

Section 2

BROADCAST ANTENNAS

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CLG Series VHF TV and UHF TV Collinear

Frequency
137 – 820 MHz

Bandwidth
See Table



These collinear omnidirectional antennas are for use in low power VHF TV and UHF TV broadcast applications.

The design consist of a series of welded aluminium dipoles fed in phase to achieve gain and are housed inside a sturdy white fibreglass radome. An N-female connector rated for up to 250 watts input power is located at the base of the aluminium mount tube.

- For VHF TV broadcast, the **CLG3200** model delivers 3 dBd gain and can be factory tuned to cover any single channel in the Band III frequency range 137 to 230 MHz, Channels 5A to 12.
- For UHF TV, the 3 dBd gain **CLG3900** and higher 7.5 dBd gain **CLG6900** can cover any 4 consecutive channels in the Band IV and V frequency range 520 to 820 MHz, Channels 27 to 69.

Specify your channel range when ordering and your antenna will be manufactured accordingly at better than -20 dB return loss.

Mounting clamps, coaxial feeder cable, connectors and other accessories are available separately to complete the installation.

SPECIFICATIONS	CLG3200	CLG3900	CLG6900
Construction	Welded aluminium dipoles, white fibreglass radome, aluminium mount tube		
Frequency Range	VHF TV 137 to 230 MHz Channels 5A to 12	UHF TV 520 to 820 MHz Channels 27 to 69	UHF TV 520 to 820 MHz Channels 27 to 69
Channel Coverage	Any single channel	Any 4 consecutive channels	
Tuning	Factory	Factory	Factory
Return Loss, VSWR	Better than -20 dB, less than 1.2:1 across the channel range specified		
Gain	3 dBd	3 dBd	7.5 dBd
Maximum Power	250 Watts	250 Watts	250 Watts
Impedance	50 Ohms	50 Ohms	50 Ohms
DC Grounding	Yes	Yes	Yes
Polarisation	Vertical	Vertical	Vertical
E-Plane	34°	34°	13°
H-Plane	Omnidirectional	Omnidirectional	Omnidirectional
Cable	None	None	None
Connector	An N-Female connector is located at the base of the mount tube		
Approx Height	2.5 metres	1.2 metres	3 to 4 metres
	<i>The collinear antenna height reduces at higher frequencies</i>		
Weight	2.7 kg	1.5 kg	4.0 kg
Projected Area	0.078 m ²	0.038 m ²	0.096 m ²
Wind Load at 160 kph	8.2 kg	4.7 kg	11.5 kg
Mount Tube Diameter	38 mm	38 mm	48 mm
Mounting Clamps (Not supplied)	2 x UAM180L heavy duty galvanised steel parallel clamps are recommended. Suit round mast between 40 and 75 mm diameter.		
Warranty	2 Years	2 Years	2 Years

