IVY BIOMEDICAL

7600

Cardiac Trigger Monitor

The Model 7600 is Ivy Biomedical's fifth generation cardiac trigger monitor with the intended use primarily on patients in applications requiring precision ECG R-wave synchronization. Incorporating a simple, easy-to-use touchscreen interface, the 7600 displays two simultaneous ECG vectors, along with the patient's heart rate.

Intuitive Operation

Acquiring an ECG trigger can often be a challenging task, and selecting the right ECG vector can be problematic. The 7600's AUTO lead select feature (Trigger lead only) will determine which lead (I, II or III) provides for the best amplitude-to-noise ratio of the ECG signal and, thus, a more reliable cardiac trigger.

Patient Monitoring

When required, high and low heart rate alarm limits can be adjusted to bracket a patient's heart rate, so that a violation of these limits produces an audible and visual indication of the alarm.

Imaging Applications

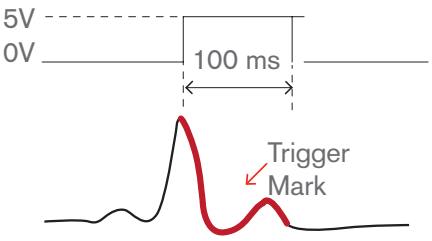
The 7600 Monitor provides world-class cardiac triggering for use in synchronized applications, such as Nuclear Imaging.

Improved Communications

The Model 7600 has an electrically isolated RS-232 connector that provides two-way direct communications between the monitor and the external console for the transfer of ECG data. The Model 7600 is available with or without an integrated strip chart recorder.

Precision Engineering

A color Trigger mark clearly indicates the timing of each synch pulse with respect to the ECG, providing a visual reference for timing and synchronization.



P/N: 3284-00-16 Rev. 07 EN
November 16, 2015

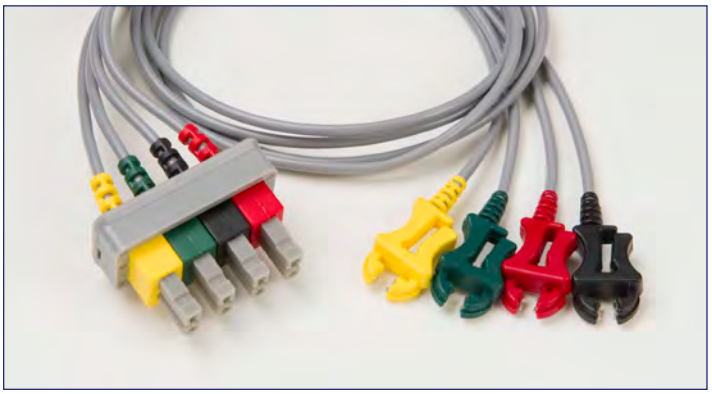
AHA-Compatible

590432
Patient cable

590433
Lead wires (Set of 4)

IEC-Compatible

590446
Patient cable



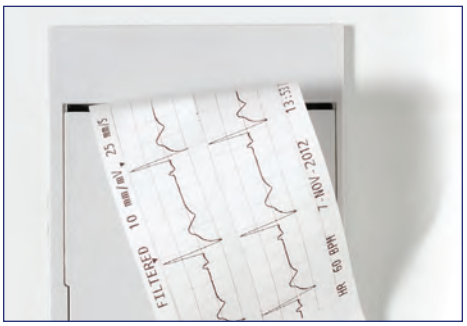
590447
Lead wires (Set of 4)

590436
ECG Electrodes (Box 0f 40)

590035
Recorder Paper (10 Rolls)

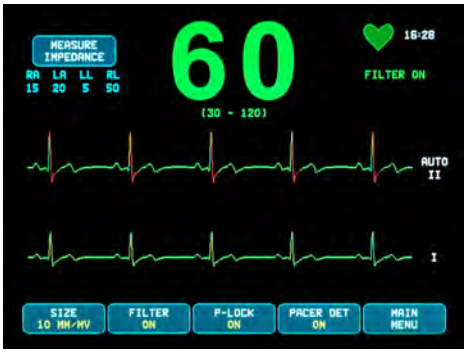
World-Class Cardiac Triggering

7600



Integrated Chart Recorder

Optional recorder prints ECG strips on demand for manual review.



