

The Scala HDCA-5 is a ruggedly built yagi antenna, designed for professional VHF-TV transmit and receive applications.

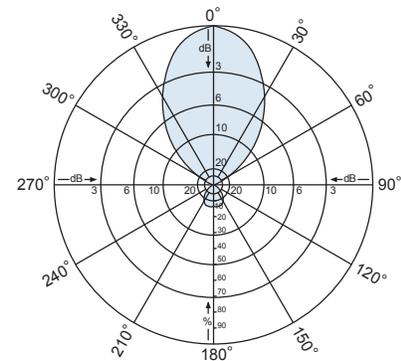
Like all Scala antennas, the HDCA-5 is made of the finest materials using state of the art electrical and mechanical designs resulting in superior performance and long service life.

The HDCA-5 may be used stand alone or in stacked arrays for higher gain, increased side-lobe suppression, or custom azimuth patterns.

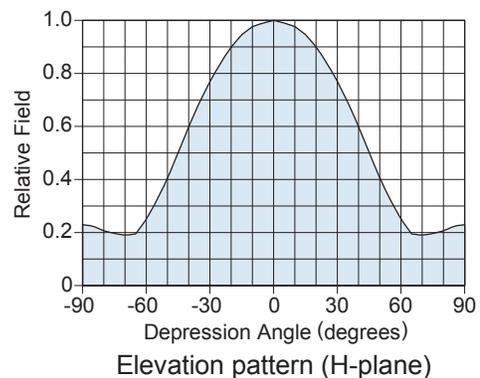


Specifications			
Frequency range	Any specified VHF-TV channel 54 to 88 MHz		
Gain	Gain	Power gain	
	Channels 2—3	6.75 dBd	4.73
	Channels 4—6	7.5 dBd	5.62
Impedance	75 ohms (50 ohms with optional transformer)		
VSWR	<1.5:1		
Polarization	Horizontal		
Front-to-back ratio	>14 dB		
Maximum input power	250 watts, type "N" 75 ohm termination		
Azimuth pattern	Channels 2—3	58 degrees (half-power)	
	Channels 4—6	52 degrees (half-power)	
Elevation pattern	68 degrees (half-power)		
Connector	75Ω N female		
Weight	19.7 lb (9 kg) maximum		
Dimensions	106.5 x 105.2 inches maximum (2705 x 2672 mm)		
Wind load at 100 mph (161 kph)	Front	127 lbf (565 N)	
	Wind survival rating*	120 mph (193 kph)	
Shipping dimensions	112 x 6 x 5 inches maximum (2845 x 152 x 127 mm)		
Shipping weight	25 lb (11.3 kg) maximum		
Mounting	For masts of 2.375 inch (60 mm) OD.		
	HDCA-5/HCM	Horizontal polarization center-mount	
	HDCA-5/HRM	Horizontal polarization rear-mount	

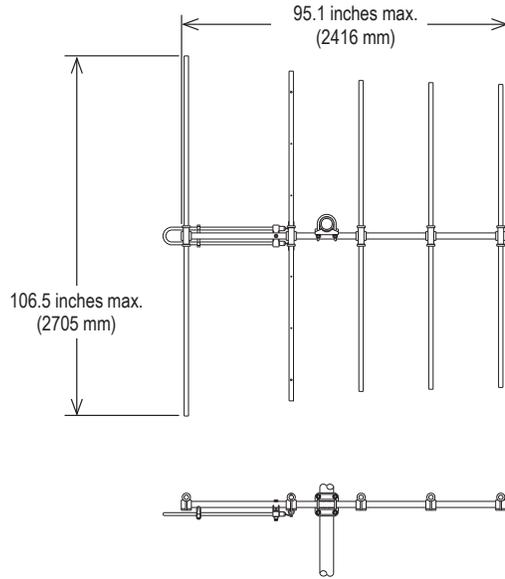
*Mechanical design is based on environmental conditions as stipulated in TIA-222-G-2 (December 2009) and/or ETS 300 019-1-4 which include the static mechanical load imposed on an antenna by wind at maximum velocity. Contact KBU for further details.



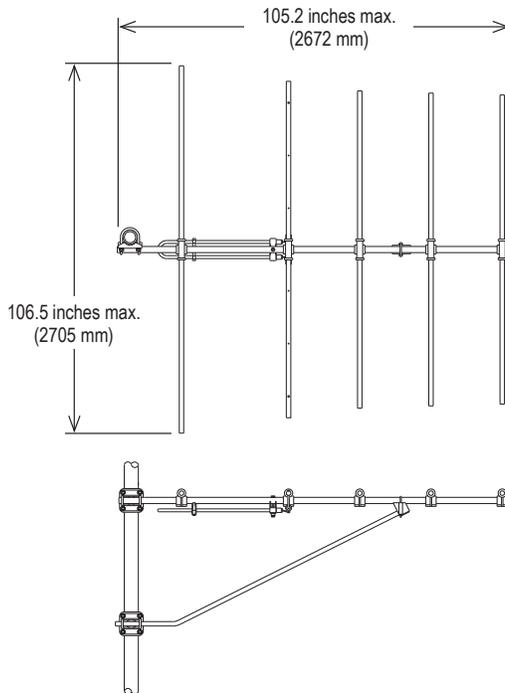
Azimuth pattern (E-plane - typical)



Elevation pattern (H-plane)



HDCA-5/HCM
Horizontally polarized
Channels 2—6



HDCA-5/HRM
Horizontally polarized
Channels 2—6

30075a subject to alteration