



## Product Description

This MRI compatible *MR Finger* product allows for the production of an ECG-compatible trigger signal. With the *MR Finger* a device that outputs a TTL signal can be used to simulate an ECG signal.



Top Image



Bottom Image



BNC Cable

*Many clinical instruments that measure blood flow require an ECG trigger. With the MR Finger, any device that outputs a TTL signal can be used to simulate an ECG signal. The MR Finger is a passive device, which requires a TTL pulse.*

The *MR Finger* is designed to work with our product line of computer-controlled physiological flow pumps. When using Shelley's SimuFlow III Waveform Editing Software display the ECG trigger points are shown as green dots in the desired waveform. An ECG trigger point enables an electrical output on the ECG output. The duration of this output is one update interval. Although most applications require only one ECG output per waveform cycle, multiple ECG points are possible within one waveform.

Choosing your ECG point is simple, with the SimuFlow III Waveform Editing Software Wave Edit tool open and **Show Points** selected, the user simply uses a mouse to select the desired data point. When the desired data point is selected, click **Make ECG point**. The data point will change from red to green, indicating it is now an ECG trigger point.

The *MR Finger* is connected to a BNC coaxial cable; the end of the BNC cable is connected to the ECG connector on one of Shelley's computer-controlled physiological flow pumps. When the *MR Finger* is positioned in the MRI scanners plethysmograph (finger clip) it emits an infrared signal that is interpreted by the MRI scanner as an EKG signal, thereby synchronizing the TTL signal from the host device with the MRI scanners EKG acquisition, ECG gated studies can be performed.

## Features

- Input BNC connector
- Output is infrared signal
- Battery or external power supply is not required

## Detailed Specifications

Recommended TTL input: positive going 2-50 ms pulse  
Standard BNC cable, 30'



S H E L L E Y M E D I C A L I M A G I N G T E C H N O L O G I E S

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