

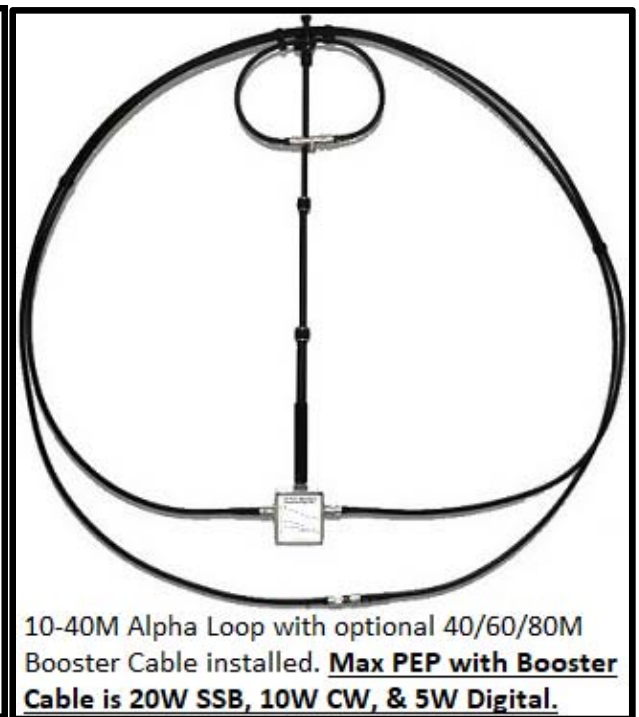
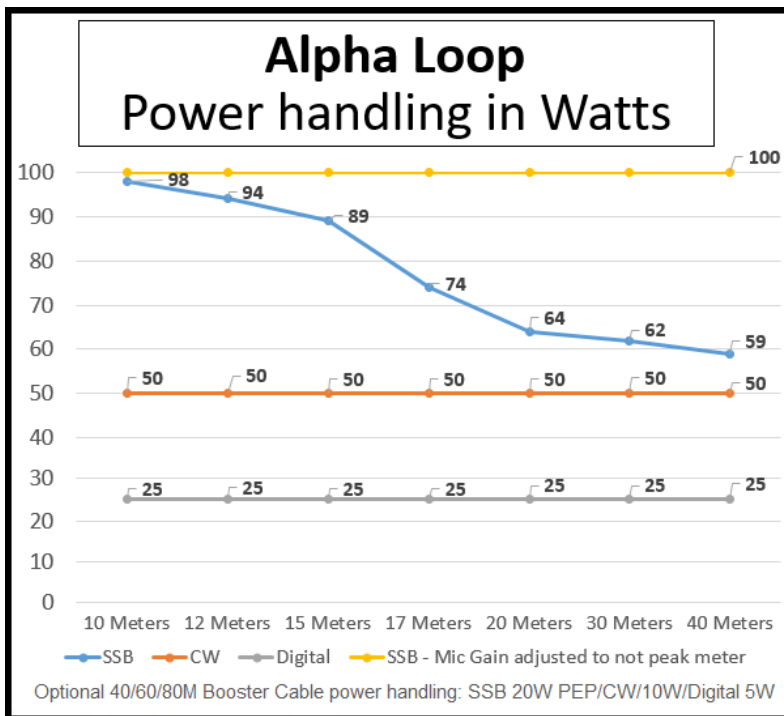
# α ALPHA ANTENNA®

## Model – Alpha Loop

Operating Manual, Version 4.0, May 1, 2018

### Operation

The Alpha Loop is designed to operate from 10 through 40 meters, which includes the 10, 12, 15, 17, 20, 30, & 40 Meter amateur radio bands, where it is rated at 50W CW, 25W Digital, and between 98 to 60W PEP SSB per the following chart no matter where your Mic Gain is set. With a properly adjusted Mic Gain this system will handle 100W PEP SSB (See Page 2 'Tuning').



### 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>

# α ALPHA ANTENNA®

## Assembly

### Locate the Selfie Stick:

Extend the sections and take note of the hole on the bottom (Figure 1). This hole is where the screw on top of the grey Alpha Match box will attach.



### Locate the grey Alpha Match box:

Place the screw from the top of the back support bracket on the grey Selfie Match box into the bottom hole on the Alpha Stick (Figure 2) and turn till it is secure. Note - There is a 1/4 - 20 threaded hole on the bottom of the support bracket that can be used to mount the antenna on an optional tripod.



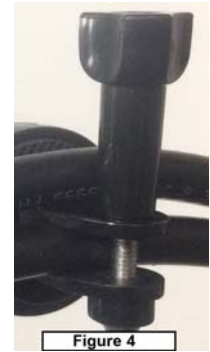
### Locate the large Coaxial Loop element:

Straighten this Alpha Coaxial Loop Element to form an approximate circle that is slightly larger than 3 feet in diameter. Take note of the approximate center for this run of coax. This is where the smaller Coaxial Loop element will be attached using the included fastener.



### Secure the Large Coaxial elements:

Use the Top Clamp on the Selfie Stick to secure the Coaxial Loop Elements at their center by removing the securing screw, inserting the coax as depicted in Figure 4. Adjust the placement of the coaxial loops so that the larger element PL-259 ends are near the Alpha Match box.



### Attach PL259 connectors:

Attach the PL-259 connectors on the larger Coaxial Loop Element to the SO-239 connectors on the grey Alpha Match box per Figure 5. Connect your coaxes PL259 to the T-Connector, then run the coax to your radio.



### Tuning: 98-60W SSB and 50W CW/25W Digital Tuning

Start with minimum power & select your frequency, then turn the black knob on the grey Alpha Match till your rig's meter peaks with the loudest audible noise floor. You may also use an antenna analyzer to verify the SWR. Increase your power.

### Optional 100W SSB Tuning

Tune with the above technique first, then adjust your Microphone Gain setting (if available on your rig) so that your meter does not peak when SSB is used. Increase your power.

### Optional 40-80M Booster Cable

The Booster cable enables 20W PEP SSB on 40/60/80M and installs in Series with the 10-40M outer loop.

## 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)