# Digital Circuit Lab Trainer

## Model : SD-904



**SINCOM SD-904 Digital Circuit Lab Trainer** is an outstanding and comprehensive trainer that is highly suitable for the assembly and testing of Digital Electronics circuits on a Bread Board platform. This trainer offers the capability to apply a fixed DC Power supply, along with various features including a TTL/CMOS Logic Inputs generator, TTL/CMOS Logic Output Indicators, a Mono clock Pulse generator, ZIP IC socket, and a variable Clock Signal generator. This Trainer provides a formal and sophisticated solution for the construction and evaluation of a wide range of Digital Electronics circuits.

## Features

❖ Suitable for wide range of TTL / CMOS Digital Electronics Circuits.

❖ Two Bread Boards Platform with 1680 tie points

❖ One 24 pin ZIP IC Socket Platform

❖ Incorporates DC Power supply for TTL/CMOS

❖ Facility to select the TTL/CMOS Digital circuits

❖ Includes 18 TTL/CMOS Logic Inputs Generator switches

❖ Provides 12 Bicolor LEDs for TTL/CMOS logic Output Indicator

❖ Mono Clock Pulse Generator

❖ Variable Clock Signal Generator

❖ Presents a multi-color Circuit Diagram printed on the front panel of the white board

❖ Enclosed in an attractive, light weight, High Quality, Poly Coated Imported Pine Wooden cabinet

❖ Facility to connect external Function Generator and Oscilloscope

❖ Interconnections by 2mm high quality banana sockets and pins.

## Technical Specifications

- AC Mains Power Supply : 230V ±10%, 50Hz
- Regulated Fixed DC Power Supply : +5V,+12V,+15V /1A
- Clock Signal Generator : Variable clock Frequency 1Hz-100KHz in regular steps, Amplitude variable @ 10V, Duty cycle 50%.
- Mono Clock Pulse Generator : 01 Manual
- Digital Logic circuits : TTL & CMOS
- Digital TTL/CMOS Logic Input Generator : 18 by SPDT switches
- Digital TTL/CMOS Logic Output Indicator : 12 Bi Color LEDs
- No. of Bread Boards : 02
- Bread Board Tie Points : 1680
- ZIP IC Socket : One 24 Pin
- Weight : 4.0 kg (approx)
- Dimensions (mm) : L 270 x W 390 x H 130
- Interconnections : 2mm Banana sockets
- Operating Temperature : 0-50$^0$C, 80% RH

## Learning Scope

- To Study the Digital Circuit Lab Trainer for various inputs and outputs.
- To analyze the TTL/CMOS Power supply section.
- To Study the Clock Pulse generator section.
- To investigate the Logic Generator, Indicators and Mono clock pulse generator.
- To proficiently construct the desired Digital circuit on the bread board.
- To thoroughly test the assembled circuit.

## Other Instruments Required : Nil

## Accessories Included : Set of Patch Cord and Details Instruction Manual

Subject to Change