

The Alpha EmComm MagLoop is a 100-watt antenna for VHF, UHF, and HF 15-40 meters, featuring a low-loss BNC connector and feed line, with built-in and detachable tripod legs. This makes it an excellent choice for use at home or as a portable antenna on balconies, desktops, parks (POTA), summits (SOTA), or similar outdoor settings.

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Specifications

- Tunable from 7MHz to 21.450MHz plus 2 Meters and 440MHz.
- Rated at 100W PEP SSB, 50W CW, or 25W Digital & FM.
- IP Rating is IP-53: Protected against dust limited ingress, no harmful deposits. Protected against direct sprays of water up to 60 degrees from the vertical.
- Environmental operating parameters: -15 to 150 degrees Fahrenheit and winds up to 25 Mph before needing additional weight.
- Weight: 24 Ounces or 0.68Kg.

Included

- 1 - Two-piece mast that couple together,
- 3 - Tripod legs that install onto the tuning box,
- 1 - Tuning box with 3 built-in Female tripod leg inserts,

- 1 - Built-in Female 5/8 11 threads for mounting on Alpha Antenna's tripods (Optional 1/4-20 adapter is available for photography tripods),
- 1 - BNC Female to UHF PL259 Male adapter,
- 1 - Outer LMR400 loop,
- 1 - Inner shielded faraday loop with 9' feed line and BNC connector, and
- 1 - Field Bag.

Materials Used

The following materials are used in the construction of the EmComm Loop antenna:

- Gold,
- Solder,
- Ceramic,
- Aluminum,
- Stainless steel,
- Marine shrink tubing,
- Times Microwave LMR400, and
- Carbon Fiber infused polymers.

Deployment Bandwidths

The bandwidths of the VHF UHF HF EmComm Loop before returning is necessary are:

40M - 28KHz

30M - Once tuned, it covers the entire band.

20M - 60KHz

17M - Once tuned, it covers the entire band.

15M - 180KHz

VHF - Does not need to be retuned.

UHF - Does not need to be retuned.

Testing

Each loop is tested using two-step process

Step 1: A calibrated analyzer is used to confirm resonance on 146MHz, 435MHz, 7.0MHz, 14.175MHz, 18.125MHz and 21.450MHz.

Step 2. A HF transceiver with inline watt meter is used to transmit and confirm

power handling at 25W Digital & FM, 50W CW, and 100W SSB.

Loop Differences

Alpha Antenna has two different Magnetic Loop antennas. [Click Here](#) to learn the differences and similarities between this EmComm Loop and the Model 100W MagLoop.

Evolution of Efficiency

In 2014 Alpha Antenna offered a built-in LED tuning aid that would light up at approximately 5 Watts when the loop was tuned. We removed the LED, which activated at about 5 W, because it diverted power from transmission. Without the LED, more energy is radiated, improving antenna efficiency.

Assistance

[FAQs: Alpha Loop MagLoop antenna](#)

We listen!

We are dedicated to improving all of our [Portable VHF UHF HF Antennas](#). Specifications and descriptions are subject to change without notice.

5.0



Based on 119 reviews

5★

99

99%

4★

1

1%

3★

0%

2★

100 Watt VHF UHF HF EmComm MagLoop

0%

1★

0%



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RY

1.

Protected_User_a083e243

Reviewer

Featured Review

September 23, 2026



[100 Watt VHF UHF HF EmComm MagLoop](#)

Verified review - [view original](#)

Thank you to Alpha Antenna for making the antenna buying experience top-notch! Steve was incredibly responsive whenever I had questions during the purchase process, as well as after setup when I ran into trouble getting it to tune. The customer support doesn't end once the sale is made—they truly stand by their products.

A

2.

100 Watt VHF UHF HF EmComm MagLoop

Protected_User_11996d3a

Verified owner

September 6, 2026



[100 Watt VHF UHF HF EmComm MagLoop](#)

Verified review - [view original](#)

EF

3.

Protected_User_bccfd019

Verified owner

July 27, 2026



[100 Watt VHF UHF HF EmComm MagLoop](#)

Verified review - [view original](#)

Works as advertised! I am completely satisfied with both the product and the service.

J

4.

100 Watt VHF UHF HF EmComm MagLoop

Protected_User_8622b404

Verified owner

July 13, 2026



[100 Watt VHF UHF HF EmComm MagLoop](#)

 Verified review - [view original](#) 

Excellent purchase. They accepted my proposed price, and delivered the antenna promptly. There was a problem with the legs, but Steven sent replacements quickly and they fit perfectly. Great service. The antenna works well though I am asking a lot of it, so far having to use it inside my house because of a strong HOA. It has me back on the air, though, after a 30 year absence! I am sure I will buy their products again. Thank you, Alpha Antenna.

NK

5.

Protected_User_42ef5b13

Verified owner

July 13, 2026



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