

# 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 HF transceivers
- Rugged design



## APPLICATIONS

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 artificially aged fiberglass reinforced nylon. The die cast aluminium antenna base incorporates heavy duty anti-vibration rubber mounts and military grade connectors. 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 the 9360 is designed for flexible interfacing with virtually any HF radio. Channel data is obtained from the transceiver via RF-cable using an internal frequency counter or received in digital format via RS-485 line. 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 mobile whip antenna featuring fully automatic tuning over entire 1.6-30MHz HF band permitting maximum utilization of multichannel HF transceiver specifications and available spectrum resources. With outstanding RX and TX performance and extremely fast tuning, communication from the 9360 mobile antenna resembles operation from a broadband HF-dipole.

## HIGH POWER HANDLING

With extremely low insertion loss RF circuit, the 9360 is best-in-class mobile antenna capable of 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 (average 0.35sec) 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 re-adjusts 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 making 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 compact self-contained form factor that simplifies mounting on all type of vehicles. Installation is facilitated through wide selection of mounting brackets, installation kits and cable length options which can be selected from CPS-9300 software regularly updated on-line. Technical support is provided by Stealth Telecom Help Desk and Authorised Service Centres.

## GENERAL SPECIFICATIONS

Frequency Range	1.6 to 30MHz Transmit, 100KHz-54MHz Receive
Power Rating	125W 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, 12V 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 +60°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

*Note: Specifications may change without prior notice. Please verify updated specifications on order.*

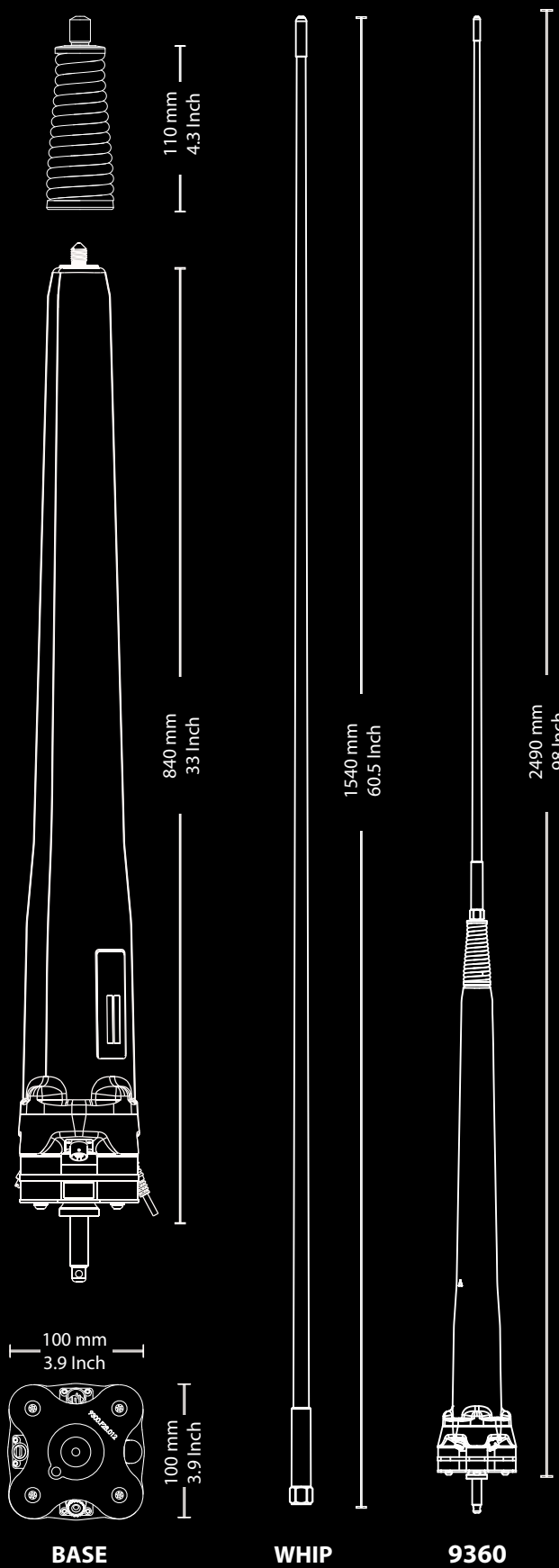
## STANDARD PACKAGE

- 9300.B36.060 Antenna Main Assembly
- 9300.B35.005 FG1540B Whip
- 9300.M28.015 CS110B Spring
- 9300.B17.060 SEAC Control Cable, 5.5m\*
- 9300.B17.061 RF 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.B35.120 SS1200E Emergency Whip
- 9300.B35.080 FG4200B 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.



**BASE WHIP 9360**

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