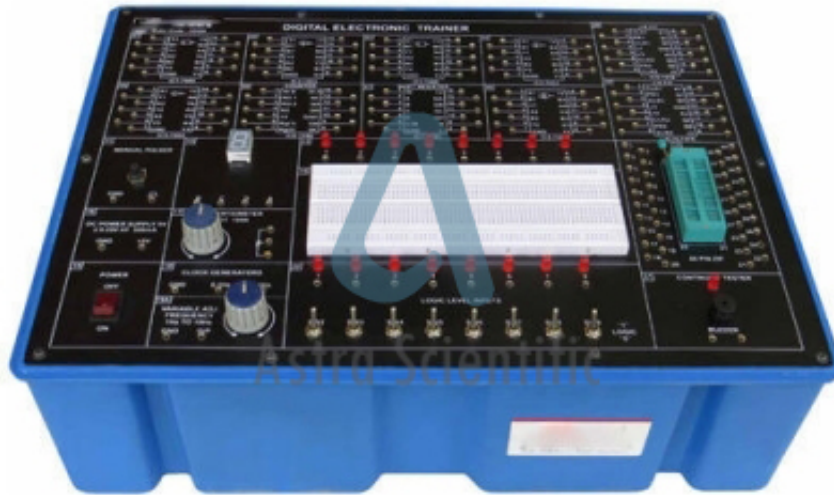


**Product Name :**  
Advanced Digital Logic Lab

**Product Code :**  
CIR-LABAST-005



#### Description :

Advanced Digital Logic Lab, We are manufacturer, supplier, exporter and solution provider in quality Advanced Digital Logic Lab

#### Technical Specification :

Advanced Digital Logic Lab The KL-310 Advanced Digital Logic Lab is designed for students and engineers interested in developing and testing prototypes circuit. The lab is included combinational logic, sequential logic, memory, ADC/DAC..etc. experiment circuits. And offer several application circuits (PWM, Timer, Motor control..etc.).

All necessary equipment for digital logic experiments such as power supply, clock generator, switches, displays are built-in on the main unit. The lab have 10 experiment modules and one CPLD & breadboard experiment module

- Combinational Logic Circuit Experiment
  - Arithmetical Logic & Tri-State & Code Converter Experiment
  - Encoder, Decoder & Multiplexer Logic Circuit Experiment
  - Flip-Flop & Sequential Logic & Counter Circuit Experiment
  - Oscillator, Pulse & Load Up / Down Counter Circuit Experiment
  - Memory, Matrix LED & DAC / ADC & MCU Interface Circuit Experiment
- Digital & Analog Timer, Pulse Generator Circuit Experiment
- Continual Compare / SAC. & Dual-Slop ADC Converter Experiment
- Keyboard & Display for Stepping Motor Position Control

- Precision Digital Clock Timer
- Universal CPLD & Breadboard Experiment. The whole trainer is fully designed by FPGA/CPLD logic circuit.  
Buffer circuits have enhanced protection for each module which is powered by main unit through power socket, avoiding wrong input power source during the experiment.
- Covers different levels of logic circuit experiments, ranging from combinational logic, sequential logic as well as the logic circuit interfacing with microcontroller and practical application circuit for daily use.
- Students can implement their own circuit from universal CPLD & breadboard experiment module, making it possible to prototype most analog and digital circuits in the system.
- Includes various types of ADC & DAC circuits to learn different interfacing circuits between analog and digital signal.
- Built-in 8-channel multiplexer in main unit to measure multiple digital signals in real time.
- Multiple operation modes from 4-digit 7-segment display (a) scanning display mode, (b) individual digit display mode, (c) frequency counter mode for measurement of internal and external clock.
- Individual keep case for all modules for easy storing and carrying



## Astra Scientific

www.astrascientific.com, **Email:** info@astrascientific.com

**Address:** K-88, 20th Street, Annanagar, Chennai, India – 600040 **Phone:** +91-8860605265