

Patient Monitor Model X-5



Masimo SET[®] SpO2

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



Masimo Gas Technology IRMA™ Mainstream & ISA™

Sidestream Analyzers Allows selection of the modality best suited to the application



2-4 Channel, support IBP waveform overlapping display







NMT Neuromuscular monitoring

and EEG wave.

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

C.O. Cardiac Output



X-5 **SPECIFICATION**

Physical Specification

Physical Specifica	tion	Respiration	
Display	15.6" TFT Touch Screen	impedance range Respiration	0.5-5
Resolution	1366 x 768	range	0-150bpm
Number of traces Dimension	10, up to 12 ECG waveform 398 x 302 x 183mm (W x H x D)	Baseline	0 2000 p.m
Weight	<7 Kg under stand configuration	impedance	500-4000
LAN	1 standard RJ45 port	Gain Seen groud	10 grades
WLAN	IEEE 802.11b/g/n	Scan speed	3.125mm/s, 6.25mm/s, 12.5 mm/s, 25mm/s
USB	2 USB connector		1111, 5, 251111, 5
HDMI Output1	1 HDMI monitor Connector Connector for Nurse call, Defib	Pulse Rate	
outputt	sync analog output	Range	30-300 bpm
ECG		Resolution	1 bpm
	2 load 5 load 12 load(antional)	Accuracy	+2bpm (non-motion) +5bpm (motion)
Lead type ECG waveform	3-lead, 5-lead, 12-lead(optional) 2, 7, 12 channels	refreshing rate	1s
Display	2, 7, 12 channels	Ū.	
sensitivity(wave	1.25mm/mV(x0.125),2.5mm/V	TEMP	
Gain)	(0.25),5mm/mV (x0.5),10mm/	Accuracy	+0.1 C or 0.2 C F (without
	mV(x1.0), 20mm/mV(2.0),40mm	Measurement	probe)
Wave sweep	/mV(x4.0), Auto	ranges	5~50 C (41~122 F)
speed	3.125mm/s,6.25mm/s,25mm/s,	Channel	Two channels
1	50mm/s	Resolution	0.1 C
Bandwidth	Diagnostic mode:0.05Hz~150Hz	SPO2	
	Monitor mode: 0.5Hz~40Hz	Measurement	
	Surgery mode: 0.5Hz~25Hz Strong filter mode: 5Hz~25Hz	range	0~100%
CMRR>100db		Parameter	
Notch	50/60Hz notch filter can be set	monitoring	Perfusion Index (PI) Pleth Variability (PVI)
	to on or off Differential input	Resolution	+1%
Electrode	impedance>5M	Accuracy	+2% or 2bpm
polarization		Refreshing	
voltage range	+400mV	rate	1s 2 125mm /s 125mm /s
HR Range	15-350 bpm	Pleth wave speed	3.125mm/s, 12.5mm/s, 25mm/s
	v time <3s after defibrillation (in	Masima SET SDO2 (,
monitor and surg	1mV(peak-peak)	Masimo SET SPO2 (Measurement	optional
Accuracy	+3%	range	0-100%
RESP		Resolution	1%
Measurement		Accuracy	+2% (70-100%, Adult/Pedi-
method	Thoracic electrical bioimpedance		atric, non-motion, low
Measuring	instatic cleanear bioimpeanice		perfusion); +3% (70-100% Neonate,Non-
lead	Lead I, II		Hotion);
Waving Gain	x0.25, x0.5, x1, x2		+3% (70-100%, motion);
			0-69% unspecified
		Defreching rate	10

Refreshing rate

1s

SPECIFICATION

NIBP

Measurement				
method		oscillometric		
Operating Mode	Manual, au	Manual, automatic, continuous		
Measurement				
Туре	Systolic, Di	astolic, Mean		
Typical				
measurement	20~40s			
Time				
Measurement ran				
range of systolic p				
	Adult	40-280		
	Pediatric	40-200		
	Neonatal	40-135		
range of diastolic	-			
	Adult	10-210		
	Pediatric	10-150		
	Neonatal	10-95		
range of mean pro	essure :			
	Adult	20-230		
	Pediatric	20-165		
	Neonatal	20-105		
Measurement acc	uracy			
Maximum average error: +5mmHg				
Maximum standard deviation:8 mmHg				
Resolution: 1mmHg				
Interval:1,2,3,4,5,10,15,30,60,90,120,180,240,480				
minutes				
Over pressure Protection: software and hardware,				
double safety protection				
Cuff pressure ran	ge: 0-300mr	nHg		
IBP (optional)				
Channel	2 or 4 char	nnel		
ART	0 to 300 mmHg			
PA	-6 to 120 mmHg			

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PA	-6 to 120 mmHg
CVP/RAP/LAP	
ICP	10 to 40 mmHg
Measurement	
range	P1/P2-50 to 30 mmHg
Resolution	1 mmHg
Accuracy	+2% or +1 mmHg, whichever is
	greater (without sensor)
Sensitivity	5uV/mmHg/V
Impedance range	300 to 3000

Masimo ISA Sidestream CO2 (optional)

Warm-up time	Full accuracy within 10 sec	
Sampling flow		
rate	50ml/min (+/-10/min)	
Measurement		
range	0-25%	
Accuracy	0~15% (+0.2% of the read-	
	ing)	
Accuracy	$0 \sim 15\%$ (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 C02 (optional)

