



**SL-8**  
UHF-TV PARASLOT® ANTENNA  
11.4 dBd Gain  
470 to 862 MHz (Channels 14–69\*)  
Horizontally polarized

The Kathrein Scala Division SL-8 Paraslot UHF-TV antenna is a high performance slot array offering excellent performance in UHF-TV transmit applications requiring omnidirectional coverage. The SL-8 is available in single and multichannel models with a 1,000 watt power rating and optional null-fill.

Kathrein Scala Division's patented symmetrical parallel feed system is completely housed within the center of the antenna, and resists changes in radiation pattern caused by ice or snow buildup on the periphery of the antenna.

The standard SL-8 is a single-channel slot array with a power input rating of 1000 watts, VSWR of 1.1:1 maximum, 1.75 degrees of electrical beamtilt, and 7/8" EIA flange termination. Options include null-fill and additional beamtilt.

The SL-8-2 is designed for wideband performance over two alternate nonadjacent 6 MHz UHF-TV channels (e.g. Channels 60 and 62) permitting two transmitters to be diplexed into a single antenna. The SL-8-2 provides VSWR of 1.15:1 or better across the two specified channels.

The SL-8-3 Paraslot provides coverage of three 6 MHz alternate nonadjacent UHF-TV channels (e.g. Channels 60, 62, and 64). This arrangement allows three UHF-TV transmitters to be multiplexed into a single antenna. VSWR is held to 1.25:1 or better over the three specified channels.

\*Available for 6, 7, or 8 MHz channels in accordance with various international channel allocation plans.



10479-G

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# SL-8

## UHF-TV PARASLOT® ANTENNA

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Horizontally polarized

**Specifications: One UHF-TV Channel (up to 8 MHz bandwidth)**

Frequency range (MHz)	470 to 548	548 to 674	674 to 788	788 to 862
Maximum gain (dBd)	11.4 dBd	11.4 dBd	11.4 dBd	11.4 dBd
Power gain	13.8	13.8	13.8	13.8
VSWR	< 1.1:1	< 1.1:1	< 1.1:1	< 1.1:1

**Specifications: One UHF-TV Channel with Null Fill (up to 8 MHz bandwidth)**

Frequency range (MHz)	470 to 554	554 to 686	686 to 800	800 to 862
Maximum gain (dBd)	10.5 dBd	10.5 dBd	10.5 dBd	10.5 dBd
Power gain	11.22	11.22	11.22	11.22
VSWR	< 1.1:1	< 1.1:1	< 1.1:1	< 1.1:1

**Specifications: Two UHF-TV Channels (up to 24 MHz bandwidth)**

Frequency range (MHz)	470 to 554	542 to 680	668 to 794	782 to 862
Maximum gain (dBd)	10.5 dBd	10.5 dBd	10.5 dBd	10.5 dBd
Power gain	11.22	11.22	11.22	11.22
VSWR				
18 MHz band	< 1.15:1	< 1.15:1	< 1.15:1	< 1.15:1
24 MHz band	< 1.2:1	< 1.2:1	< 1.2:1	< 1.2:1

**Specifications: Three UHF-TV Channels (up to 40 MHz bandwidth)**

Frequency range (MHz)	470 to 566	542 to 692	668 to 806	782 to 862
Maximum gain (dBd)	10.5 dBd	10.5 dBd	10.5 dBd	10.5 dBd
Power gain	11.22	11.22	11.22	11.22
VSWR				
30 MHz band	< 1.25:1	< 1.25:1	< 1.25:1	< 1.25:1
40 MHz band	< 1.3:1	< 1.3:1	< 1.3:1	< 1.3:1

