

# STEALTH 9300

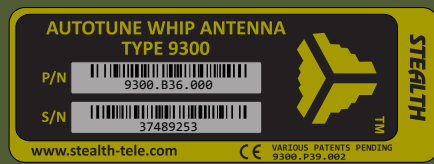
*Tactical Automatic Whip Antenna*

# 9300



## TACTICAL FEATURES

- Continuous 1.5 to 30 MHz coverage
- 125W CW/DATA, 200W PEP SSB
- Highest-in-class radiation efficiency
- Integral broadband receiver amplifier
- 3G ALE and Frequency Hopping Compliant
- Compatible or adaptive to all HF transceivers
- Built to military standards



## APPLICATIONS

The Stealth 9300 Tactical Automatic Whip Antenna is designed for maximum efficiency and reliability in the most demanding mobile military operations where failure of communication is not an option.

## INDESTRUCTIBLE DESIGN

Stealth 9300 antenna housing is moulded from fiberglass reinforced nylon followed by artificial aging treatment. The die cast aluminium antenna base incorporates heavy duty anti-vibration rubber mounts, nanotech air valve and military grade connectors. Rugged and impervious to dust and water ingress, the 9300 meets or exceeds requirements of MIL-STD-810 assuring long term reliable operation in all terrain and climatic zones.

## FLEXIBLE INTERFACE

Type 9300 antenna is designed for flexible interfacing with virtually any HF radio. With the supplied CPS-9300 Antenna Configuration Software and USB cable the 9300 antenna can easily be programmed via a PC for operation with any analogue or digital HF transceiver including those designed to operate external antennas via RS-485 interface. This assures intelligent operation in 3G ALE and Frequency Hopping, as well to use CMK (Channel Memory Kill) and other functions from transceiver control panel.

## 1.5-30MHz COVERAGE

Stealth 9300 antenna features extremely fast automatic tuning to any frequency over the entire 1.5-30MHz HF frequency range permitting maximum utilization of multichannel HF transceiver spectrum capability.

## HIGH POWER HANDLING

With Q-magnified RF circuit, the 9300 is best-in-class mobile antenna capable for high duty cycle RF power handling required for long session of voice, fax and data transmission.

## FAST TUNING

The 9300 antenna incorporates microprocessor controlled stepper inductor which rapidly (250ms average) tunes the antenna to any frequency stored in the memory bank of up to 200 channels. Intelligent adaptive matching algorithm continuously monitors any significant variations of standing wave ratio and readjusts matching circuit to VSWR 1.3:1 or less at every new tune. This ensures operation of HF-transceiver at full power at all time.

## SENSITIVE TO WEAK SIGNALS

In Scan or Free Tune mode a wideband receiver amplifier is activated that makes the 9300 antenna sensitive to even weakest signals over entire frequency range. This assures crystal clear reception and faster connection in ALE data modes.

## LOW COST SETUP & MAINTENANCE

With built-in self-test (BIST) and PC-aided CPS9300 Configuration & Diagnostic software, the 9300 antenna also sets new standards in user service. Maintenance intervals and self-diagnostic reports can now be downloaded right from antenna. The same CPS-9300 software is regularly updated on-line for customized firmware options and availability of new mounting brackets, installation kits and pre-fabricated cable length options.

## GENERAL SPECIFICATIONS

Frequency Range	1.5 to 30MHz Transmit, 100KHz-88MHz Receive
Power Rating	125W PEP CW/DATA, 200W PEP SSB Voice
VSWR	Typical ≤ 1.3:1, 50Ω Average
Tuning Speed	New CH: 0.13 sec (min.), 1.5 sec (max.) Memory CH: 0.25 sec average
Memory Channels	200 RAM, 200 EEPROM
Tune Power	External 3-30W PEP (3-200W in Smart Tune)
DC Operating Range	10-16V DC (10-32V opt 9300.B33.100) from transceiver or battery
Power Consumption	2.2 A tuning, 85-140 mA static
Integral Wide Band Amplifier	Gain 3 dB, IP <sup>3</sup> ≥ 26dBm
Interface	UHF socket MIL-DTL501, 8 pin/ USB / 3xTTL/UART/RS-485
Protection	Reverse polarity, short circuit, lightning, Induced RF Power over voltage, over temperature
Operating Temperature Range	-40°C to +70°C
Environmental	Meets MIL-STD-810G, Shock (516.6), Vibration(514.6), IP 68 Immersion 1.2m/1h
Wind Rating	58m/s=210km/h (130 M/h)
EMC/EMI	Meets MIL-STD-461, IEC/EN 61000
Mounting	M16x45mm stud
Weight and Dimensions	5.4 kg, 105x105x840(2490)mm
Color	Black / Military Green

