



SPECIFICATION

The laboratory set «Optics and Quantum Physics» is intended for use in general secondary and higher educational establishments, laboratories and physics offices, for teacher and students during performing a demonstration experiment on a physical practice in the study of sections of optics and quantum physics in accordance with current curriculum Ministry of Education and Science of Ukraine on Physics.

It allows to acquaint students with the basic provisions of optical and quantum theory, checking the laws of reflection of light, studying the laws of reflection and refraction of light, studying the foundations of photometry, studying the phenomenon of polarization of light, and so on. It develops experimental and researching student skills.

This set is used in following laboratory work:

01. Investigation of light reflection using a flat mirror
02. Construction an image of an object in a flat mirror
03. Investigation of light refraction
04. Determination of refractive index of glass
05. Determination of the focal length and optical force of a thin lens
06. Obtaining an image using a lens
07. Focal length determination of a thin lens using a lens formula
08. Lens formula experimental study
09. Investigate the image size of the objects that the lens gives
10. Determination of the focal length and optical power of the dispersing lens
11. Interference observation and light diffraction
12. Observation of diffraction on a round hole
13. Dispersion phenomenon investigation
14. Determination of the light wave length
15. Modeling of the visual tube and the microscope
16. Investigation of the phenomenon of complete internal light reflection

FEATURES

- Pin 4 pc.
- Luminary 2 pc.
- Mirror 1 pc.
- Screen 1 pc.
- Rug 1 pc.
- Long-focus lens collector 1 pc.
- Short-focus lens collector 1 pc.
- Optical lava 1 pc.
- Stand 1 pc.
- Prism 1 pc.
- Slide frame 2 pc.
- Connecting wire 2 pc.
- Frame with diffraction gratings 1 pc.
- Scattering lens 1 pc.
- Kit for studying light polarization 1 pc.
- Power supply 1 pc.
- Laboratory works description 1 pc.
- Storage box with bed (cradle) 1 pc.

Note: Specifications are subject to change.

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