
Model – Alpha DX EMCOMM Antenna

Operating Manual, Version 1.3, April 11, 2020

Overview

The Alpha DX EMCOMM is designed to operate from 10 through 80 meters as a capacity hat antenna. It is rated at 250W PEP SSB, 100W CW, and 50W Digital (25W Digital if 'always on').

Operation

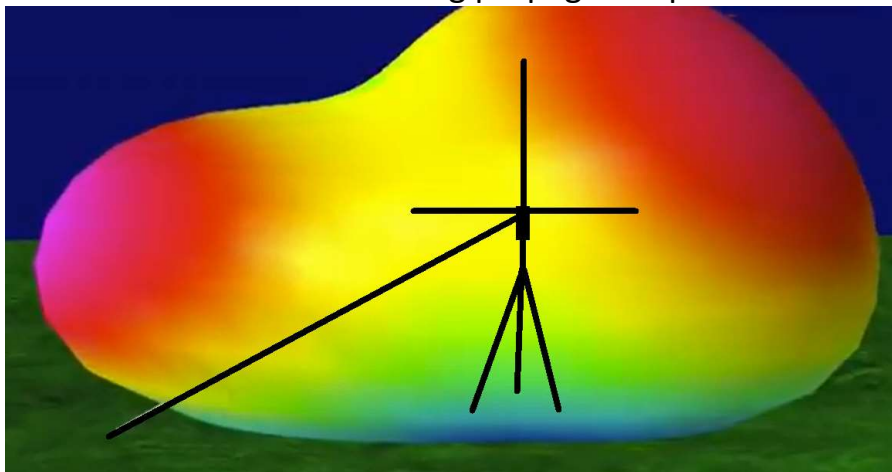
The DX EMCOMM Antenna is an ultra-portable multiband and multipurpose HF antenna that fits in an included Field Bag. This system requires no moving clips on coils or readjusting of whips for tuning. An integrated leveling bubble enables precise spatial alignment of all elements, resulting in equal take-off angles. You may also use an external antenna tuner if your antenna is installed over a poor ground or not placed in a clear area.

Excess RF Exposure Warning

In the United States, the Federal Communications Commission has established guidelines for human exposure to Radio Frequency (RF) electromagnetic fields. The commission's requirements are detailed in parts 1 & 2 of the FCC's rules and regulations {47 CFR, 1.1307(b), 1.1310, 2.1091, 2.1093}. It is the responsibility of the owner/operator of this device to follow all applicable warnings and precautions regarding human exposure to RF fields. Additional references: <http://www.arrl.org/rf-exposure>

Site Selection/Propagation

Place in a center of a clear area for the following propagation pattern.



α ALPHA ANTENNA®

Assembly

A) Locate then assemble the Alpha Match and Tripod: Screw the Alpha Match onto the Tripod (A), taking care not to cross-thread either one.

B) Locate and install the four black 26 inch MilStick elements, and screw each hex nut onto the bolts (B).

C) Locate the 12 foot Counterpoise wire & secure the ring connector over the bolt (C) with the loose hex nut.

C.1) Proper placement of 12 foot Counterpoise is so that it is run above one of the tripod legs, otherwise the system will tip over. This is a Counterpoise, so please ensure this wire slopes away from the antenna and **isn't** laid on the ground, before staked.

D) Locate and install the one black 26 inch MilStick element, to the top bolt of the Alpha Match (D to D).

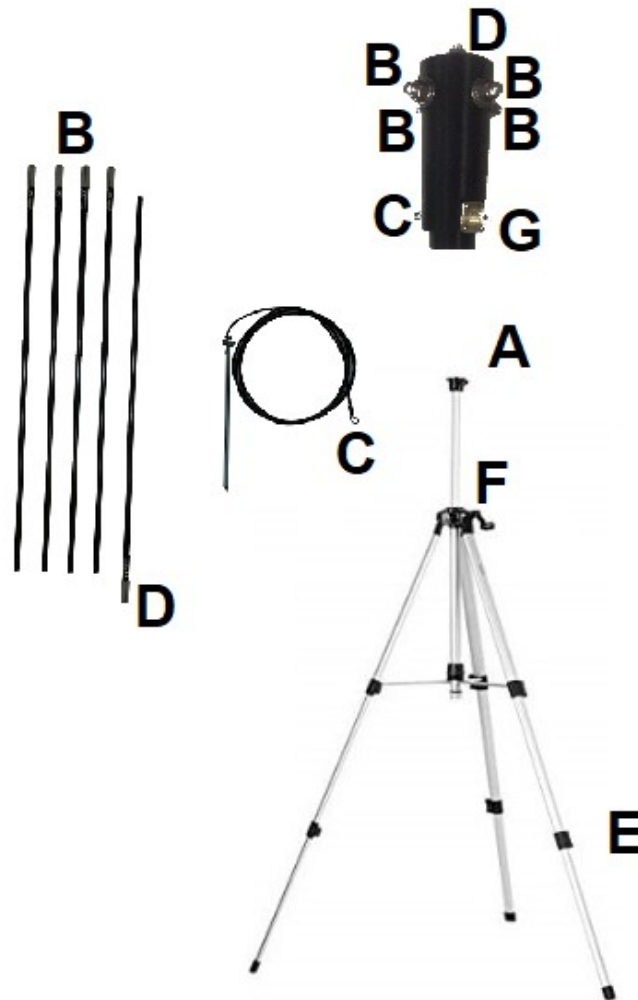
E) Extend the Legs (E) on the Tripod, and secure each with the locking mechanism.

E.1) Extend and stake the NVIS elements into the ground with the included aluminum stake.

F) Rotate the Crank (F) till the mast is fully extended, & tighten the set screw.

G) Connect your coax to your equipment first and then to the SO239 (G), and ensure that it does not coil up on itself or touch the elements.

OPTIONAL GUYING: At the users discretion, user supplied guy ropes can be placed at the base of the extended mast (Ref. 'F').



MECHANICAL SPECIFICATIONS

STORED DIMENSIONS: 31 x 7 x 7 inches

DEPLOYED HEIGHT: 7 ½ FEET
DEPLOYED WIDTH: 4 FEET 8 INCHES
COUNTERPOISE: 12 FEET

WEIGHT: 128 OUNCES