

4.5M Prime Focus Antenna



The ASI 4.5 Meter Prime Focus Antenna is manufactured in the United States and is the symbol of quality in the antenna industry.

This antenna features an aluminum reflector which is powder coated for superior protection against the elements. Alpha Satcom offers a variety of mounting options and stainless steel hardware is included.

The contoured petals, matching radial beams, and hub assembly ensure easy installation without field alignment.

Complete turnkey systems are available.

Product Features

- Multi-Feed Systems Available (up to 4)
- Available in Dual Axis Motorized, King Post, and Az-El Pipe Head Mounts
- 125 MPH Wind Survival
- King Post Pedestal Mount for Superior Steering and Stability
- High Accuracy Antenna, Low Transportation Cost



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RF SPECIFICATIONS		
Feed Configuration	C-Band 2-Port, LINEAR or CIRCULAR Receive-Only	Ku-Band 2-Port, LINEAR Receive-Only
Frequency Range	3.625-4.2 GHz	10.95-12.75 GHz
Typical Gain (Mid-Band)	42.7 dBi	51.9 dBi
VSWR Performance	1.25:1	1.3:1
-3 dB Beam Width	1.097°	0.346°
Noise Temperature	50K @ 10°	55K @ 10°
Polarization Rotation	360° Continuous	
Polarization Isolation	30 dB LP	30 dB LP
VSWR	Rx: 1.4:1	Rx: 1.3:1
Feed Flanges	Rx CPR 229G	Rx WR75

	MECHANICAL		ENVIRONMENTAL	
	C-Band	Ku-Band	Wind Loading Operational: Survival:	6j0 mph (100 km/h) 125 mph (200 km/h)
Mechanical Data	King Post (Fixed & Motorized)	Az-El Head	Temperature Operational: Survival:	-40° to 140°F (-40° to 60°C) -60° to 180°F (-51° to 82°C)
F/D Ratio	0.35	0.35	Rain Operational: Survival:	.5 in/hr (1.25 cm/hr) 3 in/hr (7.6 cm/hr)
Focal Distance	61.9 in.	61.9 in.	Ice Operational: Survival:	1 in. (2.5 cm) radial .5 in. (1.25 cm) radial + 60 mph (100 km/h)
Azimuth Travel	132° Arc	360° Continuous		
Elevation Travel	15° to 90°	15° to 90°		
Polarization Travel	+/-90°	+/-90°		
Total Weight	875/725 lbs.	875 lbs.		
Crate Dimensions	112 x 46 x 42 in. 48 x 48 x 94 in.	112 x 46 x 42 in.		
Units/40 ft Container	10	16		