

OMEGA TYPE AT-1003 PC Based Manual Antenna Trainer has been designed to provide useful tools for hands on experimentation and teaching of various commonly used antennas in UHF-Microwave band in the laboratory for students of all levels. It can be used in stand-alone mode. In this system, receiving antenna is rotated manually from 0 to 360 degrees and accordingly the signal strength can be monitored on the Receiver. It comes with a Polar plotting software for storing readings manually

The system consists of a set of two tripods one for mounting the transmitting antenna and another for mounting the receiving antenna, 11 Antennas, RF Transmitter/ Receiver, Antenna Plotting Software and relevant accessories/ cables.

RF Transmitter:

Frequency : 600-750 MHz continuously variable
 Output Impedance : 75 Ohms
 RF Level : 100 dBuV Typical
 Power Supply : 230V @ 50 Hz

RF Receiver:

Frequency : 610 MHz Helical band Pass Filter
 Bandwidth : 5 Mhz
 Input Impedance : 75 Ohms
 Measurement : RF level in dBuV with 0.1dB resolution
 Display : 3 1/2 LCD
 Dynamic Range : 50 dB Log
 Power Supply : 230V @ 50 Hz



Experiments:

- Variation of field strength with distance
- Plot radiation pattern of omni directional antenna
- Plot radiation pattern of directional antenna
- Polarization of vertical and horizontal antenna
- Study resonant and non resonant antenna
- Demonstrate reciprocity theorem of antennas
- Study current distribution along the element of antenna
- Study different antennas polar plots, radiation patterns, gain, beam width, front back ratio
- Comparison of different antennas

Shipping List AT-1003:

Antennas	
1) Dipole L/2	a) RF Transmitter & Receiver + 2 Tripod
2) Dipole L/4	b) 25 Antenna Elements
3) Dipole 3L/2	c) Antenna Fabrication Kit + Copper Wire Roll
4) Folded Dipole	d) Sniffer Probe
5) Yagi Uda (3E)	e) 3 meter Measuring Tape
6) Yagi Uda (4E)	f) Polarization Connector - 2
7) Ground Plane with Reflector & Director	g) BNC BNC Cable
8) Endfire	h) Experimental Manual
9) Square Loop	i) Installation Video Demo CD
10) Rhombus	j) Antenna Plotting Software
11) Broadside	

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

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