Measurement	
range	0-25%
Accuracy	$0 \sim 15\%$ (+0.2% of the reading)
-	15~25%, unspecified
Warm-up time	Fully accuracy within 10 sec
AWRR range	0-150bpm
AERR accuracy	+1 breath

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

Gas: C02,N20,HAL,ISO,ENF,SEV,DES with automatic identification

Warm-up time: Full accuracy within 20 sec for IRMA AX+C02 Accuracy: $0 \sim 10\%$; +(0.2%+2% of the reading $0 \sim 15\%$; +(0.3z%+2% of the reading) N20 Accuracy: $0 \sim 100\%$; +(2%+2% of the reading) HAL,ISO,ENF: $0 \sim 8\%$; +(0.15%+5% of the reading) SEV: $0 \sim 10\%$; +(0.15%+5% of the reading) DES: $0 \sim 22\%$; +(0.15%+5% of the reading) Agent identification time: <20s (typical <10s) AWRR range 0-150bpm AWRR accuracy +/-1bpm Apnea time 20~60s

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,
which ever is great	er TB, T1: +0.5 C (without sensor)



<u>X-5</u>

SPECIFICATION

Aspect BISx module (optional)

Parameter measurement $0 \sim 30$ (only limited to the BC combined use of an external sensor with BIS module) EMG 30~55dB(bar chart) with intensity between 30dB and 20dB(tendency chart) 0~100 BIS SQI 0%~100% SR 0%~100% SEF 0.5Hz~30Hz TΡ 40~100Db **EEG** measurement Input impedance>5M Noise (RTI)<2 uV (0.25~50Hz) Input signal range +1mv EEG bandwidth between: 0.25Hz~110Hz

NMT (Optional)

Microprocessor-controlled

Stimulation Mode: TOF, TOFS,PTC,1Hz Twitch,0.1 Hz Twitch, DBS DBS3.3 and 3.2 (Double Burst), Tetanic stimulation (urst), 5s-50Hz or 100Hz Output (Accuracy+5% of full scale value) Surface electrodes:

Constant Current,0-60mA(0-12/18 uC) Monophasic, 200 us or 300 us pulse width Needle electrodes:

Constant current,0.6mA(0-0.24 uC) up to 5KOhm.

Monophasic, 40 us pulse width

Acceleration transducer: Accuracy +5% of full scale value

Temperature sensor : Range 20.0-41.5 C (accuracy +5%)

Sidetream CO2 optional

Measurement	
range	0-205 (0-150mmHg)
Accuracy	< 5.0% CO 2: +2mmHg
	> 5.0% CO 2: <6% of reading
Respiration rate	2~150 BPM
Respiration rate	
accuracy	1% +1BPM
Warm-up time :970	% within 45s, full accuracy
within 10min	
Rise time (t10-90%): About 100ms, when flow is	
100ml/min, adult water trap, 1.5m sampling tube	
Delay time: <3sec when flow is 100 ml/min, adult	
water trap 1.5m sa	mpling tube

Recorder (optional)

Built-in, Thermal dot array Horizontal resolution: 16 dots/mm (25 mm/s paper speed) Vertical resolutions: 8 dots/mm Paper speed : 12.5mm/s,25mm/s,50mm/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
5	





4 channel IBP



Dynamic trends



OxyCRG screen





Features

- 15.6" High resulotion TFT LCD Touch screen
- 10 waveform display, up to 12-lead ECG analysis
- Powerful calculation(Hemodynamic,Dose,Oxygenation,Ventilation)
- MEWS(Modified Early Warning Score)
- Pacemaker detection
- ST & arrhythmia analysis(26 types)
- SpO2 support PVI and PI, low perfusion 0.2%
- Night mode, standby mode, venipucture mode

Easy access to view the historical data



Central Monitoring System

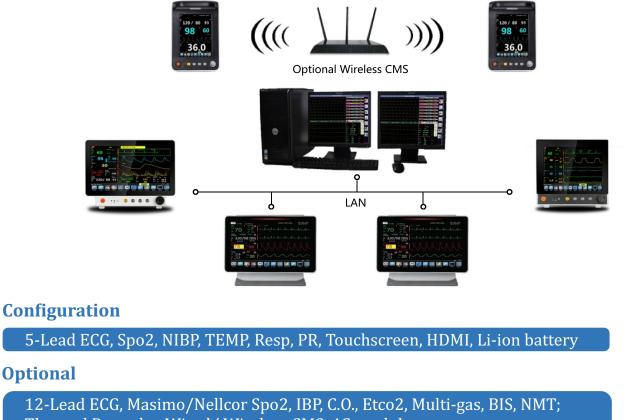
Up to 64 beds

Optional

Network is compatible to wired or wireless CMS Auto adaptable to different screen resolution

- Trolley/wall mount braket solutions
- Support BIS module, NMT module
- Wired/Wireless/4G connection, support HL7 protocol to HIS
- SpO2 pulse-tone modulation (Pitch Tone)
- VGA/HDMI support external display
- Graphical & tabular trend review
- Rechargeable Lithium-ion Battery
- 72 hours full disclosure wave review for each patient





Thermal Recorder, Wired/Wireless CMS, 4G module

Toll-free No: 18008894232

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