

The Scala YA7-155 and YA7-166 are ruggedly built, broadband, folded dipole yagi antennas, designed for control station, point-to-point, and SCADA applications.

Like all Scala antennas, the YA7-155 and YA7-166 are made of the finest materials using state of the art electrical and mechanical designs resulting in superior performance and long service life.

The YA7-155 and YA7-166 are anodized and may be used stand alone or in stacked arrays for higher gain, increased side-lobe suppression, or custom azimuth patterns.

Specifications		
Frequency range		
	YA7-155	150—164 MHz
	YA7-166	160—174 MHz
Gain		7 dBd (9.15 dBi)
Impedance		50 ohms
VSWR		<1.35:1
Polarization		Horizontal or vertical
Front-to-back ratio		13 dB
Maximum input powe	er	250 watts
H-plane beamwidth		80 degrees (half-power)
E-plane beamwidth		58 degrees (half-power)
Connector		N female
Weight		10 lb (4.5 kg)
Dimensions		
	YA7-155	55 x 38.8 x 5 inches
		(1397 x 986 x 127 mm)
	YA7-166	5 52.4 x 36.4 x 5 inches
		(1331 x 925 x 127 mm)
Wind load at 100 mph	(161 kph)	
Front		40 lbf (178 N)
Wind survival rating*		100 mph (161 kph)
Shipping dimensions		
	YA7-155	57 x 13 x 8 inches
		(1448 x 330 x 203 mm)
	YA7-166	54 x 13 x 8 inches
		(1372 x 330 x 203 mm)
Shipping weight		15.0 lb (6.8 kg)
Mounting		For masts of 2.375 inch (60 mm) OD.

<sup>\*</sup>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.



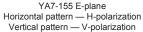


Horizontal pattern — V-polarization Vertical pattern — H-polarization



Horizontal pattern — V-polarization Vertical pattern — H-polarization







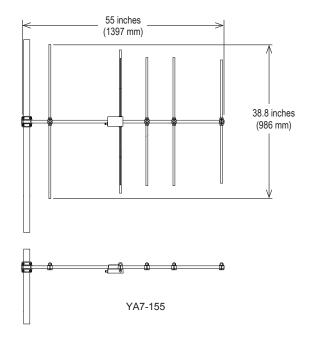
Horizontal pattern — H-polarization Vertical pattern — V-polarization

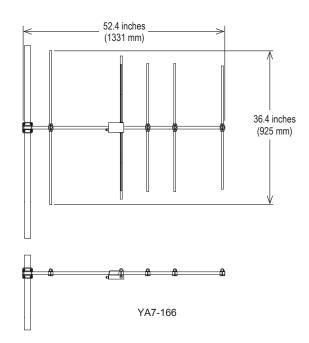
30006a subject to alteration

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

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## Order information

Model	Description	
YA7-155	150—164 MHz antenna	
YA7-166	160—174 MHz antenna	