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Constant Deviation Spectrometer

Product Image



Description

(a) Collimating Tube : (Material : Brass Pipe) O.D.: 50mm I.D. : 44mm for fitting collimating lens

It is provided with rack & pinion arrangement and slit. Slit is of circular type. The jaws of the slit are optically ground. It is provided with Holfmann's Diaphragm.

(b) Telescope Tube : (Material : Brass Pipe) O.D. : 50mm, I.D. : 44mm for fitting telescope lens

It is provided with rack & pinion arrangement for proper focussing of spectral lines.

Eyepiece ; (Ramsden Type) : magnification : 10x

In eyepiece holder a conical pointer is fitted in the focal plane of eyepiece.

(c) Corrected achromatic doublet are fitted in the lens holders of collimator and telescope tube.

Doublet dia : 44mm, F.L. : 350mm (14").

The Collimator and telescope tubes are fitted in cast iron blocks which are mounted on a machined cast iron blocks which in turn are mounted on a machined cast iron plate.

(d) Suitable gap is provided between collimating lens and prism table to accommodate high resolving instrument like Fabry-Perot Etalon(to be asked extra).

(e) Prism Table is fitted on the machined cast iron plate and actuated by tangent screw to provide smooth rotation of the C.D.S. prism placed on it.

(f) Prism table is covered with a box of a aluminium casting having two gates. One gate allows light coming from collimator to enter into C.D.S. Prism. Another gate allows light to be collected by telescopic objective after light being dispersed from C.D.S. prism.

(g) A calibrated drum (Calibration for visible region i.e. from 4000\AA - 7000\AA) is attached with the prism table assembly. Accuracy of calibration $\pm 5\text{\AA}$.

(h) Machined cast iron plate with drum assembly is fitted over the head of a heavy cast iron base. The base and machined cast iron plate, Collimator, Telescope, Prism table, Drum assembly are painted black.

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Catalog No. 101009

Disclaimer

The Products details given on this page are indicative in nature and JAPSON reserves the right to change them without prior notice. Buyer is also requested to re-check the specifications and other features of product at the time of order as product development is a continuous process and minor modifications may be made to design based on latest availability, process and design.