

CONTEC

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LIGHT THE RHYTHM OF LIFE WITH TECHNOLOGY



Multiparameter Simulator MS400

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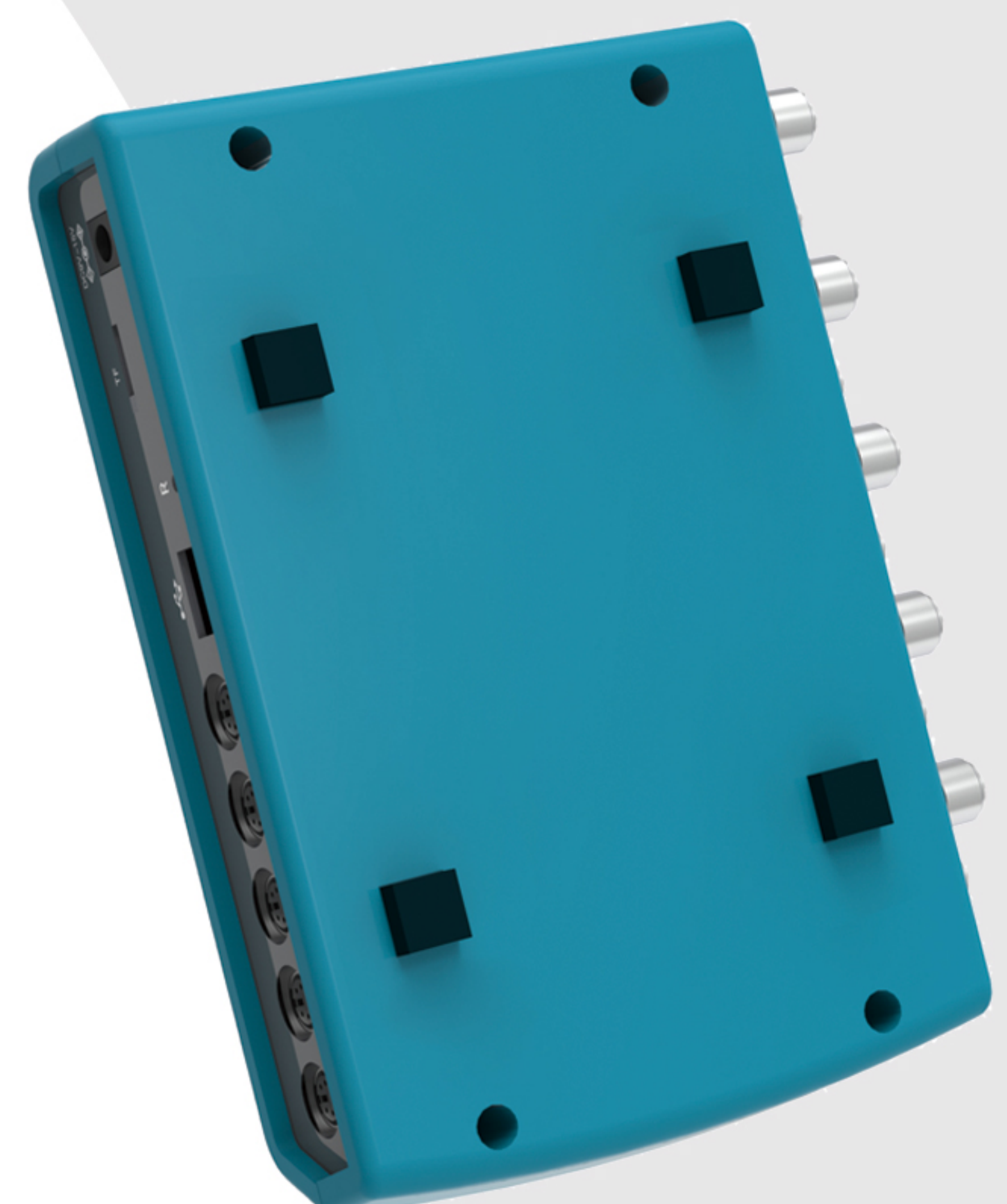
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Multiparameter Simulator

MS400



MS400 Multiparameter Simulator is a portable device, features in small volume and light weight. It can simulate accurately 12-lead ECG, Respiration, Temperature, 2-channel IBP or 4-channel IBP. And it can be tested in where the monitor is used.

