



The **Antenna Training and Measuring System** is a comprehensive educational trainer designed for the study, characterization, and measurement of **antenna parameters** such as radiation patterns, polarization, directivity, and propagation characteristics. It provides a **self-contained, student-friendly setup** with onboard RF and modulation sources, measurement facilities, and a wide range of antennas for hands-on experiments.

Application

- Measurement of **radiation patterns** of different antennas
- Study of **antenna polarization**
- Determination of **directivity and gain**
- Validation of **standard propagation techniques**
- SWR and matching studies using **slide stub**
- Fabrication and testing of special antennas using the **antenna kit**

Product Features

- **Self-contained, simple, and student-friendly trainer**
- Hands-on setup for **measuring and plotting antenna radiation patterns**
- Onboard **RF generator (~750 MHz)** and **modulation generator (~1 kHz)**
- Built-in **directional coupler** (forward & reverse selectable)
- **Antenna matching stub** for tuning and SWR measurements
- **0° – 360° antenna rotation** with 1° resolution (transmitting antenna)
- Real-time **transmitting and receiving levels** displayed on meters

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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- On-board **functional block diagrams** (mimic layout for easy understanding)
- Integrated **DC power supply** (230 V AC input)
- Fully documented **operating manual, polar charts, and plotting software**
- **Antenna fabrication kit** for practical design and testing

Technical Specifications

- **RF Generator Frequency:** ~750 MHz (adjustable, onboard)
- **Modulation Generator:** ~1 kHz (adjustable, onboard)
- **Directional Coupler:** Forward & Reverse (selectable)
- **Matching Stub:** Slide Stub
- **Antenna Rotation (Tx):** 0° – 360° with 1° resolution
- **Receiving Antenna:** Folded dipole with reflector
- **Detector Display:** Onboard adjustable meter
- **Power Supply:** 230 V \pm 10%, 50 Hz
- **Power Consumption:** ~3 VA
- **Interconnections:** BNC connectors

Accessories

- **Antenna Set (22 types):**
 - 1. Simple Dipole $\lambda/2$
 - 2. Simple Dipole $\lambda/4$
 - 3. Simple Dipole $3\lambda/2$
 - 4. Folded Dipole $\lambda/2$
 - 5. Yagi-UDA Folded Dipole (3E)
 - 6. Yagi-UDA Folded Dipole (5E)
 - 7. Yagi-UDA Simple Dipole (5E)
 - 8. Yagi-UDA Simple Dipole (7E)
 - 9. Hertz Antenna
 - 10. Zeppelin Antenna
 - 11. $\lambda/2$ Phase Array
 - 12. $\lambda/4$ Phase Array
 - 13. Combined Co-linear Array
 - 14. Broad Side Array
 - 15. Log Periodic Antenna

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- 16. Cut Paraboloid Antenna
 - 17. Loop Antenna
 - 18. Rhombus Antenna
 - 19. Ground Plane
 - 20. Slot Antenna $\lambda/2$
 - 21. Helix Antenna
 - 22. Detector Antenna
- **Other Accessories:**
 - Rods for Ground Plane Antenna (3)
 - Current Probe (1)
 - Transmitting Mast (1)
 - Receiving Mast (1)
 - RF Detector (1)
 - Antenna Fabrication Kit (with 2 PCBs & 14 SWG wire roll, 20")
 - Carrying Case (1)
 - +5 V DC Adaptor (500 mA) (1)
 - Mains Cord (2)
 - 5-pin DIN Cable (1)
 - Patch Cords (set)
 - BNC-BNC Cable (1)
 - RS232 Cable (1)
 - **Radiation Pattern Plotting Software** included

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