



# ECOMAX YAGI ANTENNA

For FM band (also DAB+/VHF)

## **IMPORTANT NOTE**

**Upon receiving your order inspect the packaging material and unit for apparent damage. Any damage should be reported immediately so we can make a claim with the shipping company. Take photos, if you can, they can be used as a proof.**

**Although we tune antennas for our customers, it is strongly recommended that you verify tuning once antenna is installed. Objects around the antenna can affect the tuning.**

**This is a narrowband antenna so changing frequency requires retuning with a suitable instrument (antenna analyzer or SWR meter).**

**Antenna is shipped in a collapsed state! Extend both sections of the telescopic main antenna pole until the black marker ring shows, than tighten the clamp.**

**The SWR on the antenna can only be tuned in a free transmission zone, if you are broadcasting close to another antenna with powered transmitter this will have undesirable results and you will not be able to find the perfect tune, remember to turn off any transmitters or find a suitable location that is not close to an antenna used for broadcasting.**

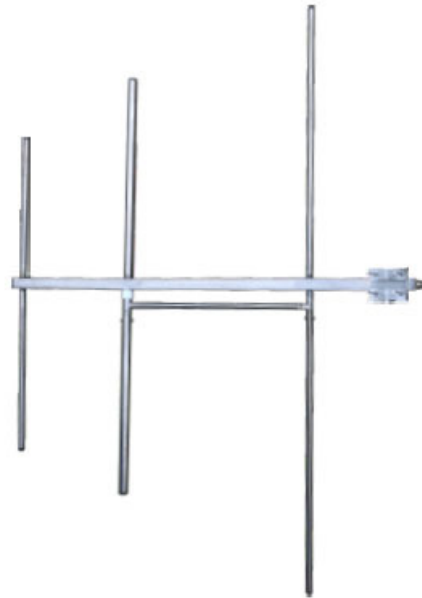
## **DANGER!**

**WARNING BE AWARE THAT ERECTING ANY ANTENNA CLOSE TO OR NEARBY ELECTRICAL POWER LINES CAN LEAD TO SERIOUS INJURY AND POSSIBLE DEATH! BE VERY CARFEFUL!**

**DO NOT TRANSMIT UNLESS YOU CAN CONFIRM THE ANTENNA IS MATCHED TO YOUR FREQUENCY!**

## **Broadband dipole Antenna / Antena dipolo** **Vertical polaritation / Polarizacion vertical** **3 Elements directive / Directiva 3 elementos**

Sturdy construction	Construccion robusta
First class materials	Materiales de primera calidad
TIG Welded	Soldadura TIG
Stainless steel bolts and screws	Tornilleria en acero inoxidable
Directional pattern	Patrpn direccional
Optional 7/16 connector	Conector 7/16 opcional
High performance	Alto rendimiento
Deumontable	Desmontable
Stainless Steel	Tubos de acero inox
Aluminum die cast brackets	Soporte de aluminio estruido
Optional radome	Radomo opcional

