

The Kathrein 741 515 directional panel antenna with dual polarization is intended for use in professional fixed-station applications in the 380–500 MHz band. It features:

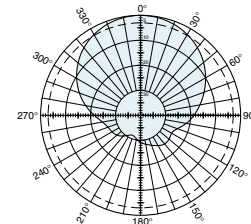
- Heavy-duty stainless steel and aluminum construction throughout.
- Excellent bandwidth and VSWR specifications.
- Heavy fiberglass radome assures excellent performance in heavy icing conditions.
- All metal parts at DC ground potential.
- Multiple antennas may be used to meet a variety of radiation patterns.

Specifications:

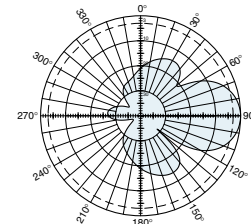
Frequency range	380–500 MHz
Gain	380–430 MHz 11.5 dBi 430–500 MHz 12 dBi
Impedance	50 ohms
VSWR	<1.5:1
Intermodulation (2x20w)	IM3: <-150 dBc
Polarization	+45° and -45°
Front to back ratio	> 25 dB (co-polar)
Isolation	> 30 dB
Maximum input power	500 watts (at 50° C) per input
H-plane beamwidth	± 45° polarization 380–430 MHz 68 degrees (half-power) 430–500 MHz 65 degrees (half-power)
E-plane beamwidth	± 45° polarization 380–430 MHz 37 degrees (half-power) 430–500 MHz 32 degrees (half-power)
Connectors	2 x 7-16 DIN female
Weight	26.5 lb (12 kg)
Dimensions	39.1 x 19.4 x 7.5 inches (992 x 492 x 190 mm)
Equivalent flat plate area	6.88 ft ² (0.639 m ²)
Wind survival rating*	120 mph (200 kph)
Shipping dimensions	41.8 x 22 x 10.8 inches (1062 x 562 x 274 mm)
Shipping weight	34.6 lb (15.7 kg)
Mounting	See mounting hardware options on reverse.

See reverse for order information.

* 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.



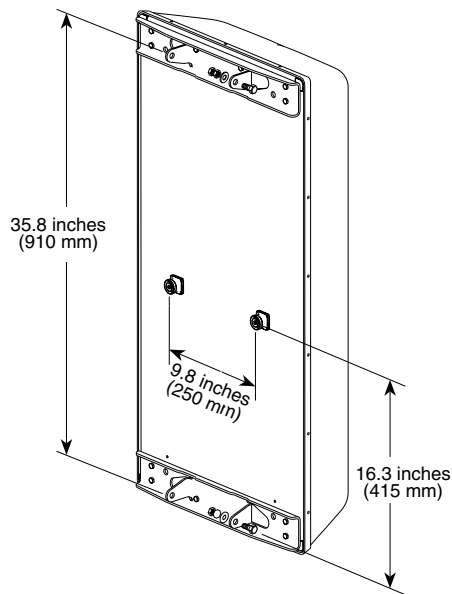
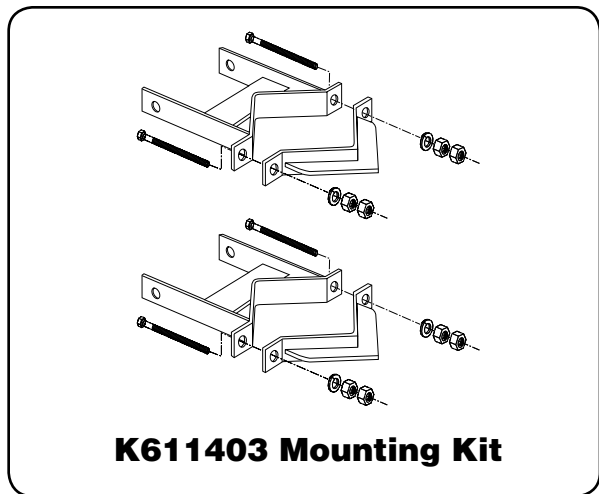
Horizontal pattern
±45°-polarization



Vertical pattern
±45°-polarization



10575-C
936.1835/e



Mounting Options:

Model	Description
733 736	Mounting Kit for 2 to 4.9 inch (50 to 125mm) OD mast.
K611403 (shown)	Offset Mounting Kit for 4.6 to 8.3 inch (116 to 210 mm) OD mast.
K611404	Mounting Kit for 8.3 to 15 inch (210 to 380mm) OD mast.
K611405	Mounting Kit for 15 to 20.5 inch (380 to 521mm) OD mast.
733 695	Tilt Mounting Kit 0–25 degrees downtilt angle.

Order Information:

Model	Description
741 515	Panel antenna with 7-16 DIN connectors

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