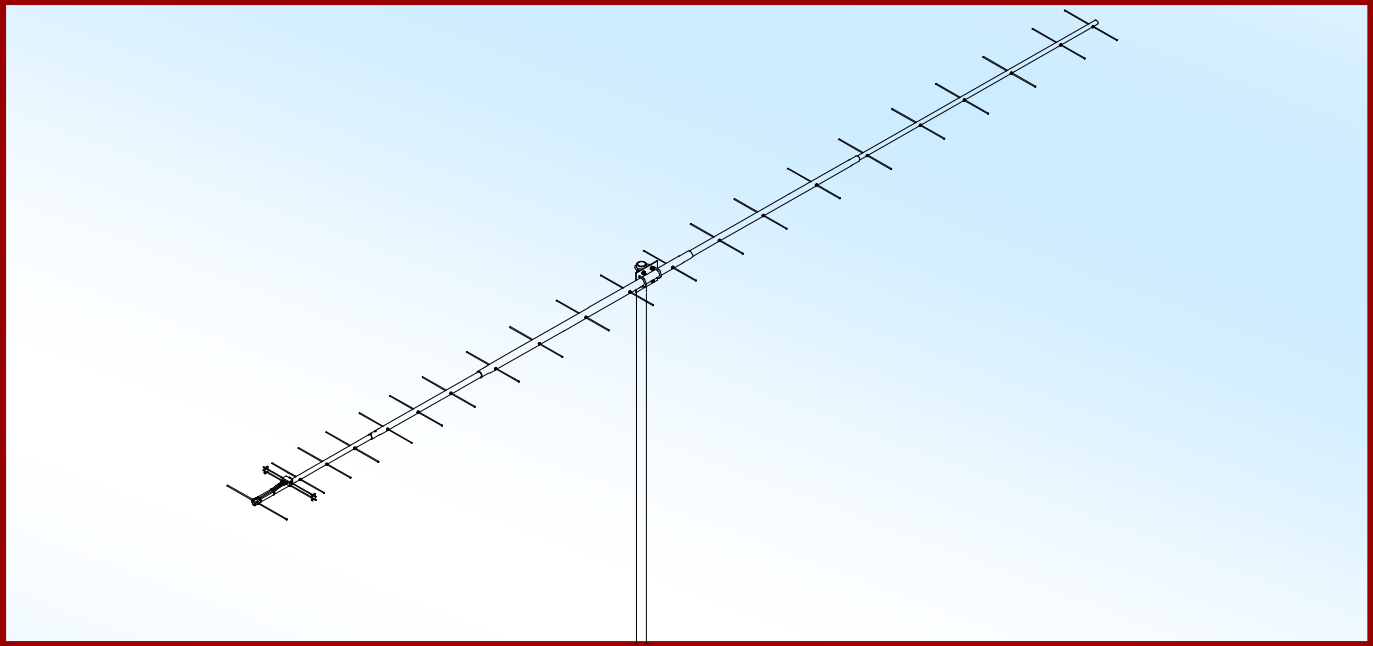




M2 Antenna Systems, Inc. Model No: 545-22 (TV Channel 24-30)



SPECIFICATIONS:

Model	545-22	Power Handling	1.5 kW
Frequency Range.....	530-560 MHz	Boom Length / Dia.....	149" / 1"
*Gain	17.3 dBi	Maximum Element Length.....	40-5/8"
Front to back	18 dB Typical	Turning Radius:	18' 9"
Beamwidth	E=27°	Stacking Distance.....	14' High & 14' Wide
Feed type	"T" Match	Mast Size.....	2" Nom.
Feed Impedance.....	50 Ohms Unbalanced	Wind area / Survival	0.9 Sq. Ft. / 100 MPH
Maximum VSWR.....	1.5:1	Weight / Ship Wt.....	10 Lbs. / 13 Lbs.
Input Connector.....	"N" Female		

***Subtract 2.14 from dBi for dBd**

FEATURES:

The 545-22 is a high gain Yagi, computer optimized for use in the 530-560 MHz band. Specifically designed for TV Channels 24-30, it can be used for transmit or receive. Mechanically, the 3/16" rod elements are mounted through the boom, insulated and locked in place with stainless keepers.

The heart of the 545-22 is a unique Driven Element Module with superior weather resistance and power handling abilities. All connectors are O-ring sealed to the CNC machined block and internal connections are sealed in a space-age silicone gel with a dielectric strength nearly 4 times greater than air. The balun coaxial connectors are triple O-ring sealed. Other key mechanical and electrical parts are CNC machined from 6061-T6 aluminum and all hardware except U-bolts are stainless steel.

The 545-22 offers uncompromising performance, enduring mechanical construction and long term electrical integrity.

545-22 DRIVEN ELEMENT DETAIL

HARDWARE ARRANGEMENT

NO SCALE

