



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.

Optical Transducers play a very important role in today's industrial and domestic applications. Sciencetech Optical Transducers Techbook is unique in design because it covers study of 4 different Optical Transducers. Experiments covering fundamental characteristics of Transducers & study of Transducer controlled switching systems can be performed with this TechBook. 2301 comes with exhaustive learning material covering theory and experimental procedures for conducting experiments.

### Features

- Easy to operate
- 4 different Optical Transducers
- Study of Transducer controlled switching
- On board signal conditioning circuitry
- Built in DC Power Supply
- Functional blocks indicated on-board mimics
- Online on Product Tutorial

### Scope of Learning

#### Characteristics of

- Filament Lamp
- Photovoltaic Cell
- Photoconductive Cell
- Phototransistor
- PIN Photodiode
- Light Controlled Switching System

## Technical Specifications

**Transducers** : 4 Nos.

- Photoconductive Cell
- Photovoltaic Cell
- Phototransistor
- PIN Photodiode

**Light Source** : Filament Lamp

### Signal Conditioning Circuitry :

- Power Amplifier
- Current Amplifier
- DC Amplifier
- Comparator
- Electronic Switch
- Buffer

**Input Circuits** : Rotary & Slide Potentiometers

**Output Circuits :**

- Relay
- LED

**Interconnections** : 2 mm banana sockets

**Power Consumption** : 2 VA (approximately)

**Product Tutorial** : Online on [www.ScientechLearning.com](http://www.ScientechLearning.com)

**Dimensions (mm)** : W 326 x D 252 x H 52

**Power Supply** : 100V - 240V AC, 50/60Hz

**Weight** : 1.5Kg (approximately)

**Operating Conditions** : 0-40°C, 85% RH

**Included Accessories** :

**Mains cord** : -1 no

**TechBook Power Supply** : -1no.

**Patch cords 16" (2mm)** : -8nos.

**Patch cords 8" (2mm)** : -6nos.