

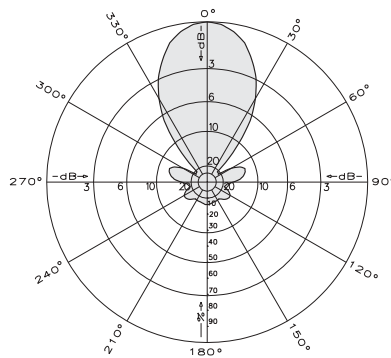
**CA7 series**  
**YAGI ANTENNA**  
10 dBd gain  
406–512 MHz

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:

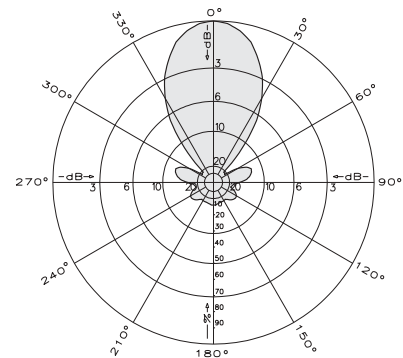
- Internal balun and dipole feedpoint sealed within the boom assembly.
- Balanced feed system, with no capacitors.
- Heavy wall anodized aluminum pipe and tubing.
- Heavy-duty aluminum castings and stainless steel hardware.
- All aluminum components anodized for corrosion resistance.
- Entire antenna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



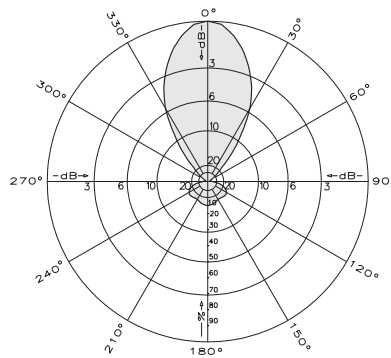
(Shown vertically polarized)



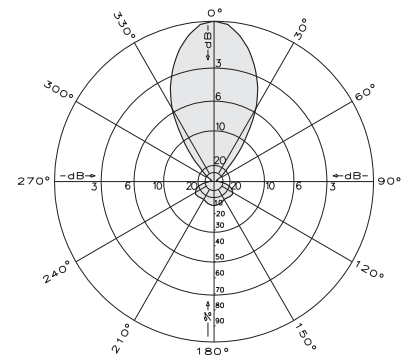
CA7-460 H-plane  
Horizontal pattern – V-polarization  
Vertical pattern – H-polarization



CA7-480 H-plane  
Horizontal pattern – V-polarization  
Vertical pattern – H-polarization



CA7-460 E-plane  
Horizontal pattern – H-polarization  
Vertical pattern – V-polarization



CA7-480 E-plane  
Horizontal pattern – H-polarization  
Vertical pattern – V-polarization



10106-B

**CA7 series**  
**YAGI ANTENNA**  
10 dBd gain  
406–512 MHz

<b>Specifications:</b>	<b>CA7-410</b>
Frequency range	406–420 MHz
Gain	10 dBd
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)
Equivalent flat plate area	0.63 ft <sup>2</sup> (0.059 m <sup>2</sup> )
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	10 dBd	10 dBd
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)
Equivalent flat plate area	0.55 ft <sup>2</sup> (0.051 m <sup>2</sup> )	0.53 ft <sup>2</sup> (0.049 m <sup>2</sup> )
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 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:**

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

All specifications are subject to change without notice

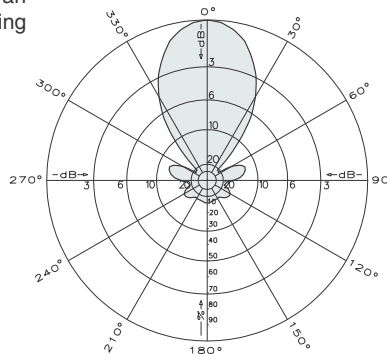
# CA7 series

## YAGI ANTENNA

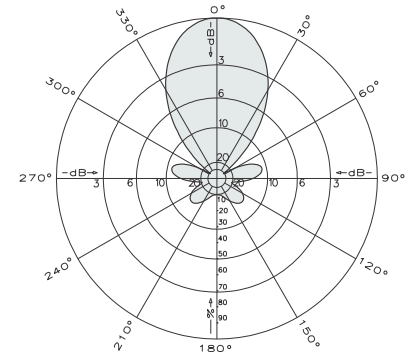
10 dBd gain  
406–512 MHz

Specifications:	CA7-490	CA7-500
Frequency range	480–500 MHz	490–512 MHz
Gain	10 dBd	10 dBd
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)
Equivalent flat plate area	0.5 ft <sup>2</sup> (0.046 m <sup>2</sup> )	0.5 ft <sup>2</sup> (0.046 m <sup>2</sup> )
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.

