VHF Yagis - Professional Series

Models Y2A to Y6A & Y2E to Y6E

This comprehensive range of Professional Series Yagi antennas are designed for directional point-to-point applications in the VHF bands. They are designed to be used in the most rugged environments and to withstand harsh weather conditions. They can be used for either vertical or horizontal polarisation. Please specify polarisation when ordering.

The yagis are constructed from extruded Series 6000 silver 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. The feed line is typically RG213 coaxial cable and fitted with an N plug connector. Some models are however fitted with a 75 ohm coaxial cable which acts as an impedance transformer. **Please note: Do not alter the cable length**.

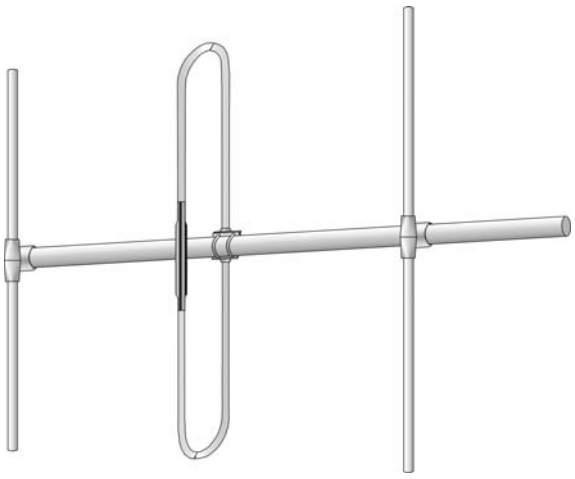
All elements are DC grounded.

Bands available:

- **A Band** **80-88 MHz**
- **FM Broadcast** **88-108 MHz**
- **Aviation Band** **115-136 MHz**
- **ESB Band** **138-144 MHz**
- **E Band** **150-156 MHz**
- **VHF Marine Band** **156-162 MHz**
- **EE Band** **162-174 MHz**
- **Spot Frequencies on request**

Optional Extras:

- **Mounting Clamps - Cross Clamp (CLCR) to mount to a rigging tube or the Pole Mount Clamp (CLPM / CLVPM) to mount on a wooden pole.**



Y3E

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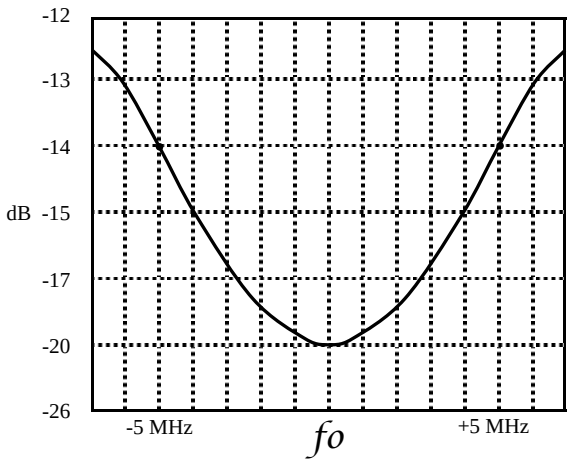
1/14 Kennaway Rd, Woolston, Christchurch

HI-TEC AERIALS NZ LIMITED

Base Station VHF

Specification:

MODEL	Y2A	Y3A	Y4A	Y6A	Y2E	Y3E	Y4E	Y6E
Number of Elements	2	3	4	6	2	3	4	6
Frequency Range (MHz)	80-88				110-170			
Bandwidth (MHz)	10	5			20	10		
Gain (dBd)	3	6	7.5	8.5	3	5	7	8.5
Half Power Beamwidth E Plane (deg)	70	65	57	52	72	65	55	50
Half Power Beamwidth H Plane (deg)	170	100	78	65	145	110	74	65
Front to Back Ratio (dB)	10		15		10	15		
Input Impedance (ohms)	50							
Return Loss (dB & VSWR)	<-14dB 1.5:1							
Maximum Power (W)	350	250						
Cable Type (RG)	213	11			213	11		
Connector	N Plug							
Max Element Length (m)	1.8	1.9			1.0			
Boom Length (m)	1.5	2.0	2.5	3.6	1.0	1.1	1.6	2.6
Boom Diameter (mm)	48				38			
Projected Area (m^2)	0.23	0.27	0.32	0.41	0.10	0.12	0.15	0.22
Wind Loading at 150 km/hr (N)	250	295	350	450	110	130	165	240
Weight (kg)	5	6	8	11	2	3	4	6
Mounting Location	Rear			Centre	Rear			Centre



Typical Return Loss - Y3E

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