

Base Station UHF

UHF Yagis - Professional Series

Models Y4U, Y6U, Y8U, Y10U & Y12U

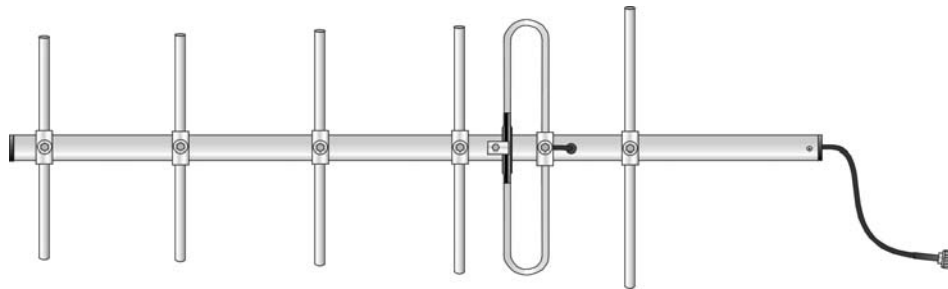
This comprehensive range of Professional Series Yagi antennas are designed for directional point-to-point applications in the UHF bands. They are designed to be used in the most rugged environments and to withstand harsh weather conditions.

All Professional UHF Series Yagis are end mounted and are designed to be used for either vertical or horizontal polarisation. Please specify polarisation when ordering.

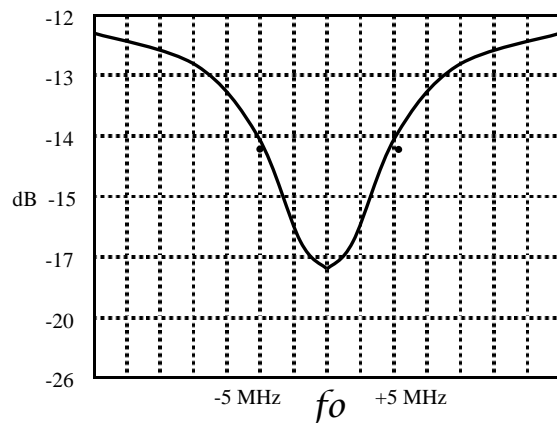
The yagis are constructed from extruded Series 6000 anodised aluminium with the clamps being cast aluminium and fitted with stainless steel hardware. Nominal feed impedance is 50 ohms with the matching circuit within the sealed driven element. A 1m tail of low loss coaxial cable is fitted with an N plug connector.

The bandwidth is typically 10 MHz with a return loss of less than -14dB. All elements are DC grounded.

These antennas can be stacked for increased gain.



Y6U



Typical Return Loss - Y6U

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Specification:

MODEL	Y4U	Y6U	Y8U	Y10U	Y12U
Number of Elements	4	6	8	10	12
Frequency Range (MHz)	400-500				
Bandwidth (MHz)	10				
Gain (dBd)	7.5	8.5	9.5	11	11.5
Half Power Beamwidth E Plane (deg)	55	48	40	36	32
Half Power Beamwidth H Plane (deg)	75	60	50	40	36
Front to Back Ratio (dB)	15	20	18		16
Input Impedance (ohms)	50				
Return Loss (dB & VSWR)	<-14dB 1.5:1				
Maximum Power (W)	100				
Cable Type & Length	RG58 Low loss, 1 Metre				
Connector Type	N Plug				
Max Element Length (mm)	380				
Boom Length (mm)	0.85	1.2	1.6	1.9	2.25
Boom Diameter (mm)	38				
Projected Area (m ²)	0.055	0.078	0.103	0.122	0.145
Wind Loading at 150 km/h (N)	60	85	115	135	160
Weight (kg)	1.2	1.8	2.5	3.0	3.6
Mounting Location	Rear				

Optional Extras:

- **Mounting clamps Cross clamp (CLCR) to mount to rigging pipe or the Pole Mount Clamp (CLMP) to mount on a wooden pole.**
- **Longer coax tail of either RG213, RG58, or low loss RG58 cable.**
- **Power Divider Use Model PD-2 or PD-4.**