

ANTENNA TRAINER - AT-01



Salicon-AT1, table-top training system. It is very useful to study & understand the principle & working of various antennas and to polar plots by teachers and students. The antennas are designed for use at higher frequencies making them handy and smaller in size for ease of use and better understanding of the subject. RF generator, Tone generator Directional coupler, Matching stub, Forward/Reverse meter, Goniometer & various antennas are provided for experimentation. Necessary DC regulated power supplies are built-in. Functional blocks are indicated on the mimic panel. The trainer includes set of modular mechanical elements forming various antennas, a transmitter unit & a detector unit. A detailed instruction/operating manual with fully documented students workbook & polar graph paper for antenna radiation characteristics are provided.

ACCESSORIES PROVIDED

1. Transmitting Antennas :

1. Dipole /2.
2. Dipole /4.
3. Folded Dipole /2.
4. Yagi UDA Folded Dipole (3E).
5. Yagi UDA Folded Dipole (5 E).
6. Yagi UDA Simple Dipole (5 E).
7. Yagi UDA Dipole (7 E).
8. Horizontal End Fed Hertz Antenna
9. Horizontal End Fed Zeppelin Antenna
10. Ground Plane Antenna.
11. Ground Plane with Reflector & Director Ant.
12. /2 Slot Antenna.
13. Loop Antenna.
14. Helix Antenna.
15. /2 Phase Array Antenna.
16. /4 Phase Array Antenna.
17. Combined Collinear Array Antenna.
18. Log Periodic Antenna.
19. Rhombus Antenna.
20. Cut Paraboloid Reflector Antenna.
21. Circular Loop Antenna

2. Current Probe.

3. Mounting stands.

4. A. BNC - Tee. B. BNC - BNC adapter. C. BNC - BNC Cable.

5. Set of 3 assorted multicolored multistrand wires with 4 mm plug terminations at both ends.

6. Detailed Instruction Manual with Student Workbook & Polar Graph Paper.

- Tabletop self-contained system.
- In-built generators & meters. Various antennas provided.
- Detailed Instruction Manual

Areas of Experiments

- Polar plots & polarization.
- Wave modulation & demodulation.
- Antenna Gain & Beam width.
- Study of Element Current. Study of Front Back Ratio. Antenna Matching.
- Measurement of SWR & forward / reverse power.
 - Antenna radiation with distance.

TECHNICAL SPECIFICATION

RF Generator -	750 MHz Approx (output Adjustable).
Tone Generator -	1KHz Approx (output Adjustable).
Directional Coupler -	Forward & Reverse (Selectable).
Matching Stub -	Slider Type.
Antenna Rotation -	0 - 360° Resolution 1°.
Receiving Antenna -	Folded dipole with reflector and Digital Meter.
Forw. / Rev. Meter -	Digital Meter, provided on main Panel.
Goniometer-	Provided on main panel.
Power Supply -	230V + 10% VAC, 50Hertz, Single phase.
Interconnections -	4mm Banana Sockets.

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