



**OMEGA TYPE ES-268** Experimental Set-Up has been designed specifically to verify the Malus law (cosine square law) for plane polarised light with help of a photo voltaic cell. The set-up consists of a Optical Bench Photo voltaic cell, Halogen lamp, Convex lens, Microammeter, Polariser and Analyzer etc.

The set-up is complete in all respect and requires no other apparatus.

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

#### OBJECT

01 To verify the Malus law (Cosine square law) for plane polarised light with the help of a photo voltaic cell.

#### FEATURES

The complete Experimental Set-up consists of the following :

##### 01. OPTICAL BENCH :

Two 100 cm long steel rods 1/2" dia. forming a bench with end supports having levelling 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 Halogen Lamp with house.

03 Double convex lens (50mm dia & F.L.10cm).

04 Polariser 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 Microammeter having 0 – 50uA range.

07 Weight : 7.2 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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