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Wireless ECG Sensor

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Optimised Ambulatory ECG provides quick recovery from movement artifacts

Description

The Shimmer ECG (Electrocardiogram) records the pathway of electrical impulses through the heart muscle, and can be recorded in resting and ambulatory subjects, or during exercise to provide information on the heart's response to physical exertion. The three lead Shimmer ECG connects to the internal connector pin on the Shimmer mainboard, and is enclosed within the Shimmer unit, with application to the skin via four conventional disposable electrodes. The Shimmer ECG uses low offset precision amplification with ~15p leakage for high impedance matching. The unique AC-coupled topology with clamping diodes provides excellent transient recovery.

Key Features

The Shimmer ECG daughter board has been validated for use in biomedical-orientated research applications, and to acquire **ambulatory ECG** for research application purposes. Providing quick recovery from movement artefacts the Shimmer ECG offers a cost effective wireless ECG monitoring system that captures information highest industry standards. The Shimmer ECG has also received CE certification proving it has met EU consumer health and safety requirements for medical equipment.

Applications

The Shimmer ECG can be used record heart rate and the regularity heartbeats, to diagnose a possible heart attack or other heart disorders. ECG is commonly used to measure and diagnose abnormal rhythms of the heart, particularly abnormal rhythms caused by damage to the conductive tissue that carries electrical signals, or abnormal rhythms caused by electrolyte imbalances. Ambulatory ECG can be used for normal daily activities including sleeping, event monitoring and recording, and to warn of pending fatal cardiac conditions before visible signs are noticeable to clinical staff such as atrial fibrillation premature ventricular contraction.

Download the [Shimmer Wireless ECG Sensor Data Sheet](#).

Code: SH-ECG-KIT-002. Includes ECG daughterboard and ECG top enclosure only. Shimmer baseboard sold separately.