



An antenna is a device that is used to convert guided electromagnetic waves into electrical signals and vice versa (i.e. either in transmitting mode or in receiving mode of operation). Mine Antenna Trainer MI-AT10 is a bench-top antenna system design to demonstrate all concepts of an antenna operations. Student can learn easily about various type of antenna operation with their polar plot. This system comes with a motorized antenna unit to record radiation pattern automatically of any antenna mounted on it.

Learning's

- Study of Polar Plots and Polarization.
- Study of wave modulation and demodulation.
- Study of Antenna Gain.
- Study of Antenna beam width.
- Study of matching Stub.
- Study of SWR measurement.
- Study of Antenna radiation and distance.

Technical Specifications

Waveforms	: Sine
RF Generator	: 750 MHz approximately
Modulation Generator	: 1 KHz approximately
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
Interconnection	: BNC/2mm banana socket
Input Line Voltage	: 230V AC \pm 10% , 50Hz

Accessories

Antennas 10nos

1. Simple Dipole $\lambda/2$:	1 no.
2. Simple Dipole $\lambda/4$:	1 no.
3. Yagi-UDA Folded Dipole (3E)	:	1 no.
4. Yagi-UDA Folded Dipole (5E)	:	1 no.
5. Yagi-UDA Simple Dipole (5E)	:	1 no.
6. Slot Antenna $\lambda/2$:	1no.
7. Hertz Antenna	:	1 no.
8. Loop Antenna	:	1 no.
9. Zeppelin Antenna	:	1no.
10. Detector Antenna	:	1 no.
• Current Probe	:	1 no.
• Rods for Ground Plane Antenna (different sizes)	:	3nos.
• Current Probe	:	1no
• Transmitting Mast	:	1no.
• RF Detector	:	1no.
• Receiving Mast	:	1no
• Required Connectors to perform all types of Practical's.		
Mains cord, Carrying case suitable DC adaptor if required		
• Spectrum Analyzer (Optional)		

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