

Technical Specifications

Display

15.6" TFT Touch screen
Resolution: 1366 x 768
Number of traces: 12 waveforms

I/O

LAN: 1 standard RJ45 port
WLAN: IEEE 802.11b/g/n
USB: 2 USB connectors
VGA/HDMI: 1 VGA/HDMI socket
Output: 1 connector for Nurse call, Defib Sync Analog

ECG

Lead type: 3-lead, 5-lead, 12-lead
ECG waveform: 2 channels, 7 channels, 12 channels
Display sensitivity:
2.5mm/mV ($\times 0.25$), 5mm/mV ($\times 0.5$),
10mm/mV ($\times 1.0$), 20mm/mV ($\times 2.0$)
Wave sweep speed:
6.25mm/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: 50/60Hz notch filter can be set to on or off
Differential input impedance: >5M Ω
Electrode polarization voltage range: ± 400 mV
HR range: 15 - 350 bpm
Baseline recovery time: <3s after defibrillation (in monitor and surgery mode)
Calibration signal: 1mV (peak - peak), accuracy $\pm 3\%$

RESP

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

TEMP

Accuracy: $\pm 0.1^{\circ}\text{C}$ or $\pm 0.2^{\circ}\text{F}$ (without probe)
Measurement range: 0-50 $^{\circ}\text{C}$ (32-122 $^{\circ}\text{F}$)
Channel: Two channels
Resolution: 0.1 $^{\circ}\text{C}$

SpO2

Measurement range: 0-100%
PI display
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

Pulse Rate

Range: 30-300 bpm
Resolution: 1bpm
Accuracy: ± 2 bpm (non-motion)
 ± 5 bpm (motion)
Refreshing rate: 1s

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: 8mmHg
Resolution: 1mmHg
Interval: 1,2,3,4,5,10,15,30,60,90,120,180,240,480minutes
Overpressure protection: Software and hardware, double safety protection
Cuff pressure range: 0-300mmHg

IBP(Optional)

Channel: 2-channel or 4-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:
 $\pm 2\%$ 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 $^{\circ}\text{C}$
TT: -1 to 27 $^{\circ}\text{C}$
Accuracy: C.O.: $\pm 5\%$ or ± 0.1 L/min, whichever is greater
TB, TT: $\pm 0.5^{\circ}\text{C}$ (without sensor)

Mainstream CO2(Optional)

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

Sidestream CO2(Optional)

Measurement range: 0-20% (0 - 150mmHg)
Accuracy: $< 5.0\%$ CO₂ ± 2 mmHg
 $> 5.0\%$ CO₂: $\pm 6\%$ of reading
Respiration rate: 2 - 150 BPM
Respiration rate accuracy: 1% ± 18 BPM
Warm-up time: 97% within 45s, full accuracy within 10 min
Rise times (10-90%): About 100ms, 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, 1.5m 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

Masimo 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% ($\pm 0.2\%$ of the reading)
15-25%, unspecified
Rise time: 200ms, typical at 50ml/min flow rate
Total response time:
within 3 seconds (with 2 m Momoline sampling line)
AWRR Range: 0-150bpm
AWRR Accuracy: ± 1 breath

Masimo IRMA[™] Mainstream CO2 (Optional)

Measurement Range: 0 - 25%
Accuracy: 0-15% ($\pm 0.2\%$ of the reading)
15-25%, unspecified
Warm-up time: Full accuracy within 10 seconds
AWRR Range: 0-150bpm
AWRR Accuracy: ± 1 breath

Masimo Multi-gas ISA AX + Mainstream CO2 (Optional)

Gas: CO₂, N₂O, HALISO, 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%: $\pm (0.3\% + 2\%$ of the reading)
N₂O Accuracy: 0-100%: $\pm (2\% + 2\%$ of the reading)
HALISO, ENF: 0-8%: $\pm (0.15\% + 5\%$ of the reading)
SEV: 0-10%: $\pm (0.15\% + 5\%$ of the reading)
DES: 0-22%: $\pm (0.15\% + 5\%$ of the reading)
Agent identification time: < 20s (typical < 10s)
AWRR range: 0-150bpm
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
SQ: 0%-100%
SR: 0%-100%
SEF: 0.5Hz-30Hz
TP: 40-100Db
EEG Measurement:
Input impedance: >5M Ω
Noise (RTI): $\pm 2\mu\text{V}$ (0.25-50Hz)
Input signal range: ± 1 mV
EEG bandwidth between: 0.25Hz-110Hz

