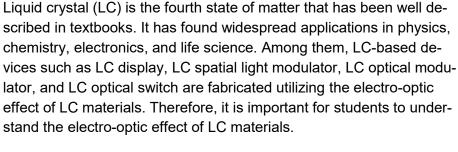


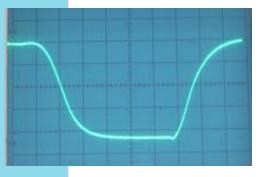
Construct, Conduct & Comprehend Physics Experiments

LEOI-35 Experimental System for Liquid-Crystal Electro-Optic Effect

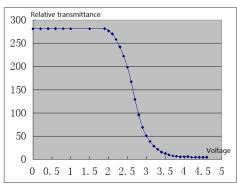


- Compact structure
- Ample experimental contents
- Affordable





Observed response curve on oscilloscope



Transmittance vs. applied voltage



Experimental Contents

- 1. Understand the basic principle of LC display (TN-LCD).
- 2. Measure the response curve of LC sample.
- 3. Calculate parameters such as threshold voltage (Vt) and saturation voltage (Vs).
- 4. Measure the transmittance of LC switch.
- 5. Observe transmittance change versus viewing angle.

Specifications

Semiconductor Laser	0~3 mW, adjustable
Polarizer/Analyzer	360° rotation, division 1°
LC Plate	TN-type, area 35mm × 80mm, 360° horizontal rotation, division 20°
LC Driving Voltage	0 ~ 11 V, 60-120Hz
Voltmeter	3-1/2 digit, 10 mV
Photodetector	high speed
Current meter	3-1/2 digit, 10 μA

Part List

Electric control unit	1
Diode laser	1
Photo receiver	1
LC plate	1
Polarizer	2
Optical bench	1
BNC cable	2

Note: above product information is subject to change without notice.

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