IC
INTEGRATED CIRCUITS
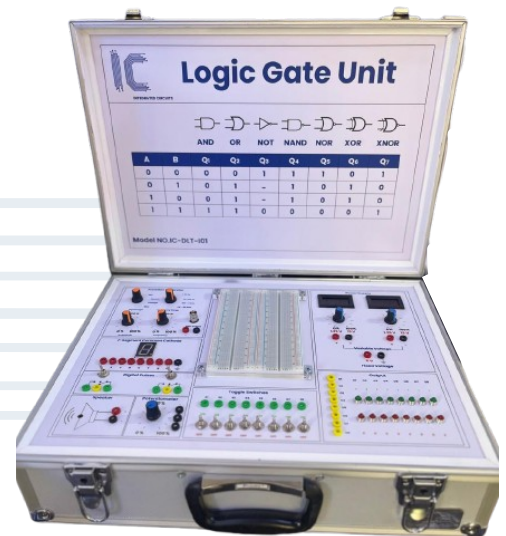### ELECTROINC INDUSTRIES

Logic Design Training kit
IC-DLT-I01

2025

1.Overview

The IC-DLT-I01 is a comprehensive digital and analog training system that provides students with essential hands-on laboratory experience in circuit experimentation, analysis, and troubleshooting.

It is designed to support a wide range of applications, from basic series and parallel circuits to advanced multistage microcomputer circuits.

The trainer is an indispensable tool for both students and experienced designers, offering reliability and versatility for learning, teaching, and research in the rapidly growing field of electronics technology.

IC-DLT-I01

2.Specification

- Suitable for analog and digital circuits.
- At least 8 high & low buffered logic indicators.
- At least 8 selectable logic switches.
- Function generator with continuously variable sine, square, and triangle waveforms, plus TTL pulses.
- Triple-output power supply:
- Fixed +5 VDC supply
    - Two variable outputs: ±1.3 to ±15 VDC
    - Two digital pulsers for signal input.
- Audio experimentation speaker.
- Movable breadboard plate (additional plates available).

3.Experiments to be done

1. Logic Gates: AND, OR, NOT, NOR, NAND, XOR
2. Full Adder
3. Comparator
4. Decoder + BCD to Decimal Decoder
5. LED Display
6. Encoder
7. Multiplexer & Demultiplexer
8. J-K Flip-Flops
9. Counters: Binary Counter & Up/Down Counter