NMT (Optional)

Microprocessor-controlled
Stimulation Mode: TDF, TOFS, PTC, 1Hz Twitch, 0.1Hz Twitch, DBS DBS3.3 and 3.2(Double Burst), Tetanic
Stimulation (Burst): 5s - 50Hz or 100Hz
Output (accuracy $\pm 5\%$ of full scale value)
Surface electrodes:
Constant current: 0-60mA (0-12/18uA) up to 5KOhm.
Monophasic, 200us or 300us pulse width

Needle electrodes:
Constant current: 0-6mA (0-0.24uA) up to 5KOhm.
Monophasic, 40us pulse width
Acceleration transducer: Accuracy: 5% of full scale value
Temperature sensor: Range 20.0-41.5 $^{\circ}\text{C}$ (accuracy $\pm 5^{\circ}\text{C}$)

Operation Environment

Power: AC 100-250V, 50/60Hz
Temperature: 5-40 $^{\circ}\text{C}$
Humidity: <80%
Patient Range: Adult, Pediatric, Neonate



Multipara Modular Monitor-Sigma-70
Critical Care Patient Monitor



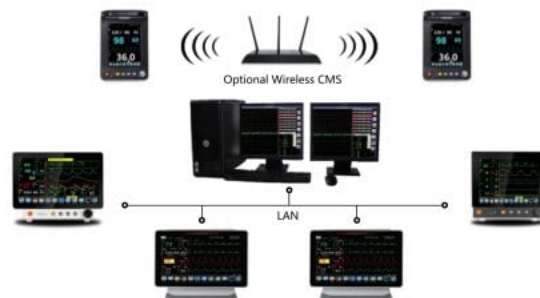
- 15.6" High resolution TFT LCD Touch screen
- 10 waveform display, up to 12-lead ECG analysis
- Powerful calculation (Hemodynamic, Dose, Oxygenation, Ventilation)
- Pacemaker detection
- ST & arrhythmia analysis
- SpO2 support PVI and PI, low perfusion 0.2%
- Alarm is visible from 360 degrees



- Aspect BISx module, NMT module optional
- Wired/Wireless CMS, support HL7 protocol to HIS
- SpO2 pulse-tone modulation (Pitch Tone)
- HDMI support external display
- Graphical & tabular trend review (120 hours)
- 48 hours full disclosure wave review for each patient

Easy access to view the historical data

120	Hours long trend
60	Min short trend
1000	NIBP measurement
200	alarm event



Central Monitoring System

Up to 64 beds
Net work is compatible to wired or wireless CMS
Auto adaptable to different screen resolution

Configuration

5-lead ECG, SpO2, NIBP, TEMP, Resp, PR; Li-ion battery

Optional

12-Lead ECG, Masimo/Nellcor SpO2, Suntech NIBP, 2-IBP, C.O., EtCO2, Multi-gas, BIS, NMT; HDMI, Barcode Scanner, Thermal Recorder, Wired/Wireless CMS



Masimo SET+ SpO2

Measure-through Motion and Low Perfusion pulse oximetry delivers accurate and reliable oxygenation



Bispectral 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 Gas Technology

IRMA™ Mainstream & ISA™ Sidestream Analyzers
Allows selection of the modality best suited to the application



NMT

Neuromuscular monitoring



IBP
2-4 Channel, support IBP waveform overlapping display



C.O.
Cardiac Output



12-Lead ECG



4 channel IBP



OxyCRG screen



Dynamic trends

Accure Medical Pvt. Ltd.

Ground Floor Plot no.-183, Pocket N, Sector-2, DSIDC Bawana Industrial Area,
North West Delhi-11003 Contact Number: +91 8077818101
Mail id :- ampl2207@gmail.com, Web: www.accuremedical.in

