

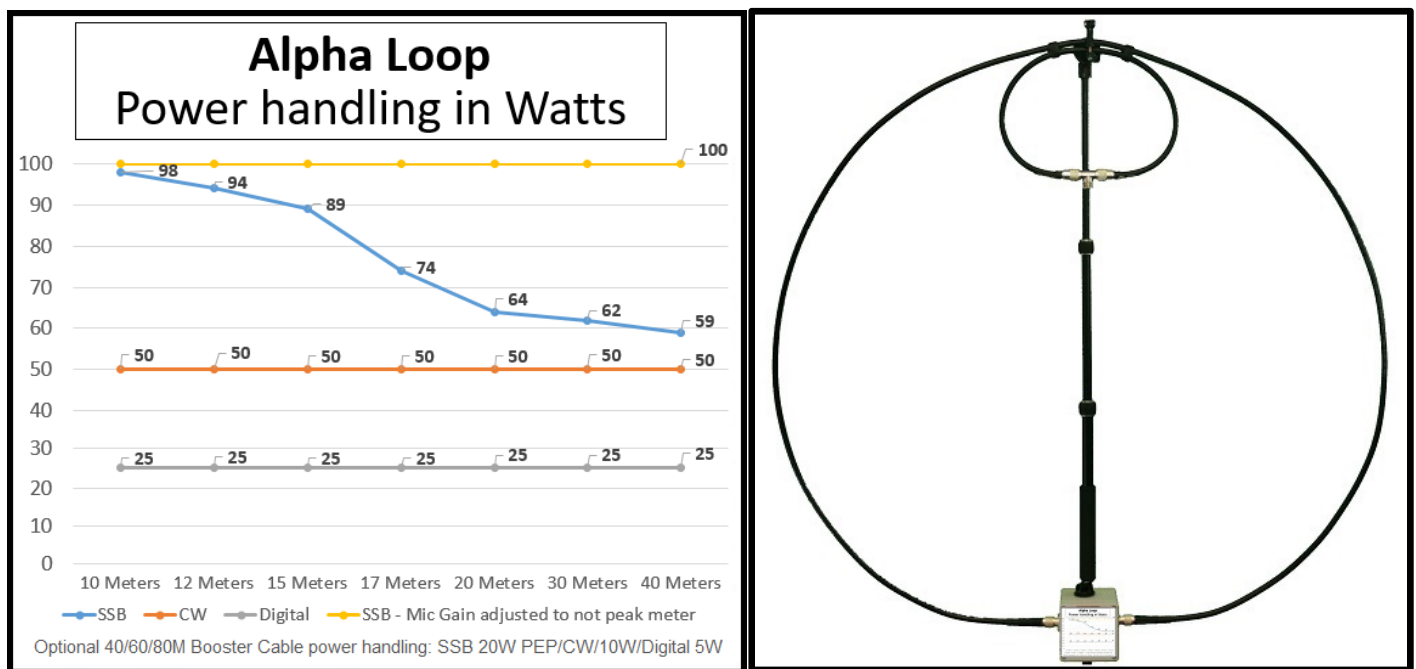
α ALPHA ANTENNA®

Model – Alpha Loop

Operating Manual, Version 4.2, November 28, 2018

Operation

The Alpha Loop is a 10-40 Meter transmit/receive antenna, which handles 25 Watts Digital, 50 Watts CW, and 100 Watts PEP SSB when the Mic Gain is adjusted to not peak your meter.



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 interference with other electrical devices can occur with the high ERP that this antenna achieves. Additional reference: <http://www.arrl.org/rf-exposure>

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Assembly

Locate the Selfie Stick:

Extend the selfie stick and note the screw hole on the bottom (Figure 1). The screw on top of the grey Alpha Match box will screw into this hole.



Figure 1

Locate the grey Alpha Match box:

Screw the selfie stick onto the screw located on the top of the grey Alpha Match box (Figure 2). Feel free to turn till the center loop is aligned. You might need to hold the nut under the selfie-stick with pliers if it is overtightened.



Figure 2

Locate the large Coaxial Loop element:

Straighten this outer Coaxial Loop Element to form an approximate circle that is slightly larger than 3 feet in diameter.



Figure 3

Secure the Large Coaxial elements:

Take note of the approximate center for the Outer loop. Place the center of the large coaxial element over the top of the selfie stick, then the PL-259 ends on the larger outer loop will be near the Alpha Match box. Secure the outer and the smaller inner loop using the nylon clips, which just turn and snap on.

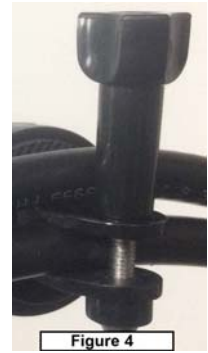


Figure 4

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 PL259 to the T-Connector on the small inner loop, and then run your coax to your equipment.



Figure 5

Tuning: <100W 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 rigs 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 (See Video Tutorials below for more information).

Support Contacts

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

Email: support@alphaantenna.com - Phone: 1-888-482-3249

WEB: www.alphaantenna.com – Video Tutorials: www.YouTube.com/AlphaAntenna