

Sales price £299.95

Sales price without tax £249.96 Tax amount £49.99

a 10 element 144MHz LFA Yagi

Description

Prices 20% less for customers outside of EU

A 10 element Very Low Noise Yagi for serious DX, weak signal and EME applications



2 x 10el 144MHz LFA Yagis

The G0KSC LFA (Loop Fed Array) Yagi has quickly become 'the one to have' if you are looking for serious weak signal work on the bottom of the 2m band. The LFA Yagi has been specifically designed to ensure the lowest levels of unwanted noise are received. The compliment of a tight, highly suppressed pattern and closed loop fed system ensure everything from rain static to man-made noise are heavily reduced.

The LFA is especially effective for EME where very low noise antennas are required and many hours development have been spent ensuring the highest levels of performance have been achieved in an antenna that is not affected by wet weather conditions. As a single, double and 4 stack system, the LFA Yagi is the one to have.

Our antennas are constructed with the best quality materials in order the best mechanical construction can be achieved, not the cheapest and most profitable! Even a digital caliper is used (with an accuracy of .01mm) to measure the elements during production to ensure they are within 0.2mm of what they should be, this ensures they work as well as our software model predicts.

- 1. Marine grade Stainless Steel Fittings*
- 2. Original Stauff insulator clamps
- 3. Mill finished for highest levels of accuracy

If you are looking for the best of the best from both a performance and mechanical construction perspective then look no further, you have come

to the right place!

Performance

Gain: 14.71dBi @ 144.100MHz Gain: 14.73dBi @ 144.300MHz F/B: 32.20dB @ 144.100MHz F/B: 28.73dB @ 144.300MHz Peak Gain: 14.76dBi Gain at 10m above ground: 20.56dBi Peak F/B: 32.54dB Power Rating: 3kw SWR: Below 1.1.1 from 143.900MHz to 145.200MHz Boom Length: 5.254m Weight: 3.68kg / 7.06lbs Turning Radius: 2.653m / 8.7ft Wind Loading: 0.11 Square Metres / 1.22 Square feet Wind Survival: 235KPH / 146MPH Other options available if higher wind loading/survival is required.

Stacking Distance Vertically: 2.3-3.4m (best trade-off 3.2m)
Stacking Distance Horizontally: 2.3-3.5m (best trade-off 3.4m)
Following figures calculated at 144.300MHz
2 Stacked Vertically @ 3.0m Gain: 17.59dBi
2 Stacked Vertically @ 3.2m Gain: 17.69dBi

2 Stacked Vertically @3.0m F/B: 29.72dB

2 Stacked Vertically @3.2m F/B: 29.53dB

2 Stacked Horizontally @ 3.15m Gain: 17.55dBi

2 Stacked Horizontally @ 3.15m F/B: 28.87dB

2 Stacked Horizontally @ 3.4m Gain: 17.65dBi

2 Stacked Horizontally @ 3.4m F/B: 29.22dB

4 Antennas 3.0m V x 3.15m H Gain: 20.46dBi

4 Antennas 3.2m V x 3.4m H Gain: 20.65dBi

Sky Temperature: 229.6 Kelvin @ 144.100MHz

G/T Figure: -2.96dB @ 144.100MHz

Specification

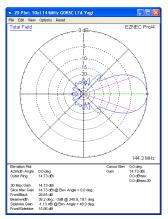
This antenna has all parasitic elements made from 1/4 inch aluminum rod. The LFA loop is constructed from 4 pieces of aluminum tube. The sections in-line with the parasitic elements are 1/2 inch while the end sections of the loop are 3/8 inch allowing the user to adjust the loop for best SWR. All elements are fully insulated from the boom held in place by high quality UV resistant, **RF neutral insulators** which in-turn are held to the boom via **Marine grade** stainless steel fixings and fittings.

The boom is **1.25 inch square (31.75mm)** and a boom guy is supplied with this antenna. Optional boom upgrade at checkout.

If you want an antenna to last and perform in all weathers without SWR or bandwidth shifting, this is it.











Single antenna 10m above average ground

| NF 10 5 SWR 3 | | | | | | | | | | | | | | | EZ | NEC Pro.4 |
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| 2 | | | | | | | | | | | | | | | | |
| Refl Coeff | 0.02 | 714 6 | st -11 | 6.22 | deg. | | | | | | | | | | | |
| | | | 19 - j I | 0.024 | 34 | | | | | | | | | | | |
| | Freq SMR Z | 1.1 144 Freq 144 SV4R 1.05 Z 488 Refl Coeff 0.02 =-0. | 11 144 Freq 144 MHz SVR 1.056 Z 48.82 at = 48.76 - Retl Coeff 0.02714 i = -0.0118 | 111 144 Freq 144 MHz SVR 1.056 Z 48.82 et -2.79 = 48.76 - j 2.3 Refl Coeff 0.02714 et -11 = -0.01198 - j : | 1:1 1:4 Freq 144 MHz SVR 1.056 Z 48.76 - 12.376 ch Refl Ceff 0.02714 at -115.22 = -0.01198 - 10.027 | 11 14 144 Freq 144 MHz SvR 1.056 Z 48.62 of -2.79 deg. 862 of -2.79 deg. Ref Loeff 0.02714 of -16.22 deg. -1.762 deg. -1.762 deg. -0.02194 do 1.762 deg. | 11 144 Freq 144 MHz SVR 1.056 Z 48.62 of -2.79 deg, C 48.62 of -2.79 deg, Ref Loeff 0.02714 of -116.22 deg, = -0.01399 - j0.02834 | 1 1 144 MHz Freq 144 MHz SMR 1652 H-270 deg = 48.72 H-270 deg = 48.72 H-270 deg = 48.72 H-270 deg = 49.72 H-15.22 deg. = -0.01193-j.0.02434 | 1 1 144 Freq Freq 144 MHz SWR 1468 Z 48 52 of 2.73 deg = 48.52 of 2.73 deg = 48.52 of 2.936 brms Ref (Cotff 0.0271 4a -116.22 deg = - 0.01193 - 1.02244 | 1 1 144 Freq MHz Freq MHz SVR 148 H42 Z 46 52 et -279 deg. = 48 52 et -279 deg. = 40 199 - 1022494 | 11 144 Metz Freq 144 Metz Freq 144 Metz Freq 144 Metz 865 Ct - 279 deg, = 40.76 ; - 2376 deg, = 40.76 ; - 2376 deg, = -0.01199 ; - 0.0234 | 11 144 Met Freq Metz Freq Metz Freq Metz Freq 144 Met Soft 144 Z 48.70 at 2.73 deg = 40.76 1.295 cens Ref Cert 0.02274 at -116.22 deg = -0.0199 - 0.02244 | 1 4 Frequencies of the second | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 14 Freq.1612 144 Freq.1612 546 Add 2 - 279 deg Ref Cert 4 - 279 deg - 4079 - 12 - 250 deg - 4079 - 12 - 250 deg - 4079 - 10 - 200 deg - 400 - 200 deg - 4079 - 10 - 200 deg - 407 |

SWR



The InnovAntennas 10el 144MHz LFA at VK3VXD

Manufactured the right way, not the cheapest way!

*Where possible marine grade stainless steel components are used. // //