Panel MIMO VHF Pol. H/V Antenna

Model MIMO22

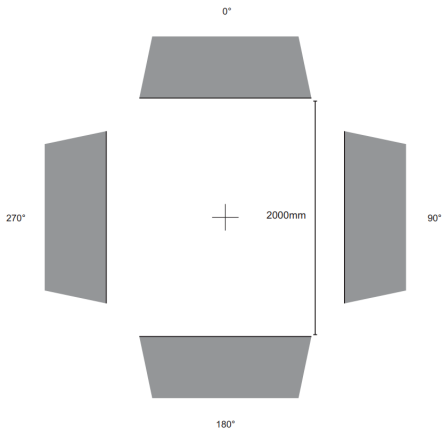
The EFTX MIMO VHF Pol. H/V Panel Antenna is designed for demanding TV 3.0 transmissions, featuring a flexible, robust, and lightweight single-panel or composite design. Its dual-polarization MIMO arrangement ensures high spectral efficiency and interference robustness, with over 35 dB cross-polarization isolation. Offering 7.9 dBd gain, it provides broad, uniform coverage with excellent VSWR (<1.05 for 174-186 MHz, <1.2 for up to 216 MHz). It features a polished aluminum finish and silver-plated brass connections for durability in harsh environments.

Electrical Characteristics

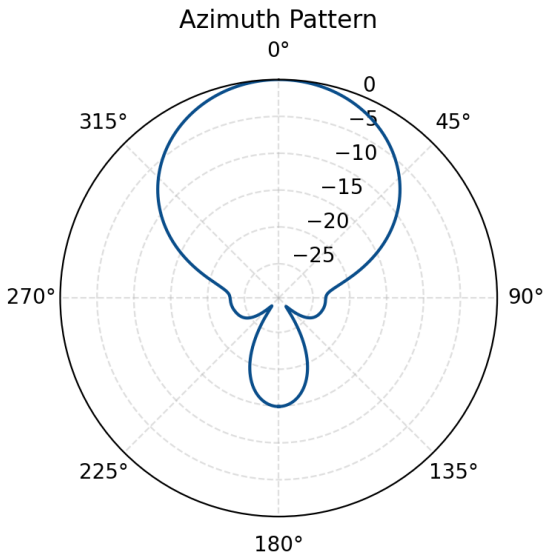
Item	Value
Nominal gain	7.90 dBd
Frequency range	174.00 – 216.00 MHz
Polarization	Horizontal / Vertical (MIMO)
Manufacturer	EFTX Broadcast & Telecom
Category	TV
Cross-Pol Isolation	> 35 dB at 360°
RF Input Connector	EIA 1 5/8 inch
Maximum Power	5 kW per port
VSWR (Channels 7 & 8)	< 1.06:1
VSWR (up to Channel 13)	< 1.20:1

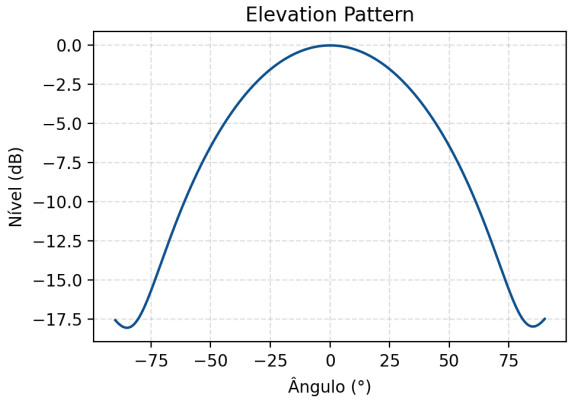
Mechanical Characteristics

Item	Value
Dimensions (LxHxD)	1300 mm x 1300 mm x 570 mm
Weight	26 kg
Wind Load (at 160 km/h)	Frontal: 810 N; Lateral: 700 N
Maximum Wind Speed	225 km/h



Radiation Patterns – Panel MIMO VHF Pol. H/V Antenna





Azimuth Data

Item	Value
Peak	0.00 dB @ 0°
Beamwidth (-3 dB)	63.1°
Front-to-back ratio	14.9 dB

Elevation Data

Item	Value
Peak	0.00 dB @ 0°
Beamwidth (-3 dB)	69.5°
Front-to-back ratio	17.6 dB

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