



Omnidirectional Antenna 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.

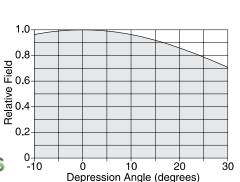
Like all Kathrein Scala Division antennas, the TVO is made of the finest materials using state of the art electrical and mechanical designs resulting in superior performance and long service life.

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

e.	n	20	∽ifi		oi	ŀi،	ions		
J	μ	-	•	ıc	aı		J.	ıs	•

-	ency range	Any specified VHF-TV channel 54 to 216 MHz			
Gain		Gain	Power gain		
	TVO (one bay)	-3 dBd	0.5		
	TVO-2 (two bays)	0 dBd (^½ ₂ spacing)	1		
	TVO-4 (four bays)	3 dBd (1/2 spacing)	2		
Impeda	ance	50 or 75 ohms			
VSWR		<1.3:1			
Polariz	ation	Horizontal			
Input p	ower (per bay)		50 watts 00 watts		
Azimut	h pattern	Omni			
Conne	ctor	N female			
Weight	(approx.)				
TVO (one bay) TVO-2 (two bays) TVO-4 (four bays)		9 lb (4.1 kg) 22.6 lb (10.3 kg) 50.6 lb (23 kg)			
Height					
TVO (one bay) TVO-2 (two bays) TVO-4 (four bays)		18 inches (458 mm) See reverse See reverse			
Wind load Front		at 100 mph (160 kph) 52 lbf (229 N) per bay maximum			
Wind s	urvival 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 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.

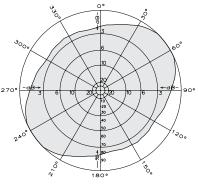




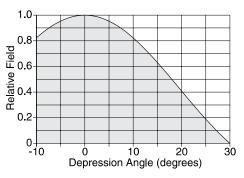


Elevation pattern (two bays)





Azimuth pattern



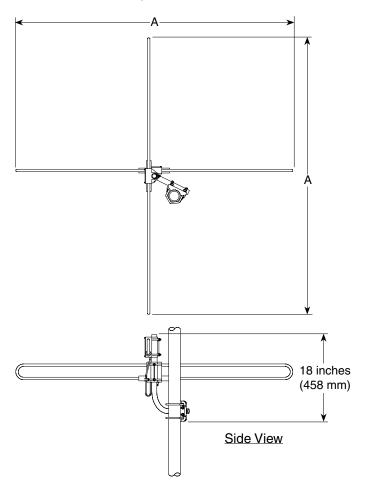
Elevation pattern (four bays)

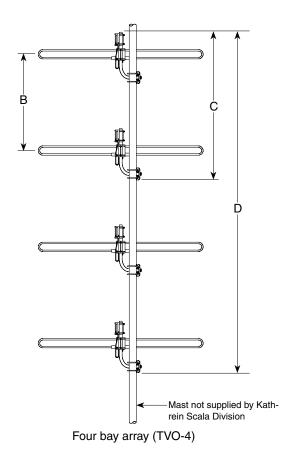




Omnidirectional Antenna 54 to 216 MHz (Channels 2–13)







Dimensions: Frequency range inches (mm)	A	В	Two bays C	Four bays D
54–60 MHz	96	104	122	329
	(2439)	(2642)	(3099)	(8357)
60–66 MHz	87.5	94	112	299
	(2223)	(2388)	(2845)	(7595)
66–72 MHz	79.5	86	104	275
	(2020)	(2185)	(2642)	(6985)
76–82 MHz	69.5	75	93	242
	(1766)	(1905)	(2363)	(6147)
82–88 MHz	65	70	88	227
	(1651)	(1778)	(2236)	(5766)
174–180 MHz	31	33	51	116
	(788)	(839)	(1296)	(2947)
180–186 MHz	30	32	50	113
	(750)	(813)	(1270)	(2871)
186–192 MHz	29	31	49	110
	(737)	(788)	(1245)	(2794)
192–198 MHz	28	30	48	107
	(712)	(762)	(1220)	(2718)
198–204 MHz	27.5	29	47	104
	(699)	(737)	(1194)	(2642)
204–210 MHz	26.5	28	46	101
	(674)	(712)	(1169)	(2566)
210–216 MHz	26	28	46	101
	(661)	(712)	(1169)	(2566)

Order Information:

Contact Kathrein Scala Division Customer Service for detailed order information.