

**Product Name :**

Motorised Antenna Trainer with Plotting Software and 22 Antennas

**Product Code :**

NLAB-ELECTRONICSAB200012

**Description :**

Motorised Antenna Trainer with Plotting Software and 22 Antennas

**Technical Specification :****Technical Specifications**

RF Input : From Order Code - 10008

Detector : Active with 5 pin DIN Connector

Antenna Rotation : 360° (Resolution 1.8°)

Power Supply : 230V  $\pm$  10%, 50/60 Hz

Power Consumption : 2 VA (approximately)

Dimensions (mm) : W 285  $\times$  D 390  $\times$  H 88

Weight : 3 Kg (approximately)

Accessories : Mains Cord, 5 Pin DIN cable,

Patch Cords, BNC-BNC Cable, RS232 Cable,

## Radiation Pattern Plotting Software

### Scope of Learning

Polar plots & polarization

Wave modulation & demodulation

Antenna gain, Antenna beam width study

Element current, Front-back ratio study

Antenna matching

Antenna radiation with distance

### Features

Microcontroller Based High Precision DC Stepper Motor

Automatic Zero Point setting

4Built-in DC Power Supply

Instant Plotting of radiation Pattern

Resolution 1.80

RS232 data link to PC

Software running under Windows 98/ XP/ Window 7

### List of Accessories (10 Antenna)

I. Antennas : 11 nos.

1. Simple Dipole  $\lambda/2$  : 1 no.
2. Yagi-UDA Folded Dipole (3E) : 1 no.
3. Yagi-UDA Folded Dipole (5E) : 1 no.
4. Yagi-UDA Simple Dipole (5E) : 1 no.
5. Yagi-UDA Simple Dipole (7E) : 1 no.

- 6. Hertz Antenna : 1 no.
- 7. Loop Antenna : 1 no.
- 8. Log Periodic Antenna : 1 no.
- 9. I/2 Phase Array : 1 no.
- 10. Detector Antenna : 1 no.
- 11. Helix Antenna : 1 no.
- II. Current Probe : 1 no.
- III. Transmitting Mast : 1 no.
- IV. RF Detector : 1 no.
- V. Receiving Mast : 1 no.
- VI. Accessories Kit :
  - 1. BNC –Tee : 1 no.
  - 2. BNC - BNC Adapter (M) : 1 no.
  - 3. BNC - BNC Adapter (F) : 1 no.
  - 4. BNC (M) - BNC (F)  
Adapter (L-type) : 1 no
  - 5. BNC – BNC Cable 25" : 2 nos.
  - 6. BNC – BNC Cable 18" : 1 no.
- VII. Polar Graphs (dBmA : 25 nos.
- VIII. Polar Graphs  
(for normalised reading) : 25 nos.
- IX. Antenna Fabrication Kit
  - 1. Two PCB's : 1 no.
  - 2. 14 SWG wire roll 20"
- X. Mains Cord : 1 no.
- XI. +7.5 - 9V DC Adaptor(500mA) : 1 no.
- XII VIP Suitcase : 1 no.

XIII Rods for Ground Plane Antenna

1. 6.9cm : 1 no.

2.8.5cm : 1 no.

3.20.5cm : 1 no.

## Naugralabequipments

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