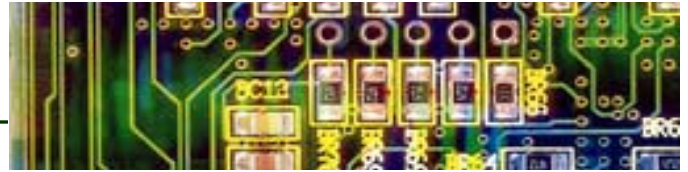


# BC Biomedical MaxiSim 2000



## *Multi-Parameter Patient Simulator*

### Applications

Designed to simplify your patient monitor testing, our newest patient simulator offers three preprogrammed automated test modes plus a built-in ECG lead continuity test. Arrhythmia selection includes two supraventricular, two conduction, eight ventricular, one paced, and one fetal/maternal ECG simulation. Use the front panel controls and large 2-digit numeric display to select or adjust outputs.

### Auto ECG Rate Test Mode

All normal sinus heart rate selections are sequenced in 30-second intervals to test central stations, telemetry systems and other remote rate meter alarms.

### Auto ECG Performance Test Mode

The automated ECG performance sequence can evaluate monitoring and diagnostic equipment at the required AHA points for gain/damping, linearity, and frequency response.

### Auto BP Level Test Mode

All static levels are automatically sequenced to test BP monitors. The sequence advances every 12 seconds, resets to zero, and then repeats. *Uses DNI Nevada blood pressure cables!*



**MaxiSim 2000**

### Highlights

- **12-lead ECG**
- **3 automated test modes**
- **14 arrhythmias**
- **Blood pressure, respiration & temperature**
- **ECG lead test**
- **Battery/line power**

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# Specifications

<p><b>BC Biomedical MaxiSim 2000</b></p> <p><b>ECG GENERAL:</b>  <b>LEAD CONFIGURATION:</b>          12-lead simulation derived from one resistively divided analog signal.          RL, RA, LA, LL, V1-6</p> <p><b>OUTPUT IMPEDANCE:</b>          Limb leads: 500 or 1000 ohms to RL          V Leads: 1000 ohms to RL</p> <p><b>HIGH LEVEL OUTPUT:</b>          0.5 V/mV of low level (lead II)</p> <p><b>NORMAL SINUS:</b>          Rates: 30, 60, 80, 120, 180, 200, 240 &amp; 300 BPM          Rate accuracy: <math>\pm 1\%</math> of selection          Amplitudes: 0.5, 1.0, 1.5, 2.0 mV (Lead II)          Amplitude accuracy: <math>\pm 5\%</math> (Lead II 1.0 mV)          AUTOMATIC ECG RATE TEST</p> <p><b>MANUAL ECG PERFORMANCE TEST:</b>          Square wave: 2Hz 1.0 mV p-p bipolar          DC pulse: 4.0 seconds 1.0 mV          Sine waves: 0.1, 0.5, 10, 40, 50, 60, 100Hz          Triangle wave: 2.0 Hz          Amplitudes: 0.5, 1.0, 1.5, 2.0 mV (Lead II)          Amplitude accuracy: <math>\pm 5\%</math> (Lead II 1.0 mV)</p> <p><b>AUTOMATED ECG PERFORMANCE TEST:</b>          Gain/Damping: 2 Hz square wave          Frequency response:          Low frequency: 4 second DC pulse          Band pass: 10 Hz sine          Monitor: -3dB point: 40 Hz sine          Power line notch filter: 50 Hz sine          Linearity: 2 Hz triangle wave</p> <p><b>ECG LEAD TEST:</b>          Display flashes if lead resistance is <math>&lt;3</math> kOhms          (DC lead wire only)</p>	<p><b>BLOOD PRESSURE GENERAL:</b>          Input/Output impedance: 300 Ohms          Exciter voltage range: 2 to 16 volts          Exciter freq. range: DC to 4000 Hz          Output sensitivity: 5 or 40 <math>\mu</math>V/V/mmHg          Accuracy: <math>\pm 1\%</math> full scale, <math>\pm 1</math> mmHg          Calibrated rate: 80 BPM</p> <p><b>DYNAMIC BLOOD PRESSURE SELECTIONS:</b>          Atmosphere: 0 mmHg          Arterial: 120/80 mmHg          Left ventricle: 120/0 mmHg          Right ventricle: 25/0 mmHg          Pulmonary artery: 25/10 mmHg          Pulmonary wedge: 10/2 mmHg          Static levels: 0, 20, 40, 80, 100, 200, 250, 300 mmHg</p> <p>* Synchronized with all normal sinus rates.          Physiologically tracks all arrhythmia selections</p> <p><b>RESPIRATION:</b>          NORMAL PHYSIOLOGICAL SIMULATION:          Baseline impedances: 500 and 1000 Ohms          impedance variations: 0.1, 0.2, 0.5, 1.0, 3.0 Ohms          Rates: 0 (Apnea), 15, 20, 30, 40, 60, 120 BPM          Output configuration: Lead I, II, RL-LL</p> <p><b>ARRHYTHMIA SELECTIONS</b>          Atrial Fibrillation 1 &amp; 2          Premature Atrial Contraction          PVC          Early PVC          R on T PVC          Multifocal PVCs          Bigeminy          Bigeminy Run of 5 PVCs</p>	<p><b>TEMPERATURE:</b>          30°C/86°F, 37°C/98.6°F, 40°C/104°F.          Compatible with YSI 400/700 series.          Accuracy: <math>\pm 0.25^\circ\text{C}</math></p> <p><b>DISPLAY/CONTROL:</b>          2-DIGIT NUMERIC DISPLAY 3 KEYS -          Up/down for each digit and Enter.          5 switches for BP, respiration, temperature and Power On/Off.</p> <p><b>ECG OUTPUT CONNECTORS:</b>          HIGH LEVEL: standard phono jack;          LOW LEVEL: 10 AHA color-coded standard safety banana connectors with detachable banana to snap adaptor.</p> <p><b>POWER:</b>          9-volt alkaline battery or battery eliminator</p> <p><b>CASE:</b> High impact plastic</p> <p><b>WEIGHT:</b> 0.5 kg</p> <p><b>DIMENSIONS:</b>          W x L x H:          190 mm x 138 mm x 47 mm</p> <p><b>STANDARD ACCESSORIES:</b>          Hard Carrying case, 10 Snap-to-banana adapters, user/service manual, 9-volt alkaline battery.</p> <p><b>OPTIONAL ACCESSORIES:</b>  <b>BC20-30107:</b> Soft Carrying Case  <b>BC20-17025:</b> ECG Banana-to-Snap/ECG Adapters  <b>BC20-30030:</b> Temp. Cable – unterminated</p>
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