

HDCA-10

VHF-TV YAGI ANTENNA

8.75 to 10 dBd gain
54 to 216 MHz (Channels 2–13)

The Scala HDCA-10 is a ruggedly built yagi antenna, designed for professional VHF-TV transmit and receive applications.

Like all Scala antennas, the HDCA-10 is made of the finest materials resulting in superior performance and long service life.

The HDCA-10 may be used stand-alone or in stacked arrays for higher gain, increased side-lobe suppression, or custom azimuth patterns.



HDCA-10/URM
Horizontally polarized
Channels 7–13

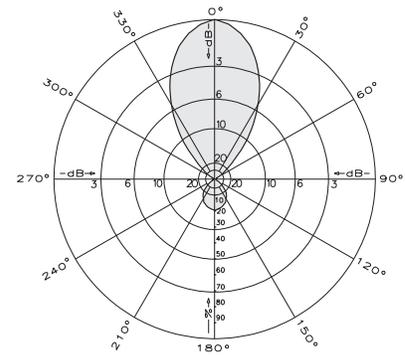
Specifications:

Frequency range	Any specified VHF-TV channel 54 to 216 MHz	
Gain	Channels 2–3	8.75 dBd
	Channels 4–6	9.5 dBd
	Channels 7–13	10 dBd
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	50 degrees (half-power)
	Channels 4–6	48 degrees (half-power)
	Channels 7–13	46 degrees (half-power)
Elevation pattern	50 degrees (half-power)	
Connector	75Ω N female	
Weight	34.1 lb (15.5 kg) maximum	
Dimensions	187 x 109 inches maximum (4750 x 2769 mm)	
Equivalent flat plate area	7.62 ft ² (0.708 m ²) maximum	
Wind survival rating*	100 mph (160 kph)	
Shipping dimensions	114 x 10 x 6 inches maximum (2896 x 254 x 153 mm)	
Shipping weight	47 lb (21.3 kg)	
Mounting	For masts of 2.375 inches (60 mm) OD.	
	HDCA-10/HCM	Horizontal polarization center-mount
	HDCA-10/HRM	Horizontal polarization rear-mount
	HDCA-10/URM	Horizontal or vertical polarization rear-mount

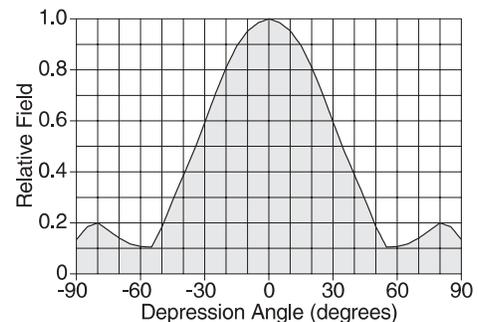
* Mechanical design is based on environmental conditions as stipulated in EIA-222-F (June 1996) and/or ETS 300 019-1-4 which include the static mechanical load imposed on an antenna by wind at maximum velocity. See the Engineering Section of the catalog for further details.

Order Information:

Contact Scala Customer Service for detailed order information.



Azimuth pattern (E-plane - typical)

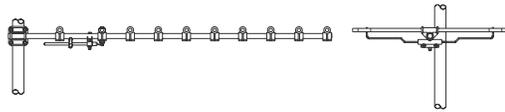
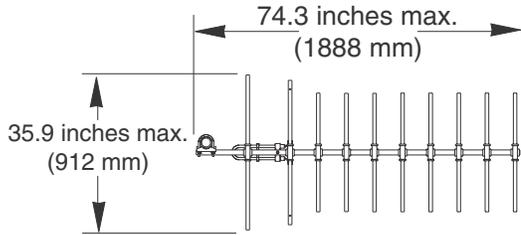


Elevation pattern (H-plane)

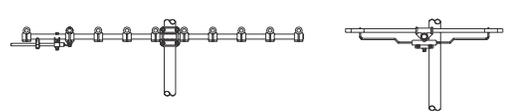
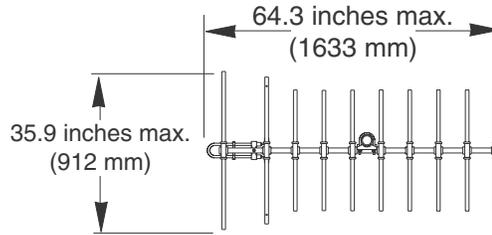


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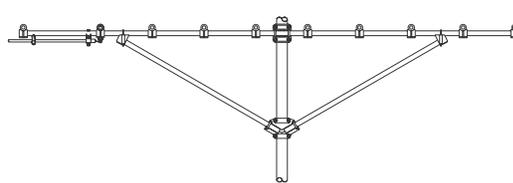
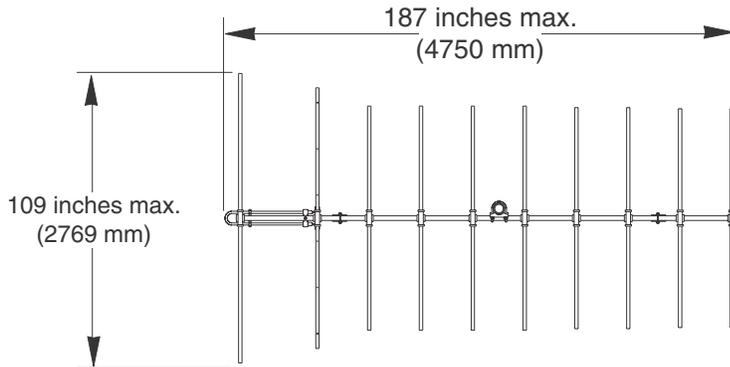
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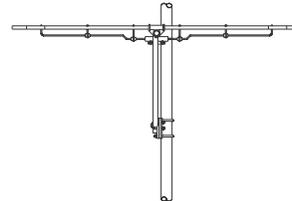
HDCA-10/URM
Horizontally polarized
Channels 7–13



HDCA-10/HCM
Horizontally polarized
Channels 7–13



HDCA-10/HCM
Horizontally polarized
Channels 2–6



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All specifications are subject to change without notice