

## Section 1

### BASE STATION ANTENNAS

Updated 14 February 2011

### Yagi Y200 Series

**Frequency**  
**70 – 108 MHz**

**Bandwidth**  
**Specify 4%**



The Yagi Y200 Series antennas can be manufactured to cover any 4% bandwidth you require within the frequency range 70 to 108 MHz at better than -15 dB return loss, less than 1.5:1 VSWR. Specify transmit and receive frequencies when ordering and your Yagi will be tuned accordingly.

The range includes 2, 3, 4 and 6 element models with gain varying from 3 dBd up to 9 dBd.

Available in either Aluminium or Stainless Steel.

When ordering a fully stainless steel model, simply add the letters 'SS' to the Model Order Code. e.g. Y206SS.

Due to their large size, a strut kit is highly recommended to support the antenna boom. Either a Single or 2-Way Strut Kit and heavy duty right-angle mounting clamp are available to order separately.

Mount the Yagi either Horizontal or Vertical as required. For higher gain and power, mount Yagi's in stack array formations.



Yagi Y206 supported by YS1-23 single strut kit

SPECIFICATIONS	Y202	Y203	Y204	Y206
<b>Construction</b>	Aluminium, or add letters <b>SS</b> for the fully Stainless Steel model			
<b>Frequency Range and Bandwidth</b>	Specify any 4% bandwidth within the frequency range 70 to 108 MHz and advise transmit and receive frequencies in writing when ordering			
<b>Tuning</b>	All models are tuned in the factory			
<b>Return Loss, VSWR</b>	Better than -15 dB, less than 1.5:1 across the 4% bandwidth specified			
<b>Number of Elements</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>6</b>
<b>Nominal Gain</b>	<b>3 dBd</b>	<b>6 dBd</b>	<b>7.5 dBd</b>	<b>9 dBd</b>
<b>Polarisation</b>	All models can be mount either Horizontal or Vertical as required			
<b>Maximum Power</b>	250 Watts	250 Watts	250 Watts	250 Watts
<b>Impedance</b>	50 Ohms	50 Ohms	50 Ohms	50 Ohms
<b>E-Plane at 3 dB</b>	70°	57°	54°	46°
<b>H-Plane at 3 dB</b>	135°	76°	62°	50°
<b>Front-to-Back Ratio</b>	15 dB	14 dB	14 dB	16 dB
<b>Cable Tail</b>	All models have a 1.4 metre RG213 cable tail			
<b>Connector</b>	An N-Female connector is fitted to the cable tail			
<b>Max Boom Length at low 70 MHz</b>	1.8 metres	2.7 metres	3.5 metres	5.0 metres
<b>Max Element Length</b>	2.2 metres	2.2 metres	2.2 metres	2.2 metres
<b>Weight in Aluminium</b>	3.2 kg	4.0 kg	5.5 kg	7.0 kg
<b>Weight in S/Steel</b>	4.0 kg	5.0 kg	6.9 kg	8.8 kg
<b>Projected Area</b>	0.137 m <sup>2</sup>	0.28 m <sup>2</sup>	0.30 m <sup>2</sup>	0.34 m <sup>2</sup>
<b>Wind Load 160 kph</b>	16 kg	33 kg	36 kg	41 kg
<b>Strut Kit (Not supplied)</b>	Highly recommended to support boom. Either the <b>YS1-23</b> single strut kit or <b>YS2-23</b> 2-way strut kit are available to order separately.			
<b>Mounting Clamp (Not supplied)</b>	<b>Y2300</b> heavy duty galvanised steel right angle clamp recommended for Aluminium models. <b>Y2300SS</b> heavy duty stainless steel right angle clamp recommended for Stainless Steel models. Suit masts 30 to 50 mm diam.			

**PLEASE NOTE : FM Radio Broadcasters** requiring better than -20 dB return loss performance should refer to the **Yagi Y200B Series** to be found in the "Broadcast" section of this catalogue.

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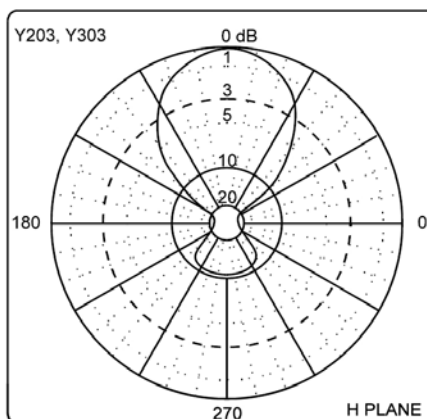
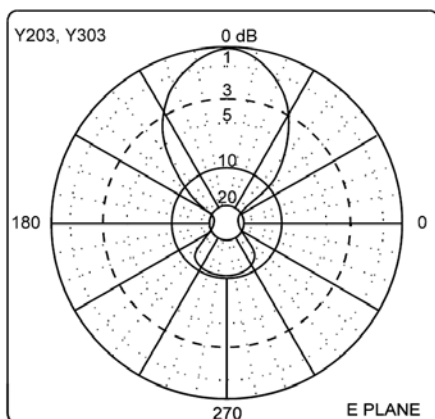
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**Sample Radiation Patterns**

**Y203, 3 Element**



**Y206, 6 Element**

