



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

## Alpha Antenna

Model - ProMaster

6-160 Meters

1 KW

Portable/Base

Alpha ProMaster Antenna

**USER GUIDE**

**V1.1**

**October 17, 2012**

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## **Introduction**

Thank you for purchasing the Alpha ProMaster Antenna, a complete 1KW deployment system including antenna system, tripod, & mount for Portable or Temporary Emergency Deployment, Field Operations, Apartment/Condo Residents, or HOA's.

The heavy duty whip plus the additional radiating elements provide you with a total combined length of a  $\frac{1}{4}$  wave 160 meter antenna system. The Alpha ProMaster Antenna is engineered with an 6  $\frac{1}{2}$  foot tripod that is made out of aluminum, which is designed to be your counterpoise system and includes a standard SO239 mount where for the Alpha Match, under which you simply attach your coax.

Frequency Coverage - 6 through 160 Meters

## **Technical Specifications**

- Weight: 4 pounds
- Configuration: Quad "L" configuration
- Frequency Coverage: 1.8 to 55 MHz
- Power Rating: 1KW PEP - 20 Watts required to efficiently operate the solid state Alpha Match tuner.
- Height: Approximately 17 Feet with tripod
- Horizontal element/guy wire: Approximately 30 Feet each



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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

	<p>Step 1 – On the tripod loosen leg brace knob, extend legs, and slightly tighten leg brace knob</p> <p>Step 2 – Mount tripod on a flat stable surface</p> <p>Step 3 – Fully extend the horizontal wire elements and secure them with the included stakes</p> <p>Step 4 – Assemble then screw the whip into the tripods mount</p> <p>Step 5 – Attach the Alpha Match to the bottom of the tripods mount</p> <p>Step 6 – Attach your coax to the SO-239 on the Alpha Match</p>
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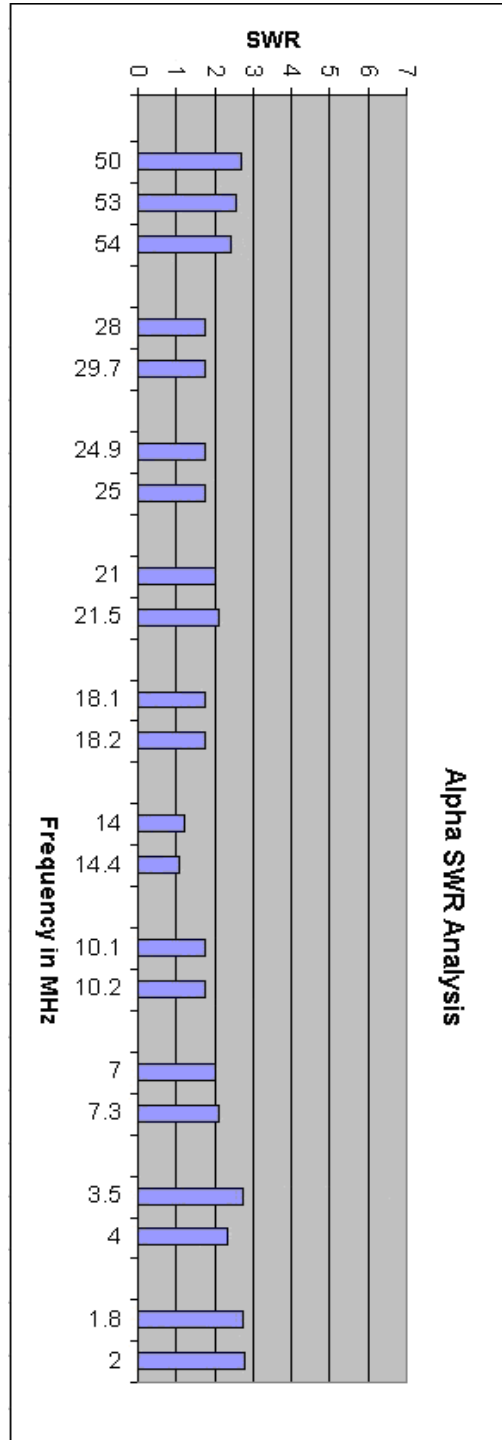
NOTE – Additional Radials or Counterpoise wires should not be used with the antenna system. All components of the antenna system are designed to exacting standards for high performance, including the tripod, which is designed to be your counterpoise system. We advise that you guy the antenna system with the included radiating elements.

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## SWR Performance

SWR results may vary; however, you can expect an SWR from 1.1:1 to 2.7:1 on 6-160 Meters when properly deployed. An additional antenna tuner may be used to lower SWR is desired.





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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

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