

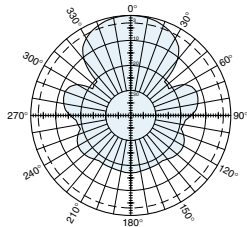
The Kathrein Scala Division CA7 series yagi antennas are intended for use in professional fixed-station applications in the 406–512 MHz band. They feature:

- Internal balun and dipole feedpoint sealed within the boom assembly.
- Balanced feed system, with no capacitors.
- Heavy wall anodized aluminum pipe and tubing.
- Heavy-duty aluminum castings and stainless steel hardware.
- All aluminum components anodized for corrosion resistance.
- Entire antenna at DC ground potential.
- Dual and quad arrays also available.



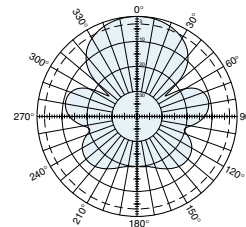
(Shown vertically polarized)

CA7-410 CA7-460  
CA7-480 CA7-490



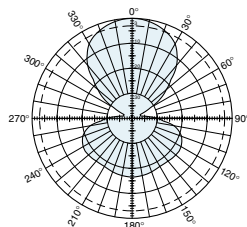
H-plane  
Horizontal pattern – V-polarization  
Vertical pattern – H-polarization

CA7-500



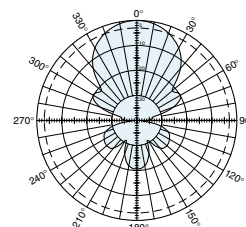
H-plane  
Horizontal pattern – V-polarization  
Vertical pattern – H-polarization

CA7-410 CA7-460  
CA7-480 CA7-490



E-plane  
Horizontal pattern – H-polarization  
Vertical pattern – V-polarization

CA7-500



E-plane  
Horizontal pattern – H-polarization  
Vertical pattern – V-polarization



10106-C

<b>Specifications:</b>	<b>CA7-410</b>
Frequency range	406–420 MHz
Gain	12 dBi
Impedance	50 ohms
VSWR	<1.35:1
Polarization	Horizontal or vertical
Front-to-back ratio	>18 dB
Maximum input power	250 watts (at 50°C)
H-plane beamwidth	53 degrees (half-power)
E-plane beamwidth	41 degrees (half-power)
Connector	N female
Weight	6.5 lb (2.95 kg)
Dimensions	44 x 16.5 inches (1118 x 419 mm)
Wind load Front	at 100 mph (160 kph) 21 lbf (90 N)
Wind survival rating*	120 mph (200 kph)
Shipping dimensions	48 x 26 x 6 inches (1219 x 660 x 152 mm)
Shipping weight	12 lb (5.4 kg)
Mounting	For masts of 2.375 inches (60 mm) OD.

<b>Specifications:</b>	<b>CA7-460</b>	<b>CA7-480</b>
Frequency range	450–470 MHz*	470–490 MHz
Gain	12 dBi	12 dBi
Impedance	50 ohms	50 ohms
VSWR	<1.35:1**	<1.35:1
Polarization	Horizontal or vertical	Horizontal or vertical
Front-to-back ratio	>18 dB	>18 dB
Maximum input power	250 watts (at 50°C)	250 watts (at 50°C)
H-plane beamwidth	53 degrees (half-power)	53 degrees (half-power)
E-plane beamwidth	41 degrees (half-power)	41 degrees (half-power)
Connector	N female	N female
Weight	6.5 lb (2.95 kg)	6.5 lb (2.95 kg)
Dimensions	39.9 x 14.9 inches (1013 x 378 mm)	38.1 x 13.1 inches (968 x 333 mm)
Wind load Front	at 100 mph (160 kph) 21 lbf (90 N)	at 100 mph (160 kph) 21 lbf (90 N)
Wind survival rating*	120 mph (200 kph)	120 mph (200 kph)
Shipping dimensions	41 x 15 x 6 inches (1041 x 381 x 152 mm)	41 x 15 x 6 inches (1041 x 381 x 152 mm)
Shipping weight	9 lb (4.1 kg)	9 lb (4.1 kg)
Mounting	For masts of 2.375 inches (60 mm) OD.	For masts of 2.375 inches (60 mm) OD.

\*\* VSWR for 440–470 MHz <1.5:1

\* 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. See the Engineering Section of the catalog for further details.

**Order Information:**

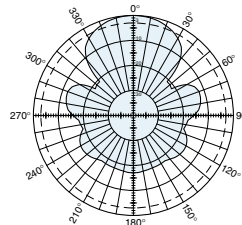
Model	Description
CA7-410	406–420 MHz Yagi antenna
CA7-460	450–470 MHz Yagi antenna
CA7-480	470–490 MHz Yagi antenna

All specifications are subject to change without notice. The latest specifications are available at [www.kathrein-scala.com](http://www.kathrein-scala.com).

