

1.8m / 2.4m Motorized Dual-axis Antenna System



**VS-180NAV
VS-240NAV**



Your Trusted Resource for Satellite Equipment

- **Dual Axis Motorized Az/EI Navigator Mount**
- **Extended Azimuth and Elevation Travel**
- **Inclined Orbit Tracking Capable**
- **Mounts on 6 5/8" OD Mast**
- **Includes Motors and Actuators**

ANTENNA SIZE		1.8 METER			2.4 METER		
		KU Band	C Band Linear	C Band Circular	KU Band	C Band Linear	C Band Circular
Operating Frequency (GHz)	Receive	10.95 - 12.75	3.625 – 4.20	3.625 – 4.20	10.70 – 12.75	3.625 – 4.20	3.625 – 4.20
	Transmit	13.75 - 14.50	5.85 – 6.425	5.85 – 6.425	13.75 – 14.5	5.85 – 6.425	5.85 – 6.425
Midband Gain (± .2dB)	Receive	45.00 dBi	35.50 dBi	35.50 dBi	47.4 dBi	38.00 dBi	38.0 dBi
	Transmit	46.50 dBi	39.50 dBi	39.50 dBi	49.2 dBi	42.0 dBi	42.0 dBi
Antenna Noise Temp (10° Elevation)		44 K	56 K	30 K	78 K	47 K	53 K
Antenna Noise Temp (40° Elevation)		33 K	46 K	20 K	70 K	43 K	49 K
Sidelobe Envelope, Co-Pol							
100AD° ≤ θ ≤ 20°		29 – 25 Log θ dBi			29 – 25 Log θ dBi		
20° < θ ≤ 26.3°		-3.5 dBi			-3.5 dBi		
26.3° < θ ≤ 48°		32 – 25 Log θ dBi			32 – 25 Log θ dBi		
θ > 48°		-10 dBi (averaged)			-10 dBi (averaged)		
Cross-Polarization (Linear)		>30 dB (on axis)		N/A	>30 dB (on axis)		N/A
Axial Ratio Circular		N/A		Tx 2.28 Rx 1.60	N/A		Tx 2.28 Rx 2.28
Feed Interface Receive	Receive	WR 75	CPR 229F		WR 75	CPR 229F	
Feed Interface Receive	Transmit	WR 75	CPR 137 or N		WR 75	CPR 137 or N	
MECHANICAL SPECIFICATIONS							
Reflector		Glass Fiber Reinforced Polyester SMC					
Antenna Optics		1 Piece, Prime Focus, Offset			4 Piece, Prime Focus, Offset		
Mast Pipe Size		6" SCH 80 Pipe (6.62" OD)					
Elevation Travel	Regular	24 to 90° (56° Range of motion)			45 – 90°		
	Inverted	8 to 90° (70° Range of motion)			8 to 90° (70° Range of motion)		
Azimuth Travel		120°					
ENVIRONMENTAL SPECIFICATIONS							
Operational Wind Speed		50 mph (80 km/h)					
Survival Wind Speed		125 mph (201 km/h)					
Temperature – Operational		-40° to 140°F (-40° to 60° C)					

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Specifications are subject to change without notice

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