



*"Alpha Antenna uses antenna designs that are known to work!"*

# Alpha Antenna

Model - DX Jr

10-80 Meters

**USER GUIDE**

**V1.1**

**June 8, 2014**

# **α**ANTENNA

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## **Introduction**

The ultra high-performance DX Jr antenna for 600 Watts PEP offers coverage for 10-80 Meters.

## **Technical Specifications**

- Weight: 6 pounds
- Configuration: Vertical
- Frequency Coverage: 3.5 to 29.7 MHz
- Power Rating: 600 Watts PEP



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## Installation Safety

**WARNING: INSTALLATION OF THIS PRODUCT NEAR POWER LINES IS DANGEROUS! FOR YOUR SAFETY, FOLLOW THE ENCLOSED INSTALLATION DIRECTIONS. THOUGH THIS ANTENNA IS CONSTRUCTED OF INSULATED WIRE, PROPER CARE MUST BE TAKEN DURING INSTALLATION. INSTALLER ASSUMES ALL LIABILITY FOR PROPERTY AND LIFE SAFETY.**

### **YOU, YOUR ANTENNA, AND SAFETY**

Each year, hundreds of people are killed, mutilated, or receive severe and permanent injuries when attempting to install an antenna. In many of these cases, the victim was aware of the danger of electrocution, but did not take adequate steps to avoid the hazard. For your safety, and to help you achieve a good installation, please **READ** and **FOLLOW** the safety precautions below.

