

Product Name :
Transmission lines and Antennas trainer

Product Code :
ANTT1005



Description :

Transmission lines and Antennas trainer -

Sets of antennas: Dipoles:

$\lambda/2$, λ , $3\lambda/2$, and monopole: $\lambda/4$, folded dipole, Yagi-Uda, loop antennas: square and circular, open waveguide, open transmission line, horns (assorted), and aperture antennas: serial, parallel, array, helical antennas, microstrip antennas, patch, dielectric, parabolic antennas. Transmitter: RF generator: frequency of operation for antenna sizes usable in class rooms (max $\lambda/2 = 15\text{cm}$), Power: adjustable low power operation for use in class rooms.

Receiver: with a rotating antenna positioning system (in the azimuth and elevation). Software and hardware for: data acquisition and antenna positioning/rotation, monitoring of transmitted and received power, display of antenna parameters in H-plane and E-plane, algorithm for calculating antenna characteristics (beam width, power gain), possibility of bandwidth calculation, displaying animations.

Interfaces:

GPIO (IEEE 1488.2), USB 2.0 (or higher) or Ethernet

Software

compatibility with windows 7.

Power

Supply: 240V, 50-Hz, power cable with 3-pin plug (BS 1363).

Accessories:

Any special power supplies, cabling or other essential components should also be provided.

Detailed

training/experiment manuals (for the instructors and the students) in English.

The system should also provide for fault insertion and test points. The connectors/system should have protection against incorrect insertion

Technical Specification :

Transmission lines and Antennas trainer

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