

STEALTH 9310

AUTOMATIC TUNING HF ANTENNA

9310



MILITARY TECHNOLOGY FOR HAMs

- Continuous 1.8 to 30 MHz coverage
- Highest-in-class radiation efficiency
- 125W CW/DATA, 200W PEP SSB
- 0.5 sec Fast Automatic Tuning
- Sensitive to weakest signals
- Online Firmware Upgrade
- Durable and Submersible





DEVOTED TO HAM RADIO

Stealth 9310 Automatic Tuning Whip Antenna is a lower cost version of Type 9300 military antenna systems internationally acclaimed for their outstanding performance and reliability in demanding professional mobile operations. Affordably priced yet meeting most military specifications, the Stealth 9310 antenna is the unprecedented example when brand new military grade equipment is made available to Radio Amateurs.

INTEGRAL CONSTRUCTION

Outperforms ALL mobile whips with relays, automatic tuners, custom fit loading coils and manual tap wires!

The 9310 is effectively a centre loaded monopole radiator that provides substantially greater radiation resistance compared to base loaded antenna-and-tuner combination typically used in mobile HF installations. The 9310 antenna consists of two collapsible sections. Serving as RF-insulated enclosure and robust mechanical support for the radiating whip section, the upper part of radiating column section incorporates high-Q stepper inductor driven by highly precise, fast and reliable micro controller operated belt drive. Electrically clean RF-path and optimal RF-current distribution reduces severity of operating conditions for all RF-components and materials. This assures significant increase of radiation efficiency and reliability of the 9310 antenna.

SOFTWARE AIDED INTERFACE

Set it and forget Up-Down push button tuning to maximum noise for minutes. PTT and drive safely!

Unlike other antennas, 9310 features flexible interfacing with any HF radio without auxiliary antenna tuners. Channel data from the transceiver is obtained via RF-cable using an internal frequency counter or received in digital format via control cable. With the supplied CPS-9300 Antenna Configuration Software and USB cable, the 9310 antenna can easily be programmed via a PC to operate correctly with any HF transceiver. In Smart Tune mode selected the 9310 can operate even with radios not equipped with any specific tuner interface. Wide selection of transceiver-antenna adaptor cable options facilitates plug-and-play connection with all known transceiver brands. New transceivers are supported at no charge via timely on-line software releases.

ALL HF AMATEUR BANDS COVERAGE

Tune from ANY previous to ANY new frequency in entire 160-10m in just 0.5 sec!

Stealth 9310 is the only mobile whip antenna featuring fully automatic tuning over entire 1.8-30MHz HF band permitting maximum utilization of any radio amateur HF transceiver specifications and available spectrum resources. With outstanding RX and TX performance and lightning fast tuning, operation from the 9310 mobile antenna resembles operation from a broadband HF-dipole.

HIGH RADIATION EFFICIENCY

Use maximum RF power available from your transceiver!

With an extremely low insertion loss RF circuit, the 9310 is the best-in-class mobile antenna capable of a high duty cycle RF power handling required for intensive voice and data communication. Intelligent tuning and matching algorithm continuously monitors any significant variations of surrounding conditions and re-adjusts matching circuit to Standing Wave Ratio 1.3:1 or less. This ensures that HF-transceiver does not activate its power amplifier protection system and operates at full specified RF power during QSO.

RUGGED DESIGN

Force waters, cross woods, ride off-road, any season, any climate while engaging in a QSO!

The Stealth 9310 antenna lower section is molded from fiberglass reinforced nylon stabilized by artificial aging treatment. The die cast aluminum 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 9310 antenna is immune to temperature variations assuring long term stable and reliable operation in all terrain and climatic zones.

EASY STRAIGHT FORWARD INSTALLATION

Install 9310 on a vehicle, boat, roof top, balcony handrails or in the garden!

The 9310 antenna is implemented in compact self-contained form factor. It is intended for installation on all type of vehicles or use in base station applications. 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. Comprehensive technical support is available from Stealth Telecom Help Desk and Authorized Service Centers.

