



## Long linear optical bench, discrete light diffraction

EQ262F

### Function

Intended for experimental study, physics laboratory and carrying out physics experiments on: Modern physics. Wave. Light and optics. Diffraction of light through holes and slits. Diffraction and Huygens principle. The central point and the central maximum. The regions of constructive interference. The behavior of light when passing through a hole. The behavior of light when passing through three pairs of double slits. The behavior of light as it passes through three consecutive sets of slits. Using a hole of known diameter to determine the wavelength of the laser. The diffraction angle. The Bessel function and the equation for finding the laser wavelength. Diffraction of laser light by diffraction grating, grating constant  $1.00 \times 10^{-6}$  m. What does Huygens principle say? Diffraction and Huygens principle. Diffraction of light from a laser with a diffraction grating of grating constant  $8.33 \times 10^{-5}$  m, etc.

### Knowledge areas

Physics

### Key Experiments

Diffraction of light through holes and cracks

Diffraction of laser by grating, lattice constant  $1.00 \times 10^{-6}$  m

Diffraction of light by grating with lattice constant  $8.33 \times 10^{-5}$  m

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