

2.2.01-00 Interference of light



What you can learn about ...

- Wavelength
- Phase
- Fresnel biprism
- Fresnel mirror
- Virtual light source

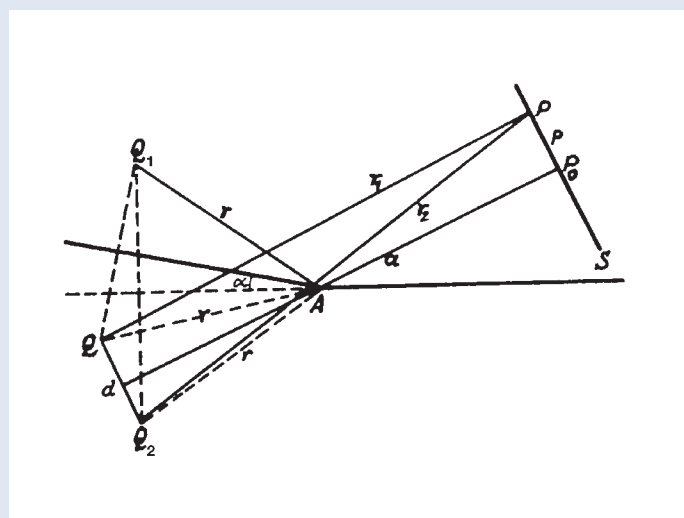
Principle:

By dividing up the wave-front of a beam of light at the Fresnel mirror and the Fresnel biprism, interference is produced. The wavelength is determined from the interference patterns.

What you need:

Fresnel biprisms	08556.00	1
Prism table with holder	08254.00	1
Fresnel mirror	08560.00	1
Lens, mounted, $f = +20$ mm	08018.01	1
Lens, mounted, $f = +300$ mm, achromatic	08025.01	1
Lens holder	08012.00	2
Swinging arm	08256.00	1
Slide mount for optical profil bench, $h = 30$ mm	08286.01	2
Slide mount for optical profil bench, $h = 80$ mm	08286.02	2
Optical profile bench, $l = 1000$ mm	08282.00	1
Base for optical profile bench, adjustable	08284.00	2
Laser, He-Ne 1.0 mW, 230 VAC	08181.93	1
Measuring tape, $l = 2$ m	09936.00	1

Complete Equipment Set, Manual on CD-ROM included
Interference of light P2220100



Geometrical arrangement, using the Fresnel mirror.

Tasks:

Determination of the wavelength of light by interference

1. with Fresnel mirror,
2. with Fresnel biprism.