



**OMEGA TYPE ES-447** Experimental Set Up has been designed specifically to find the polarization angle of laser light using polarizer and analyzer by Malus Law

The set-up is absolutely self-contained and requires no other apparatus.

Practical experience on this set up carries great educative value for Science and Engineering Students.

**OBJECT:- To find the polarization angle of laser light using polarizer and analyzer by Malus Law**

**FEATURES:-**

- 01 Optical Bench Two 100 cm long steel rods 3/4" dia. forming a bench with end supports having leveling screws. One of the two steel rods is graduated in cm and mm. It has five riders, three with transverse motion. Complete with one lens holder.
- 02 Diode Laser with Power Supply.  
Maximum output : 0.5mW  
Wave length : 670 nm visible red  
Power supply : Included with ON/OFF switch working on 230V mains.
- 03 Double convex lens (50mm dia & F.L.10cm).
- 04 Polarizer and Analyzer fitted at the ends of a tube. Both are capable of rotation about a common axis. The rotation can be read on a graduated circular scale 360° provided with each of them.
- 05 Photo voltaic cell house in colorimeter.
- 06 Micro ammeter having 0 – 50uA range.
- 07 Weight: 10 kg (Approx.)
- 08 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

**OMEGA ELECTRONICS**

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