



**OMEGA TYPE ES-453.2** Experimental Set-Up has been designed specifically to determine the wavelength of laser source using Michelson's interferometer.

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.** To determine the wavelength of laser source using Michelson's interferometer

## **FEATURES**

**The complete Experimental Set-up consists of the followings:**

**01. MICHELSON INTERFEROMETER:** This Model is mounted on a heavy iron base. It is most suitable for Educational Institution. Various Components are made from high precision machines, mounted on the aluminum base and the complete interferometer in mounted on a heavy cast iron base.

It consists of beam splitter and compensator Plates mounted in an aluminum housing. it is fitted on the aluminum base at 45 degree to two reflecting mirrors. All flat optics used has flatness of at least 1/4 and are protected with a layer of silicon Monoxide coating.

Least Count 0.01mm. It also consist of reading telescope of magnification 3x, fitted with Ramsden Eyepiece & cross line graticule. 20x objectives with mount is also supplied with interferometer (in case of work with He-Ne Laser of Diode Laser)

**02. DIODE LASER WITH POWER SUPPLY.**

**MAXIMUM OUTPUT :** 0.5 mW

Wave length : 670 nm visible red

Power supply : Included with ON/OFF switch working on 230VAC.

**03** Weight : 8 Kg. (Approx.)

**04** 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.

**OMEGA ELECTRONICS**