

# PRECISION SPECTROMETER

## Model SV 65

### SPECTROMETER STANDARD 176 mm: Model SV 65 College grade

**BASE** is sturdy machined casting fitted with Levelling Screws & carries with fixed collimator arm and a swinging Telescope arm.

**TELESCOPE & COLLIMATOR** tubes are carried in sturdy machined pillars, which are accurately adjusted to make the axis of the telescope & collimator pass through the axis of the instrument. The axis can be adjusted with the help of adjusting pin.

**ADJUSTMENTS** to the collimator & telescope tubes are provided for setting their optical axis at right angles to the vertical axis of the spectrometer. Both the Telescope & Collimator tubes are fitted with smooth rack & pinion adjustment.

**SLIT** of the collimator is from brass and the slit jaws are finished and ground with the utmost care and optically tested for accuracy of the edges. The two jaws are operated by knurled ring and move symmetrically from the center and remain parallel at all openings. A sliding Shutter is provided to increase or decrease the length of the slit.

**PRISM TABLE** with grating holder is provided with three levelling screws and is engraved with concentric lines to facilitate correct location of the prism. It may be raised or lowered & rotated independently of the verniers.

**SCALE** is machine-divided in  $1/2$  degrees or  $1/3$  degrees on a lifetime brass circle. A cover plate is provided to prevent from wear and tear and to protect the scale from dust. The scale circle is provided with slow & quick tangential movements being fixed to the telescope arm. Accuracy of calibrations  $\pm .001\%$ . Two verniers are provided reading to 1 minute of the Arc (or 30 seconds if so specified).

**HIGH QUALITY** Achromatic optics are used. The objectives are 1" clear aperture with 10x RAMSDEN Eyepiece fitted with cross line glass graticule.

**FINISH & PACKING** Latest polychromatic grey and black contrast with hard instrumental chromium plated parts, housed in thick beautiful storing cabinet with sun-mica front.



Round Slit

### SPECTROMETER DELUX 15 CM: Model ASI-65 Senior College grade

General specifications same as in Model ASI-63 but provided with clamping and tangent screws for coarse and fine movement of telescope and prism table, improved design for quick and better performance.

**SPECTROMETER DELUX 17.5 CM: Model ASI-67 senior college grade**, same as Model ASI-65 provided with protected circle 17.5 cm fitted on large base.

**SPECTROMETER DELUXE** with improved round slit for better performance, as optional at extra cost.