

TVO series

OMNIDIRECTIONAL ANTENNA

-3, 0, or 3 dBd gain
54 to 216 MHz (Channels 2–13)

The Kathrein Scala Division TVO is a ruggedly built, horizontally polarized VHF-TV transmit antenna with an omnidirectional pattern.

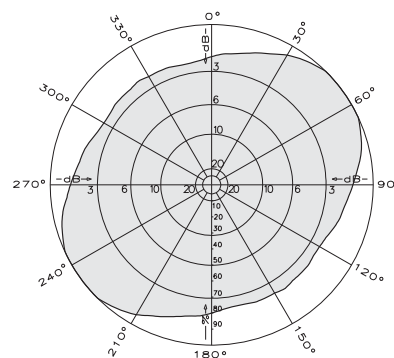
Like all Kathrein Scala Division antennas, the TVO is made of the finest materials using state of the art electrical and mechanical designs resulting in superior performance and long service life.

The TVO is available as a single bay antenna or in vertically stacked arrays for additional gain.

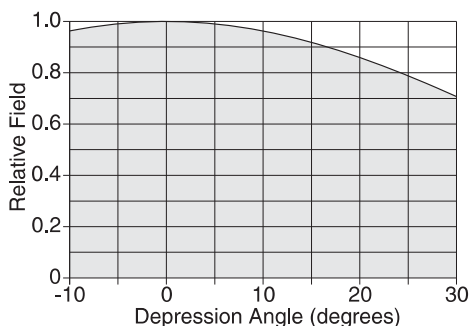
Specifications:

Frequency range	Any specified VHF-TV channel 54 to 216 MHz	
Gain	TVO (one bay) -3 dBd TVO-2 (two bays) 0 dBd ($\frac{1}{2}$ spacing) TVO-4 (four bays) 3 dBd ($\frac{1}{2}$ spacing)	
Impedance	50 or 75 ohms	
VSWR	<1.3:1	
Polarization	Horizontal	
Input power (per bay)	50 Ω model 250 watts 75 Ω model 100 watts	
Azimuth pattern	Omni	
Connector	N female	
Weight (approx.)	TVO (one bay) 9 lb (4.1 kg) TVO-2 (two bays) 22.6 lb (10.3 kg) TVO-4 (four bays) 50.6 lb (23 kg)	
Height	TVO (one bay) 18 inches (458 mm) TVO-2 (two bays) See reverse TVO-4 (four bays) See reverse	
Equivalent flat plate area	1.71 ft ² (0.159 m ²) per bay (maximum)	
Wind survival rating*	120 mph (200 kph)	
Mounting	For masts of 2.375 inches (60 mm) OD.	

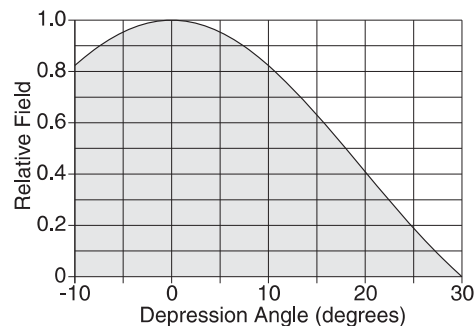
* Mechanical design is based on environmental conditions as stipulated in EIA-222-F (June 1996) and/or ETS 300 019-1-4 which include the static mechanical load imposed on an antenna by wind at maximum velocity. See the Engineering Section of the catalog for further details.



Azimuth pattern



Elevation pattern (two bays)



Elevation pattern (four bays)



10274-B