

STEALTH 9300

Automatic Tuning Mobile Whip Antenna

9300



TACTICAL FEATURES

- Continuous 1.5 to 30 MHz coverage
- 125W CW/DATA, 200W PEP SSB
- 0.25 sec Fast Automatic Tuning
- Integral Wideband Receiver Scan Amplifier
- Highest Radiation Efficiency in its class
- Compatible or adaptive to all existing HF transceivers
- Supports ALE and Frequency Hopping
- Rugged and Submersible Design
- Built to Military Specifications





Applications

The Stealth 9300 Automatic Tuning Whip Mobile HF Antenna System is designed for vehicular installations and meets the most demanding military customer requirements. It is intended for use by organisations engaged in emergency and remote operations where HF radio is the irreplaceable wireless communications instrument:

Military & Police

Humanitarian

Distress Rescue

The type 9300 Antennas will flawlessly tune to any frequency in entire HF band in a fraction of a second. 125W RF power handling capability is ideal for prolonged sessions of data and voice communications. The 9300 antenna design is the result of expertise of over a decade in HF-mobile antenna industry combined with innovation in electrodynamics, electronics, software and modern technology.

High Performance

Virtually maintenance free, easy to set up and operate, the 9300 Antenna sets new industry benchmark delivering transmit and receive power performance unheard of in other short whip type antennas. Immune to temperature variations and vibration, the patented tuning mechanism and high-Q RF-network of the 9300 Antenna ensures fast and consistently stable operation. Poor radiation efficiency, high VSWR and unreliable tuning have been eliminated in the type 9300 Antennas.

Special Features

Stealth 9300 Antenna has been designed to interface with virtually any military or commercial large channel capacity HF transceiver while supporting correct functioning of ALE and Frequency Hopping. Antenna Memory Kill is a standard function that allows for instant erase of memory stored network frequencies blocking access to vital channel data by an enemy when captured. A powerful CPS9300 software tools provide for convenient access to software controlled parameter configuration and diagnostics via inbuilt USB port allows for automatic antenna adaptation to vehicle metal work and other surrounding conditions proved by printable signature of each individual HF mobile installation. The 9300 is currently the only antenna system to support both traditional and modern architecture transceivers such as Software Defined Radio (SDR).

Rugged Design

The Stealth 9300 Auto Tuning Mobile HF whip Antenna is engineered as a high manufacturing culture and state-of-the-art technology device ensuring durability and consistency of parts replication guaranteeing long term precise functioning of the system. The 9300 Antenna is designed to be mechanically indestructible and impervious to water and dust using modern engineering techniques and latest generation of materials to withstand harshest climatic conditions and ensure reliable operation in all types of terrain.

GENERAL SPECIFICATIONS

Frequency Range	1.5 to 30MHz Transmit, 100KHz-54MHz Receive
Power Rating	125W PEP CW/data, 200W PEP SSB Voice
VSWR	Typical $\leq 1.3:1$, 50 Ω
Tuning Speed	New channel ≤ 0.7 sec average, memory tune ≤ 0.25 s
Memory Channels	400 non-linear memory allocation
Tune Power	External 3-30W PEP (3-200W in Smart Tune)
DC Operating Range	10-16VDC, 13.6VDC nominal from transceiver or battery
Power Consumption	1.7 A tuning, 250mA static, 80mA sleep mode
Integral Scan Amplifier	Gain 3 dB, noise ≤ 10 dB above thermal, IP ³ ≥ 26 dBm
Interface	UHF socket/MIL-DTL 5015, 7-pin/ USB (MIL spec), TTL and serial via menu settings
Protection	High VSWR, Open/short Circuit, Over Voltage/ Temperature, Induced RF Power
Operating Temperature Range	-50°C to +70°C
Environmental	MIL-STD-810G Dust and Vibration, IP 68 Immersion
EMC	MIL-STD-461F, EN 300 373
Mounting	M16x45mm stud
Weight and Dimensions	5.7 kg, 100x100x840(2490)mm
Color	Normally Black

