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Product Name :

Microwave Transmitter/Receiver

Product Code :

SLE/PHY/132



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Description :

Microwave Transmitter/Receiver (Product Code: SLE/PHY/132) is an apparatus for investigating transverse waves with microwaves, used to demonstrate reflection, refraction, polarisation and interference in school and college physics laboratories. The transmitter sends a plane polarised wave, modulated with a 1KHz tone, music or no modulation, while the receiver has gain control, a 30-bar signal-strength display and a built-in loudspeaker. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Purpose	Investigation of transverse waves, at a convenient wavelength
Transmitter	Plane polarised wave, internally modulated with a 1KHz tone, or music, or no modulation
Auxiliary input	For external simple tones to transmit through microwaves
Receiver gain	Built-in gain control
Signal display	30 bar graphs indicating signal strength
Receiver outputs	External outputs to data-loggers and external meters
Loudspeaker	Built into the receiver, with on/off control
Probe detector	For non-directional reception of the microwaves
Documentation	Detailed instruction booklet illustrating microwave experiments on reflection, refraction, polarisation, interference and more
Product code	SLE/PHY/132
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Microwave Transmitter/Receiver Used For?

Microwaves behave like light but on a scale that fits comfortably on a laboratory bench, so wave effects that are hard to see with light become easy to measure. With this transmitter and receiver, students reflect the beam off metal plates, refract it through a prism, show polarisation by rotating the receiver or inserting a grille, and locate interference maxima and minima.

The receiver's loudspeaker turns signal strength into sound that a class can hear rising and falling as the receiver moves, and the probe detector maps standing waves regardless of direction. Outputs for data-loggers and external meters let older students record readings, and the auxiliary input shows how microwaves can carry an audio signal. The instruction booklet sets out each experiment for the teacher.

Supplier

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