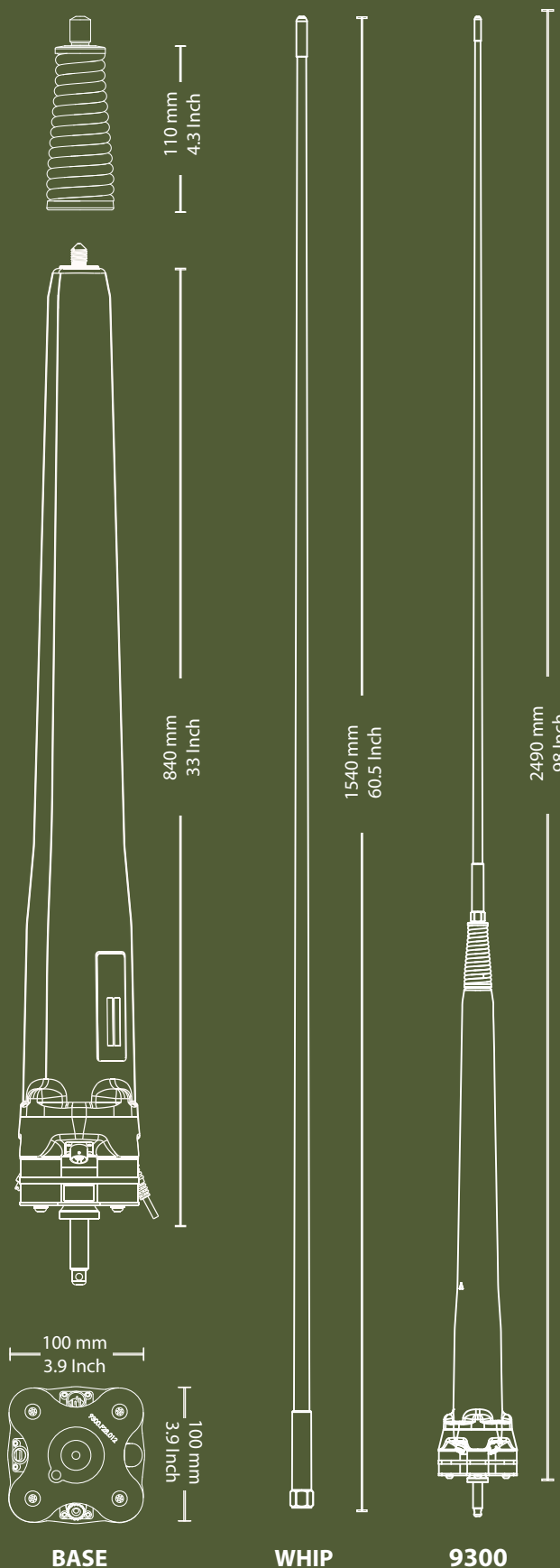
## STANDARD PACKAGE

- 9300.B36.000 Antenna Main Assembly
- 9300.B35.005 M14F Fiberglass Whip
- 9300.M28.015 M14FxM14M Spring
- 9300.B17.060 Control Cable, 5.5m\*
- 9300.B17.061 Coaxial Cable, 6m\*
- 9300.B17.005 Default Adaptor Cable 0.5m\*
- 9300.C48.001 Installation kit (Includes CPS9300 CD & USB Cable and Installation Guide)

## OPTIONAL ACCESSORIES

- 9300.B35.020 1.2m Emergency Whip
- 9300.B35.080 NVIS Kit
- 9300.B33.100 NATO Converter
- 9300.B28.003 NATO Base Adaptor

\*. Control Cable length options and appropriate transceiver Adaptor Cable must be specified when ordering. Wide range of optional installation accessories is available in separate catalogue.



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