

## VHF-TV Log-periodic Antenna 66 to 88 MHz (Channels 4–6)

The Kathrein Scala Division CL-46 is a ruggedly built, horizontally polarized log-periodic antenna, designed for professional VHF-TV transmit and receive applications.

Like all Kathrein Scala Division antennas, the CL-46 is made of the finest materials using state of the art electrical and mechanical designs, resulting in superior performance and long service life.

The CL-46 may be used stand alone or in arrays for higher gain, increased side-lobe suppression, or custom azimuth patterns.

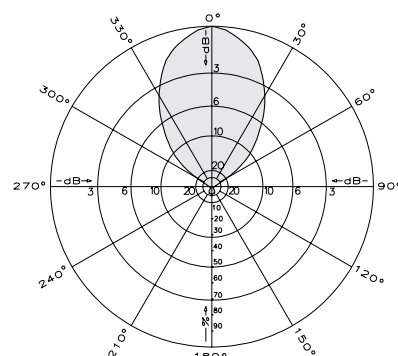


### Specifications:

|                       |  |
|-----------------------|--|
| Frequency range       | 66–88 MHz (broadband)  |
| Gain                  | 8.2 dBd  |
| Power gain            | 6.61   |
| Impedance             | 50 or 75 ohms  |
| VSWR                  | < 1.5:1  |
| Polarization          | Horizontal   |
| Front-to-back ratio   | >25 dB   |
| Maximum input power   | 250 watts, type "N" 75 ohm connector<br>500 watts, type "N" 50 ohm connector |
| Azimuth pattern       | 54 degrees (half-power)  |
| Elevation pattern     | 76 degrees (half-power)  |
| Connector             | N female (50Ω or 75Ω)  |
| Wind load             | at 100 mph (160 kph)   |
| Front                 | 135 lbf (597 N) maximum  |
| Wind survival rating* | 120 mph (200 kph)  |
| Mounting              | For masts of 2.375 inches<br>(60 mm) OD.                                     |
| <b>CL-46/HCM</b>      | Center-mount   |
| <b>CL-46/HRM</b>      | Rear-mount   |

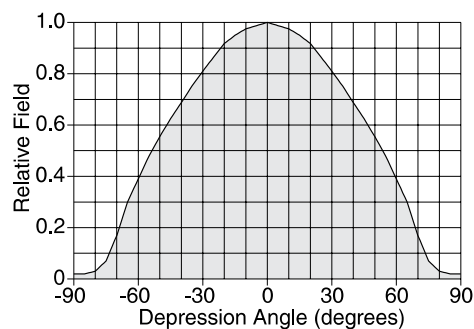
See reverse for order information.

\* 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.



**Azimuth pattern (E-plane)**

|                     | <b>CL-46/HCM</b>                                 | <b>CL-46/HRM</b>                                |
|---------------------|--|---|
| Weight              | 29 lb (13.2 kg)                                  | 35 lb (15.9 kg)                                 |
| Dimensions          | 93 x 68.2 x 9.9 inches<br>(2363 x 1733 x 252 mm) | 93 x 88.2 x 37 inches<br>(2363 x 2241 x 940 mm) |
| Shipping dimensions | 84 x 10 x 6 inches<br>(2134 x 254 x 153 mm)      | 99 x 14 x 6 inches<br>(2515 x 356 x 153 mm)     |
| Shipping weight     | 36 lb (16.3 kg)                                  | 72 lb (32.7 kg)                                 |



