



Universal Guying System
(CHA UGS)
Operator's Manual

Nevada - USA

WWW.CHAMELEONANTENNA.COM



VERSATILE – DEPENDABLE – STEALTH – BUILT TO LAST

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WARNING! Never mount this, or any other antenna near power lines or utility wires! Any materials: ladders, ropes, or feedlines that contact power lines can conduct voltages that kill. Never trust insulation to protect you. Stay away from all power lines.



WARNING! Never operate this antenna where people could be subjected to high levels of RF exposure, especially above 10 watts or above 14 MHz. Never use this antenna near RF sensitive medical devices, such as pacemakers.

Photographs and diagrams in this manual may vary slightly from current production units due to manufacturing changes that do not affect the form, fit, or function of the product.

All information on this product and the product itself is the property of and is proprietary to Chameleon Antenna™. Specifications are subject to change without prior notice.

Introduction

Thank you for purchasing and using the Chameleon Antenna™ Universal Guying System (CHA UGS). It was specifically developed to provide support for the CHA MIL WHIP and CHA MIL EXT portable vertical antenna used in the Modular Portable Antenna System (MPAS), but was also designed to enable guying of almost any portable vertical antenna with a diameter of 3/8" or less and a height of no greater than 20 feet.

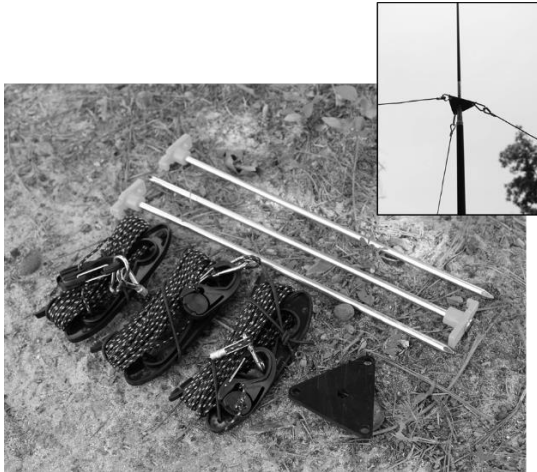


Plate 1. UGS Components.

Guying your portable vertical antennas is necessary for two reasons: first, to enable the antenna to be free-standing and second, to prevent material fatigue caused by excessive swaying in the wind.

The CHA UGS is flexible, lightweight, and very easy to setup. The components of the system, see plate (1), are: a delta-shaped insulating guy ring, three 15" ground stakes, and three 25-foot lengths of 1/8" ultra-low stretch, abrasive-resistant, non-conductive guy line on line winders. Antennas built by Chameleon Antenna™ are versatile, dependable, stealthy, and built to last. Please read this operator's manual so that you may maximize the utility you obtain from your CHA UGS.

Parts of the UGS

The CHA UGS is comprised of the following components, see plates (2) and (3):

- a. Delta Guy Ring
- b. Ring Guy Holes
- c. Center Hole
- d. Stake
- e. Stake Guy Hole
- f. Line Winder
- g. Guy Line
- h. Carabiner
- i. Line Tensioner Hook

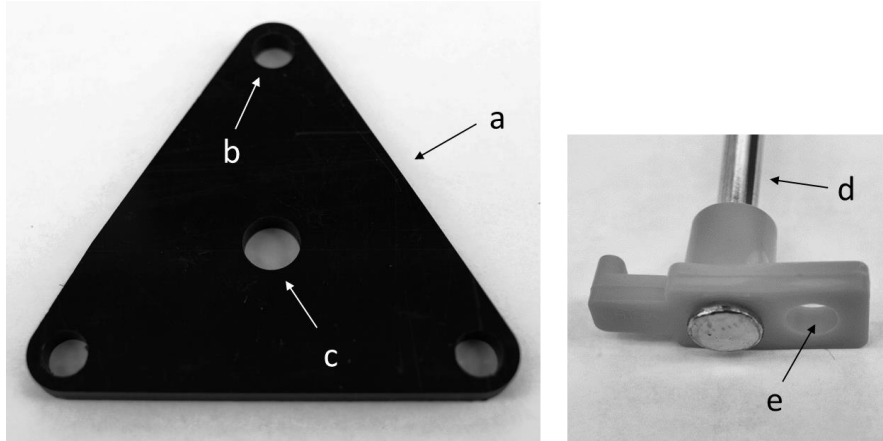


Plate 2. Delta Guy Ring (left) and Stake (right).

