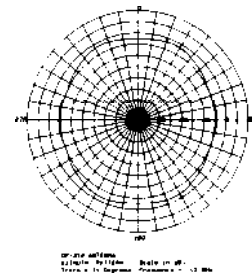
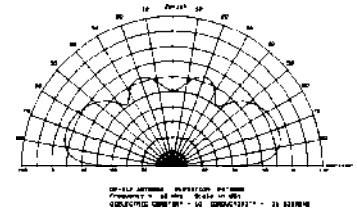
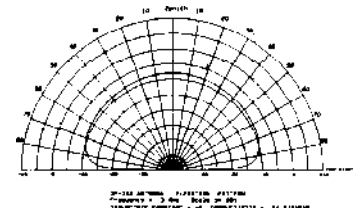
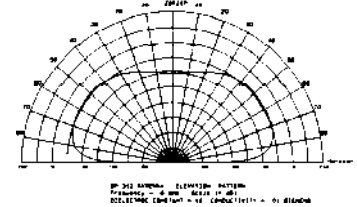
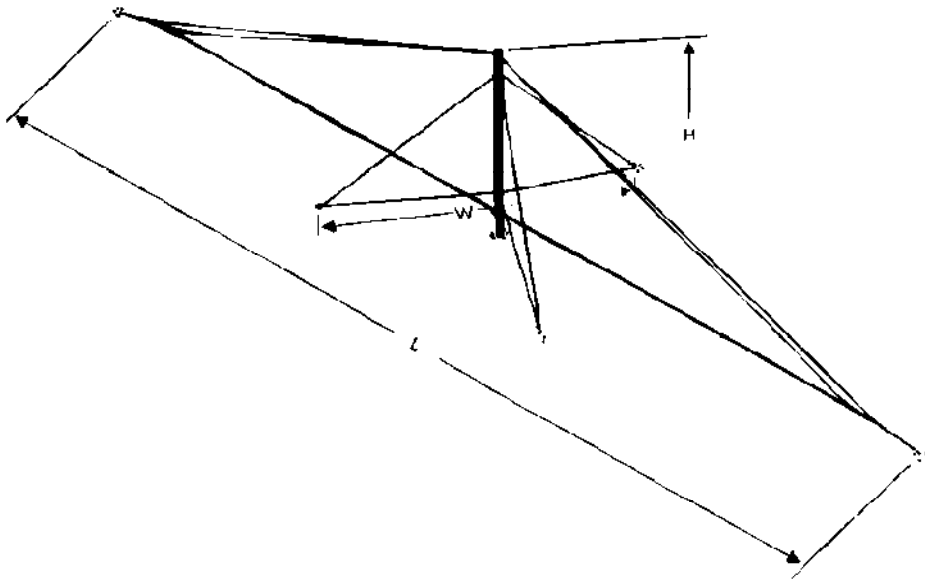


# DP-312

- SHORT RANGE
- TRANSPORTABLE
- OMNIDIRECTIONAL



## Applications

The DP-312 is a transportable, wideband HF antenna designed for short-range sky wave circuits. The horizontal polarization permits operation over all types of soil conditions without the need for a ground screen. The antenna operates over the 2 to 30 MHz band with some performance degradation, and a tuning unit or coupler is not needed over the 2-30 MHz band.

## Features

The DP-312 utilizes a 50-foot telescopic mast to enhance transportability and provides ease of erection and disassembly. Air-dampened retraction is used to ensure smooth, safe operation of the telescoping mast. The antenna is lightweight, rugged,

and can be erected by two men in 30 minutes.

## Characteristics

The DP-312 has a gain of -11 dBi at 2 MHz. It increases to -5 dBi at 8 MHz and above. The VSWR is 2:1 or less over the 2 to 20 MHz band and 3:1 from 20 to 30 MHz. At the lower frequencies, maximum radiation is toward the zenith and the azimuth patterns are essentially omnidirectional. The antenna is designed for 1 kW average, 2 kW PEP.

## Optional Equipment

- Transit Case
- Obstruction Lighting Kit



## SPECIFICATIONS

Frequency Range	2-30 MHz	Patterns	Omnidirectional ±3 dBi
Polarization	Horizontal	Azimuth	Beam Maximum at zenith
Input Impedance	50 Ohms unbalanced	Elevation	below 8 MHz
VSWR	3:1 Maximum	Height	48 ft
Power	1 kW avg, 2 kW PEP	Width	60 ft
Input Connector	Type "N"	Length	220 ft
Gain	-11 dBi at 2 MHz	Wind	100 mph (87 knots)
	-5 dBi at 8 MHz		