

# ANT280S

## WIDEBAND DISCONE ANTENNA

The Telewave ANT280S Discone is a rugged, lightweight, wide-band antenna for all frequencies between 118 MHz and 3 GHz. This versatile antenna provides a highly flexible solution to interoperability requirements in multiple bands.

Each antenna is constructed from Mil. Spec. 6061-T6 solid aluminum, welded at all joints for maximum strength. A high-strength radome encloses the upper cone and RF connections to ensure survivability in adverse environments.

The radome and Txytan™ coating on all metal surfaces ensures complete protection from corrosive gases, ultraviolet radiation, salt spray, acid rain and sand storms in desert environments.

The antenna has a 1.5" diameter mast and a dual clamp kit is available for mounting to a 1.5" - 4" O.D. support pipe.

The ANT280S is light enough to be used as a tactical antenna for field deployment, and can complement or replace multiple antennas on a mobile command vehicle. The 500 watt power rating allows use of high-power radios and tactical repeaters.

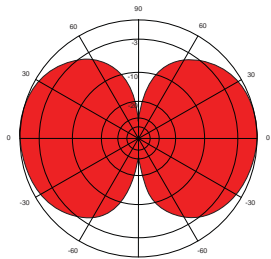
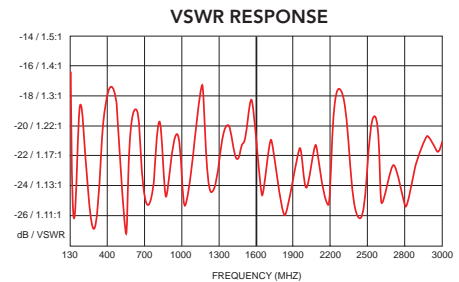
The full-surface coating and rugged construction means it can also be permanently mounted on a tower or command center roof for long-term fixed operation.

The ANT280S is ready to operate with a single or multiband radio using one antenna output. Several types of low-loss couplers are available for multi-radio operation.

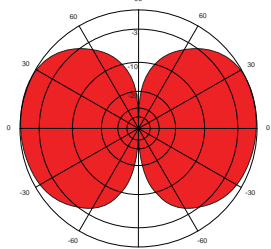
For optimum performance in the lowest frequency ranges, the antenna should be mounted at least 20 feet above the closest reflecting surface.



SPECIFICATIONS	
Frequency (continuous)	118 MHz - 3 GHz
Power rating (typ.)	500 watts
Gain (typ.)	0 dBd
Impedance	50 ohms
VSWR	1.5:1 or less (118 - 136 MHz at 1.8:1 VSWR)
Pattern	Omnidirectional
Termination	N-Male or 7-16 DIN (option) on feed cable
Vertical beamwidth (nom.)	110°
Wind rating / 0.5" ice	150 / 100 MPH
Maximum exposed area	0.89 ft. <sup>2</sup>
Lateral thrust at 100 MPH	36 lb
Bending moment at 100 MPH	49 ft. lb (top clamp, flat plate equiv.)
Dimensions	43" H x 28.5" W (at base)
Weight	11 lb



E-plane: 136 MHz



E-plane: 400 MHz