


AccuSync® 71

ECG Trigger Monitor

Model 15-710-3000

- Automatic R wave detection
- 3 or 5 selectable ECG leads
- Programmable R trigger delay
- External ECG interface
- Universal voltage
-  Tested. Meets applicable standards
- Optional thermal head printer

Introduction

The new AccuSync 71 ECG trigger monitor for gated cardiac studies automatically detects the R wave with precision and reliability. Its menu-driven Color Active Matrix Display combines ease of use with increased functionality and flexibility while its light and compact design makes it portable.

Applications

The AccuSync 71 ECG is a necessary accessory for every facility performing SPECT or PET Nuclear Cardiology Studies. Gated studies are reimbursable, adding a revenue stream to the department. Since the Gated Wall Motion Study is acquired at the same time the perfusion images are acquired, no additional camera time is required.

The AccuSync 71 ECG also has uses in the ultrasound suite as well as the MRI* department. Anywhere that gated studies are needed, the AccuSync 71 ECG is at home.



Specifications

Patient leakage current Less than 10 μ A with 230 V~, 60 Hz applied to leads. Patient related circuitry is isolated from ground by more than 4000 V, 500 V peak

Defibrillator protection 5000 V, 10 ms duration

Common mode rejection ratio 90 db with 51 k ohm imbalance

Input impedance 100 M ohm

Bandwidth

Diagnostic 0.05 to 100 Hz

TFT LCD display 0.5 to 50 Hz

Printer 0.5 to 100 Hz

Patient cable

3 lead system RA, LA, and LL with 6 pin AAMI connector

5 lead system RA, LA, RL, LL, and C with 6-pin AAMI connector

Input bias current 50 nA DC

Electrode offset potential ± 0.5 V

Sensitivity 100 mV peak

Display area 5.25 (w) x 4 in (h) (13.34 x 10.16 cm)

Display indicates Heart rate, R-R interval, ECG size, ECG lead selection, audio, freeze, print, R trigger event marker and programmed delay

Outputs

1) The R trigger is a 5 V TTL/CMOS compatible (or 12 V) square wave for the computer trigger; independent of ECG signal polarity. R wave detection

and trigger to computer is indicated by audio signal and by presence of a superimposed dot on the R wave which appears on the display. The trigger may be delayed up to 100 ms. The output can deliver 35 mA of current or drive up to 150 feet long RGU 174/U cable. R trigger is compatible with all computers including Adac, DEC, Elscint, GE, Hitachi, MDS, Picker (Marconi), Sopha, Technicare, Toshiba, Siemens, SMV, and Digirad

2) RS-232 interface available to transmit and receive information via an IBM or compatible computer. In transit mode, the interface will send the ECG data to the computer while in receiver mode the computer will control the parameters of the instrument

3) ECG Output: Variable gain analog ECG up to x3000 available on a BNC connector

Dimensions 9 (w) x 7 (d) x 6 in (h) (23 x 18 x 15 cm)

Construction Aluminum

Power rating 115/230 V~ 60/50 Hz 0.30/0.15 A

Weight 8 lb (3.6 kg), with print 9 lb (4 kg)

EMC/regulatory compliance

Unit is certified to meet or exceed the specifications in EN 60601-1-2. Certified to UL 2601-1, CSA 601.1 by TUV Rheinland (NRTL). CE certified (No. 41313680)

Manufacturer's quality system is certified to ISO 9001 / EN 46001 and compliant with US FDA Quality System Regulations

Optional accessories

ECG Simulator (Model 15-110)

Paper speed: 25 mm per second. When Freeze is selected, recorder prints only data displayed on screen

Printing method: thermal line dot system

Resolution: Horizontal - 8 dots per mm. Vertical - 16 lines per mm

Event marker: When R wave is detected, a mark is superimposed on the R wave to indicate the presence of an R trigger signal triggering the computer

Rechargeable Battery (Model 87-710)

12 V Rechargeable (approximately 3.5 hr)

Available model(s)

15-710-3000 AccuSync 71 ECG Trigger Monitor Three Lead System without printer

15-713 AccuSync 71 ECG Trigger Monitor Three Lead System with printer

15-710-5000 AccuSync 71 ECG Trigger Monitor Five Lead System without printer

15-715 AccuSync 71 ECG Trigger Monitor Five Lead System with printer

For additional information, please contact Cardinal Health, Radiation Management Services customer service at 440.248.9300, 800.850.4608, or fax: 440.349.2307; located at 6045 Cochran Road, Cleveland, Ohio 44139-3303, USA.

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AccuSync® 41 R Wave Trigger

Model 15-410



Nuclear Medicine



- Automatic R wave detection
- 3 selectable ECG leads
- Adjustable ECG output
- Trigger pulse LED
- Audio indicator
- Patient isolation
- External ECG interface
- Universal voltage
-  Tested. Meets applicable standards

Introduction

The AccuSync 41 R Wave Trigger automatically and reliably detects the R wave. It is a proven device that is compatible with nearly all commercially available acquisition systems. The AccuSync 41 R Wave Trigger can be attached to an external ECG system to display the cardiogram for real time patient monitoring while being used in the acquisition mode.

Applications

The AccuSync 41 R Wave Trigger is an economical 3-Lead R Wave Trigger system that is perfect for those clinics that need a reliable no-frills gating system. The AccuSync 41 R Wave Trigger also has uses in the ultrasound suite as well as the MRI* department. Anywhere that gated studies are needed, the AccuSync 41 R Wave Trigger can be used.

Specifications

Patient leakage current Less than 10 μ A with 230 V~, 60 Hz applied to leads

Defibrillator protection 5000 V, 10 ms duration

Common mode rejection ratio 90 db minimum with 51 k ohm imbalance

Input impedance 100 M ohm

Bandwidth 0.05 to 100 Hz

Patient cable 3 Lead System: RA, LA, and LL with 6 pin AAMI connector

Input bias current 100 nA DC

Electrode offset potential ± 0.5 V

Sensitivity 100 mV peak

Outputs

1) The R trigger is a 5 V TTL or CMOS compatible square wave for the computer

trigger; independent of ECG signal polarity. No delay. The output can deliver 35 mA of current or drive up to 150 feet long RGU 174/U cable
2) ECG Output: Variable gain analog ECG up to x2000 available on a BNC connector. All AccuSync instruments are equipped with an audio indicator activated on each R wave detection. R trigger is compatible with all computers including Adac, DC, Elscint, GE, Hitachi, Marconi, MDS, Picker, Sopha, Technicare, Toshiba, Siemens, and Digirad

Power (selectable) 115/230 V~ 60/50 Hz, 0.055/0.027 A

Construction Aluminum

Dimensions 7.188 (w) x 6.375 (d) x 3.058 in (h) (18.3 x 16.2 x 7.8 cm)

Weight 3 lb (1.4 kg)

EMC/regulatory compliance

Unit is certified to meet or exceed the specifications in EN 60601-1-2. Certified to UL 2601-1, CSA601.1 by TUV Rheinland (NRTL). CE certified (No. 41313680)

Manufacturer's quality system is certified to ISO 9001 / EN 46001 and compliant with US FDA Quality System Regulations

Available model(s)

15-410 AccuSync 41 R Wave Trigger

For additional information, please contact Cardinal Health, Radiation Management Services customer service at 440.248.9300, 800.850.4608, or fax: 440.349.2307; located at 6045 Cochran Road, Cleveland, Ohio 44139-3303, USA.

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* The AccuSync device is not to be taken into the MRI room without first ascertaining its magnetic properties.