<b>Specifications:</b>	<b>CA7-490</b>	<b>CA7-500</b>
Frequency range	480–500 MHz	490–512 MHz
Gain	12 dBi	12 dBi
Impedance	50 ohms	50 ohms
VSWR	<1.35:1	<1.35:1
Polarization	Horizontal or vertical	Horizontal or vertical
Front-to-back ratio	>18 dB	>18 dB
Maximum input power	250 watts (at 50°C)	250 watts (at 50°C)
H-plane beamwidth	53 degrees (half-power)	53 degrees (half-power)
E-plane beamwidth	41 degrees (half-power)	41 degrees (half-power)
Connector	N female	N female
Weight	6.5 lb (2.95 kg)	6.5 lb (2.95 kg)
Dimensions	37.6 x 12.2 inches (956 x 311 mm)	36.5 x 12.5 inches (927 x 318 mm)
Wind load Front	at 100 mph (160 kph) 21 lbf (90 N)	at 100 mph (160 kph) 21 lbf (90 N)
Wind survival rating*	120 mph (200 kph)	120 mph (200 kph)
Shipping dimensions	41 x 15 x 6 inches (1041 x 381 x 152 mm)	41 x 15 x 6 inches (1041 x 381 x 152 mm)
Shipping weight	9 lb (4.1 kg)	9 lb (4.1 kg)
Mounting	For masts of 2.375 inches (60 mm) OD.	For masts of 2.375 inches (60 mm) OD.

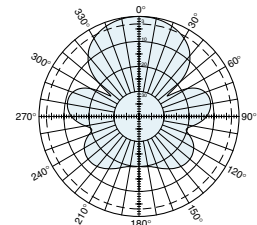
\*Mechanical design is based on environmental conditions as stipulated in TIA-222-G-2 (December 2009) and/or ETS 300 019-1-4 which include the static mechanical load imposed on an antenna by wind at maximum velocity. See the Engineering Section of the catalog for further details.

CA7-410 CA7-460  
CA7-480 CA7-490



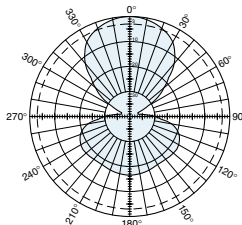
H-plane  
Horizontal pattern – V-polarization  
Vertical pattern – H-polarization

CA7-500



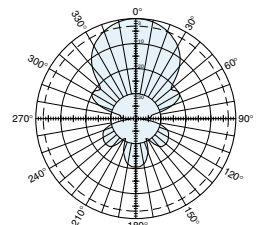
H-plane  
Horizontal pattern – V-polarization  
Vertical pattern – H-polarization

CA7-410 CA7-460  
CA7-480 CA7-490



E-plane  
Horizontal pattern – H-polarization  
Vertical pattern – V-polarization

CA7-500

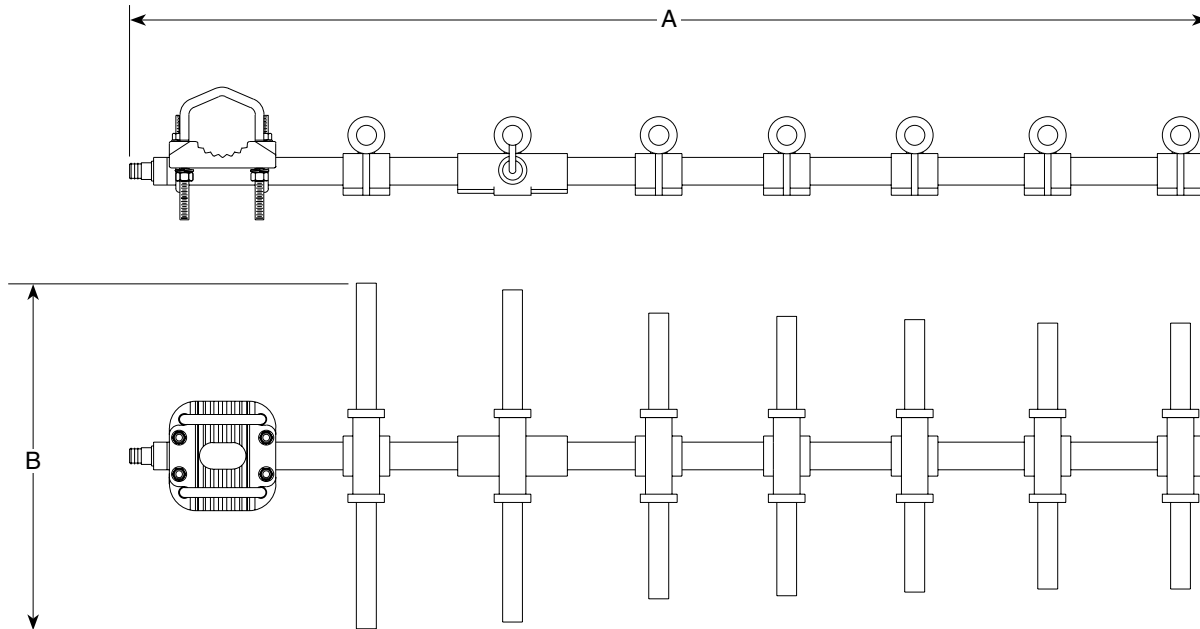


E-plane  
Horizontal pattern – H-polarization  
Vertical pattern – V-polarization

**Order Information:**

Model	Description
CA7-490	480–500 MHz Yagi antenna
CA7-500	490–512 MHz Yagi antenna

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(Shown vertically polarized)

**Dimensions:**

Model	A	B
CA7-410 (1118 mm)	44 inches (419 mm)	16.5 inches
CA7-460 (1013 mm)	39.9 inches (378 mm)	14.9 inches
CA7-480 (986 mm)	38.1 inches (333 mm)	13.1 inches
CA7-490 (956 mm)	37.6 inches (311 mm)	12.2 inches
CA7-500 (927 mm)	36.5 inches (318 mm)	12.5 inches

**Order Information:**

Model	Description
CA7-410	406–420 MHz Yagi antenna
CA7-460	450–470 MHz Yagi antenna
CA7-480	470–490 MHz Yagi antenna
CA7-490	480–500 MHz Yagi antenna
CA7-500	490–512 MHz Yagi antenna

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