**Mechanical Specifications:**

Weight	95 lb (44 kg)	75 lb (34 kg)	65 lb (30 kg)	35 lb (16 kg)
Height	288 inches (732 cm)	240 inches (610 cm)	216 inches (549 cm)	180 inches (457 cm)
Diameter	4 inches (102 mm)	3.5 inches (89 mm)	2.875 inches (73 mm)	2.375 inches (60 mm)
Wind load	at 99 mph (160 kph)	at 99 mph (160 kph)	at 99 mph (160 kph)	at 99 mph (160 kph)
Front/Side/Rear	190 lbf (841 N)	137 lbf (605 N)	101 lbf (447 N)	86 lbf (379 N)
Wind survival rating	80 mph (130 kph)	90 mph (145 kph)	90 mph (145 kph)	80 mph (130 kph)
Shipping dimensions	302 x 9 x 7 inches (767 x 23 x 18 cm)	280 x 9 x 7 inches (711 x 23 x 18 cm)	254 x 9 x 7 inches (645 x 23 x 18 cm)	193 x 7 x 7 inches (490 x 18 x 18 cm)
Shipping weight	210 lb (96 kg)	170 lb (78 kg)	130 lb (59 kg)	70 lb (32 kg)

\*Available for 6, 7, or 8 MHz channels in accordance with various international channel allocation plans.

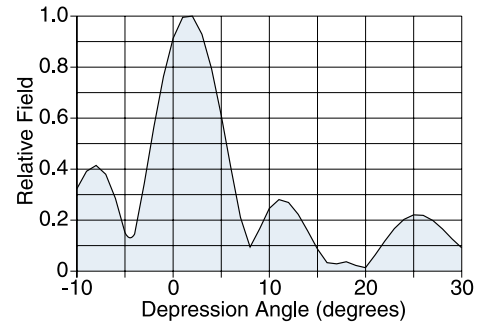
All specifications are subject to change without notice. The latest specifications are available at [www.kathrein-scala.com](http://www.kathrein-scala.com).

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Email: [communications@kathrein.com](mailto:communications@kathrein.com) Internet: [www.kathrein-scala.com](http://www.kathrein-scala.com)

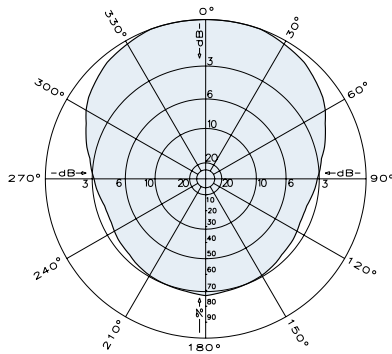
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**General Specifications:**

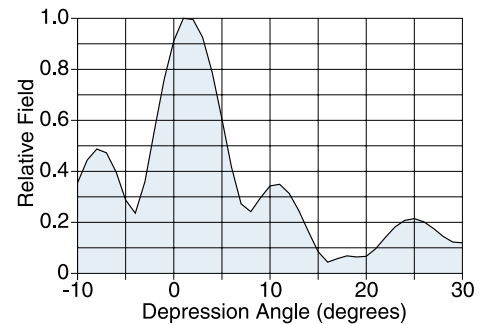
Frequency range	470 to 862 MHz*
Impedance	50 ohms
Polarization	Horizontal
Maximum input power	1000 watts
Electrical beamtilt	1.75 degrees standard (special beamtilt options are available)
Null fill	Optional
Connector	7/8" EIA flange
Mounting	Mounting kits are available for attachment to a flat vertical surface or to masts with 2.375 to 4.5 inch (60 to 114 mm) OD.



**Standard elevation pattern (H-plane)**



**Typical azimuth pattern (E-plane)**

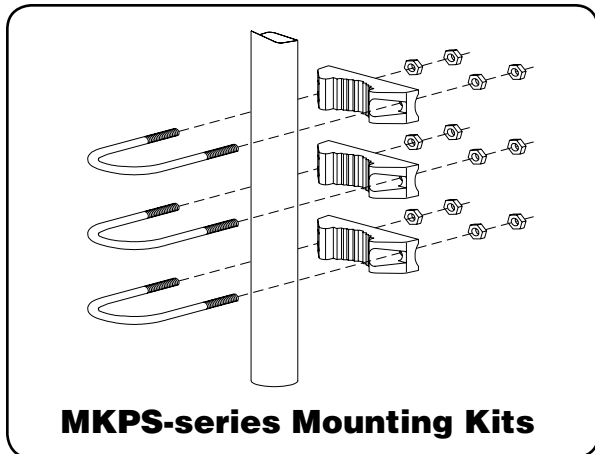


**Typical elevation pattern (H-plane) with null fill**

**Order Information:**

Contact Kathrein Scala Division Customer Service for detailed order information.

