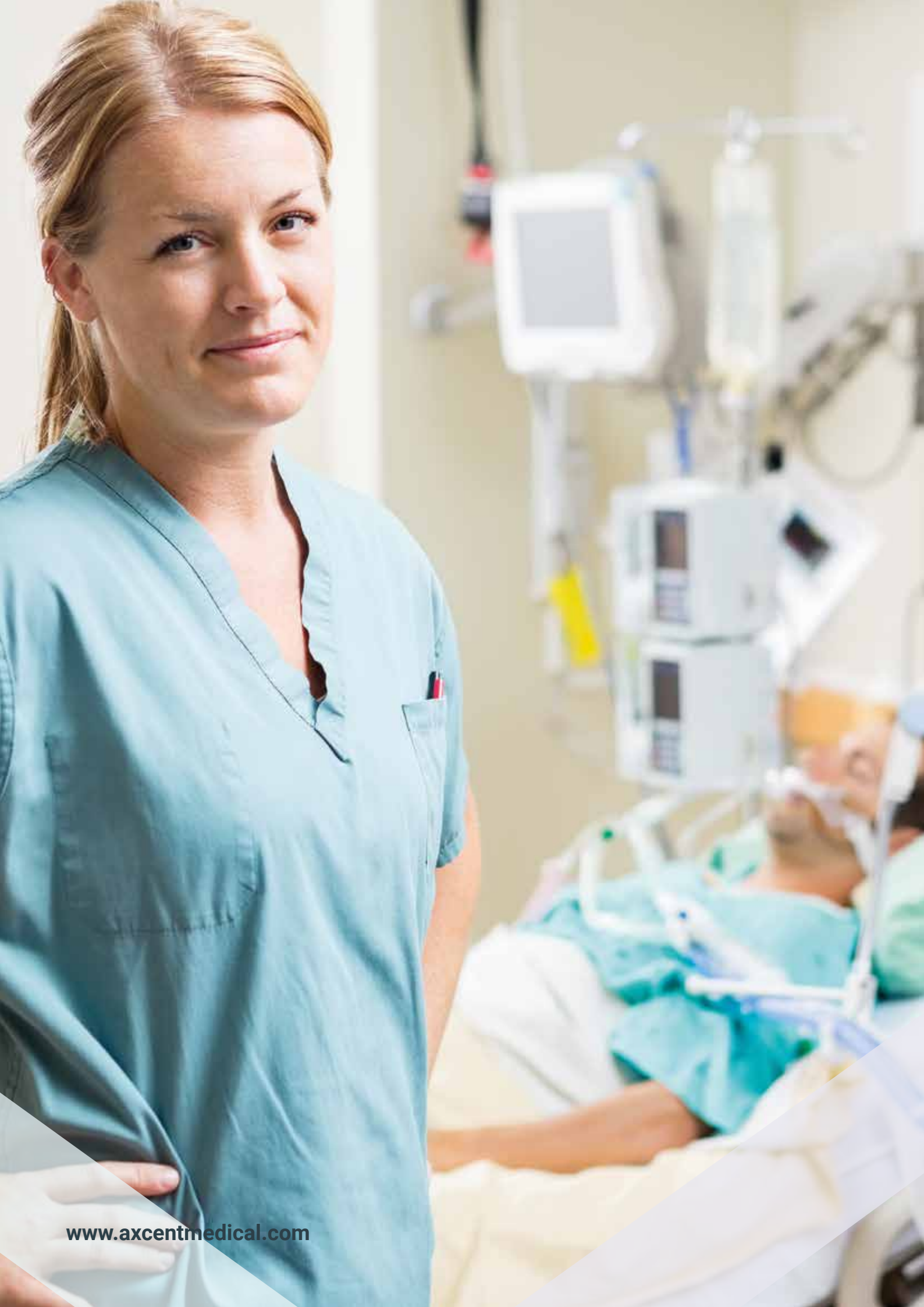

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CETUS x15

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)
- 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

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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® SpO2
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
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
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/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

CMRR>100 dB

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: ×0.25, ×0.5, ×1, ×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
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	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: 0-280 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)

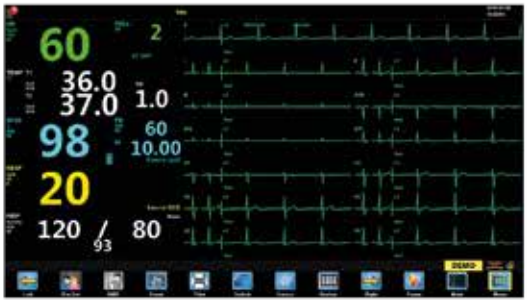
Measurement range: 0-19.7%, 150 mmHg, or 0-20 kPa
Resolution: 0.1 mmHg
Measurement accuracy
0-40 mmHg: ± 2 mmHg
41-70 mmHg: ± 5% of reading
71-100 mmHg: ± 8% of reading
101-150 mmHg: ± 10% of reading
Respiration rate: 3-150 bpm
Respiration rate accuracy: 1 ±1bpm
Warm-up time: 97% within 8 s, full accuracy within 20 s

