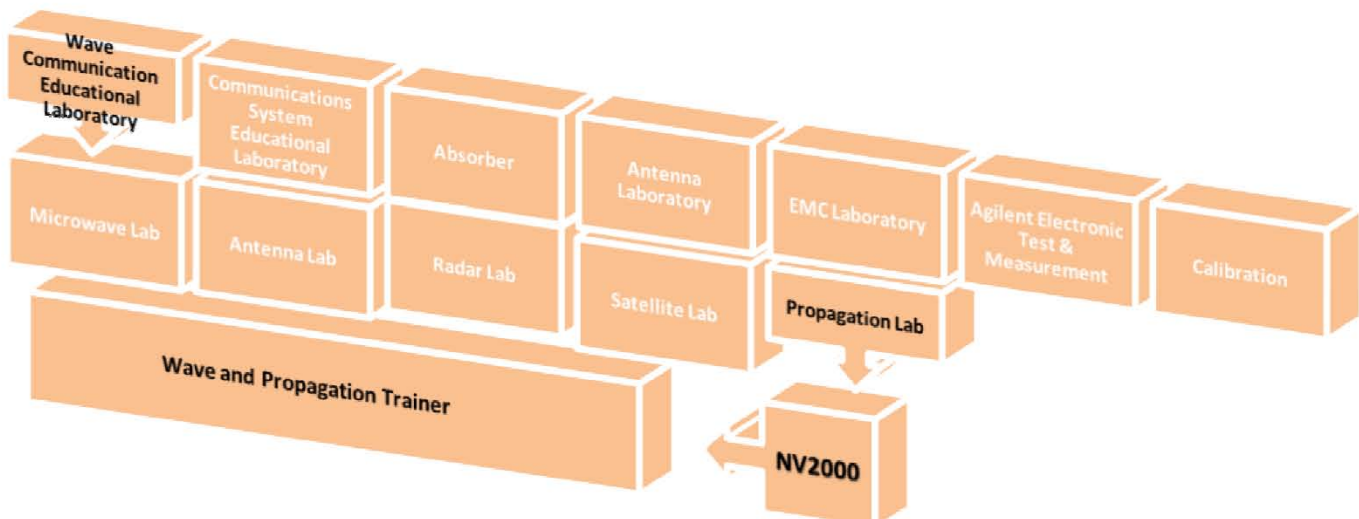


The NV2000 Wave and Propagation Trainer is a useful training system for the Laboratories. It helps student to learn Wave Properties and Propagation results. Concepts of Reflection, Refraction, Polarization, Interference, Standing waves, Interferometer can be understood very easily. The setup is mainly consists of Microwave Transmitter, Microwave Receiver, Goniometer scale. Alongwith this setup lot of accessories are provided to perform different experiments. A user friendly manual is provided with this system to help student in performing the experiments and to understand the topic theoretically.

Features

- A Complete set for Transmission, Reception and Measurement of Microwave Power.
- Digital displays are provided for relative strength measurement of microwave.
- Accessories are provided in a carrying case.
- Complete set of accessories for performing the experiments of Reflection, Refraction, polarization Interference etc.
- Audio / Voice communication facility is provided.
- Provided with a detector probe for field detection.
- 2 Years Warranty



Technical Specifications :

Frequency of Operation	:	10 GHz (approx)
Power of Transmission	:	10 -15 mW
Operating Voltage	:	8 V (approx)
Antennas for Transmission & Reception	:	Horn type
Goniometer Scale	:	0° - 360°
Tone Generator	:	1 KHz Frequency
Transmitter and Receiver arm length	:	50 cm each
Power Display	:	Digital, Relative Measurements

Accessories

- Microwave Transmitter
- Microwave Receiver
- Transmitter Arm
- Receiver Arm
- Goniometer Main Unit
- Detector Probe
- Prism
- Metal Plates of different dimensions
- Partial Reflectors
- Din Connectors Cables
- Metal Plate holder
- Polarization Grille
- Prism Stand
- Microphone

Experiments that can be performed

- To understand the Basic set up and Introduction to the given system.
- To understand the Working of Transmitter and Receiver.
- To study the Standing Waves and Measure the Wavelength of Microwave.
- To study the Reflection in Microwaves.
- To study the Refraction in Microwaves (Snell's Law).
- To study the Polarization in Microwaves.
- To study the double slit Interference in Microwaves.
- To study the Fabry-Perot Interferometer.
- To study the Voice Communication with the help of Microwave Receiver.



Polarization Grille



Prism



Double Slit Set



Detector Probe

