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White Wolf Systems “HF LOOP” NVIS Antenna System

The White Wolf Systems HF NVIS Loop operates from 3-15 MHz in the HF spectrum and are designed for Vehicles and Fixed Locations. The fixed location Loop is physically larger than the Vehicular Loop. Included with the loop is a automatic tuner that can work with any radio system through a “learning process” for often used fixed frequencies or for ALE nets of frequencies. Once programmed this antenna system operates seamlessly within the network for thousands of dollar less than other brands. This Loop is a very rugged antenna system that is manually raised or lowered for clearance or stealth when not in use. Electrically operated Loops can be provided as well but for rugged terrain use the manual systems are highly recommended. Installation is quick and simple, adaptable to any situation. Near Vertical Incidence Skywave properties of the HF Loop are a tremendous advantage over other antenna systems in areas of mountains and jungle operations. Teamed with a quality HF radio system the HF Loop outperforms all other types of antennas for the designed purpose.



Mobile NVIS Loop Antenna: Traditional vertical ‘whip’ antennas fitted to vehicles for high-frequency communication suffer from a ‘skip zone’, where little or no communication is obtainable in a given area. The HF Loop Antenna, developed for NVIS communication across 3-15MHz, overcomes these limitations by having high radiation efficiency and no skip zone whatsoever. Capable of automatically tuning across its frequency range in less than a 50th of a second, it is compatible with virtually any HF transceiver including frequency hopping types without the need for a separate control.

Fixed Loop Antennas: There are two versions of fixed station loop antennas available, which operate on both NVIS and long distance sky-wave propagation modes across 3-30MHz: **1.** A wire element loop with 10ft sides **2.** A solid element loop with 8ft sides. Both offer similarly high efficiencies. These are ideal for use where space is limited, and rival the performance of much larger wideband HF wire antennas. Like the mobile loop, the fixed station loop is capable of automatically tuning across its frequency range in less than a 50th of a second, it is compatible with virtually any HF transceiver including frequency hopping types without the need for a separate control.

Antenna	Specifications
Frequency	3-15 MHz (NVIS & Regional)
Power Output	1.5 – 200 watts 80 watts Continuous
Impedance	50 Ohms
Polarization	Horizontal
VSWR	Less than 2:1 tuned, 3:1 Max.
Pattern	High Angle NVIS Radiation Pattern
Operational Temp.	-35° to +70°C



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