

# $\alpha$ ALPHA ANTENNA®

## Model – HexTenna™

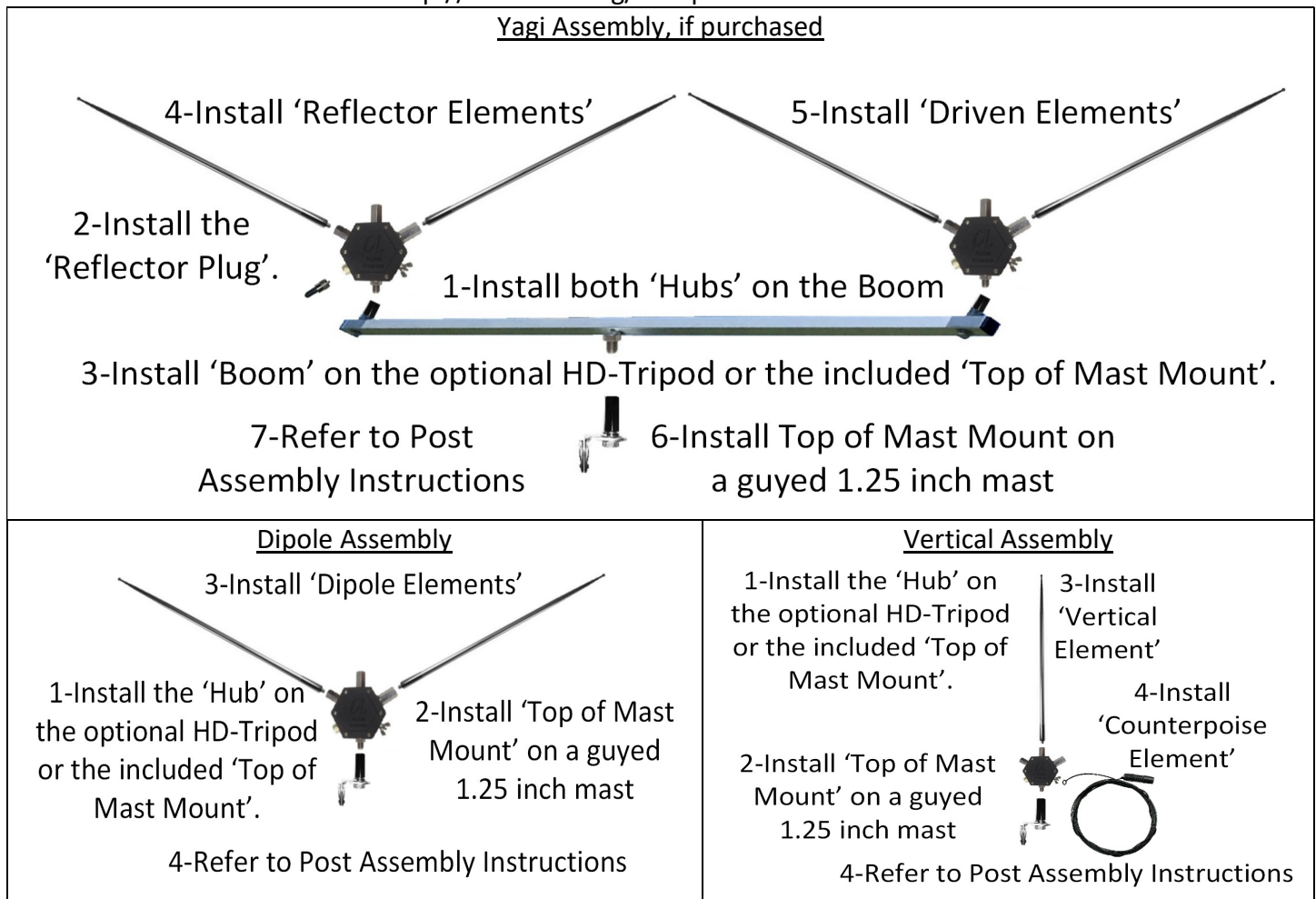
User Guide, Version 3.2, July 23, 2019

### Operation

The HexTenna™ by Alpha Antenna® is a portable full-sized legal limit antenna, which is deployable as a UHF/VHF/HF Vertical/Dipole antenna or a 2-20 meter Yagi if purchased.

### 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, 22.1091, 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>



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## Post Assembly Instructions

Step	HexTenna Assembly
1	Attach your coax to the built in SO-239 on the Alpha Match hub.
2	Use a measuring tape to adjust the length of the whip(s) to closely match the lengths on the charts below.
3	Make any final adjustments to the whip(s) until the lowest SWR is achieved.

## Tune by adjusting the following lengths on each element.

### Yagi and Dipole element lengths

Approximate element lengths of each Yagi & Dipole element		
Band	Yagi 'Driven Element' and 'Dipole Element'	Yagi 'Reflector Elements'
40	17 feet 9 inches, and install the clip-on wire element *	Not supported
30	10 feet 4 inches, and install the clip-on wire element *	Not supported
20	16 feet 11.5 inches	17 feet 3/4 inch
17	13 feet 3/4 inch	13 feet 5 1/2 inches
15	10 feet 11 1/2 inches	11 feet 7 3/4 inches
12	9 feet 6 inches	9 feet 10 1/4 inches
10	8 feet 3 1/2 inches	8 feet 6 1/3 inches
6	4 feet 8 inches	5 feet 1 inch
2	4 feet 7 1/2 inches	4 feet 9 inches

\* As a Yagi, Alpha Antenna does not support 30 or 40 meters on the HexTenna™. When deployed as a Dipole, tuning on 30/40 meters is achieved on the Dipole after the wire elements are installed, by equally retracting each element till resonance is achieved. The wire add-on elements are attached to the tip of each telescopic element with the clips, and deployed to form an M-Shaped dipole. The wire element can be held straight by pushing the included stake into the ground or removing the stake and tying off either end with the included green insulators to a tree or other support. IMPORANT – Do not allow wire elements to lay on the ground.

### Vertical/Counterpoise element lengths

Vertical Element & Counterpoise approximate lengths (Roll out the single counterpoise for minimum SWR)			
Band	Approximate length of Vertical Element	Approximate Length of 4 user provided Counterpoise Elements**	**Lengths of the Vertical Element & Counterpoise may vary based upon coax, environment, & variables unique to the user site and/or equipment. Enter installation specific notes here.
20	13 feet 2 inches	18 feet 2 inches	
17	9 feet 8 inches	14 feet 2 3/8 inches	
15	8 feet 7 3/4 inches	12 feet 1 1/2 inches	
12	7 feet 1 inches	10 feet 4 inches	
10	6 feet	9 feet	

Approximate length of Vertical Element with No Counterpoise		
440 Mhz	2 feet 2 inches	No counterpoise recommended
220 MHz	3 feet 4.75 inches	No counterpoise recommended

## Support

Email: [support@alphaantenna.com](mailto:support@alphaantenna.com) - WEB: [www.alphaantenna.com](http://www.alphaantenna.com) > Community > F.A.Q.s