Standard Sidestream CO2 (Optional)

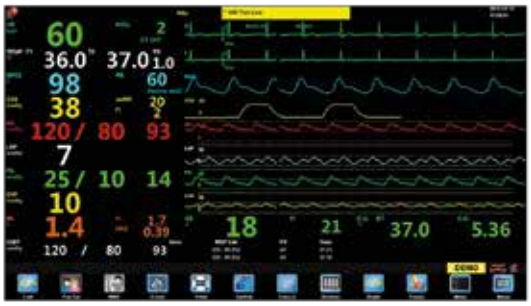
Measurement rage: 0-20% (0-150 mmHg)
Accuracy: < 5.0% CO 2: ± 2 mmHg
> 5.0% CO 2: < 6% of reading
Respiration rate: 2~150 BPM
Respiration rate accuracy: 1% ±1BPM
Warm-up time: 97% within 45 s, full accuracy within 10 min.
Rise times (t 10-90%): About 100 ms, when flow is 100 ml/min, adult water trap, 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)

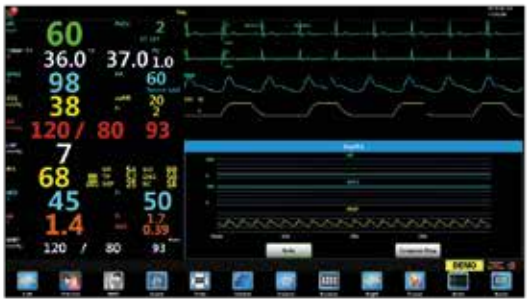
Built-in, Thermal dot array
Horizontal resolution: 16 dots/mm (25 mm/s paper speed)
Vertical resolution: 8 dots/mm
Paper speed: 25 mm/s, 50 mm/s
Number of waveform channels: 3



12-lead ECG



4 channel IBP



OxyCRG screen

Dynamic trends

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

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)
N2O Accuracy:
0-100%: ± (2%+2% of the reading)
HAL, ISO, ENF:
0-8%: ± (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: +/-1bpm
Apnea time: 20~60 s

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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 μV (0.25~50 Hz)
Input signal range: ±1 Mv
EEG bandwidth between: 0.25 Hz~110 Hz

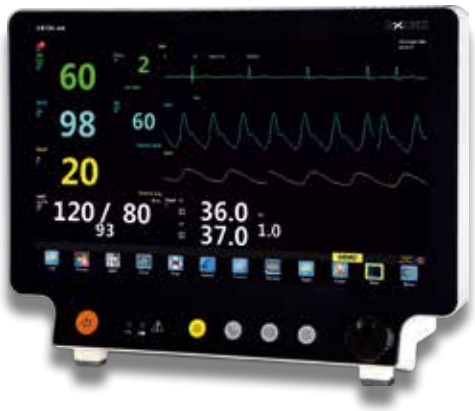
NMT Tof-Watch® SX (Optional)

