

**STUDY DEMONSTRATIONS OF
INTERFERENCE AND DIFFRACTION
PHENOMENA USING He-Ne LASER
(SINGLE AND DOUBLE SLIT)
OMEGA TYPE ES-422**



OMEGA TYPE ES-422 Experiment set-up has designed specifically for Demonstrations of Interference and Diffraction Phenomena Using Laser (Study of Young's Double Slit)
The Setup is absolutely self-contained and requires no other apparatus.
Practical experience on this set up carries great educative value for Science and Engineering Students.

OBJECT:- To study the diffraction pattern

- 01 Determine the slit width (Single Slit)
- 02 To Study Demonstrations of Interference and Diffraction Phenomena Using He-Ne Laser.
(Study of Young's Double Slit)

FEATURES

- 01 He-Ne LASER WITH POWER SUPPLY
MAXIMUM OUTPUT : 2mW
WAVE LENGTH : About 670 nm visible red
POWER SUPPLY : Included with ON/OFF switch working on 230V mains supply.
SQUARE STAND : Two with U type Bracket
- 02 DOUBLE SLIT : Size 75 x 75mm with two slit (width = 0.5mm, gap = 1mm, height 30mm) with Square Stand.
- 03 SCREEN : 260mm x 140mm with graph paper with Square stand
- 04 DOUBLE CONVEX LENS : 50mm dia of Focal length 10cm with Square Stand and lance holder
- 05 OPTICAL SLIT : Optically true, precision ground stainless steel jaws. The jaws open uniformly all along through the milled head with Square Stand.
- 06 INCH TAPE : 5 meter
08. WEIGHT : 10.3 Kg. (Approx.)
10. 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.

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