

**FRESNEL'S FORMULA FOR THE REFLECTION OF LIGHT BY SPECTROMETER**  
OMEGA TYPE ES-270



**OMEGA TYPE ES-270** Experimental Set-Up has been designed specifically to verify Fresnel's formula for the reflection of light. The set-up consists of Spectrometer, Sodium light source, Prism, A Pair of Polaroids, Reading lens 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**

To verify Fresnel's formula for the reflection of light by Spectrometer.

**FEATURES**

The complete Experimental Set-up consists of the followings :

**01. SPECTROMETER STANDARD :**

6" dia circle reading 30 seconds. The objectives used in telescope and collimator are achromatic and provided with rack and pinion focussing arrangement. Telescope arm and prism table are provided with fine and coarse adjustment. The prism table is provided with three leveling screws and is engraved with concentric rings & lines. The scales and verniers are of stainless steel and are machine divided. Clamping devices are also provided to lock telescope and collimator after adjustment with prism clamping device and diffraction grating stand.

**02 SODIUM LIGHT SOURCE:** Sodium light source complete with sodium lamp 35 watt with vacuum jacket, Transformer & Wooden Box having four holes with slide covers one each on every side at different heights.

**03 A PAIR OF POLAROIDs :** Mounted on a graduated circular scale 360°, can be mounted on collimator and telescope by the help of three screws. Placed in velvet lined case.

**04 PRISM :** Optically worked with two faces polished equilateral size 38mm x 38mm.

**05 READING LENS :** 40/50 mm diameter with handle.

**06 SPIRIT LEVEL :** 60/80 mm length

**07 Weight :** 14.2 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**