

# $\alpha$ ALPHA ANTENNA®

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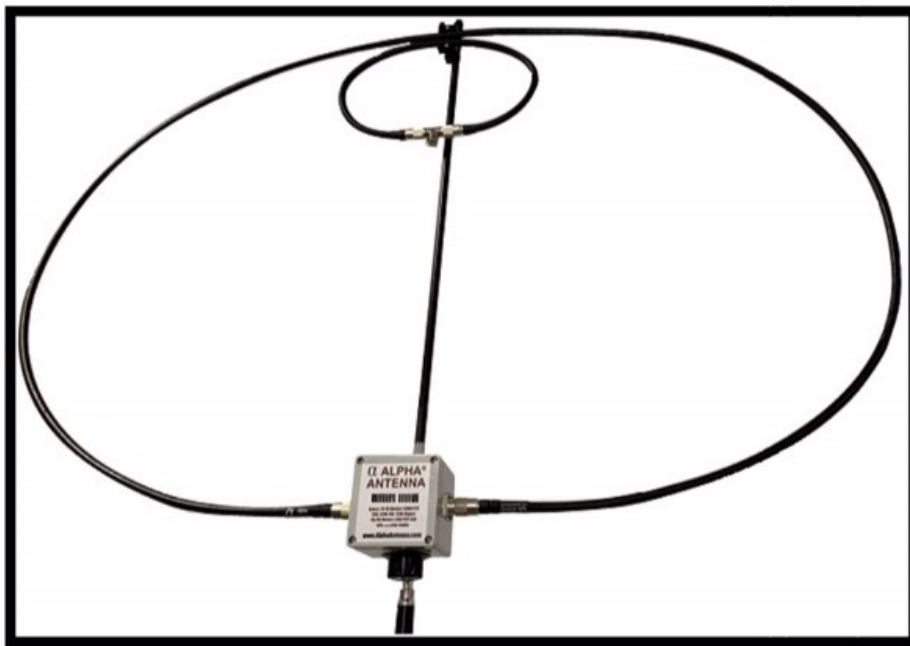
## Model – 100W Alpha Loop

Operating Manual, Version 6.1, October 19, 2019

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### Operation

The model 100W Alpha Loop is a 10-40 Meter transmit/receive antenna, which handles 25 Watts Digital, 50 Watts CW, and 100 Watts PEP SSB.



### Excess RF Exposure Warning

In the United States, the Federal Communications Commission has established guidelines for human exposure to Radio Frequency (RF) electromagnetic fields no matter what the antenna type. 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 interference with other electrical devices can occur. Additional reference: <http://www.arrl.org/rf-exposure>

### Support Contacts

If you have questions about your antenna, please feel free to contact us.

Email: [support@alphaantenna.com](mailto:support@alphaantenna.com) - Phone: 1-888-482-3249

WEB: [www.alphaantenna.com](http://www.alphaantenna.com) – Video Tutorials: [www.YouTube.com/AlphaAntenna](http://www.YouTube.com/AlphaAntenna)

### Assembly

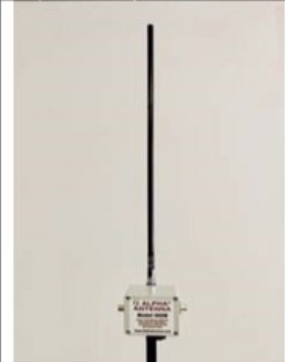
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Screw the tripod onto the bottom of the grey Alpha Match.



Screw the center support pole onto the top of the grey Alpha Match box.

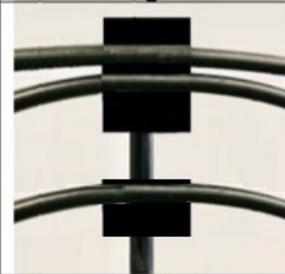
Install the rubber grommet over the pole.



Locate the **two Clips**: Slide the clips onto the top of the support pole.

Locate the **large Coaxial feed Loop**: Center and insert the large Coaxial feed Loops snugly into the top 'slot' of the Clip with the two openings.

Locate the **small Coaxial feed Loop**: Insert the small Coaxial feed Loop snugly into the 'slot' of the bottom Clip.



**Attach the PL259 connectors on the outer Coaxial loop to the grey box:** Attach the PL-259 connectors on the larger Coaxial Loop Element to the SO-239 connectors on the grey Alpha Match box.



**Attach your coax:** Connect your PL259 to the T-Connector on the small inner loop, and then run your coax to your equipment. (NOTE – There is an extra T-Connector included).



**Tuning:** Start with **MINIMUM** power & select your frequency, then turn the black knob on the grey Alpha Match till your rigs meter peaks with the loudest audible noise floor. Second, watch your SWR meter to dip then follow the next step to 'Fine Tune'.

**Fine Tune:** Slide the Inner loop up or down the center support pole while monitoring for the lowest SWR on an inline SWR meter, your rigs SWR meter, or an antenna analyzer, as you change the distance between the loops.

**BEFORE** increasing your power to 100W, please ensure your SWR is optimally tuned.

## Optional 40-80M Booster Cable

The Booster cable enables 20W PEP SSB on 40/60/80M & installs in Series with the 10-40M outer loop, and clips into the bottom opening of the clip with 2 openings.