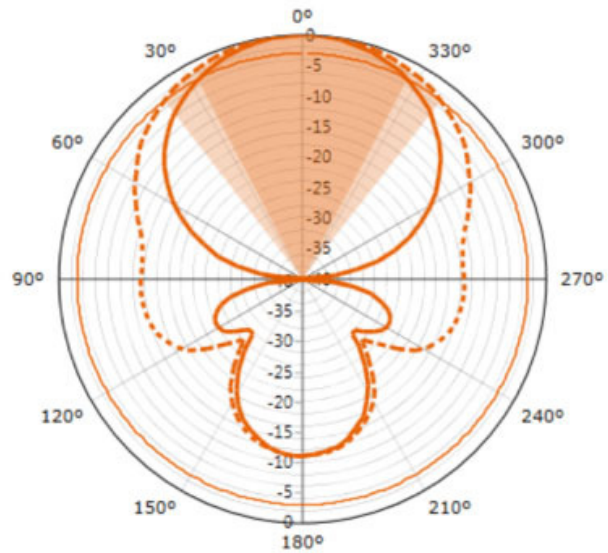


<b>Max power</b>	<b>Potencia maxima</b>	<b>2.5 Kw 7/16 / 3 Kw 7/8</b>
<b>Frequency</b>	<b>Frecuencia</b>	<b>87.5 - 108 Mhz</b>
<b>VSWR</b>	<b>VSWR</b>	<b>&gt;1.25:1</b>
<b>Gain *</b>	<b>Ganancia *</b>	<b>7.14 dBi @ 98 Mhz</b>
<b>Polaritation</b>	<b>Polarizacion</b>	<b>Vertical</b>
<b>Weight</b>	<b>Peso</b>	<b>12 Kgrms</b>
<b>Impedance</b>	<b>Impedancia</b>	<b>50 Ohms</b>
<b>Wind load</b>	<b>Carga al viento</b>	<b>28 Kgrms @ 160 Km/h</b>
<b>Max wind speed</b>	<b>Maxima Velocidad viento</b>	<b>190 Km / h</b>
<b>Ligthning Protection</b>	<b>Proteccion</b>	<b>Grounded</b>
<b>Vertical amplitude</b>	<b>Amplitud vertical</b>	<b>75° @ -3dB E plane</b>
<b>Mounting Brackets</b>	<b>Soportes a mastil</b>	<b>30 / 70 mm</b>
<b>Dimensions</b>	<b>Dimensiones</b>	<b>1850 X 880 X 60 mm</b>
<b>Materials</b> Stainless steel, brass, teflon, aluminum	<b>Materiales</b> Acero inoxidable, laton, aluminio y Teflon	

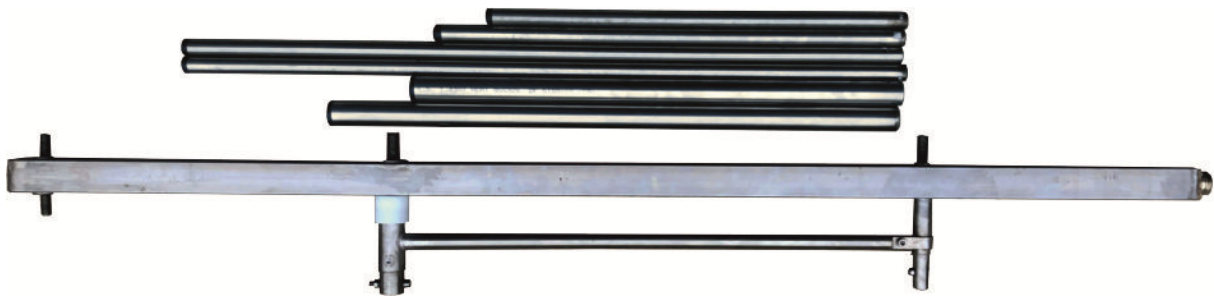
\* Gain at middle band

### Technical data / Datos tecnicos

Dipolos Dipolos #	Gain Ganancia	Weight Peso Kgms Steel acero	X factor Multiplicacion Times / veces aprox	Wind load Carga al viento Kgms @ 160Km/h	Max. Power Potencia Max N female	Vertical amplitude Amplitud vertical	Tower Space Espacio torre Meters / Metros
1	4,5 dB	13 Kgrms	3	28	2.5 Kw	75°	-----
2	7,4 dB	26 Kgrms	5	56	5 Kw	37°	2.50
4	10 dB	52 Kgrms	10	112	10 Kw	18°	7.5
6	11,5dB	78 Kgrms	14	168	15 Kw	9°	12.5
8	13dB	104 Kgrms	19	224	20 Kw	5°	17.5



Antenna in disassembled form:




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- A large assortment of hard to obtain RF components (RF transistors; MRF, 2SC, coils, silver plated wire, coaxial cable, capacitors, quartz crystals and many others)
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- A large number of beginners guides to get you started
- A large selection of free schematics is as well available at our website.

If you can't get much range with your homebrew antenna, have a look at these: <http://www.pcs-electronics.com>

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