

DEMO advanced physics set: Diffraction and interference on the profile bench

Article no: 15565-88



Function and Applications

This demo set contains the following 7 teacher experiments on diffraction and interference on the profile bench:

- Diffraction at edge, gap, double slit, grid and pinhole
- Malus law
- Michelson interferometer
- Wavelength dependence of diffraction phenomena

Benefits

- All relevant DEMO experiments on geometric optics in one set
- two diode lasers of different wavelengths (532 nm and 635 nm)
- Stable optical bench
- Easy construction
- convenient placement of all components in a sturdy aluminum case
- Foam insert for quick inspection for completeness

Scope of delivery

Optical profile-bench, l = 1000 mm	08370-00	1
Slide mount for optical bench	09822-00	3
Plate mount for three objects	09830-00	1
Diaphragm, 3 single slits	08522-00	1
Screen, metal, 300 x 300 mm	08062-00	1
Barrel base expert	02004-00	1
Measuring tape, l = 2 m	09936-00	1
Diaphragm, 4 double slits	08523-00	1
Diaphragm, 4 multiple slits	08526-00	1
Diffraction grating, 10 lines/mm	08540-00	1
Mount with scale on slide mount	09823-00	1
Lens on slide mount, f = -50mm	09820-06	1
Lens on slide mount, f = +50mm	09820-01	1
Screen, with diffracting elements	08577-02	1
Vernier calliper stainless steel 0-157mm, 1/20	03010-00	1
Diaphragm with single slit, bar and edge	08521-00	1
Diode pumped solid state laser, green, 1 mW, 532 nm	08764-99	1
Diodelaser, red, 1 mW, 635 nm	08761-99	1
Michelson interferometer	08557-00	1
Diaphragm holder, attachable	11604-09	1
Post, L 50 mm, D 12 mm	08750-04	1
Setscrew for optics	08750-13	1

Recommended accessories

Moveable experimental table 90 x 75 cm, 30 mm table top with PP edge, with shelf for 3 boxes and socket board	15500-00
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