



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, Beta, 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

- 6 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)

SPECIFICATIONS

EEG Waveforms:

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

Alpha (3-13Hz), Theta (4-8Hz), Delta (1-4 Hz), Gamma (30-200 Hz)

Amplitude:

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

Performance Waveforms:

Sine, Square, Triangle:

Rate: 0.2, 0.3, 0.4, 0.5, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60 Hz.

Amplitude: 0.1, 0.25, 0.50, 1, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0 mV.

Output Amplitude Calibration:

All outputs waveforms are calibrated using 1mV Square wave.

Amplitude accuracy: $\pm 2\%$ (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 205 mV.

General Specifications:

Temperature Range:

Operating: $+15^{\circ}\text{C}$ to $+35^{\circ}\text{C}$,

Storage: 0°C to $+50^{\circ}\text{C}$.

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.