



Sales price £699.95

Sales price without tax £583.29
Tax amount £116.66

A Wideband 6 element 27Mhz & 28MHz Dual-Band OP-DES Yagi
8.5m boom

Description

A 6 element wideband 27-29MHz - 28-30MHz OP-DES (Opposing Phase Driven Element System) The First Dualband 10m/11m Yagi - NEW! Second Generation OP-DES Yagi !

The OP-DES is the newest Yagi produced by InnovAntennas and is specifically designed for maximum performance, wide-band applications. Read more about the OP-DES Yagi Here. InnovAntennas use the latest in Electromagnetic Design Technology to ensure the very best results and the OP-DES Yagi is proof of that!

This antenna has a flat SWR curve **covering 27-29MHz** at less than 1.5:1 SWR. Bandwidth can be easily moved to cover two other ranges if the standard does not suit, **26.5MHZ to 28.5MHz** or **28Mhz to 30MHz**. The super-compact 6el with a huge punch, Take a look!



The 6el (set for 28-30MHz) 8.5m OP-DES @ G0FWX installed spring 2022

Performance

Gain: 11.08dBi @ 28.00MHz, 10.37dBi @ 27.00MHz, 10.76dBi @ 29.00MHz

F/B: 33.27dB @ 28.00MHz, 24.95dB @ 27.00MHz, 23.79dB @ 29.00MHz

Peak Gain: 11.28dBi

Gain at 10m above Ground: 15.99dBi @ 28.00MHz

Peak F/B: 33.27dB @28.00MHz

Power Rating: 5kw+

SWR: Below 1.5:1 from 27.0MHz to 29.0MHz - 28.0MHz - 30MHz

Coverage is the full 2Mhz between 27Mhz and 29Mhz, 28MHz to 30MHz

Stacking Distance: 8.0-9.5m (9m recommended)

2 Stacked Gain @ 9m spacing: 13.49dBi

2 Stacked F/B: 31.81dB

2 Stacked Gain @ 7m Spacing 10m above ground: 17.95dBi

Boom Length: 8.5m

Turning Radius: 5.402m

Surface area: 0.44SqM

Weight: 17.5KG

Wind Survival: **125MPH**

Other options available if higher wind loading/survival is required.

Specification

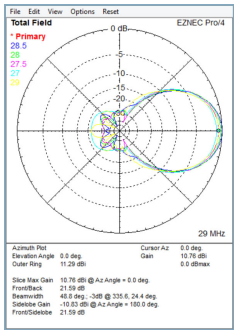
This antenna is made HD as standard with 22mm diameter which taper to 13mm tips. The antenna has fully insulated elements which will ensure continuous, high performance for many years to come. Boom to mast brackets are included with all antennas which will support 2 inch (50mm) masts. For other diameters, please ask! **Boom is 45mm square tapering to 40mm**.

OTHER TAPER SCHEDULES ARE AVAILABLE FOR THIS ANTENNA, CALL OR EMAIL FOR DETAILS

Our antennas are constructed with the best quality materials in order that 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, ensuring they work as well as our software model predicts.

Note: Much development time has gone into our antennas, not just on basic electromagnetic design, we are able to model the effect of insulators, booms and other objects to ensure the make up of our antennas have least effect on performance and pattern degradation. More information can be found here

- **Marine grade Stainless Steel Fittings**
- **Original Stauff Insulation clamps**
- **Mill finished boom and elements for highest levels of accuracy**



Azimuth plots from 27MHz to 29MHz



How the OP-DES looks; A 6el 10m/11m OP-DES

Manufactured the right way, not the cheapest way