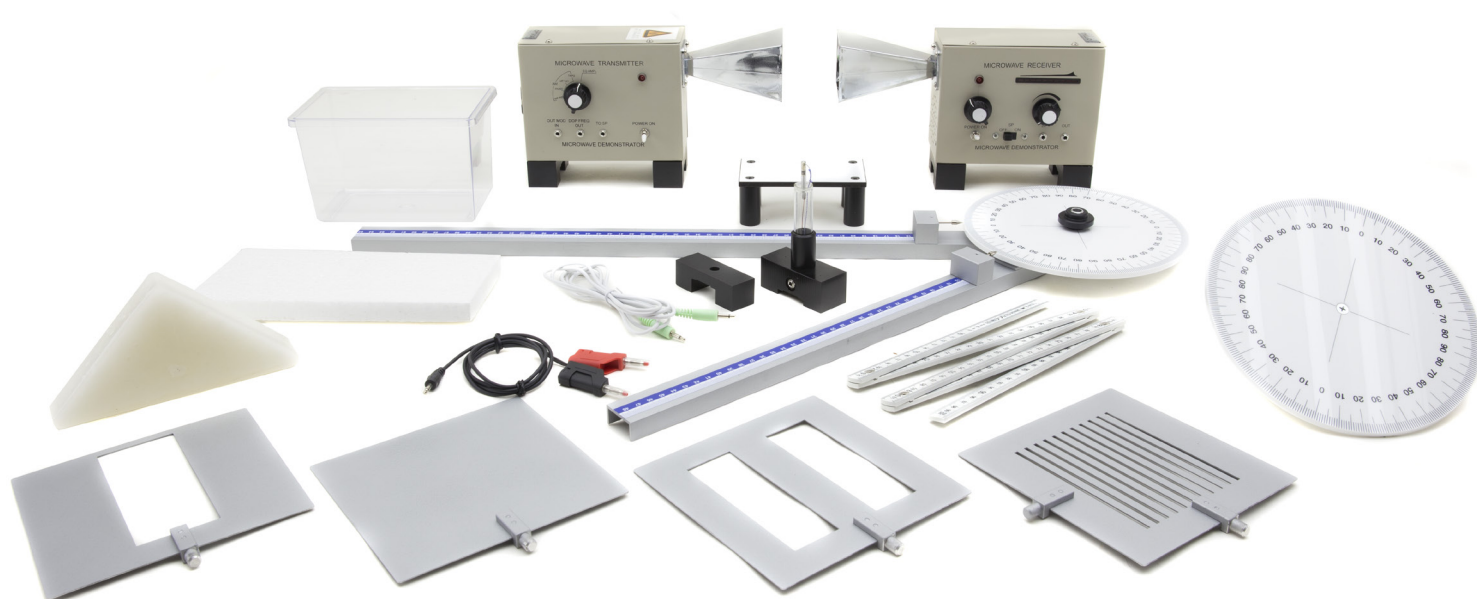


## **MICROWAVE OPTICS KIT**

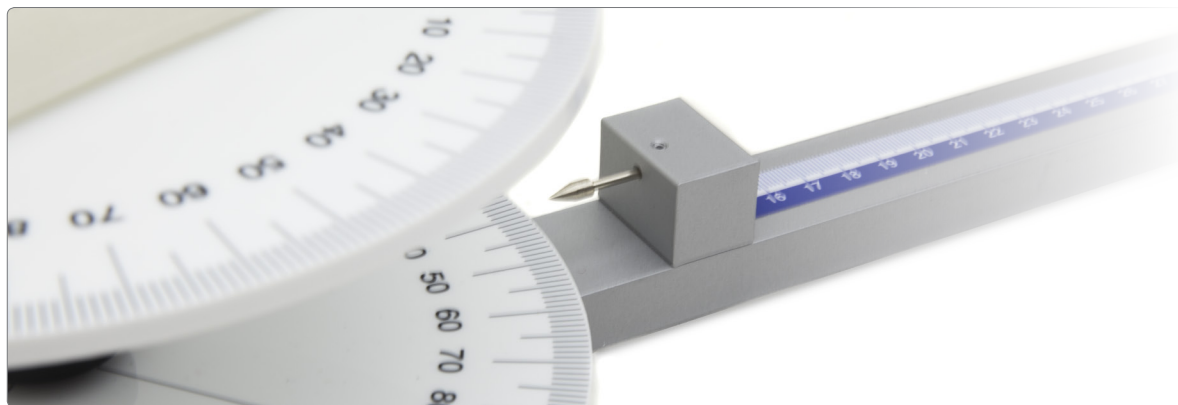
5263

## Microwave optics kit



All the components shown in the picture are included

This microwaves set includes one transmitter, one receiver, one dipole probe and some accessories. It is useful to study several experiments on microwaves: it allows students to observe that microwaves have the same characteristics of light waves and they result in the same phenomena as reflection, refraction and diffraction.



