CODAN

HF RADIO COMMUNICATIONS

Mobile Antenna 9350

The *9350 Automatic Tuning Whip Antenna* is designed for mobile operation with transceivers that have a large channel capacity.

KEY FEATURES

Rugged design

The 9350 antenna is constructed to withstand the severe environmental conditions usually experienced in some of the more remote areas of the world. It meets or exceeds the shock and vibrations requirements for MIL-STD-810.

The main antenna section is constructed of fibreglass reinforced nylon. This provides a weatherproof housing for the control and tuning devices, which are fitted inside. It is mounted on an anti-vibration base that incorporates rubber mounts. These are likely to be met while travelling on unsealed roads or tracks.

The 9350 antenna will operate in a broad range of temperatures.

Fast, optimum tuning

Typically, the 9350 takes only a few seconds to tune to any frequency. It will seek the optimum tuning point for all operating conditions—this ensures the best communications possible.

High radiation efficiency

The 9350 antenna has a comparably high rate of radiation efficiency. It is rated for maximum voice power of 125 watts PEP.

ADDITIONAL FEATURES

Antenna mounted at bumper height

Antenna mounted on bull bar

Continuous tuning

The whip antenna uses a microprocessor controlled stepper motor to provide continuous tuning to any required frequency over the transmit/receive operating range of 2–30 MHz.

Two whips supplied

Two whip top sections are provided with the 9350 antenna. The standard or primary whip is a wire that is encased in a polyurethane covered fibreglass rod. It is designed to withstand substantial flexing and hard knocks and operates over the full frequency range of this antenna.

The shorter, secondary whip is manufactured from stainless steel. It is designed for use as a backup in emergency situations when the standard whip has been damaged. This whip is only suitable for operation over a transmit frequency range of 2.5–30 MHz and is less efficient than the primary whip.

Sensitive to weak signals

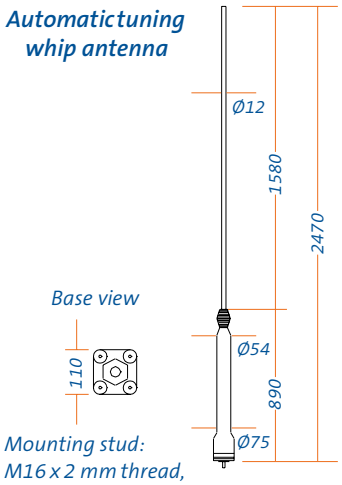
When in Scan or Free Tune Receiver mode, a broadband amplifier is activated. This makes the antenna sensitive to even the weakest signals over the entire frequency range.

Antenna mounted at rear bumper height

SPECIFICATIONS

Frequency range	Primary whip top Transmit operation: 2–30 MHz Secondary whip top Transmit operation: 2.5–30 MHz Receive-only (Scan mode/Free Tune Receiver mode): 250 kHz – 30 MHz
Power rating	125 watts PEP (voice)
Power consumption	Static: 150 mA Tuning: 1 A (12 V DC nominal—supplied from the transceiver)
Input impedance	50 ohms: VSWR typically 1.5:1
Temperature	–40 to +60°C
Tuning speed	Typically 2 seconds
Size and weight	Primary whip: 2.47 m; 5.8 kg

9350 Automatictuning whip antenna



The *Near Vertical Incidence Skywave (NVIS) kit* is an add-on accessory for the Codan 9350 antenna.

Short vertical whip antennas are poor radiators at high take-off angles. This makes short distance communications difficult, especially so in hilly terrain. Making the whip longer and more horizontal improves the high take-off angle radiation efficiency.

KEY FEATURES

Improves short-range communications

Transmit and receive paths over the range of 0–500 kms will be greatly improved with the addition of the NVIS kit.

Easily attached to a variety of vehicles

The NVIS kit can be quickly and easily attached to a wide variety of vehicles. All fitting instructions are provided—no special tools are required.

ADDITIONAL FEATURES

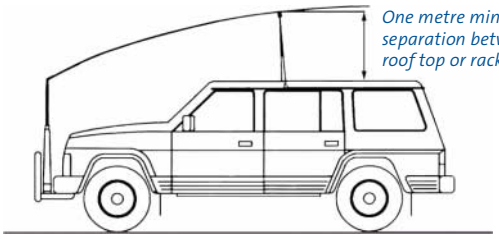
Rugged design

The tough design of the NVIS has been proven through extensive field testing.

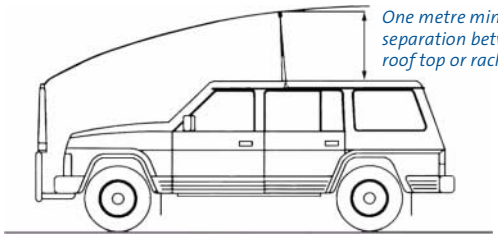
Easy to transport

The NVIS kit is supplied in a canvas bag for ease of transportation.

Note: the frequency range of the NVIS kit is 1.6–12 MHz



Antenna mounted at bumper bar height



Antenna mounted on bull bar

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