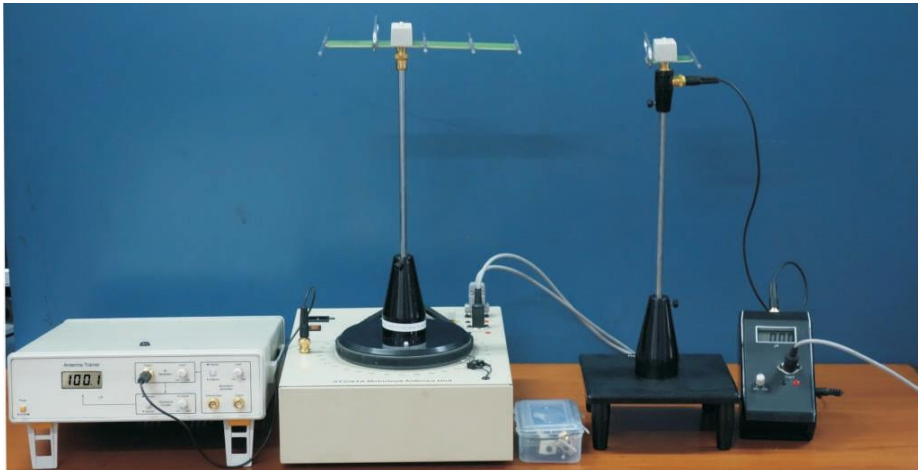


## Antenna Trainer



Images given are for representation only and the final equipment can change according to its specifications

### Technical Specifications

- Sine - Waveforms
- RF generator- 750 MHz approximately (output adjustable)
- Modulation generator- 1 KHz approximately (output adjustable)
- Directional coupler- Forward & reverse (selectable)
- Matching stub- Slider type
- Antenna rotation- 0-360°. (resolution - 1°)
- Receiving antenna- Folded dipole with reflector
- Detector display- Level adjustable meter
- Detector- Active with 5 pin DIN connector
- Interconnection- Provided BNC (2 mm Banana sockets)

### Learning

- 1 Polar plots & polarization study of 22 types of Antennas
- 2 Wave modulation & demodulation
- 3 Antenna gain & antenna beam width
- 4 Element current & front to back ratio
- 5 Study of matching stub
- 6 SWR measurement
- 7 Antenna radiation with distance
- 8 Plotting the Polar graph/ radiation pattern of an antenna using software

### Features

- 1 Onboard RF & Tone Generators
2. Transmitting and Receiving levels observed On Built- in Meters.
3. Functional Block indicated on-board Mimics.
4. Compact design & Lightweight
5. Antenna rotation resolution 1°

**Antennas 22**

1. Simple dipole $\lambda/2$	-	1
2. Simple dipole $\lambda/4$	-	1
3. Simple dipole $3 \lambda/2$	-	1
4. Folded dipole $\lambda/2$	-	1
5. Yagi-UDA folded dipole (3E)	-	1
6. Yagi-UDA folded dipole (5E)	-	1
7. Yagi-UDA simple dipole (5E)	-	1
8. Yagi-UDA simple dipole (7E)	-	1
9. Hertz antenna	-	1
10. Zeppelin antenna	-	1
11. $\lambda/2$ phase array	-	1
12. $\lambda/4$ phase array	-	1
13. Combined co-linear array	-	1
14. Broad-side array	-	1
15. Log periodic antenna	-	1
16. Cut paraboloid antenna	-	1
17. Loop antenna	-	1
18. Rhombus antenna	-	1
19. Ground plane antenna	-	1
20. Slot antenna $\lambda/2$	-	1
21. Helix antenna	-	1
22. Detector antenna	-	1