



Antenna platform Order Code-10012 is a student friendly trainer kit for studying characteristics of different antennas. Order Code-10012 is designed so that students can take the readings and plot the polar plots themselves, thus understanding the subject thoroughly. They can even stop & repeat the readings in between if needed.

All the antennas are made by high conducting rods with chrome finish for long durability and mounted on the glass epoxy PCB for easy mounting and dismounting Areas of Experimentation and Study

- Polar plot & Polarization of various antennas.
- Wave modulation and Demodulation
- Antenna Gain
- Antenna Beam Width.
- Element Current study.
- Front Back Ratio study.
- Antenna matching.
- SWR measurement.
- Antenna radiation with distance.
- Antenna bandwidth measurement

Scope of Learning

- Study of Simple Dipole /2 Antenna
- Performing Polarisation Test and Modulation Test
- Study of Reciprocity Theorem
- Study of variations in the radiation strength at a given distance from the antenna
- Antenna Current Sensor and SWR Measurement
- Study of Rhombus Antenna, Ground Plane Antenna, Slot Antenna, Helix Antenna and antenna bandwidth

Technical Specifications

RF generator	:	550 to 850 MHz approximately(with level adjust)
Modulation Generator	:	1 KHz approximately (300 mV)
Directional Coupler	:	Forward & Reverse (On board selectable)
Matching Stub	:	Slide Stub
Antenna Rotation	:	0- 360 Degree, Resolution 1 Degree Transmitting & Receiver masts provided
Receiving antenna	:	Folded Dipole with reflector
Detector Display	:	Adjustable meter
Interconnections	:	BNC
Power Supply	:	230 V \pm 10%, 50/60 Hz
Power Consumption	:	3VA (approximately)
Weight	:	3 kgs. Approximately
Dimensions (MainUnit-mm)	:	W 285 \times H 75 \times D 385

Features

- Self contained, simple and student friendly trainer
- Hands on set-up for measuring and plotting radiation patterns of different Antennas
- Built in RF & Modulation generators
- Built in frequency display
- Antenna Matching Stub
- Characteristics and SWR measurement
- Transmitting and Receiving levels observed on meters
- Built in DC power supply
- Fully documented, Operating manual and polar charts (2 types) with each trainer
- "Antenna kit" for fabricating special antenna
- Compact design
- Light weight
- 2 Year Warranty

Note: Specifications are subject to change.

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List of Accessories (Full Unit)

I. Antennas	:	22 nos.	II. Rods for Ground Plane Antenna	:	
1. Simple Dipole /2	:	1 no.	1. 6.9cm	:	1 no.
2. Simple Dipole /4	:	1 no.	2. 8.5cm	:	1 no.
3. Simple Dipole 3 /2	:	1 no.	3. 20.5cm	:	1 no.
4. Folded Dipole /2	:	1 no.	III. Current Probe	:	1 no.
5. Yagi-UDA Folded Dipole (3E)	:	1 no.	IV. Transmitting Mast	:	1 no.
6. Yagi-UDA Folded Dipole (5E)	:	1 no.	V. RF Detector	:	1 no.
7. Yagi-UDA Simple Dipole (5E)	:	1 no.	VI. Receiving Mast	:	1 no.
8. Yagi-UDA Simple Dipole (7E)	:	1 no.	VII. Accessories Kit :	:	
9. Hertz Antenna	:	1 no.	1. BNC – Tee	:	1 no.
10. Zeppelin Antenna	:	1 no.	2. BNC - BNC Adapter (M)	:	1 no.
11. /2 Phase Array	:	1 no.	3. BNC - BNC Adapter (F)	:	1 no.
12. /4 Phase Array	:	1 no.	4. BNC (M) - BNC (F)	:	
13. Combined Co-linear Array	:	1 no.	Adapter (L-type)	:	1 no.
14. Broad Side Array	:	1 no.	5. BNC – BNC Cable 25”	:	2 nos.
15. Log Periodic Antenna	:	1 no.	6. BNC – BNC Cable 18”	:	1 no.
16. Cut Paraboloid Antenna	:	1 no.	VIII. Polar Graphs (dBμA)	:	25 nos.
17. Loop Antenna	:	1 no.	IX. Polar Graphs	:	
18. Rhombus Antenna	:	1 no.	(For normalised reading)	:	25 nos.
19. Ground Plane	:	1 no.	X. Antenna Fabrication Kit	:	
20. Slot Antenna /2	:	1 no.	1. Two PCB’s	:	1 no.
21. Helix Antenna	:	1 no.	2. 14 SWG wire roll 20”	:	
22. Detector Antenna	:	1 no.	XI. Mains Cord	:	1 no.
			XII. VIP Suitcase	:	1 no.
			XIII. +7.5 - 9V DC Adaptor(500mA)	:	1 no.

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