**Transmitter**

Frequency of oscillator:  $11 \pm 1$  GHz  
 Transmitted power:  $> 10$  mW  
 Acoustic signal:  
 -1 KHz  
 -on/off  
 -music  
 Dimensions: 270x100x150 mm  
 Mains voltage: 220V 50Hz

**Receiver**

Gain:  $\geq 60$  dB  
 Input for dipole probe  
 Voltage output: -1,11V  
 Dimensions: 270x100x150 mm  
 Mains voltage: 220V 50Hz  
 Sensitivity & gain control

**Microwave probe**

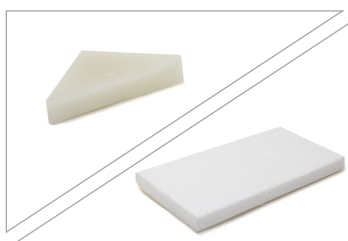
1 Dipole antenna with wire

**Jointed bench**

Microwave aluminium bench, two arms:  
 500 mm and 650 mm long.  
 Provided with plate holder and protractor.

**Paraffin prism**

Useful to practice experiments  
 on wave refraction.

**Polystyrene body**

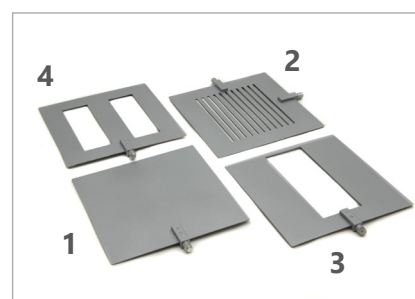
Useful to practice experiments  
 on wave absorption.

**Protractor**

With an accuracy of  $1^\circ$ , the  
 graduated scale is screen-  
 printed on a polycarbonate  
 plate for a simple and quick  
 measurement reading.

**Set of 4 plates**

Dimension: 155x155 mm.  
 1. Reflection plate.  
 2. Polarization grating,  
 11 slits.  
 3. Slit plate, slit 50 mm.  
 4. Double slits plate,  
 single slit 35 mm.

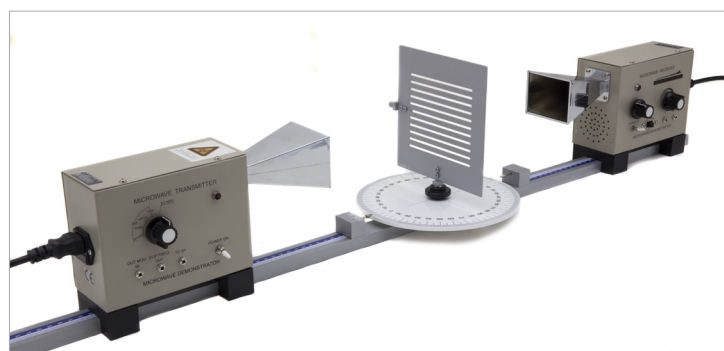
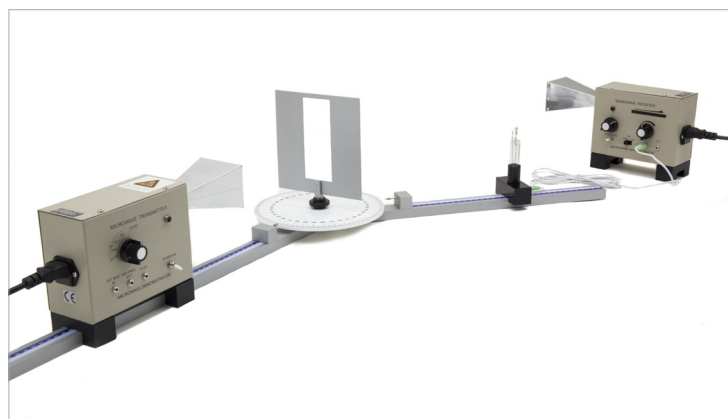
**Water tank**

Useful to practice experiments  
 on wave absorption.

**PRATICABLE EXPERIMENTS**

Some experiments that can be carried out:

- Polarization
- Diffraction
- Refraction
- Determining wavelength of standing waves
- Reflection
- Absorption
- Straight-line propagation of microwaves



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