GENERAL SPECIFICATIONS

Frequency Range	1.8 to 30MHz transmit and receive
Power Rating	125W CW /Data, 200W PEP SSB (Voice)
VSWR	Typical $\leq 1.3:1$, 50 Ω
Tuning Speed	New CH: 0.4 sec (min.), 1.8 sec (max.) Memory CH: 0.5 sec average
Memory Channels	200 RAM, 200 EEPROM
Tune Power	External 3-30W PEP (3-200W in Smart Tune)
DC Operating Range	11-15VDC, 12V nominal from transceiver
Power Consumption	1.4 A tuning, 85-140mA stand by
Connections	UHF socket /MIL-DTL5015 8-pin /Mini-USB
Interface Arrangement	3xTTL lines/ UART/RS-485
Protection	Reverse polarity, short circuit, over voltage, over temperature
Operating Temperature Range	-25°C to +50°C
Environmental	Meets MIL-STD-810G, (Shock dust and vibration) IP 68 (Immersion 1.2m/1h)
Wind Rating	50m/s=180km/h=125 mph
EMC/EMI	IEC/EN 61000
Mounting	M16x45mm stud
Weight and Dimensions	5.1 kg, 100x100x840(2490)mm / 4x4x33(98)inch
Color	Black

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

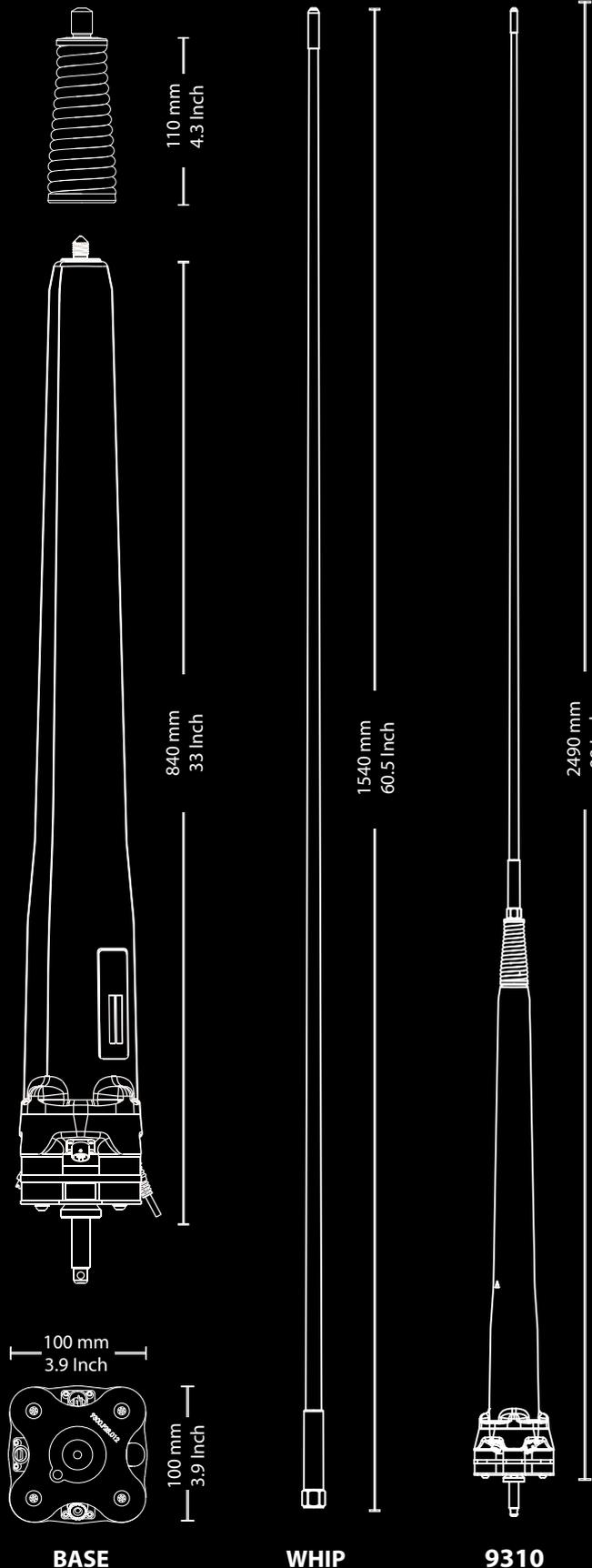
STANDARD PACKAGE

- 9300.B36.010 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.C48.010 Programming 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 9310

Distributed by:

Stealth Telecom FZC
P.O. Box: 7755, Sharjah, UAE
Tel: +971 6 5575586
Fax: +971 6 5575481
e-mail: sales@stealth-tele.com