

The Yagi VHF/HF Beam by Alpha Antenna® is a legal limit and portable, full-size 2-to-20-meter system designed for amateur ham radio and military use, which offers continuous frequency coverage from 144 to 13.950MHz. Included for mounting is a mount for 1.25-inch masts.

Use our [Make an Offer Program](#) and Click this button if you can't afford full price.

Make An Offer (Without Options)

Specifications

- Power: Full legal limit
- RF Connection: SO-239
- Frequency: 2 – 20 Meters
- Environmental operating parameters: -15 to 150 degrees Fahrenheit and winds up to 50 Mph when appropriately guyed.

Included

4 – 17 foot 9 inch telescopic stainless-steel whips (with “Alpha Antenna” laser engraved)

1 – 4 foot boom with built in Top of Mast Mount for installation on a 1.25 to 1.35 inch mast

2 – Hubs

1 – Non-padded field bag that fits all but the boom.

Analysis

[Download the following results for the AntScope application here](#)

[Download Yagi gain document CLICK HERE](#)

Properties

Characteristic	Specification
Weight	9lb/4kg
Wind Load	4.0sqft/0.37sq m
Longest Element	34ft 9inches/10.6 m

2-20M HF VHF Yagi Antenna

Turning Radius	17.82ft/5.43 m
Boom Length	48in/1.23 m
Mast Hardware	1.2500in/3.175 cm to 1.3780in/3.500 cm
Power Rating	1500 Watts PEP
Wind Rating	40 mph / 64 km/h
Frequency Coverage	2-20M and 144-13.850MHz
Tuning Rate	1.33 ft/sec - 0.405 m/sec

Deployment

For temporary outdoor use, deployment can be achieved using the included Top of Mast Mount, which can be affixed to any sized pipe between 1 to 1 1/4 inch outside diameter. It is recommended that you ALWAYS guy this system.

2-20M HF VHF Yagi Antenna

Installed on an optional user provided mast using the included Top of Mast Adapter.



HexTenna vs HexTenna Yagi and their differences

The HexTenna Yagi will not function as a Vertical but can be used as a 2-20M Yagi and you can also use the driven side by itself like the HexTenna as a Dipole by leaving the reflector elements installed as a counterweight. Only the HexTenna Vertical and Dipole will function as both a Dipole or Vertical, covering 2 – 40 Meters, plus 220MHz, & 440MHz. You can tune either one by equally lengthening each element until resonance is achieved. REFERENCE: [2-20M HexTenna Yagi antenna vs a Vertical Dipole VHF HF HF HexTenna](#)

Videos

Gain demo of Alpha Yagi Beam & Alpha Vertical

Gain difference between mounting the HexTenna 15 feet vs 6 feet.

Spoiler alert: Moving the HexTenna from the 5 1/2 foot HD Tripod to a 15-foot mast increases your signal by half (1/2) an S-Unit.

Environmental Tests

Independent environmental tests by Steven Smith K3SKS with the system deployed in 55 mph, wind gusts and ice on the elements, which enables us to rate this system for 50 mph winds.

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Wind Advisory

URGENT - WEATHER MESSAGE
National Weather Service State College PA
859 AM EST Mon Jan 8 2024

FAI004-005-010>012-017-018-090200-
/O.CON.NCTP.NI.Y.0001.240109T1500Z-240110T0500Z/
Warren-McKean-Elk-Cameron-Northern Clinton-Clearfield-
Northern Centre-
Including the cities of Warren, Bradford, St. Marys, Ridgway,
Emporium, Renovo, DuBois, Clearfield, and Philipsburg
859 AM EST Mon Jan 8 2024

...WIND ADVISORY REMAINS IN EFFECT FROM 10 AM TUESDAY TO MIDNIGHT
EST TUESDAY NIGHT...

* WHAT...Southeast winds 20 to 30 mph with gusts up to 55 mph
expected.

* WHERE...Warren, McKean, Elk, Cameron, Northern Clinton,
Clearfield and Northern Centre Counties.

* WHEN...From 10 AM Tuesday to midnight EST Tuesday night.

* IMPACTS...Gusty winds could blow around unsecured objects.
Tree limbs could be blown down and a few power outages may
result.

* ADDITIONAL DETAILS...The wind will pick up as snow and mixed
precipitation move in from the south. It will continue as the
mixed precipitation transitions to all rain.
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NOAA Report for this deployment

Assistance

[FAQs: HexTenna antenna by Alpha 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 2 reviews

5★

100

100%

4★

2-20M HF VHF Yagi Antenna

0%

3★

0%

2★

0%

1★

0%

Q 

Search

1-2 of 2 reviews

Most Recent 



1.

Protected_User_815b9363

Verified owner

January 26, 2026

★★★★★

★★★★★



[2-20M HF VHF Yagi Antenna](#)

 Verified review - [view original](#) 

Excellent product and well made, service was great item arrived promptly.
Thanks



2.

Protected_User_6b5489e7

2-20M HF VHF Yagi Antenna

Verified owner

December 27, 2025



[2-20M HF VHF Yagi Antenna](#)

 Verified review - [view original](#) 

I have done a few POTA activations now and have had awesome results including some decent DX. I find it works best using as a director. Very happy with it.