



## 3.0, 3.4 & 3.7 Meter Prime Focus Motorized Dual Axis Antennas

**VS-300NAV**  
**VS-340NAV**  
**VS-370NAV**



- Dual Axis Motorized Az/EI Navigator Mount
- Azimuth Travel 120° / Elevation Travel 5 – 90°
- Mounts on a 6 5/8" OD Mounting Mast
- 8 Panel Prime Focus Sectional Reflector

Antenna Size	VS300NAV 3.0 Meter		VS340NAV 3.4 Meter		VS370NAV 3.7 Meter	
	C BAND	KU-BAND	C BAND	KU-BAND	C BAND	KU-BAND
<b>Electrical Specifications</b>						
Operating Frequency (GHz)	3.7 – 4.2	10.95 -12.75	3.7 – 4.2	10.95 -12.75	3.7 – 4.2	10.95 -12.75
Midband Gain (± .5dB)	40 dBi	49 dBi	40.2 dBi	49.8 dBi	40.9 dBi	50.7 dBi
3dB Beamwidth	1.7°	.6°	1.6°	.53°	1.45°	0.5°
Antenna Noise Temp (20° Elevation)	30 K	29 K	29 K	28 K	25 K	23 K
Antenna Noise Temp (30° Elevation)	28 K	26 K	27 K	25 K	23 K	22 K
Feed Interface	CPR 229F	WR 75	CPR 229F	WR 75	CPR 229F	WR 75
First Sidelobe (typical)	-20 dB		-20 dB		-20 dB	
Cross-Pol Isolation (Linear)	>30 dB (on axis)		>30 dB (on axis)		>30 dB (on axis)	
VSWR	1.3:1 Max.		1.3:1 Max.		1.3:1 Max.	
Insertion Loss	-30 dB		0.2 dB Max.		0.2 dB Max.	
<b>Mechanical Specifications</b>						
Reflector Material	Eight Segment Glass Fiber Reinforced Polyester SMC					
Antenna Optics	Prime Focus, Axisymmetric					
Mast Pipe Size	6" SCH 80 Pipe (6.62" OD)					
Elevation Travel	5 to 90° (70° Range of motion)					
Azimuth Travel	120°					
F/D Ratio	.30		.36		.37	
<b>Environmental Specifications</b>						
Wind Load						
Survival	125 mph (201 km/h)					
Operational	45 mph (72 km/h)					
Temperature						
Operational	-40° to 140°F (-40° to 60° C)					
Survival	-50° to 160°F (-46° to 71° C)					