

GUIDELINER® UHF Waveguide Antennas



Broadcast Antenna Systems

GUIDELINER UHF television transmitting antennas are offered for U.S. FCC Channels 14 through 69 and CCIR Bands IV and V.

Specifications

VSWR, maximum, 6 MHz Channel	
Visual Carrier +0.5 MHz	1.05
Color Subcarrier	1.08
Remainder of Channel	1.10

Power Rating. 240 kW, nominal.

Deicing. Full radome enclosure.

Antenna Selection. Antennas are selected on the basis of:

- Azimuth pattern
- Elevation gain
- Beam tilt 0.75, 1.0 or 1.25° typical, others available
- Horizontal or elliptical polarization, See Table
- Top or side mount



GUIDELINER antenna for WTIU channel 30 undergoing inspection.

Type numbers are listed in the table for top mounted omnidirectional antennas. Specify channel number and, for elliptically polarized antennas, specify ERP split. Other patterns, gains and beam tilts are available.

Typical elevation patterns are shown on page 281.

Weights, dimensions and wind loading data are available upon request.

Call our Broadcast Systems Department at 1-800-DIAL-4-RF.

Top Mounted Omnidirectional Antennas

Azimuth Pattern Relative Field	Beam tilt Degrees	Pol.	25 Elevation Gain Antennas†		15 Elevation Gain Antennas†	
			Type No.	Peak Power Gain	Type No.	Peak Power Gain
Omnidirectional ±1 dB (Top Mount Only)						
	0.75	Horiz.	AGW25H3-HTO1- (*)	25.0 (13.98 dBd)	AGW15H3-HTO1- (*)	15.0 (11.76 dBd)
	0.75	Ellipt.	AGW25H3-ETO1- (*)	**	AGW15H3-ETO1- (*)	**
	1.00	Horiz.	AGW25H4-HTO1- (*)	25.0 (13.98 dBd)	AGW15H4-HTO1- (*)	15.0 (11.76 dBd)
	1.00	Ellipt.	AGW25H4-ETO1- (*)	**	AGW15H4-ETO1- (*)	**
	1.25	Horiz.	AGW25H5-HTO1- (*)	25.0 (13.98 dBd)	AGW15H5-HTO1- (*)	15.0 (11.76 dBd)
	1.25	Ellipt.	AGW25H5-ETO1- (*)	**	AGW15H5-ETO1- (*)	**
Directivity 1.00 (0.00 dB)						

* Specify UHF-TV channel number.

** Horizontal and vertical gains depend on power split. Specify power split.

† Elevation patterns are shown on page 281.