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Model 7810

Overview



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The Model 7810 is Ivy Biomedical System's newest product introduction providing dual (cardiac and respiratory) gating functionality used in applications requiring precision ECG R-wave and respiratory cycle synchronization for gating host systems on and off. The Model 7810 incorporates an intuitive, menu-driven, touch-screen user interface, simplifying



operation for clinicians and technicians.

Applications

The Model 7810 can be used for cardiovascular diagnostic imaging studies as well as thoracic diagnostic imaging studies, particularly in SPECT, PET or PET/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 7810 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 and RESP waveforms 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 7810 offers a large 8" diagonal color TFT with dual waveform (ECG & RESP) display, ECG simulator, electrode impedance check, pneumatic respiratory sensor input, 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.

Motion Artifact Reduction

Respiratory motion artifacts can be reduced during thoracic imaging scans with the use of the Model 7810 pneumatic bellows for monitoring chest and abdominal movement, and providing respiratory trigger pulses at predefined intervals/limits in the patient's respiratory cycle.

System Integration

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




Precision Performance

The Model 7810 offers an ECG 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).

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