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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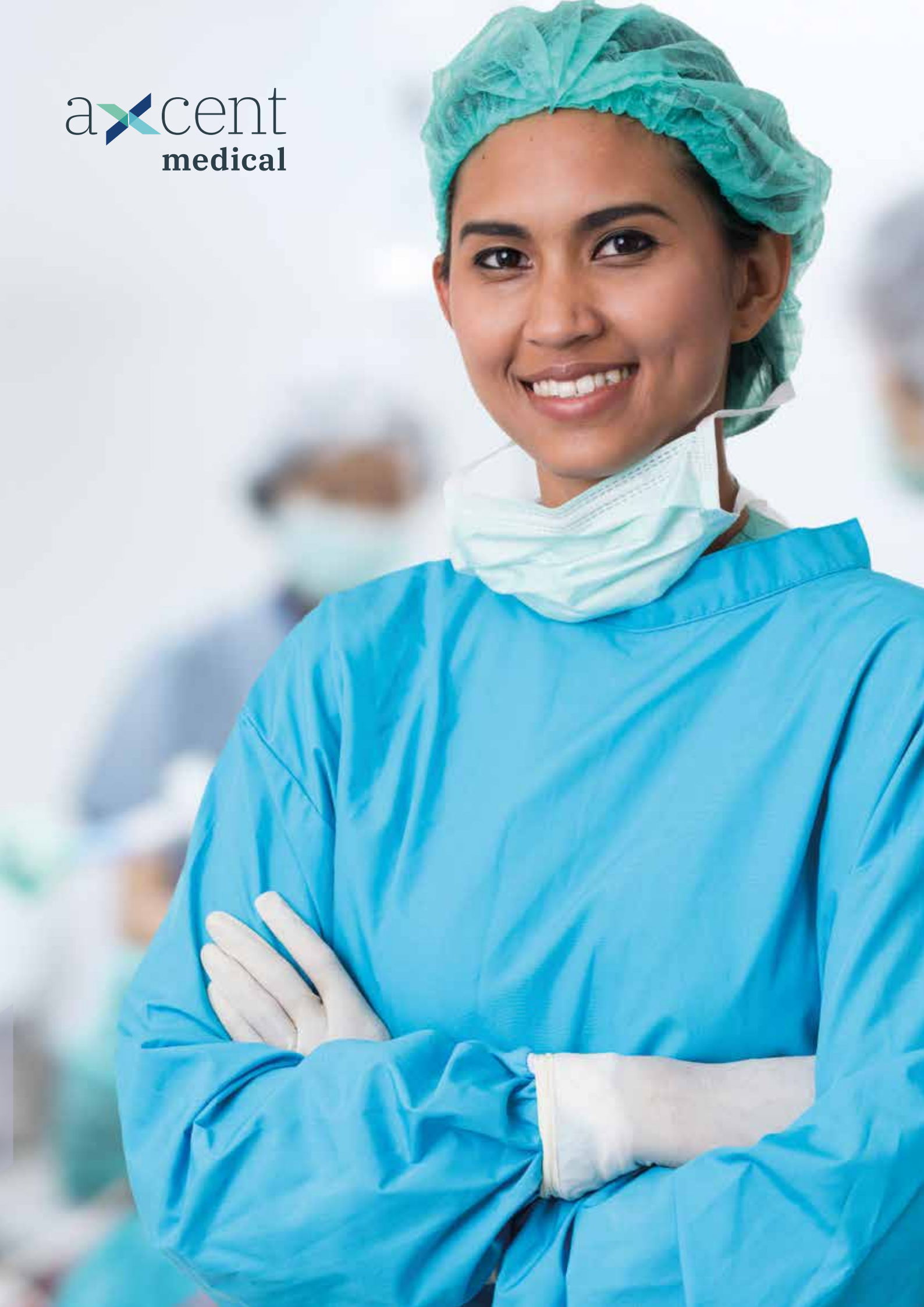

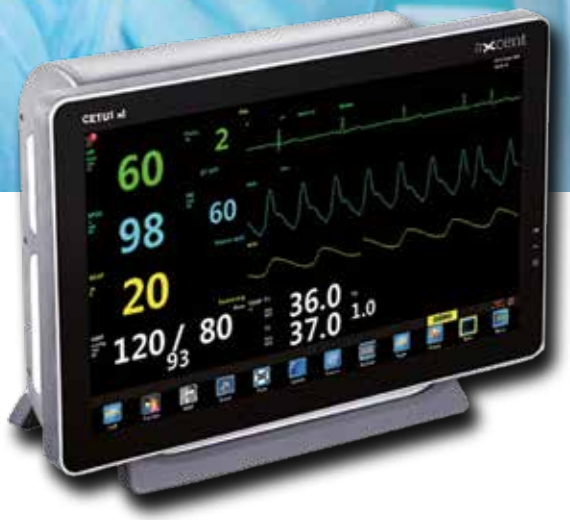

CETUS xl **Advanced Patient Monitor**

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

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CETUS xl **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® SpO2
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
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/O

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: 6.25mm/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

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CETUS xl **Advanced Patient Monitor**

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: ×0.25, ×0.5, ×1, ×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

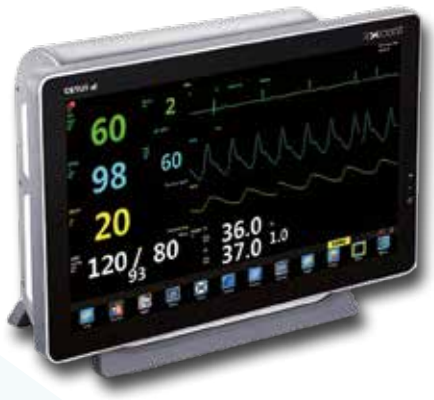
Measurement range: 0-100%
Resolution: 1%
Accuracy: ±2% (70-100%, Adult/Pediatric);
±3% (70-100%, Neonate);
0-69%, unspecified
Refreshing Rate: 1s

