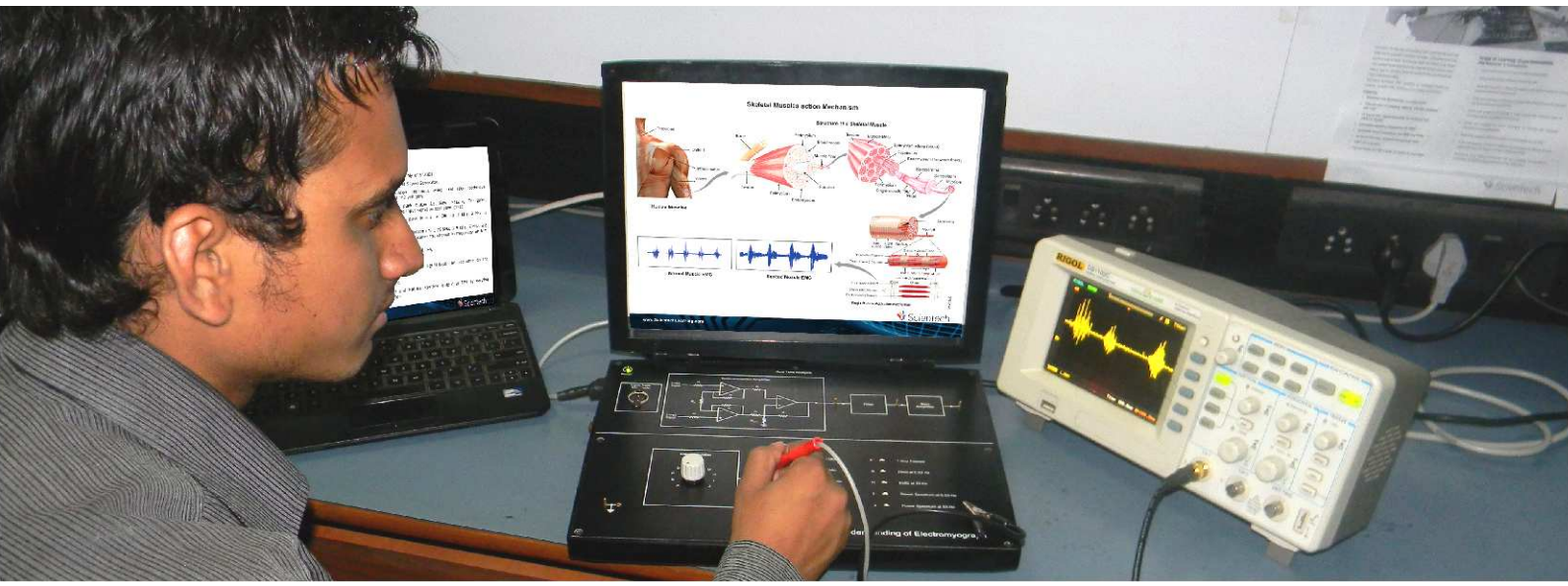
Scientech

Understanding of Electro-myograph

Scientech 2354A

TECHBOOK



The bioelectric potentials associated with muscle activity constitute the Electromyogram, abbreviated as EMG. Understanding of Electro-myograph, Scientech TechBook 2354A provides in-depth study and observation of electric potentials generated by the muscles.

Scientech TechBook 2354A enables EMG signals observation by affixing pre-gelled Ag-AgCl surface electrodes at the surface to the body near a muscle of interest. Thus EMG measurements are intended to obtain an indication of the amount of activity of a group of muscles, rather than of an individual muscle fiber.

Scientech TechBook 2354A also consists of built-in EMG Simulator to generate simulated EMG signals. This Simulator is provided for internal EMG analysis as on the educational level we cannot provide any invasive technique of penetrating needle electrode into the muscle. The Simulator gives the information about the 10 types EMG patterns viz. Normal EMG, Excited EMG, Raw EMG Data, 100Hz Filtered, 250Hz Filtered, 1 KHz filtered, EMG at 0.53Hz, EMG at 53Hz, Power Spectrum at 0.53Hz, Power Spectrum at 53Hz.

Features

- **Separate test-points to observe waveforms after each block**
- **Provides amplified real time EMG output**
- **Inbuilt EMG Simulator**
- **Provides information about 10 simulated EMG outputs**
- **Visible LED indication for all the simulated EMG outputs**

Scope of Learning

- Study of bioelectric potential generated by group of muscles.
- Study of real time analysis of EMG signal (Surface EMG).
- Understanding of different standard EMG wave patterns like,
  Normal EMG
  Excited EMG
  Raw EMG
  Filtered EMG etc.

Technical Specifications

CMRR	:	>100 dB
Filter (Band Pass)	:	1 Hz – 10 KHz
Notch Filter	:	50Hz
Simulated EMG Indication	:	Visible LED
Electrodes	:	Surface Electrodes (Ag-AgCl)
Test Point	:	6 nos.
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	:	Power Supply 3 nos. BTN to 5 Pin DIN Cable, Disposable Electrodes - 50 nos.

Subject to Change

Designed and Manufactured in India by -

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