



## OVERVIEW

MiniSim EEG 2000 is a versatile EEG waveform simulation instrument. It is designed exclusively for testing various EEG monitoring devices including recorders, Sleep Study Monitors, and multi-channel EEG monitoring systems.

This compact, microcontroller-based instrument simulates six different types of EEG waveforms, such as Alpha, Theta, Gamma, Delta,  $\alpha$  and ABR.

In addition to the EEG waveforms, it simulates ECG waveforms as well as performance waveforms such as Sine, Square and Triangle.

MiniSim EEG 2000 provides 16 independent outputs.

★ **Compact**      ★ **Easy to Use**      ★ **Best Value**

## PRODUCT HIGHLIGHTS

- 1 different EEG waveform Simulation.
- 16 channel independent outputs.
- 3 lead ECG normal sinus waveform simulation.
- Performance wave forms - Sine, Square, Triangle.
- Patented EEG cup electrodes for easy hookup of cup electrodes.
- Ideal for performance testing of all EEG instrumentation.
- One of a kind.

## MAIN FEATURES

- Large LCD graphics display.
- Simple to use, utilizing dedicated function keys and menu-driven interface.
- Compact, lightweight and battery operated.
- User selectable waveforms.
- User-selectable amplitude from 10 V to mV.
- User selectable amplitudes.
- Battery operated (7.4 Volt LI Ion rechargeable battery).
- 2 Year Warranty.

## Ordering Information

### Part No:

333: MiniSim EEG 2000 (Included Accessories -Hard carrying case, LI Ion Battery Changer)

### Standard Accessories:

333-EEG-CABLE (16 Cup electrode cables)

333-ECG-CABLE (3 Lead ECG cable with Snap Button)

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## SPECIFICATIONS

### EEG Waveforms:

ABR-Alfa Beta Rhythm (1Khz-4Khz).

Alpha (3-13Hz), Theta (4-8Hz), Delta (1-4 Hz), Gamma (30-200 Hz)  $\Delta$ ,  $\theta$ ,  $\alpha$ ,  $\gamma$ ,  $\delta$

### Amplitude:

User selectable amplitudes from 10 uV to 1mV (Peak to Peak).

### Performance Waveforms:

Sine, Square, Triangle:

Frequencies: 1, 2, 3, 4, 5, 6, 7, 8, 10, 20, 40, 60 Hz.

Amplitude: 10 uV, 20 uV, 50 uV, 100 uV, 200 uV, 500 uV, 1 mV, 2 mV, 5 mV, 10 mV, 20 mV, 50 mV, 100 mV, 200 mV, 500 mV, 1 V, 2 V, 5 V, 10 V, 20 V, 50 V, 100 V, 200 V, 500 V, 1000 V

### Output Amplitude Calibration:

Waveform outputs are calibrated full scale to 1mV Square wave.

Amplitude accuracy:  $\pm 5\%$  (Square Wave -All channels)

### ECG Rate

Rate: User selectable: 30, 60, 90, 120 BPM

Amplitude: User selectable 0.1, 0.25, 0.50, 0.75, 1.0, 1.5, 2.0, and 2.5 mV.

### General Specifications:

#### Temperature Range:

Operating: +15°C to +35°C ,

Storage: 0°C to +50°C.

#### Display

Type: 128 x64 graphics display with LED backlighting.

**Power:** 7.4 Volt Li-Ion Battery. 100-230 VAC input 8.5V Battery Charger.

**Housing:** High impact ABS plastic case.

**Dimensions:** 7.75 x 4 x 1.5 in. (19.7 x 10.2 x 3.8 cm)

**Weight:** 0.45 kg / 1 lbs. with Battery.

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