

HDCA-5

VHF-TV YAGI ANTENNA

6.75 to 8 dBd gain
54 to 88 MHz (Channels 2–6)

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 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 or vertical		
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 105.9 inches maximum (2705 x 2690 mm)		
Equivalent flat plate area	4.3 ft ² (0.4 m ²) maximum		
Wind survival rating	120 mph (194 kph)		
Shipping dimensions	112 x 6 x 5 inches maximum (2845 x 153 x 127 mm)		
Shipping weight	25 lb (11.3 kg) maximum		
Mounting	For masts of 2.375 inches (60 mm) OD.		

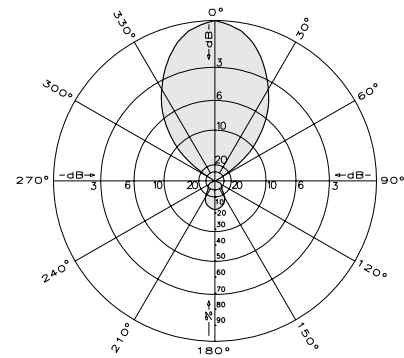
HDCA-5/HCM Horizontal polarization center-mount

HDCA-5/HRM Horizontal polarization rear-mount

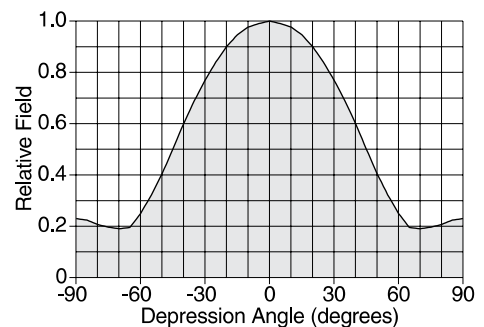
* Mechanical design is based on environmental conditions as stipulated in EIA-222-F (June 1996) and/or ETS 300 019-1-4 which include the static mechanical load imposed on an antenna by wind at maximum velocity. See the Engineering Section of the catalog for further details.

Order Information:

Contact Scala Customer Service for detailed order information.



Azimuth pattern (E-plane - typical)

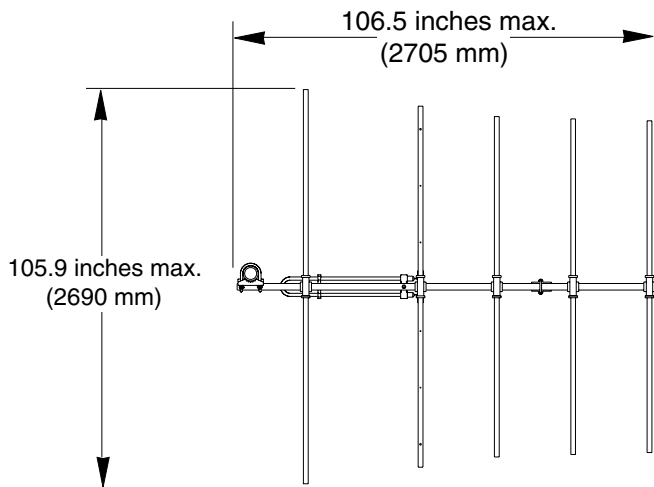


Elevation pattern (H-plane)

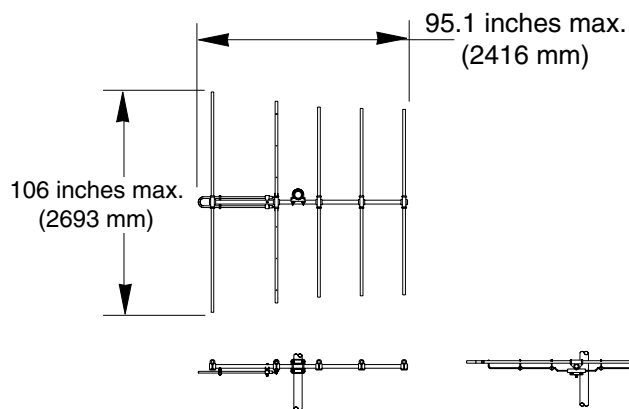
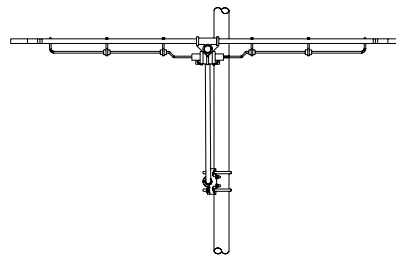
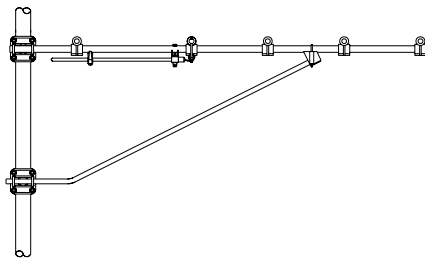


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HDCA-5/HRM
Horizontally polarized
Channels 2–6



HDCA-5/HCM
Horizontally polarized
Channels 2–6

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All specifications are subject to change without notice. The latest specifications are available at www.kathrein-scala.com.

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