

# THE FIRST WIRELESS ECG TRIGGER

The ECG Trigger or R-wave detector is an instrument that detects the bioelectric signal resulting from activation of the heart's ventricles.

Such detectors are used in intensive-care wards to monitor heartbeats of patients and to alert the medical staff to abnormal rhythms. Another application is synchronizing heart-assist pumps to the rhythm of the natural heart.

This is an add-on module to the ECG Amplifier. The instrument was developed to improve the performance of heartbeat monitoring Equipment and for synchronization of heart-assist pumps. It is used for triggering (starting) a stimulator or some other equipment from the R-wave of an ECG signal. Designed for use in conjunction with imaging systems in gated cardiac studies, the AccuSync 42ECG triggering device automatically detects the R Wave with precision and reliability.



## Features

- Wireless ECG Trigger
- Automatic R Wave Detection
- Digital ECG waveform output
- Synchronized ECG trigger output
- 3 Selectable ECG Leads
- Controllable ECG Output
- Trigger Pulse LED
- Patient Isolation
- External ECG Interface
- Universal Voltage
- Easy to Handle
- Patient Comfort



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## Specifications:

### Output:

- Synchronized output BNC (for trigger pulse output)
- Pulse polarity: Negative or positive
- Configuration: 3-Lead System
- Band width: 0.1-1 kHz
- CMRR  $\geq$  73dB
- Input bias current: 150 $\mu$ A
- Notch Filter: 50Hz
- Accuracy:  $\pm 1$  bpm  $\pm$  1%
- HR averaging: Last 10 beats

- Resolution: 1bpm
- Trigger Delay < 1ms
- R to R accuracy: 100  $\mu$ s
- Pulse Width: 1-200 ms (Adjustable)
- Pulse Amplitude: 0-3V
- Source Current: 100mA
- Sink Current: 150 mA
- Heart Beat: 10-300bpm
- Relative humidity: 10-60%
- Storage temperature: 5-40  $^{\circ}$ C

### Mechanical data:

- Dimensions (WxHxD): 23x12x12 cm<sup>3</sup>
- Weight: < 3kg
- Accessory: BNC output cable, ECG Cable, Type-C Cable, Operating Instructions

### Supply:

- Transmitter Module: Battery, 3V, 10ma
- Receiver Module: Adaptor, 5V, 4A



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