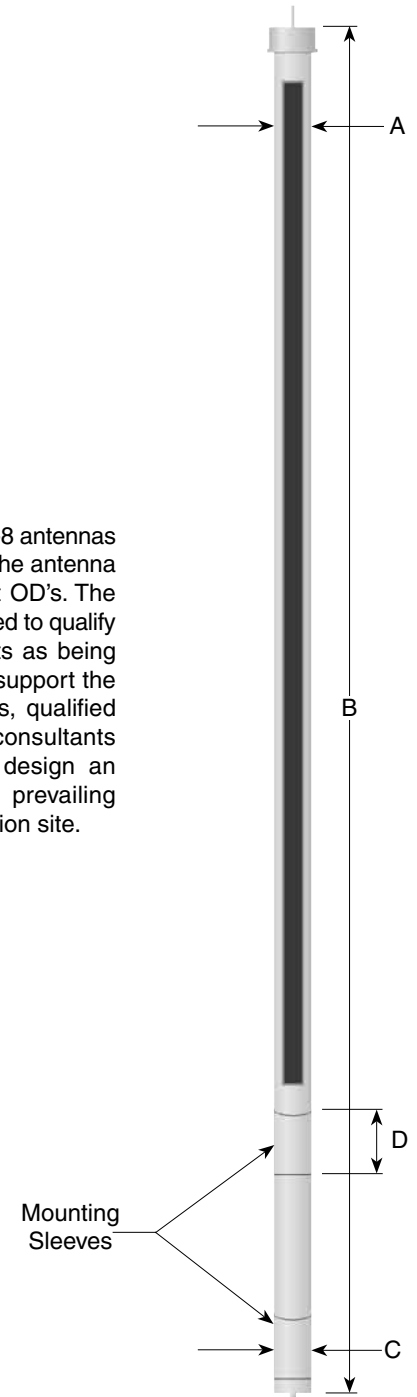
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**Mounting Options:**

Model	Description
<b>788–862 MHz</b>	
MKPS-13	Mounting Kit for mounting to a flat plate
MKPP-23*	Mounting Kit for 2.375–3.5 inch (60–89 mm) OD mast.
MKPP-26*	Mounting Kit for 2.375–5 inch (60–127 mm) OD mast.
MKGK-1	Guy Kit
MKSK-1	Spreader Kit
<b>674–788 MHz</b>	
MKPS-14	Mounting Kit for mounting to a flat plate
MKPP-23*	Mounting Kit for 2.375–3.5 inch (60–89 mm) OD mast.
MKPP-26*	Mounting Kit for 2.375–5 inch (60–127 mm) OD mast.
MKGK-2	Guy Kit
MKSK-2	Spreader Kit
<b>548–674 MHz</b>	
MKPS-15	Mounting Kit for mounting to a flat plate
MKPP-26*	Mounting Kit for 2.375–5 inch (60–127 mm) OD mast.
MKGK-3	Guy Kit
MKSK-3	Spreader Kit
<b>470–548 MHz</b>	
MKPS-16	Mounting Kit for mounting to a flat plate
MKPP-26*	Mounting Kit for 2.375–5 inch (60–127 mm) OD mast.
MKGK-4	Guy Kit
MKSK-4	Spreader Kit

\*Pipe mounting kits for SL-8 antennas permit the installation of the antenna to a variety of pipe mast OD's. The range of OD is not intended to qualify those pipe support masts as being structurally adequate to support the antenna and in all cases, qualified structural engineering consultants should be engaged to design an adequate mount for all prevailing conditions at the installation site.



A	B	C	D
2.375 inches (60 mm)	180 inches (457 cm)	2.875 inches (74 mm)	7.9 inches (201 mm)
2.875 inches (73 mm)	216 inches (549 cm)	3.5 inches (89 mm)	7.9 inches (201 mm)
3.5 inches (89 mm)	240 inches (610 cm)	4 inches (102 mm)	7.9 inches (201 mm)
4 inches (102 mm)	288 inches (732 cm)	4.5 inches (114 mm)	7.9 inches (201 mm)

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