



Order Code : 20213547.4.3

Name : Geometric optics experiment apparatus



### Specifications:

#### Features

- ▶ Easy operation
- ▶ 9 experiment examples
- ▶ Complete solution
- ▶ Detailed instructional manual

### Introduction

This kit provides a complete set of optical and mechanical components as well as light sources, which can be conveniently assembled into setups to conduct experiments in geometrical optics. The instructional manual contains comprehensive materials including experimental setups, principles, procedures and required parts.

Through selecting and assembling the corresponding components into setups, students can enhance their experimental skills and problem solving ability.

Using this kit, the following experiments can be conducted:

1. Measurement of the focal length of a convex lens based on self-collimation
2. Measurement of the focal length of a convex lens based on Bessel method
3. Measurement of the focal length of a convex lens based on lens imaging equation
4. Measurement of the focal length of a concave lens
5. Measurement of the focal length of an eyepiece
6. Measurement of the nodal locations and the focal length of a lens-group
7. Measurement of the magnification of a microscope
8. Measurement of the magnification of a telescope
9. Construction of a slide projector

*Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.*

### **TESCA TECHNOLOGIES PVT. LTD.**

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Description	Specs/Part No.	Qty
Optical rail	1 m; aluminum	1
Carrier	General	2
Carrier	X-translation	2
Carrier	X-Z translation	1
Bromine-Tungsten lamp	LLC-3 (12 V/30 W, variable)	1 set
Two-axis mirror holder	SZ-07	1
Lens holder	SZ-08	2
Adaptor piece	SZ-09	1
Lens group holder	SZ-28	1
Direct reading microscope		1
Eyepiece holder	SZ-36	1
Plate holder	SZ-12	1
White screen	SZ-13	1
Object screen	SZ-14	1
Standing ruler	SZ-33	1
Reticle	1/10 mm	1
Millimeter	30 mm	1
Biprism holder	SZ-41	1
Lenses	f = 45, 50, 100, -60, 150, 190 mm	1 each
Plane mirror	dia 36 × 4 mm	1
45° glass holder	SZ-45	1
Eyepiece (doublet lens)	f = 34 mm	1
Slide show		1
Small illumination lamp		1
Magnetic base	with holder	2

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