

# 1.8m Semi-Portable Auto-Point Antenna



VS-180SPORTKU



Your Trusted Source for Satellite Equipment

- Semi-Portable, Pole-Mount, Motorized Antenna
- Single-Button, Auto-Point Control System
- Inclined orbit tracking capable
- Integrated with major Network Platforms

GENERAL SPECIFICATIONS	
Reflector Type	1.8 M Glass Fiber Reinforced Polyester SMC
Optics Offset	Prime Focus Offset Feed
BUC Supported	6 lbs. / 7.35" L x 6.54" W x 3" H
Polarization	Cross-pol
Mount Geometry	Elevation Over Azimuth
Set-up Time	Less than 15 minutes
DIMENSIONS	
Stowed Dimensions	NA
Max Deployed Height	92" on 30" tall post
Mount Rail Width	NA
Weight	200 lbs. Approx
MECHANICAL	
Range Of Motion: Azimuth	342° (+/- 171°)
Elevation	12° to 93° Operational
Polarization	+/- 90°
Speed: Deploying Elevation	4.6° Per Second
Stowing Elevation	5.0° Per Second
Deploying Azimuth	0.4° Per Second
Time to Acquisition	< 2 Minutes (Typical)
Motors: Elevation	36V HD Linear Actuator (0.1° Resolution)
Azimuth	24V HD Brushless Motor (0.1° Resolution)
Polarization	24V HD Brushless Motor (0.1° Resolution)
Drive Override	Electrical Elevation, Manual for AZ and SK

RF	
Tx Interface	WR75 Flange Flexible and Twistable Waveguide
Rx Interface	WR75 Flange
Frequency Range: Rx	10.95 - 12.75 Ghz
Tx	13.75 - 14.50 Ghz
Gain (Midband): Rx	45.3 dBi
Tx	46.6 dBi
VSWR Rx & Tx	1.3:1 Tx / 1.5:1 Rx
Beamwidth: Rx	1.0° (-3 dB), 2.4° (-10 dB)
Tx	0.8° (-3 dB), 2.1° (-10 dB)
Radiation Pattern Compliance	FCC § 25.209
Antenna Noise Temperature	28K (20° EI), 23K (30° EI)
Cross Pol Isolation on Axis Rx & Tx (Minimum)	30 dB
Isolation port to port (Minimum): Rx	35 dB
Tx	80 dB
ENVIRONMENTAL	
Wind: Operational Deployed	50+ MPH
Survival Deployed	75 MPH
Survival Stowed	NA
Temperature: Operational	-40°F to 127°F (-40°C to +50°C)
Survival	-58°F to 176°F (-50°C to +80°C)
Snow Load	NA
ELECTRICAL	
Controller Dimensions	2U 19" Rack Mountable
Power Supply: Input	100-250V 3A Max
Running Load	47-63Hz 300W Max
Output	48V 6.7A Max
Electrical Data Interface	RG6 60' (18.25 m)
Transmit (Tx)	RG6 Compression F Connector
Receive (Rx)	RG6 Compression F Connector
Sensors	GPS
	Compass +/- 15°
	Tilt +/- .5°

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Specifications are subject to change without notice