Function

- Simulate 35 kinds of arrhythmia (including Atrial, Ventricular, Pre-mature Beat and Conduction Defects) and pacemaker waveforms (including Asynchronous, Demand Occ Sinus, Demand Freq Sinus, A/V Sequential, Non Capture, Non Function).
- Simulate four-channel IBP data.
- Simulate respiration signal with adjustable respiration rate, impedance and baseline impedance, and three kinds of apnea data.
- Simulate four kinds of temperature data.
- Simulate square wave, triangle wave, pulse wave and sine wave with adjustable frequency.
- Simulate standard ECG calibration, adult and pediatric ECG signal.
- ECG waveform complied with the standard of ANSI/AAMI EC13-2002, AHA, MIT ECG database, other ECG database and user-defined waveform data stored in TF card can be displayed by the simulator and exported to the equipments to be tested.
- Each waveform can be displayed by sliding the 3.5" TFT touch screen, easy to operate.
- Power supply: rechargeable lithium battery or linear adapter, which reduces interference.
- Optional operation modes: keys and touch screen.

Accessories

Standard accessories	9V/1A(CE) power adapter, an User manual, a packaging box,a plastic packaging.
Optional accessories	a power adapter(15V/1A)(UL), a power adapter(15V/1A),a temperature cable,an IBP cable, a CD disk(including a case conversion software)

Physical characteristic

- Dimension : 18.86 cm(L)×12.50 cm(W)×4.32 cm(H)
- Net weight : about 1.4kg

Performance

ECG

- ConventionalAll leads have the same voltage with the II-lead as the reference
- Amplitude0.5,1.0,1.5 and 2.0mV
- ECG Rate0,15,20,25,30,40,60,80,100,120,140,160,180,200,220,240,260,280,300,320,340and 350 BPM
- ECG artifacts50 and 60 Hz, muscle, baseline and breathing
- The elevation of the ST segment+0.8 to -0.8 mV, the step is 0.1 mV

Arrhythmia

- AtrialAtrial Fib(coarse), Atrial fib(fine), Atrial Flutter, Sinus Arrhythmia, Missed Beat,Atrial Tachycardia, Nodal Rhythm, Supraventricular Tachycardia
- VentricularVent Fib (coarse), Vent Fib (fine), PVCs 6/min, PVCs 12/min, PVCs 24/min, Frequent Multifocal, Bigeminy, Trigeminy, Paired PVCs, Run 5 PVCs, Run 11 PVCs, Vent Tachycardia, Asystole
- Premature BeatAtrial PAC, Nodal PNC, PVC1 LV Focus, PVC1 E LV Focus, Ron T LV Focus,PVC2 RV Focus, PVC2 E RV Focus, R on T RV Focus, Multifocal PVC
- Conduction DefectsFirst Degree Heart Block, Second Degree Heart Block, Third Degree Heart Block, Right Bundle Branch Block, Left Bundle Branch Block.

Four IBP Channels

- Dynamic IBP(unit: mmHg)
- Channel 1

Artery	120/80
Radial	120/80
Left Ventricle	120/00
Right Ventricle	25/00
- Channel 2

Artery	120/80
Radial	120/80
Left Ventricle	120/00
Right Atrium(CVP)	15/10
Right Ventricle	25/00
Pulmonary Artery	25/10
Pulmonary Wedge	10/2
Left Atrium	14/4
- Channel 3

Artery	120/80
Radial	120/80
Left Ventricle	120/00
Right Atrium(CVP)	15/10
Right Ventricle	25/00
Pulmonary Artery	25/10
Pulmonary Wedge	10/2
Left Atrium	14/4
- Channel 4:

Auto Swan-Ganz (every 15 seconds)	RA(CVP), RV, PA, PAW (Pulmonary Wedge)
Man Swan-Ganz	press ENTER key to change every time
Static-Pressure Levels	
- Channel 1	—100,0, 80, 160, 240, 320 and 400mmHg
- Channel 2	—100,0, 50, 100, 150, 200 and 250mmHg
- Channel 3	—100,0, 20, 40, 60, 80 and 100mmHg
- Channel 4	P4 tracks the static pressure levels of P3
- Respiration

Respiration Rate	0 (Apnea), 15, 20, 30, 40, 60, 80, 100, 120 and 150 R/MIN
Impedance	0.2, 0.5, 1.0 and 3.0 Ω
Baseline impedance	500, 1000, 1500, 2000Ω
Apnea	12 s, 22 s, 32 s
- Temperature

Four temperature	0°C(32°F), 24°C(75°F), 37°C(98.6°F), 40°C(104°F)
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