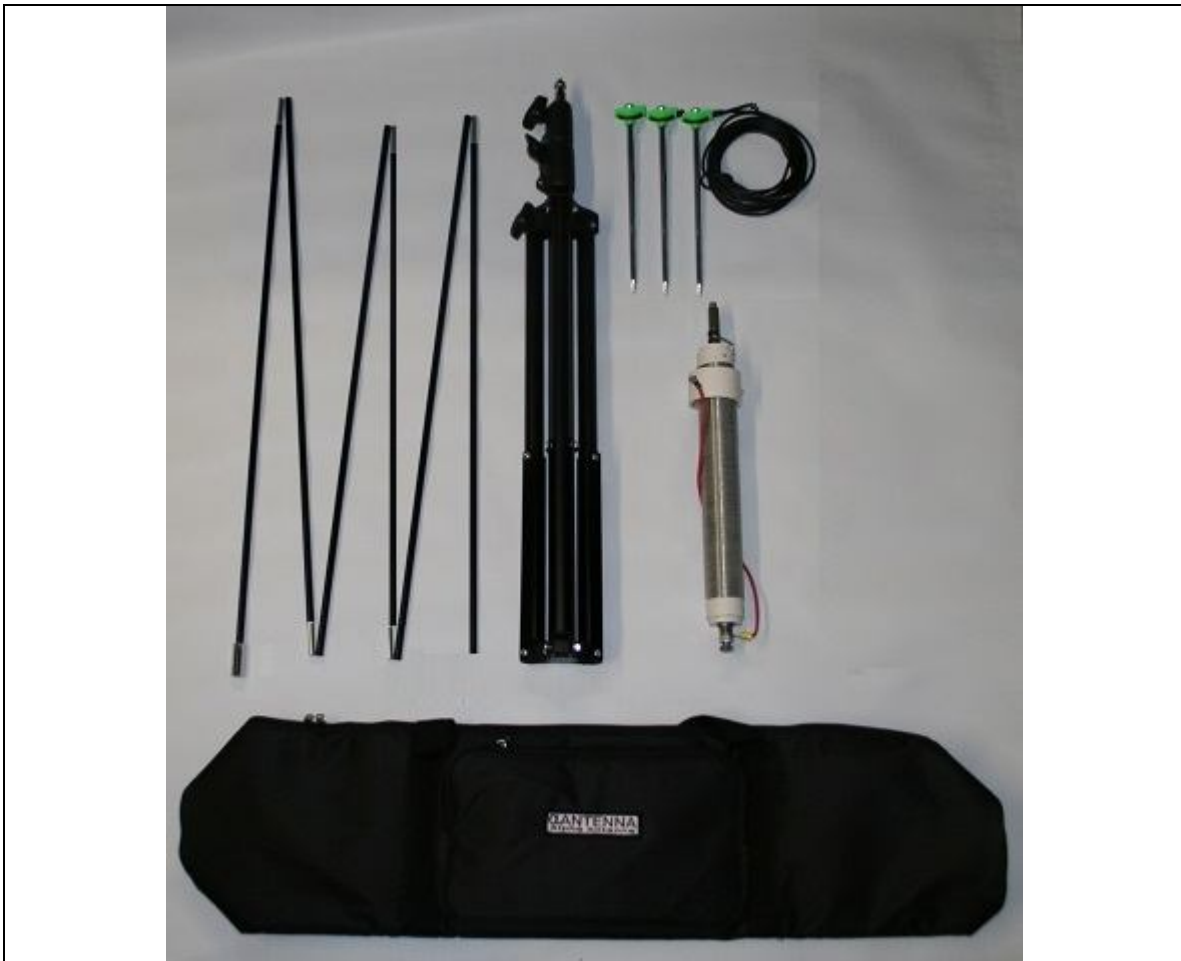
**THEY MAY SAVE YOUR LIFE!**

1. If you are installing an antenna for the first time, please, for your own safety as well as others, seek PROFESSIONAL ASSISTANCE.
2. Select your installation site with safety, as well as performance, in mind. (Detailed information in Site Selection appears in a separate section of this booklet.) **REMEMBER: ELECTRIC POWER LINES AND PHONE LINES LOOK ALIKE. FOR YOUR SAFETY, ASSUME THAT ANY OVERHEAD LINES CAN KILL YOU.**
3. Call your electric power company. Tell them your plans and ask them to come take a look at your proposed installation. This is a small inconvenience, considering **YOUR LIFE IS AT STAKE.**
4. Plan your installation procedure carefully and completely *before* you begin. Successful raising of a mast or tower is largely a matter of coordination. Each person should be assigned a specific task, and should know what to do and when to do it. One person should be designated as the leader/coordinator of the operation to call out instructions and watch for signs of trouble.
5. When installing your antenna, **REMEMBER: DO NOT USE A METAL LADDER. DO NOT WORK ON A WET OR WINDY DAY. DO DRESS PROPERLY:** shoes with rubber soles and heels, rubber gloves, long sleeved shirt or jacket.
6. If the assembly starts to drop, get away from it and let it fall. Remember, the antenna, mast, cable and metal guy wires are all excellent conductors of electrical current. Even the slightest touch of any of these parts to a power line completes an electrical path through the antenna and the installer – **THAT'S YOU!**
7. If ANY PART of the antenna system should come in contact with a power line, **DON'T TOUCH IT OR TRY TO REMOVE IT YOURSELF. CALL YOUR LOCAL POWER COMPANY.** They will remove it safely. If an accident should occur with the power lines, call for qualified emergency help **IMMEDIATELY.**

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## Antenna Installation



Step 1 – Mount tripod on a flat stable surface and loosen leg brace knob, extend legs, and slightly tighten leg brace knob.

Step 2 – Secure the three counterpoise wires by placing the ring connectors over the bolt on the top of mast mount and secure the ring connectors with the included nuts. Extend the counterpoise wires and insert the weighted metal stakes into the ground or lay these on the ground to hold the wires out and away from the tripod.

Step 3 – Screw the Alpha Coil and Mil-Stick whip extended for the proper band onto the perch, then install these on top of the top of mast mount.

Step 4 – Attach coax to the SO-239 and match the system for the frequency you wish to use under the instructions below, "SWR Performance & Tuning".

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## SWR Performance & Tuning

To tune your antenna, follow the chart below to determine the number of Mil-Stick elements to deploy for the band you intend to use. Then tune your coil by simply sliding the tuning coupler up and down the coil until you hear the maximum noise or signal coming from your speaker. You can then fine-tune your antenna for lowest the SWR using the Nylon bolt. You may at this point lock down the tuning coupler to maintain your low SWR even in high winds.

<b>BAND</b>	<b>ELEMENTS TO DEPLOY</b>
30 through 80 Meters	All 6 elements on the Mil-Stick deployed.
12 through 20 Meters	3 elements of the Mil-Stick deployed and with the top section of the Mil-Stick whip folded down and held in place with the included Velcro.
10 Meters	2 elements of the Mil-Stick deployed and with the top two sections of the Mil-Stick whip folded down and held in place with the included Velcro.



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### Have Other Questions?

If you have questions about your antenna, please feel free to contact us.

### Support

Email: [support@alphaantenna.com](mailto:support@alphaantenna.com)

Phone: 1-888-482-3249

WEB: [www.alphaantenna.com](http://www.alphaantenna.com)

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### NOTES