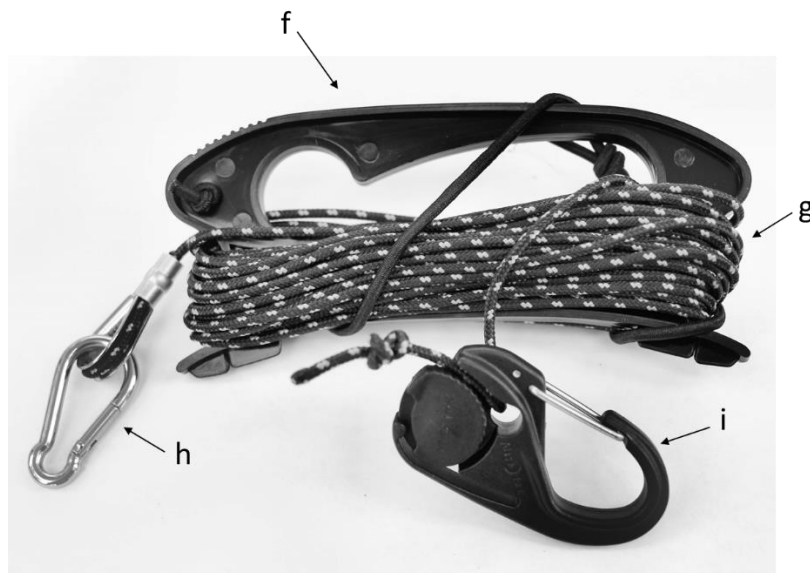


Plate 3. Guy Line Assembly.

Installation Procedure

Installing the CHA UGS is quick and easy. Perform the following steps to install the CHA UGS.

1. If using the CHA MPAS, install the Delta Guy Ring (a) between the CHA MIL WHIP and the CHA MIL EXT, though the Center Hole (c), replacing the nylon washer normally used, as shown in Plate (4). For other vertical antennas slide the Delta Guy Ring over the top of the antenna.
2. Connect the Carabiners (h) attached to the Guy Lines (g) to the Ring Guy Holes (b) on the Delta Guy Ring.
3. Unwind the Guy Lines from the Line Winders (f).
4. Secure the Line Winders so they do not get lost.
5. Raise the vertical antenna.
6. Measure 8 – 10 feet from the base of the vertical antenna.
7. Drive a Stake (d) into the ground, at approximately a 30-degree angle tilted away from the vertical antenna. Leave around two inches of the Stake above the ground.

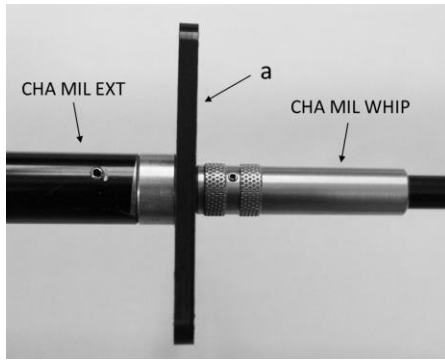


Plate 4. Delta Guy Ring Installation.

8. Attach the Line Tensioner Hook (i) to the Stake through the Stake Guy Hole. The hook should come through the Stake Guy Hole from underneath, as shown in Plate (5).
9. Take in most of the slack in the Guy Line, but do not secure the Guy Line.
10. Repeat steps (6) – (9) for the other two Guy Lines. The Guy Lines should form a “Y” with around 120 degrees between them.
11. Take up the remaining slack and secure each Guy Line to the Line Tensioner Hooks by pulling the Guy Line straight back so the Guy Line slips into the channel and is locked in by the knurled spring clamp. *Plate (3) shows the Guy Line in the*

proper position in the channel on the Line Tensioner Hook for being tightened.

12. Adjust the tension in the Guy lines. There should be tension in each Guy Line (but they do not need to be taut) such that the antenna is vertical and has little play.

