

SectorScan II Antenna

Flat Panel Sectorized Antenna for Central Receive Systems



Applications

- Sectorized Antenna

Features

- New flat panel design
- Lightweight and rugged design
- Low wind loads
- Easily installed
- Connector Interface: Type "N" female.
- Polarization:
 - Plane Polarized (Horizontal or Vertical)
 - Dual Polarized, 13 dBi Model (H & V)
- Standard antenna mount accommodates a 2.5 in. to 4.5 in. diameter pipe.
- Optional mount kit available for a 1.25" to 2.5" pipe.
- Optional 15 degree mechanical downward tilt.

Overview

The SectorScan II Antenna offers a low profile, cost effective solution. These lightweight antennas offer an aesthetically pleasing design with a low wind load.

Depending on space and gain requirements, the antenna can be ordered in 25.5" or 41.5" sizes. The antenna can be mounted to various diameter frames with optional mounting kits.

The antenna is ideal for the 2 GHz frequency offering Vertical, Horizontal, or Dual Polarization. The antenna can be configured as a single sector antenna or as part of a quad array.

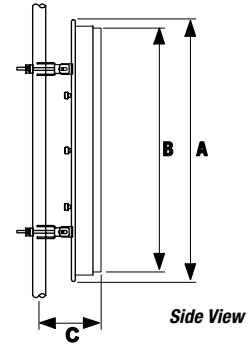
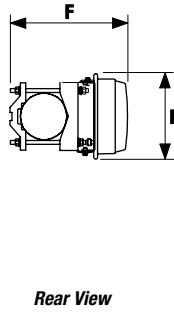
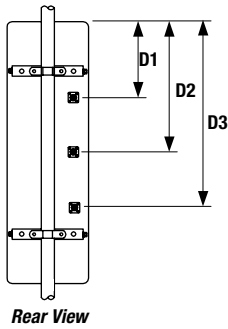
The SectorScan II integrates with the CodeRunner 4 Central Receiver and the MRC 2000 Sectorized Antenna Controller.

SPECIFICATIONS

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Model	Low Gain			High Gain		
	SEC-22V-90-13	SEC-22H-90-13	SEC-22D-90-13	SEC-22V-90-16	SEC-22H-90-16	SEC-22D-90-16
Frequency, GHz	1.99–2.50	1.99–2.50	1.99–2.50	1.99–2.50	1.99–2.50	1.99–2.50
Polarization	Vertical	Horizontal	Dual	Vertical	Horizontal	Dual
Gain (nominal)	13.0 dBi	13.0 dBi	8.0 dBi	16.0 dBi	16.0 dBi	13.0 dBi
Beamwidth						
Azimuth	90°	90°	90°	90°	90°	90°
Elevation	16°	16°	16°	8°	8°	8°
X-Pol, Rejection	25 dB	25 dB	25 dB	25 dB	25 dB	25 dB
F/B Ratio	25 dB	25 dB	25 dB	25 dB	25 dB	25 dB
VSWR, Max	1.5:1	1.5:1	1.5:1	1.5:1	1.5:1	1.5:1
(R.L.)	(14 dB)	(14 dB)	(14 dB)	(14 dB)	(14 dB)	(14 dB)
RF Interface	"N" (F)	"N" (F)	"N" (F)	"N" (F)	"N" (F)	"N" (F)
Dimensions	25.5" H 8.5" W 7.5" D	25.5" H 8.5" W 7.5" D	25.5" H 8.5" W 7.5" D	41.5" H 8.5" W 7.5" D	41.5" H 8.5" W 7.5" D	41.5" H 8.5" W 7.5" D

DIMENSIONS

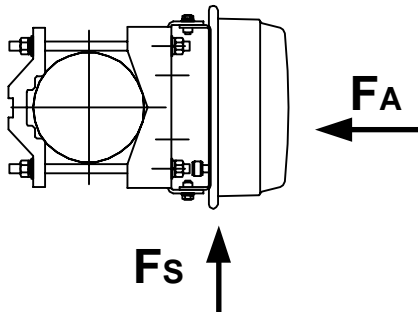


Model	A	B	C	D1	D2	D3	E	F
Low Gain	25.5 (64.8)	23.5 (59.7)	7.5 (19.1)	–	12.8 (32.5)	–	8.5 (21.6)	10.5 (26.5)
High Gain	41.5 (105.4)	39.5 (100.3)	7.5 (19.1)	9.5 (24.1)	21.5 (54.6)	31.5 (80.0)	8.5 (21.6)	10.5 (26.5)

Dimensions = inches/centimeters(cm)

Based on 4.5" (11.4 cm) pipemast. Mount designed to attach to pipe mast between 2.0" (5.1 cm) and 4.5" (11.4 cm).

WIND LOADING



Wind Loading			
Low Gain		High Gain	
Fa max	85 lbs. (378N)	Fa max	139 lbs. (619N)
Fs max	32 lbs. (142N)	Fs max	48 lbs. (214N)

Loading applied to tower at survival windspeed of 125 mph (210 km/h)



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