

# STEALTH 9360

AUTOMATIC TUNING WHIP ANTENNA

# 9360

## KEY FEATURES

- Continuous 1.6 to 30 MHz coverage
- 125W CW/DATA, 200W PEP SSB
- Highest-in-class radiation efficiency
- 0.35 sec fast automatic tuning
- Sensitive to weakest signals over entire HF band
- Supports Automatic Link Establishment (ALE)
- Compatible with all existing HF transceivers
- Rugged design



## APPLICATIONS

The Stealth 9360 Automatic Tuning Whip Antenna is designed for maximum efficiency and reliability in demanding mobile operations where failure of communication is not an option. Typical applications are:

- |                      |                               |                                 |
|----------------------|-------------------------------|---------------------------------|
| <b>Peace Keeping</b> | <b>Emergency Response</b>     | <b>Hunting &amp; Expedition</b> |
| <b>Border Patrol</b> | <b>Rescue &amp; Ambulance</b> | <b>Mining, Oil &amp; Gas</b>    |

## INDESTRUCTIBLE DESIGN

Stealth 9360 antenna housing is moulded from fiberglass reinforced nylon. The die cast aluminium antenna base incorporates heavy duty anti-vibration rubber mounts. Rugged and impervious to dust and water ingress, the 9360 meets or exceeds requirements of MIL-STD-810 assuring reliable operation in all terrain and climatic zones.

## FLEXIBLE INTERFACE

Unlike other antennas compatible with specific transceivers only, the 9360 is designed for flexible interfacing with virtually any HF radio. With the supplied CPS-9300 Antenna Configuration Software and USB cable the 9360 antenna can easily be programmed via a PC for flawless operation with any analogue or digital HF radio, including those not equipped with any specific tuner interface.

## FULL HF BAND COVERAGE

Stealth 9360 is the only automatic tuning whip antenna featuring continuous frequency coverage over entire 1.6-30MHz HF band and is fully matched with specifications of a typical HF transceiver. The 9360 allows full NVIS frequency coverage permitting maximum utilization of transceiver capability.

## HIGH POWER HANDLING

With extremely low insertion loss RF circuit, the 9360 is best-in-class mobile antenna capable for high duty cycle RF power handling required for long session of voice, fax and data transmission.

## LIGHTNING FAST TUNING

The 9360 antenna incorporates microprocessor controlled stepper inductor which rapidly (0.35sec 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 typical 125W mobile 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 9360 antenna sensitive to even weakest signals over entire frequency range. This assures crystal clear reception and faster connection in ALE mode.

## SIMPLE FOR INSTALLATION

The 9360 antenna is implemented in self-contained and compact form factor that simplifies mounting on all type of vehicles. Installation is supported through wide selection of mounting brackets, installation kits and cable length options which can be selected from CPS-9300 software regularly updated on-line. Comprehensive technical support is also available from Stealth Telecom Help Desk and Authorised Service Centres.

## GENERAL SPECIFICATIONS

Frequency Range	1.6 to 30MHz Transmit, 100KHz-54MHz Receive
Power Rating	125W PEP CW/DATA, 200W PEP SSB Voice
VSWR	Typical≤1.3:1, 50Ω
Tuning Speed	New CH: 0.16 sec (min.), 1.8 sec (max.) Memory CH: 0.35 sec average
Memory Channels	200 RAM, 200 EEPROM
Tune Power	External 3-30W PEP (3-200W in Smart Tune)
DC Operating Range	10-16VDC, 12 V nominal from transceiver or battery
Power Consumption	1.8 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
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	5.2 kg, 100x100x840(2490)mm
Color	Black

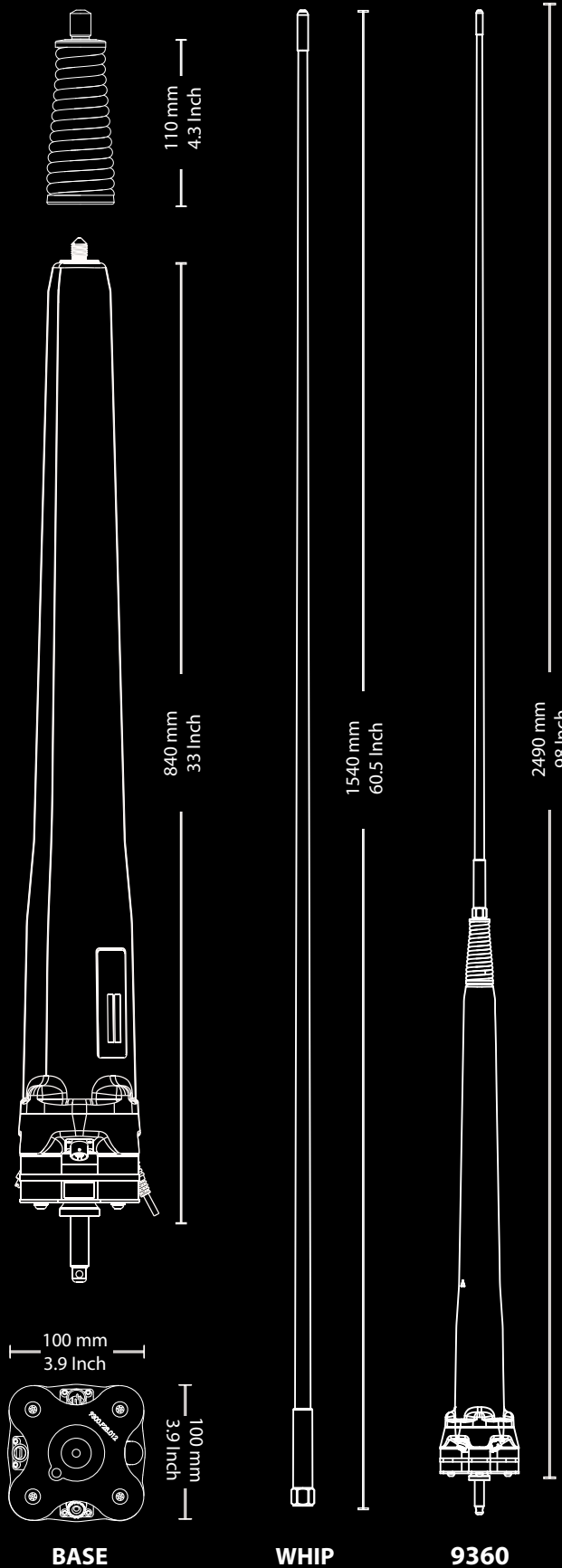
## STANDARD PACKAGE

- 9300.B36.000 Antenna Main Assembly
- 9300.B35.005 M14M 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

\*- 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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