Touch Screen Operation

Quickly adjust alarm limits, or make adjustments on the fly using the on-screen menus and buttons.

Mounting Solutions

Ivy Biomedical has a custom-designed, light-duty roll stand that enhances the maneuverability of the 7600. Please contact us for more information, or for custom requirements.

590441
Roll stand (shown)*

*Requires **3302-00-15**
Roll stand Mounting Kit

Technical Specifications

7600

ECG Lead Selection

Trigger Lead	I, II, III, and AUTO
Second Lead	I, II and III

Patient Cable

4 Lead cable with 6 PIN AAMI standard connector, isolated from ground related circuits by > 4 kV rms, 5.5 kV peak

Frequency Response

LCD Display and Recorder	
Filtered	1.5 to 40 Hz or 3.0 to 25 Hz
Unfiltered	0.67 to 100 Hz
ECG Output	
Unfiltered	0.67 to 100 Hz

Electrode Impedance Measurement

Technique	10Hz ac signal < 10 uA rms
Range	200kΩ per lead
Accuracy	±3% ±1kΩ
Recommended Electrode	10% Chloride sponge type (590436)

Cardiotach

Pediatric/Neonate Range	10-350 bpm
Adult Range	10-300 bpm
Accuracy	±1% ±1 bpm
Resolution	1 bpm
Sensitivity	300 µV peak
Tall T Wave Rejection	T waves ≤ 1.2 * R-wave

Pacer Pulse Rejection

Width	0.1-2 ms at ±2 to ±700 mV

Recorder

Feature	Optional
Writing Method	Direct Thermal

Synchronized Output (Trigger)*

Output Trigger Delay	< 2 ms
R to R Trigger Accuracy	±75 µs typical @ 1 mV input
Pulse Width Options	1, 50, 100 or 150ms
Pulse Amplitude Options	0V to +5V or -10V to +10V
Output Impedance	<100 Ω

* Test input signal at ECG leads
Conditions: ½ sine wave, 60ms width, 1mV amplitude, 1 pulse/second

Alarms

High Rate	15-250 bpm (5 bpm increments)
Low Rate	10-245 bpm (5 bpm increments)
Asystole	R to R interval > 6 seconds
Lead Off	Detached lead
Check Lead	Imbalance between leads >0.5 V

Display

Active Matrix TFT Color Touch Screen	
Resolution	640x480
Screen Size	13.25cm x 9.94cm, 16.5cm (6.5in.) diagonal

Dimensions

Height	7.49in. (19.02cm)
Width	7.94in. (20.17cm)
Depth	5.18in. (13.16cm)
Weight	3.9 lbs (1.8kg)

Operating Environment

Temperature Range	5°C to 40°C
Relative Humidity	0-90% non-condensing
Altitude	-100 meters to +3,600 meters
Atmospheric Pressure	500-1060 mbar

Protection against ingress of fluids
IPX1 – Protection against vertically falling drops of water

Storage Environment

Temperature Range	-40°C to +70°C
Relative Humidity	5% to 95%
Altitude	-100 meters to +14,000 meters

Power Specifications

Voltage Input	100-120V~; 200-230V~
Line Frequency	50/60 Hz
Fuses Type and Rating:	T 0.5AL, 250V (Metric 5x20 mm)
Maximum ac Power Consumption:	45 VA

Power Recovery: Automatic, if power is restored within 30 seconds

Compliance/Certifications

ANSI/AAMI ES60601-1:2005
UL60601-1 1st edition
IEC 60601-1 3rd edition
IEC 60601-1 2nd edition
CAN/CSA C22.2 No 601.1-M90:2005
CDN MDR (CMDCAS)
CAN/CSA C22.2 No 60601-1:08
IEC 60601-2-27
ISO 13485:2003
MDD 93/42/EEC
CE 0413
RoHS: 2011/65/EU
WEEE 2012/19/EU
FDA/CGMP

Notified Body

Intertek Semko AB
Identification Number 0413
MDD Classification IIb

Authorized Representative

Emergo Europe

For additional specifications, refer to Operator Manual

(Specifications subject to change without notice)

CE 0413

CLASSIFIED c UL us 52MA

Manufactured by:

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