

Section 2

BROADCAST ANTENNAS

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Yagi Y600TV Series UHF TV Double-Dipole Broadband

Frequency
520 – 820 MHz

Bandwidth
15 CHANNELS



Key features of these UHF TV Broadcast Yagi Antennas are:

- A double-dipole design to deliver a genuine broadband coverage.
- Specify any 15 consecutive UHF TV Channels for a 105 MHz bandwidth within the range 520 to 820 MHz, Channels 27 through 69.
- Return loss optimised to better than -20 dB, less than 1.2:1 across the selected 15 channel range.

Constructed from either aluminium or stainless steel, both 9 element 10.5 dB and 15 element 12.1 dB models are available. An N-Female connector rated for up to 50 watts input power is fitted to the RG58 low loss cable tail.

A strut kit is highly recommended to properly support the boom of the 15 element **Y615TV** model.

A mast mounting clamp, coaxial feeder cable, connectors and cable fittings are all available separately to complete the Yagi installation.



SPECIFICATIONS	Y609TV	Y615TV
Construction	Aluminium, or add the letters 'SS' for the fully stainless steel models	
Frequency	Within the range 520 to 820 MHz	
Bandwidth	Specify any 15 consecutive UHF TV channels in Band IV and Band V, Channels 27 to 69	
	105 MHz	105 MHz
Return Loss, VSWR	Better than -20 dB, < 1.2:1 across the selected 15 consecutive channel range	
Tuning	Factory	Factory
Number of Elements	9	15
Nominal Gain at Centre Frequency	10.5 dB	12.1 dB
Polarisation	Mount either Horizontal or Vertical as required	
Maximum Input Power	50 Watts	50 Watts
Impedance	50 Ohms	50 Ohms
E Plane	40°	33°
H Plane	46°	42°
DC Grounding	Yes	Yes
Front-to-Back Ratio	20 dB	20 dB
Cable Tail	RG58 low loss	RG58 low loss
Connector	N-Female fitted	N-Female fitted
Boom Length	1.2 metres	1.85 metres
Longest Element	28 cm	28 cm
Weight Alum, S/Steel	0.8 kg, 1.5 kg	1.3 kg, 2.5 kg
Projected Area	0.060 m ²	0.088 m ²
Wind Load at 160 kph	7.3 kg, 0.072 kN	8.4 kg, 0.083 kN
Strut Kit	None required	YS1-48 recommended
Mounting Clamp (Not supplied)	1 x A48 recommended for Aluminium models 1 x S48 recommended for S/Steel models	



The **A48** right-angle clamp has an aluminium plate, galvanised steel vee blocks with stainless steel U bolts, nuts and washers.

The **S48** clamp has all stainless steel components.

These clamps mount a 25 mm square boom Yagi to a round mast between 30 and 50 mm in diameter.