

Order Code : 20213547.3.6

Name :Transmission and reception of electromagnetic waves apparatus.



### Specifications:

This experimental apparatus of transmission and reception of electromagnetic waves is designed for teaching electromagnetic oscillation and wave in general physics. It is useful for demonstrating the transmission, reception, modulation, electric resonance, tuning as well as the characteristics of electromagnetic waves. It is an affordable teaching apparatus for physics laboratories in colleges and universities.

### Experimental Contents

1. Transmission of electromagnetic waves.
2. Reception of electromagnetic waves.
3. Transmitting efficiency of transmitting antenna.
4. Demonstration of resonance and tuning.
5. Demonstration of amplitude modulation, demodulation, and detection.

### Parts & Specifications

High frequency generator	Operating frequency: approximately 230 MHz Output power: approximately 2 W Signal of internal modulation: 1 kHz, off-on, music Signal of external modulation: $\geq 1$ Vpp, input resistance 1 k $\Omega$
Receiver I	Indicating lamp: 1.5 V, 100 mA Receiving distance: $\geq 0.5$ m
Receiver II	Sensitivity of meter: 100 $\mu$ A Receiving distance: $\geq 3$ m
Receiver III	Speaker: 8 $\Omega$ , 0.1 W Indicator: five Receiving distance: $\geq 8$ m Power supply: DC 6 V

*Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.*

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