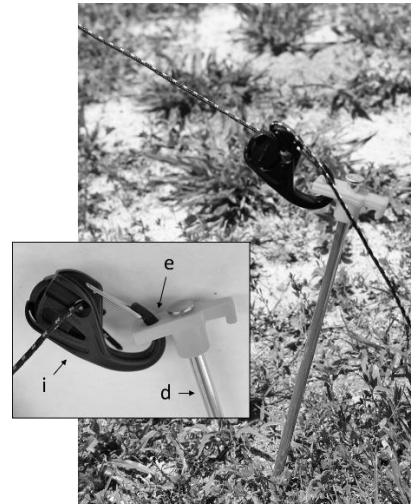


Plate 5. Guy Line Attachment to Stake.

13. Roll up excess Guy Line and place near the Stake to avoid personnel trip hazards.
14. This completes installation of the CHA UGS.

Recovery Procedure

To recover the CHA UGS, perform the following steps:

1. Loosen the Guy Lines (g) by pulling the loose end of the Guy Line to the side of the Line Tensioner Hook (i). *If oriented with the Line Tensioner Hook and Guy Line as shown in plate (3), you would pull the Guy Line end with the knot towards you to disengage the Guy Line from knurled spring clamp.*
2. Disconnect the Line Tensioner Hooks from the Stake Guy Hole (e) on the Stake (d).
3. Pull the Stakes from the ground.
4. Lower the antenna to the ground.
5. Disconnect the Carabiners (h) from the Ring Guy Holes (b) in the Delta Guy Ring (a).
6. Carefully wind the Guy Lines back onto the Line Winders (f).
7. Uninstall the Delta Guy Ring from the antenna.
8. Check area for overlooked CHA UGS components.
9. Remove dirt from CHA UGS components and inspect them for signs of wear.
10. Store components together in the antenna bag.

Specifications

- Antenna Compatibility: CHA MIL WHIP with CHA MIX EXT and CHA MIL WHIP 2.0 with CHA MIL EXT 2.0 or other vertical antennas with a maximum diameter of 3/8" and maximum length of 20 feet.
- Length of Guy Lines: 25 ft
- Length of Stakes: 15 in
- Weight: 1 lb 9 oz
- Personnel Requirements and Setup Time: one operator, less than 5 minutes.

Warranty

The Chameleon Antenna™ Universal Guying System (CHA UGS) is warranted to be free from defects in materials and workmanship for a period of 12 months from the date of purchase. To obtain warranty service, return all components of the system to Chameleon Antenna at your expense. Chameleon Antenna will repair or replace defective components and return the system to you at no charge. We encourage you to call us for technical support before returning the antenna system. This warranty excludes components that have been damaged or modified by the customer.

Accessories

The following accessories are available for purchase from Chameleon Antenna™. Please contact us at support@chameleonantenna.com for current prices and availability.

- **Counterpoise Kit.** The CHA COUNTERPOISE KIT is ideal for portable antenna deployment. The system will create the ground-plane needed to any vertical antennas and will also play the role of guy wires. It contains four 25-foot wire radials secured around plastic wire winders and four steel tent stakes.

Recommended non-supplied accessories:

- Plastic mallet.

Chameleon Antenna™ Products

Please go to <http://chameleonantenna.com> for information about additional quality antenna products available for purchase from Chameleon Antenna™ – The Portable Antenna Pioneer.

The screenshot shows the top portion of the Chameleon Antenna website. At the top, a dark red banner contains the text "CUSTOMER SUPPORT" and the slogan "Great Radios Deserve Great Antennas™". Below this is a dark navigation bar with links for "Home", "SHOP HERE", "DEALERS" (with a dropdown arrow), and "USER GUIDES". On the right side of the navigation bar, it says "USA ONLY - FREE SHIPPING WITH \$300 MINIMUM" and includes search and cart icons. The main banner features a camouflage background with a central white box containing the "CHAMELEON ANTENNA" logo. Below the banner, the text "THE PORTABLE ANTENNA PIONEER BECAUSE GREAT RADIOS DESERVE GREAT ANTENNAS!" is displayed, followed by a red "SHOP HERE" button.