

LASER BEAM CHARACTERISTICS KIT

This kit has the provision of studying some important laser characteristics such as monochromaticity, divergence, intensity, beam diameter, polarisation, spatial coherence, temporal coherence etc. The list of 8 experiments and items is given below.

List of Experiments :

1. To test the monochromaticity of laser light.
2. To measure the divergence of Laser beam by the size of Laser spots.
3. To measure the divergence of Laser beam by a Lens.
4. To measure the beam diameter.
5. To study the polarisation characteristics of Laser beam.
6. To study the intensity distribution of Laser beam.
7. To demonstrate spatial coherence of Laser by a double slit.
8. To demonstrate temporal coherence by a Michelson Interferometer.

List of Items :

1.	Precision Mounts	6 Nos.	9.	Digital meter	1 No.
2.	Base for the mounts	6 Nos.	10.	Polariser & Analyser	2 Nos.
3.	Circular Table	1 No.	11.	Double Slit	1 No.
4.	Screen	1 No.	12.	Beam Expander	1 No.
5.	Measuring Tape	1 No.	13.	Total Reflectors	2 Nos.
6.	Convex lens	1 No.	14.	Beam Splitter	1 No.
7.	Pin hole	1 No.	15.	Graph Paper	1 No.
8.	Detector	1 No.	16.	Instruction Manual	1 No.