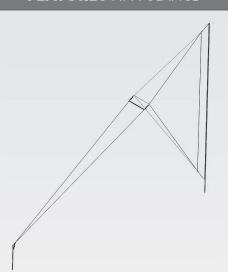


SEMI-DELTA ANTENNA

7 FEATURES AT A GLANCE



- 2 to 14 MHz frequency range
- Omni-directional radiation
- Compact installation
- Up to 1000 W RF power rating
- Rated for data

The Semi-delta Antenna is an economical broadband base station antenna suitable for short to medium distance HF communications. The compact design of the antenna makes it suitable for installations that have limited space available.

PERFORMANCE

The Semi-delta Antenna supports operation over the frequency range of 2 to 14 MHz, and is capable of full duty cycle voice and data operation at the rated power levels.

The antenna is an omni-directional antenna but has a good combination of high and low angle radiation to support both NVIS and longer distance HF communications.

The broadband design of the antenna eliminates the need for a separate antenna tuner unit, the antenna is connected to the transceiver via a single coaxial cable.

Manufactured using materials designed for long service life, the Semi-delta is built to survive in harsh outdoor environments.

INSTALLATION

The antenna requires a high anchor point of 15 m and a lower anchor point of 1.5 to 2 m, separated by 20 m. It is supplied partially assembled to minimise shipping size, however can be assembled quickly and easily without special tools.

The coaxial feed cable is connected to the balun that is conveniently located at the lower end of the antenna. For ground installations with poor soil conductivity or roof top installations with non-conductive roof materials, it is recommended a counterpoise system is fitted to maximise antenna performance.

SEMI-DELTA ANTENNA

SPECIFICATIONS

ELECTRICAL

Frequency Range 2 to 14 MHz

Power rating 400 W PEP (240 W Average) or 1000 W (600 W Average)

Nominal impedance 50 Ω

VSWR Typically < 2:1

RF connector type UHF-type (400 W), N-type (1000 W)

MECHANICAL

Mast heights 15 m mast and 1.5 to 2 m stub mast

Mast spacing 20 m

Balun mounting 2 x U-bolts to suit 50 mm diameter tube

Wind rating 160 km/hr, no ice

Packed weight 8 kg (400 W), 11 kg (1000 W)

Packed dimensions 880 mm x 340 mm x 100 mm (excluding mast hardware)

Installation hardware pulley/halyard suitable for a 15 m mast

ACCESSORIES

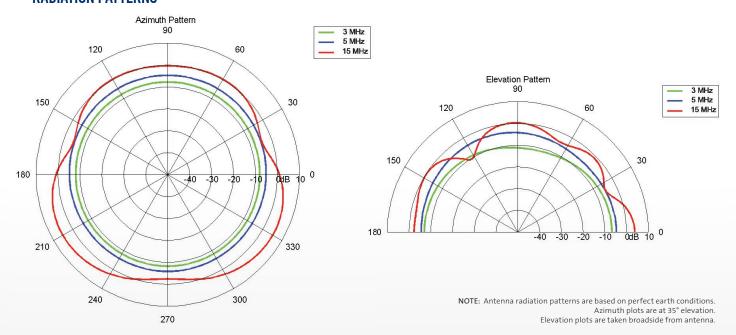
Coaxial cables (RG58 or low loss RG213)

Lightning protection

Copper earth strap

Earth stake

RADIATION PATTERNS



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Values noted are typical. Equipment descriptions and specifications subject to change without notice or obligation.

CODAN RADIO COMMUNICATIONS

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