

PRECISION SPECTROMETER

Model SV 175

SPECTROMETER STANDARD 175 mm: Model SV 175 College grade

BASE is sturdy machined casting fitted with Leveling Screws a 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 a 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 a Collimator tubes are fitted with smooth rack a 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 centre 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 Vernier's.

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 a quick tangential movements being fixed to the telescope arm. Accuracy of calibrations $\pm .001\%$. Two Vernier's 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 poly chromatic grey and black contrast with hard instrumental chromium plated parts, housed in thick beautiful storing cabinet with sun mica front.



SPECTROMETER DELUX 17.5 CM: Model SV-175 senior college grade

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.