A Dualband 28/50MHz Yagi with single feedpoint

Description

Available through WiMo Germany and DX Engineering in the USA - for Direct factory supply, Email us for pricing and time lines.

www.dxengineering.com - www.wimo.com

An Excellent Dual Band Yagi for 28/50MHz with 11.8m boom

The 28-50-15 Dual Band Yagi has a total of 15 elements, 6 elements are used on 28MHz while 9 elements are used on 50MHz. The 28-50-15 InnovAntennas Dual Band Yagi stands aside from the crowd due to the methods used for it's design. No traps or coils and no phasing arrangements are used within this antenna and there is no need for 'compromise' spacing between elements as the antenna has a set of correctly spaced elements for either band but still deploys only one 50 Ohm feed point.

An excellent antenna with great SWR bandwidth and performance in one package.

Performance

Gain on 28MHz: 11.31dBi @ 28.400MHz

F/B on 28MHz: 22.71dB @ 28.400MHz

Gain on 28MHz at 10m above Ground: 16.17dBi

Gain on 50MHz: 13.01dBi @ 50.150MHz

F/B on 50MHz: 23.05dB @ 50.150MHz

Gain on 50MHz at 10m above Ground: 18.36dBi

Power Rating: 5kw

SWR 28MHz: Below 1.3:1 from 28.00MHz to 28.600MHz

SWR 50MHz: Below 1.3:1 from 50.000MHz to 50.300MHz

Boom Length: 11.9m

Weight: 18.6Kg / 40.9LB

Turning Radius: 5.64m / 18.501ft

Wind Loading: 0.55 Square Metres / 5.9 Square feet

Wind Survival: 163KPH / 101MPH

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

Specification

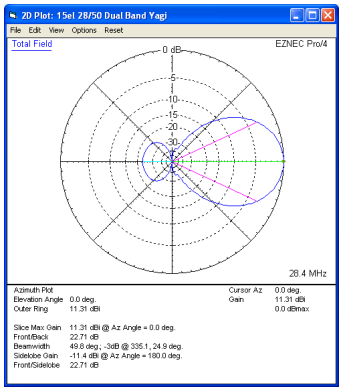
This antenna deploys 1/2 inch (12.7mm) elements which have 3/8 inch (9.525mm) elements for 50MHz and 5/8 inch elements tapering through 1/2 inch (12.7mm) to 3/8 inch (9.525mm) for 28MHz . The antenna has fully insulated elements which will ensure continuous, high performance for many years to come. Boom to mast brackets are included with all antennas which will support 2 inch (50mm) masts. **Boom is 1.75 inch square 10SWG aluminum** and a **Kevlar boom guy is supplied** along with **Stainless Steel turnbuckles** for adjustment.

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 to measure the elements during production to help ensure the best possible results when installed.

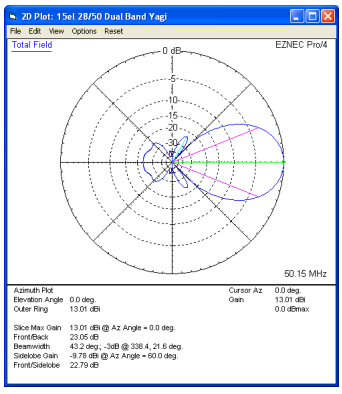
Note: Much development time has gone into our antennas, not just on basic electromagnetic design, we are able to model the effect of insulators, booms and other objects to ensure the make-up of our antennas has least effect on performance and pattern degradation. More information can be found here

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

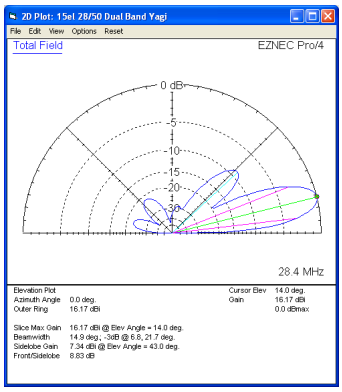
- **The 15el Duo installed @ F1IOZ (above and below)**



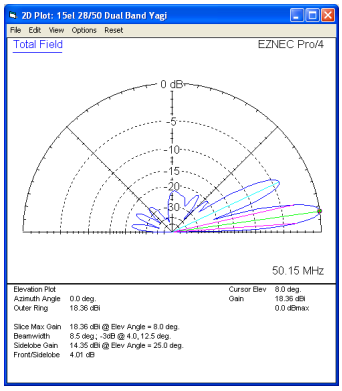
Azimuth Plot 28MHz



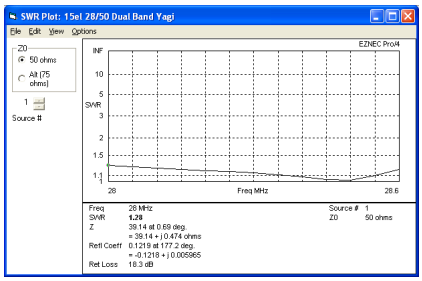
Azimuth Plot 50MHz



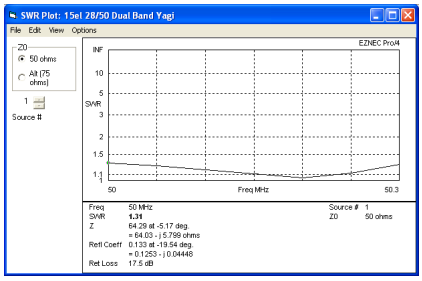
Elevation Plot 28MHz (10m above ground)



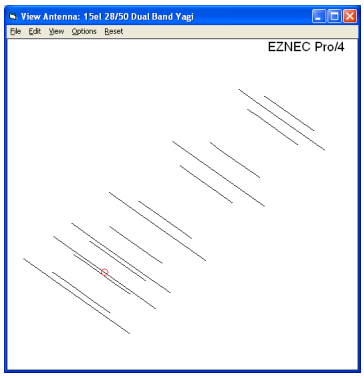
Elevation Plot 50MHz (10m above ground)



SWR 28MHz



SWR 50MHz



The 28-50-15 Antenna Layout

Manufactured the right way, not the cheapest way!
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