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# Model 7800

## Overview



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The Model 7800 is Ivy Biomedical System's 5th generation cardiac trigger monitor used in applications requiring precision ECG R-wave synchronization for gating host systems on and off. The Model 7800 incorporates an intuitive, menu-driven, touch-screen user interface, simplifying operation for clinicians and technicians.

## Applications

The Model 7800 is a favorite for use in cardiovascular diagnostic imaging studies, especially in computed tomography (CT) applications.

## Worry Free Operation

Acquiring reliable and consistent ECG triggers can often be a challenging task, and selecting the right ECG vector can be problematic. The Model 7800 uses a 4-lead ECG configuration in order to provide automatic lead selection capability. This feature monitors each ECG vector simultaneously, and automatically selects the best ECG lead for triggering, thereby delivering reliable triggering even under challenging or changing patient conditions. Red markers on the ECG waveform indicate when and where triggering occurred for visual verification and assurance. In addition, an electrode impedance measurement function enables quick verification of proper electrode/skin preparation prior to patient scans.

## Key Features

The Model 7800 offers a large 8" diagonal color TFT display, ECG simulator, heart rate limit alarms, electrode impedance check, X-ray on signal input, ECG waveform export, Ethernet and RS-232 communication interface, multiple factory configured trigger output pulse width and amplitude options, optional integrated strip chart recorder, optional roll stand mount, and more.

## System Integration

Several system integration features are provided to enable streamlined and automated operation including ECG waveform output to both the gantry display and operator's console, X-ray on signal input for ECG waveform file capture for each patient scan, and Ethernet communication for remote command and control.

## Precision Performance

The Model 7800 offers trigger pulse output performance with less than 2ms of delay, and  $\pm 75\mu\text{s}$  of dither (accuracy), ensuring consistent and reliable triggering.

## Regulatory & Compliance

All Ivy Biomedical products comply with global standards for safety, EMC, quality management, and environmental requirements.

Call 1-800-247-4614 to speak with a customer service representative today!

 [Contact Us \(contact.html\)](#)



Ivy Biomedical Systems, Inc. is a privately-held medical device company headquartered in Branford, Connecticut. We are the market leader for precision cardiac gating monitors used for synchronization of radiographic image acquisition across all major modalities including nuclear medicine/molecular imaging (NM/MI), computed tomography (CT), magnetic resonance (MR), positron emission tomography (PET), and single photon emission computed tomography (SPECT).

## Corporate Headquarters

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