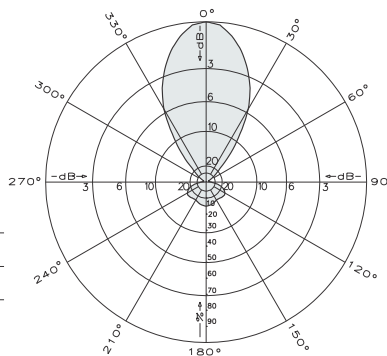
\* Mechanical design is based on environmental conditions as stipulated in EIA-222-F (June 1996) and/or ETS 300 019-1-4 which include the static mechanical load imposed on an antenna by wind at maximum velocity. See the Engineering Section of the catalog for further details.



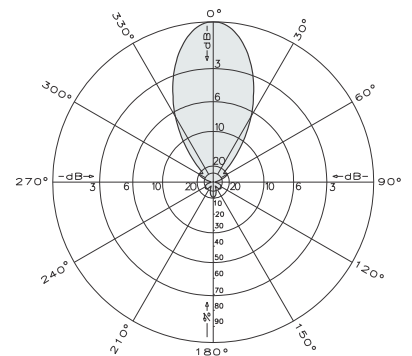
CA7-490 H-plane  
Horizontal pattern – V-polarization  
Vertical pattern – H-polarization



CA7-500 H-plane  
Horizontal pattern – V-polarization  
Vertical pattern – H-polarization



CA7-490 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
CA7-490N	480–500 MHz Yagi antenna
CA7-500N	490–512 MHz Yagi antenna

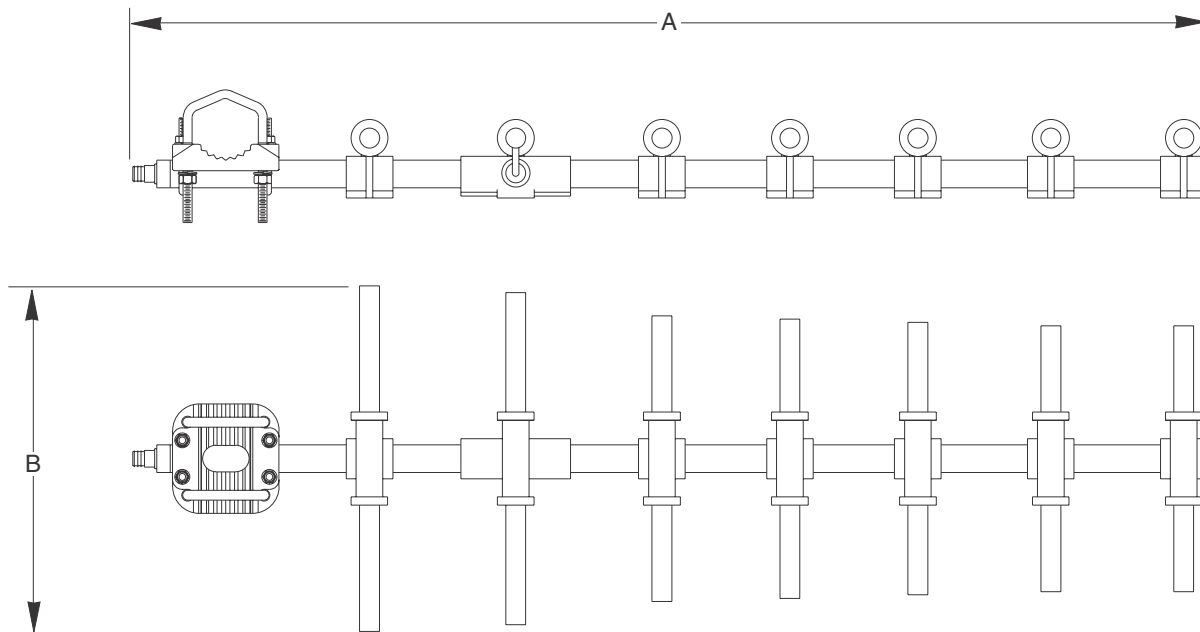
All specifications are subject to change without notice

**CA7 series**

**YAGI ANTENNA**

10 dBd gain

406–512 MHz



(Shown vertically polarized)

**Dimensions:**

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

All specifications are subject to change without notice