



55870 Experimental Set-Up has been designed specifically for the determination of the lines per cm in the given grating using the mean wave length of sodium light is  $5893 \times 10^{-10}$  m. 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 Determination of the number of lines per cm in the given grating using the mean wavelength of sodium light is  $5893 \times 10^{-10}$  m.

#### FEATURES

The Complete Experimental Set-up consists of following items. :

- 01 Spectrometer standard :  
6" dia circle reading 30 seconds. The objectives used in telescope and collimator are achromatic and provided with rack and pinion focusing 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 Diffraction grating : Hilger & Watts Type, 15000 line per inch/6000 lines per cm.
- 03 Sodium light source : Sodium light source complete with sodium lamp 35 watts with vacuum jacket, Transformer & Wooden Box having four holes with slide covers, one each on every side at different heights.
- 04 Reading lens : 40/50mm diameter with handle.
- 05 Spirit Level : 60/80mm length.
- 06 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

Note: Specifications are subject to change.

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