Alpha Antenna

HexTenna Yagi

Portable VHF HF Antenna

Maximum Power - 1.5KW PEP SSB

The HexTenna™ Yagi Beam by Alpha Antenna® is a 2 through 20 meters, legal limit, and full-size portable VHF/HF system.
Environmental operating parameters: -15 to 130 degrees Fahrenheit and winds up to 50 Mph when *appropriately guyed.

INSTRUCTIONS FOR DEPLOYMENT

1. Setup your mounting option, which may be a Tripod with a Mast or simply a Mast.
2. Adjust Driven Elements to the suggested length in the chart below starting by pulling on the tip of the telescopic whips.
3. Pull the tip of the Reflector whips out and add 4% more than the Driven Elements for the Reflector's lengths or retract by 4% to use these elements as a Director. Do so based upon the pattern you want and which provides the lowest SWR.
4. Install the Boom with the built-in Mount onto your Mast.
5. Screw the 4 adjusted elements into their respective Hubs.
6. You may wish to guy your system based upon conditions, then attach your feedline.
7. Adjust the elements for the lowest SWR if necessary.

DRIVEN ELEMENT LENGTHS: Actual length is impacted by ground conditions & height.

Band	*While tuning for Lower SWR, add 4%-10% for Reflector on 2-17M or Detract 4%-10% if used as a Director on 2-20M*
20 Meters	**16 feet 11 1/2 inches**
17 Meters	**13 feet 3/4 inches**
15 Meters	**10 feet 11 1/2 inches**
12 Meters	**9 feet 6 inches**
10 Meters	**8 feet 3 1/2 inches**
6 Meters	**4 feet 8 inches**
2 Meters	**4 feet 7 1/2 inches**

PRO-TIPS

1. When driven elements are longer, then the two elements that are not driven are directors.
2. A 1:1 balun, available option for this Yagi, installed at the antenna feed point manages common mode current will lower SWR.
3. It is not uncommon for reflector elements to need an 8-10% longer length than a driven element to achieve a lower SWR, especially when a BalUn isn't present.
4. Not getting 20M to tune would be a solution of 1 & 2.
5. Gain is opposite the reflector on 17-2M (20M if a BalUn is used) or in the direction of the director, 20M-2M with or without a BalUn.

DEPICTION OF DEPLOYMENT