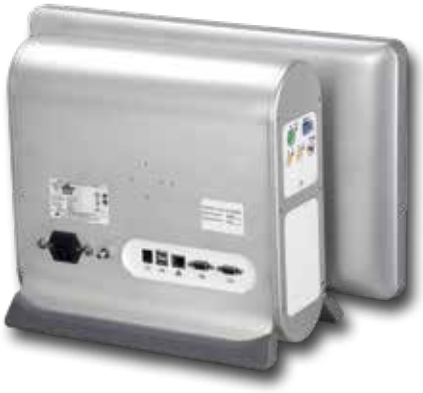
Masimo SET® SpO2(Optional)

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



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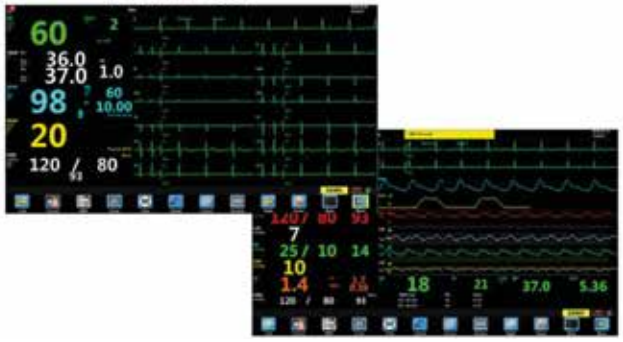
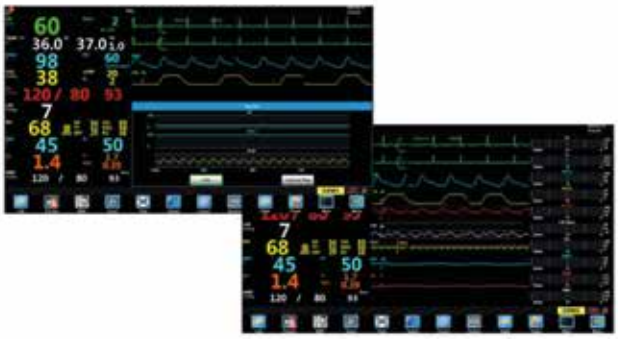
12-lead ECG



4 channel IBP

OxyCRG screen



Dynamic trends

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)

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CETUS xl **Advanced Patient Monitor**

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

Phasein ISA Sidestream CO2 (Optional)

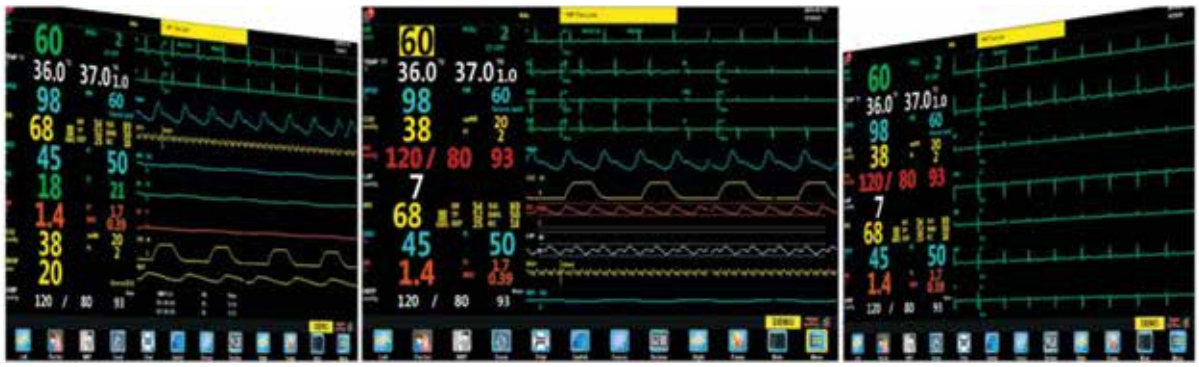
Warm-up time: Full accuracy within 10 seconds
Sampling flow rate: 50ml/min(+/-10/min)
Measurement Range: 0 -25%
Accuracy: 0~15% (±0.2% of the reading)
15~25%, unspecified
Rise time: 200 ms, typical at 50 ml/min flow rate
Total response time: within 3 seconds (with 2 m Nomoline sampling line)
AWRR Range: 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

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)
N2O 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) <2μV (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 ±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 ±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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Patient Monitoring Solutions

For more information, please contact us.

aXcent medical GmbH

Josef-Görres-Platz 2
56068 Koblenz
Germany

Phone: +49 261 30 11 117
Fax: +49 261 30 11 111
Mail: info@axcentmedical.com

www.axcentmedical.com