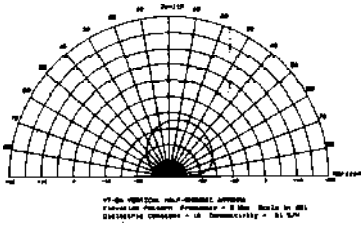
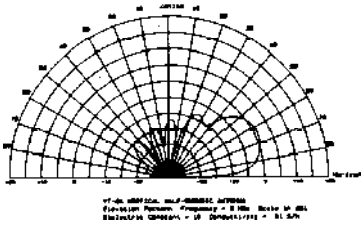
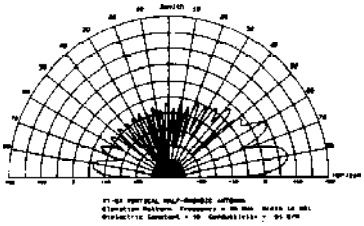
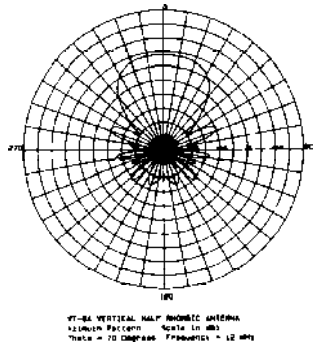
VT-6/VT-6A

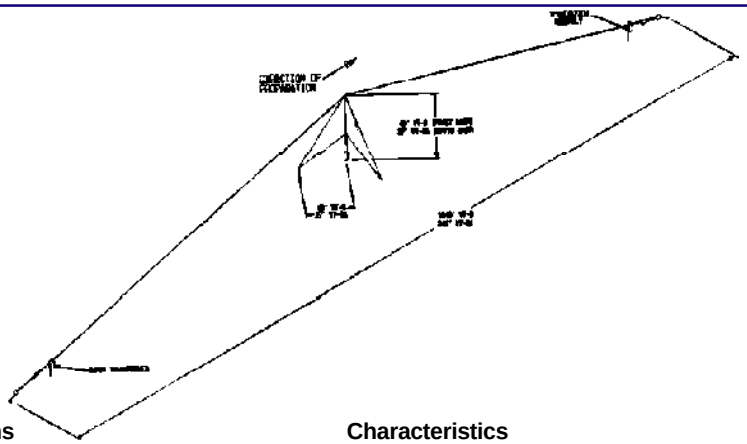
- VERTICALLY POLARIZED
- DIRECTIONAL
- SHORT RANGE GROUND WAVE
- SHORT TO MEDIUM RANGE SKYWAVE
- LIGHTWEIGHT
- TRANSPORTABLE
- QUICK ERECT











Applications

The VT-6 and VT-6A are vertically-polarized, transportable antennas designed for tactical applications requiring directivity and full 2 to 30 MHz instantaneous bandwidth. The antennas efficiently transmit and receive surface wave propagation for short-range communications and also support medium-range skywave communications.

Features

The radiating element is a vinyl covered galvanized cable that is elevated in the center utilizing a lightweight, telescopic aluminum mast. A broadband transformer is provided to match the input impedance to 50 Ohms, and a resistive load is provided to terminate the antenna in its characteristic impedance.

Characteristics

The VT-6 is 1000 feet long and uses a 49-foot telescoping mast. The retracted height of the mast is 9.2 feet. The VT-6 is primarily used at frequencies from 2 to 12 MHz. The VT-6A is 325 feet long and uses a 27-foot telescoping mast which retracts to 63 inches. This antenna favors the higher frequencies. Both the VT-6 and VT-6A are capable of handling up to 1 kW average, 4 kW PEP, and exhibit a maximum VSWR less than 2:1.

Optional Equipment

Transit Case
Sectionalized Mast

ANTENNA PRODUCTS

SPECIFICATIONS

Model	VT-6	VT-6A
Frequency Range	2-30 MHz	2-30 MHz
Polarization	Vertical	Vertical
Input Impedance	50 Ohms unbalanced	50 Ohms unbalanced
VSWR	2:1 maximum	2:1 maximum
Power Handling	1 kW avg 4 kW PEP	1 kW avg 4 kW PEP
Gain	- 4 dBi at 2 MHz 10 dBi at 10 MHz & above	- 5 dBi at 4 MHz 7 dBi at 20 MHz & above
Input Connector	Type "N"	Type "N"
Geometry	1040 ft (318 m) long wire with 49 ft (15 m) center support	340 ft (104 m) long wire with 27 ft (8.2 m) center support
Installation Time	2 persons, 30 min	2 persons, 15 min.
Installed Dimensions		
Height	49 ft (15 m)	27 ft (8.2 m)
Width	85 ft (25.9 m)	47 H (14.3 m)
Length	1040 ft (318 m)	340 ft (104 m)
Stored Dimensions		
inches	63 x 24 x 12	63 x 24 x 12
meters	1.6 x .6 x .3	1.6 x .6 x .3
Weight		
Antenna Assy	75 Lbs (33.9 kg)	30 Lbs (13.6 kg)
Mast Assy	104 Lbs (47.6 kg)	23 Lbs (10.4 kg)
Accessory Kit	88 Lbs (39.8 kg)	40 Lbs (18.1 kg)
Total	267 Lbs (121 kg)	93 Lbs (42.1 kg)
Wind Loading	67 mph (108 km/hr)	67 mph (108 km/hr)