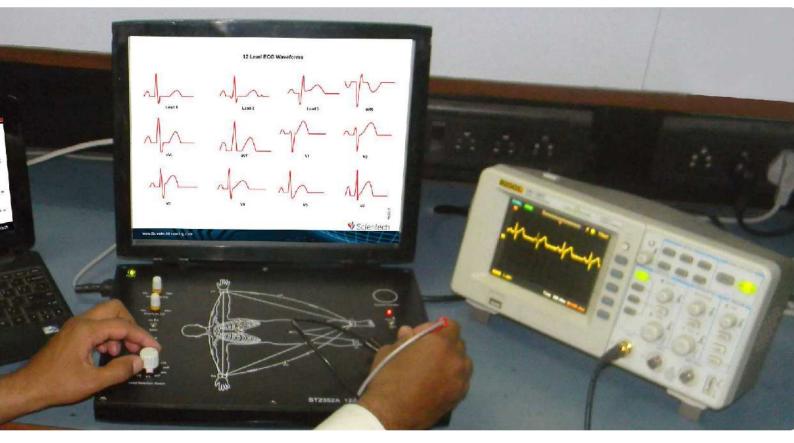
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12 Lead ECG Simulator Scientech 2352A

TECHBOOK



Scientech TechBooks are compact and user friendly learning platforms to provide a modern, portable, comprehensive and practical way to learn Technology. Each TechBook is provided with detailed Multimedia learning material which covers basic theory, step by step procedure to conduct the experiment and other useful information.

An Electrocardiogram (ECG or EKG, abbreviated from the German Elektrokardiogramm) is a graphic produced by an electrocardiograph, which records the electrical activity of the heart over time. Analysis of the various waves and normal vectors of depolarization and repolarization yields important diagnostic information.

- It is the gold standard for the diagnosis of cardiac arrhythmias
- It guides therapy and risk stratification for patients with suspected acute infarction.
- It helps detect electrolyte disturbances (e.g. hyperkalemia and hypokalemia)
- It allows for the detection of conduction abnormalities (e.g. right and left bundle branch block)

12 Lead ECG Simulator Scientech TechBook 2352A provides a quick, accurate measurement of all 12 leads including both Unipolar and Bipolar configurations for verifying the performance of real time ECG monitoring. It illustrates the fundamentals of standard limbs (unipolar and bipolar) and chest leads interpretation and rhythm recognition in an easy-to-use manner. ECG rhythms produced by Scientech TechBook 2352A can be changed in specific boundaries (heart-rate, amplitude).

Scientech TechBook 2352A also demonstrates ECG observation comprising P, Q, R, S, T, U (U wave is only for lead II) waves in different leads arrangements. It is compatible with ECG cum Heart Rate Monitor Scientech TechBook 2351 which receives the ECG signals generated by Scientech TechBook 2352A and measures the heart-rate as number of heartbeats per minute. The abnormalities occurring in human cardiovascular system like Tachycardia (faster heart-rate) and Bradycardia (slower heart-rate) can also be studied.

Scientech TechBook 2352A is also capable of illustrating all 12 leads of ECG simultaneously at a single point, where all waveforms can be observed which help you in understanding of ECG graph interpretation.

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Features

- Provides amplified ECG output with P, Q, R, S, T, U waves.
- Compatible with ECG cum Heart Rate Monitor Scientech Techbook 2351
- Provides in-depth study of Standard Unipolar and Bipolar Leads Configuration for ECG measurement Variable Heart-rate generation from 30-300 heartbeats/minute
- Variable ECG amplitude 200mV 4V DC
- Every Systole indication by LED and audible (Buzzer)

Scope of Learning

- Study of lead I, lead II, lead III of Standard Bipolar lead configuration
- Study of avR, avL , avF lead of Standard Augmented Uni-polar leads configuration.
- Study of Chest lead V1, Chest lead V2, Chest lead V3. Chest lead V4, Chest lead V5, Chest lead V6 of Standard Uni-polar lead Configuration.
- Study of all the standard ECG leads (12 leads) Unipolar and Bipolar configurations simultaneously.
- To demonstrate the measurement of Normal Heart-Rate using Scientech TechBook 2351
- Study of the heart abnormality conditions that occur in human Cardiovascular System (Tachycardia, Bradycardia) using Scientech TechBook 2351.

Technical Specifications

Generating Range :	30-300 heartbeats/minute
ECG Amplitude Range:	200mV- 4V DC.
Heartbeat indication :	Both LED and Audible (Buzzer) controls
Bipolar Leads :	Lead I, Lead II, Lead III.
Unipolar Leads :	avR, avL, avF, Chest leads (V1-V6) Separate output channels Left arm (LA), Right arm (RA), Left leg (LL), Right leg (RL) and Chest Leads (V1-V6) for representing Standard Limb and chest leads configurations. A separate point indicated (12 Lead) to view the all 12 Lead standard ECG waveforms simultaneously.
Test Point :	1 no.
Low Pass Filter :	Cut-off frequency-5KHz
Dimensions (mm) :	W 326 x D 252 x H 52
Power supply :	110V - 260V AC, 50/60Hz
Weight :	1.5 Kg. (approximately)
Operating Condition :	0-40°C, 85% RH
Product Tutorial :	Online on www.ScientechLearning.com
Included Accessories :	ECG Gel, Banana to 5 pin,
	Power Supply - 1 no.
	Clamp Electrodes - 4 nos.