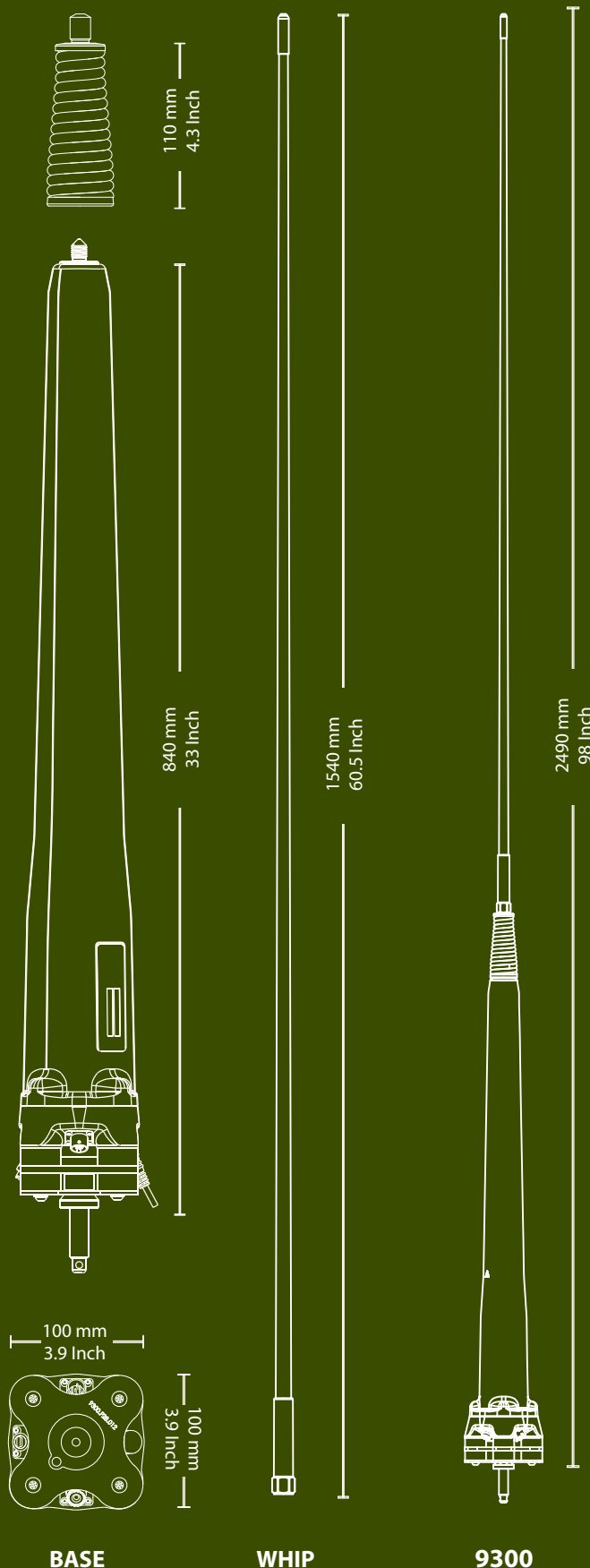
STANDARD PACKAGE

<input type="checkbox"/> 9300.B36.000	Antenna Base Unit
<input type="checkbox"/> 9300.B35.005	M14F Fiberglass Whip
<input type="checkbox"/> 9300.M28.015	M14FxM14M Spring
<input type="checkbox"/> 9300.S51.060	CPS9300 Installation CD
<input type="checkbox"/> 9300.D50.001	Quick Installation Guide
<input type="checkbox"/> 9300.B17.060	Control Cable, 5.5m
<input type="checkbox"/> 9300.B17.061	Coaxial Cable, 6m
<input type="checkbox"/> 9300.B17.005	Universal (default) Adaptor Cable 0.5m*
<input type="checkbox"/> 9300.B17.071	USB Cable, 1.5m
<input type="checkbox"/> 9300.B35.020	Emergency 1.2m Whip
<input type="checkbox"/> 9300.B35.040	Emergency NVIS Kit

OPTIONAL ACCESSORIES

*Proprietary Plug Adaptor Cable can be included on ordering.

Wide range of optional installation accessories is available in separate catalogue.



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