



Arrhythmia is any of a group of conditions in which the electrical activity of the heart is irregular or is faster or slower than normal. Some arrhythmias are life-threatening medical emergencies that can cause cardiac arrest and sudden death. Others cause aggravating symptoms, such as an awareness of a different heart beat or palpitation, which can be annoying. Some are quite minor and can be regarded as normal. Sinus arrhythmia is the mild acceleration followed by slowing of the normal rhythm that occurs with breathing. In adults the normal resting heart rate ranges from 60 to 100 beats per minute. The normal heart beat is controlled by a small area in the upper chamber of the heart called the sinoatrial node or sinus node. The sinus node contains specialized cells that have spontaneous electrical activity that starts each normal heart beat.

Sciencetech 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.

Sciencetech Techbook 2362 Arrhythmia Monitor is capable of producing 22 types simulated Arrhythmia waveforms belongs to different groups of Arrhythmia. Student can learn 22 kinds of Arrhythmia and its importance in medical field.

Features

- Provides information of 5 groups of Arrhythmia which is divided as Atrial Arrhythmia, Ventricular Arrhythmia, Atrio-Ventricular Arrhythmia, Junctional Arrhythmia, and Heart Blocks
- Provides information about 22 abnormal (Diseased) waves which indicates particular abnormality in heart
- Every Systolic action of heart is indicated by LED and audible (Buzzer) sound controls

Scope of Learning

Study of:

- Tachycardia
- Atrial Fibrillation
- Atrial Flutter
- Premature Atrial Contraction
- Multifocal Atrial Tachycardia
- Paroxysmal Supra Ventricular Tachycardia
- Sick Sinus Syndrome
- Sinus Tachycardia
- Premature Ventricular Contraction
- Accelerated Idioventricular Rhythm
- Ventricular Tachycardia
- Ventricular Fibrillation
- Polymorphic Ventricular Tachycardia
- Atrio-Ventricular Nodal Reentrant Tachycardia
- Wolf Parkinson Syndrome
- Long QT Syndrome
- Junctional Rhythm
- Junctional Tachycardia
- Ist, IInd, and IIIrd Degree AV Block

Technical Specifications

Heart Beat Indication	: Both visible (LED) and Audible (Buzzer) controls
Rotary Switch	: For Selection of desired Arrhythmia wave
Output Wave Amplitude Range	: 1 - 5 Volts
Test Point	: 2 nos.
Product Tutorial	: Online on www.SciencetechLearning.com
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
Included Accessories	: Power Supply, USB Cable (Male to Male) A Type - 1 no.