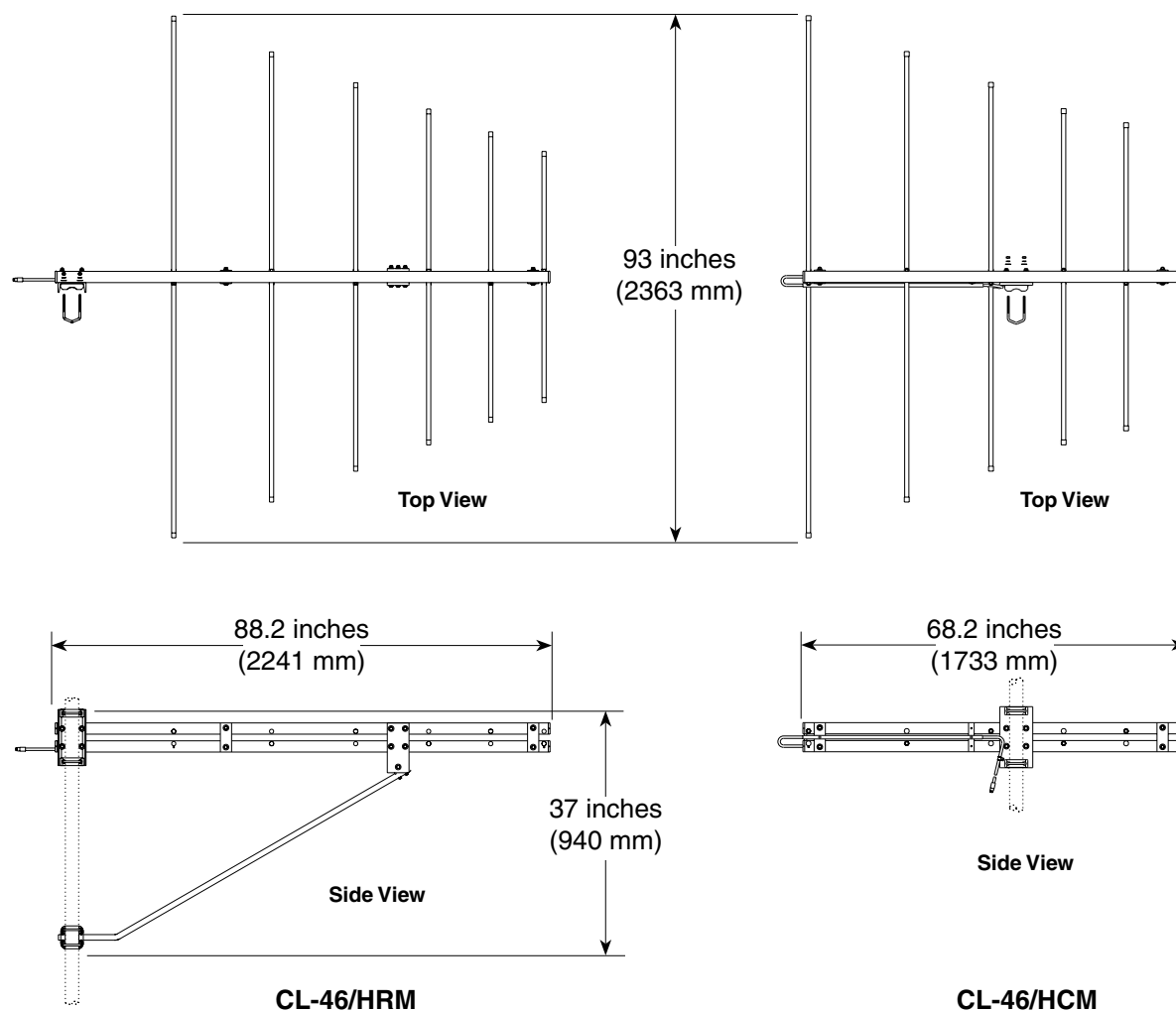
**Elevation pattern (H-plane)**



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**Order Information:**

| Model         | Description                          |
|---------------|--------------------------------------|
| CL-46/HCM/50N | Antenna with 50 $\Omega$ N connector |
| CL-46/HCM/75N | Antenna with 75 $\Omega$ N connector |
| CL-46/HRM/50N | Antenna with 50 $\Omega$ N connector |
| CL-46/HRM/75N | Antenna with 75 $\Omega$ N connector |

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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