



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

Alpha Antenna

Model - Vertical

750 Watts

USER GUIDE

V1.6

August 25, 2014



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Introduction

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

The total height of the entire antenna system is approximately 17 feet in height. Included is a Mil-Stick whip composed of 21 inch aluminum sections that fit together with heavy duty shock cord and a 24 x 2/8 stud. The tripod has been designed to be your counterpoise system (to which you can add our Counterpoise Kit or your own wiring for even greater performance). Also included is a standard mount where there is a UHF connector that you simply attach the Alpha 750 Watt Match, Mil-Stick whip, and four active horizontal elements.

Frequency Coverage – Excellent performance on 6 through 40 Meters and tunable/usable on 80 meters.

Alpha Antenna uses antenna designs that are known to work! Designed by Amateur Radio Operators at Alpha Antenna, in conjunction with a Certified Commercial Broadcast Engineer, the Alpha Vertical Antenna uses the best antenna designs in one antenna system.

Technical Specifications

- Weight: 12 pounds
- Configuration: Vertical
- Total Height with tripod: Approximately 19.5 feet
- Frequency Coverage: 3.5 to 54 MHz
- Power Rating: 750 watts PEP SSB



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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

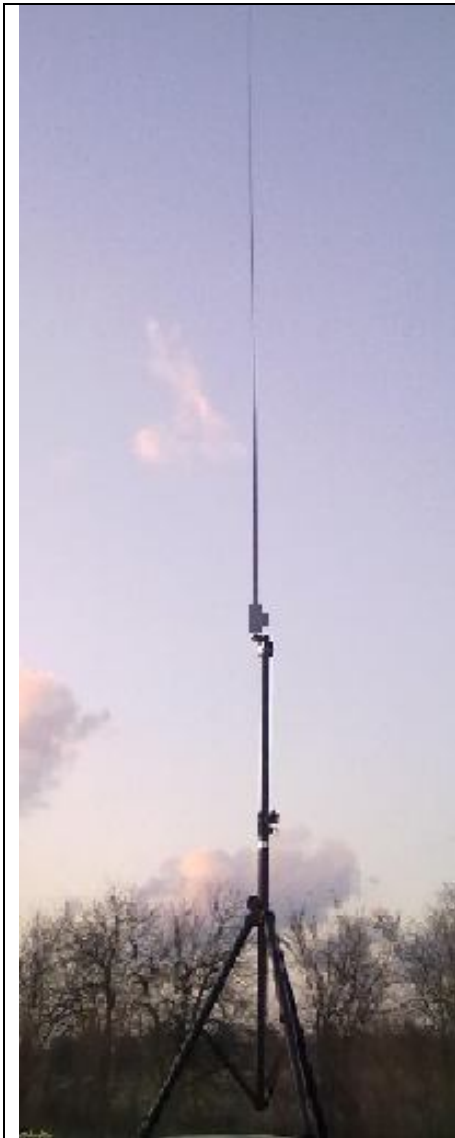
Each year, hundreds of people are killed, mutilated, or receive severe and permanent injuries when attempting to install an antenna. In many of these cases, the victim was aware of the danger of electrocution, but did not take adequate steps to avoid the hazard. For your safety, and to help you achieve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

Step 2 – Loosen leg brace knob, extend legs, and slightly tighten leg brace knob.

Step 3 – If optional “Counterpoise Kit” is being used, insert Ring connector onto the bolt at the base of the Alpha Match and secure it in place with the Mast Adapter.

Step 3 – Attach the Alpha Match to the tripod’s mast with the Mast Adapter.

Step 4 – Assemble then screw the whip onto the Alpha Match.

Step 6 – Attach coax to the SO-239 on the Alpha Match. Do not allow your coax to become coiled upon itself as it will then form a choke balun can detune the antenna.

Step 7 – Loosen mast section knob(s) & carefully extend mast till mount is at a height of 6 feet 6 inches, then tighten mast section knob(s).

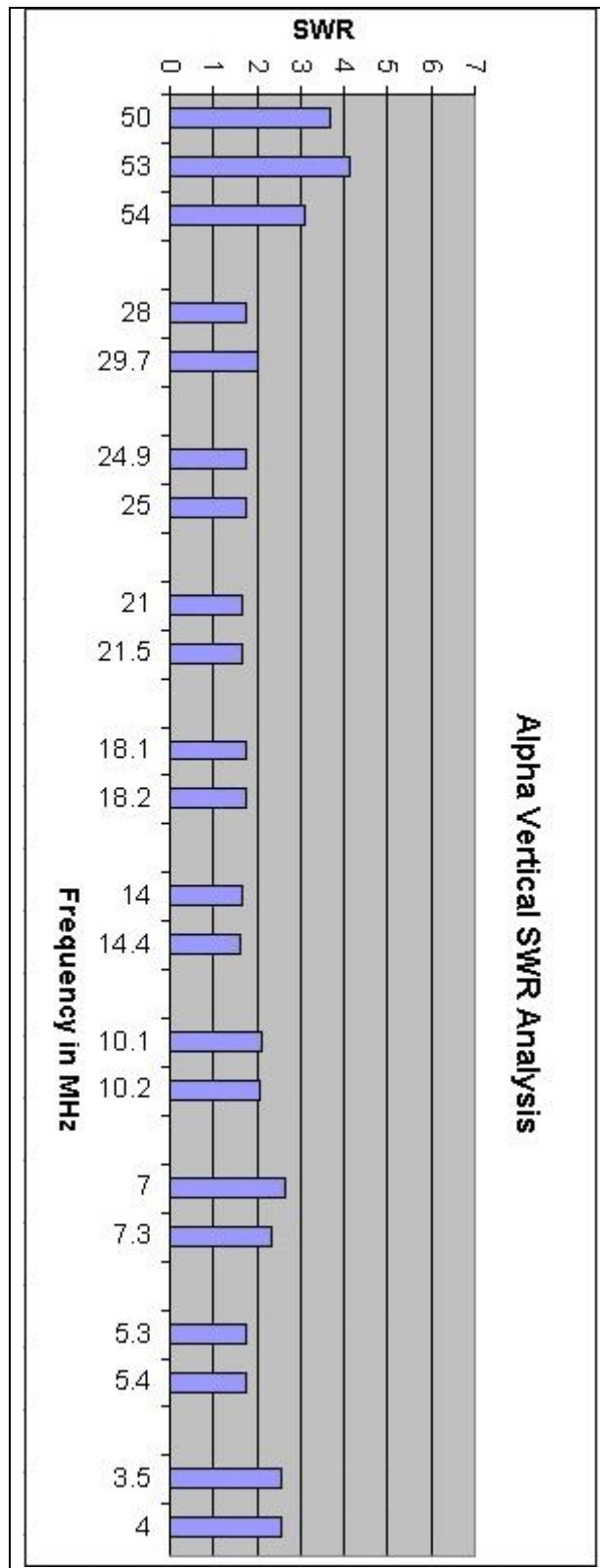
Step 8 – Place the four stakes in the ground from the optional “Counterpoise Kit”.

Tip – Counterpoise can help the performance of any vertical antenna but are not required for the Alpha Antenna to function. If they are used to enhance performance, then we recommend you use our Counterpoise Kit or your own wire run affixed with ring connectors affixed in the manner described above, utilizing four 15 foot or longer 16, 14, or 12 gauge wires

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SWR Performance





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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

Phone: 1-888-482-3249

WEB: www.alphaantenna.com