

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

Description -

The Patriot prime focus antenna is manufactured in the United States and is the symbol of quality in the antenna industry. It features a variety of mounting options and a dual sided galvanized reflector which is powder coated for superior protection against the elements. Stainless steel hardware is also available.

The contoured petals with matched radial beams and hub assembly ensure easy installation without field alignment. This antenna is competitively priced for the broadcast and cable industry as well as the educational market. Complete turnkey systems are available.

3.1 / 3.8 / 4.5m Prime Focus Antenna System

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3 1 m	Prime	Focus	Antenna

RF Specifications	C-Band	Ku-Band
Receive Frequency Range	3.625 - 4.2 GHz	10.95 - 12.75 GHz
(other bands available)		
Midband Gain	39.9 dBi	48.7 dBi
Noise Temperature	58 K typ @ 10°	55 K @ 10°
Ports / Polarization		
Polarization Rotation	360° Continuous	
Polarization Isolation	30 dB LP	30 dB LP
VSWR	Rx 1.4:1	Rx 1.4:1
Feed Flanges	Rx CPR 229G	Rx WR75

Mechanical Specifications			
F/D Ratio	0.336	6	
Focal Distance	41.0"		
Azimuth Travel	120° Arc (Polar/Na 360° Continuous (Az-EI)		
	0° to 90°(Az/El)	10°-60° (Polar)	
	10° to 70°	0° to 90°(Az/EI)	
Elevation Travel/Site Latitude	(Navigator)	10° to 70° (Navigator)	
Polarization Travel	± 90°		
Antenna System Weight	379 Lbs. (Polar/Az-500 Lbs. (Navigator)		
Boxed Dimensions	68x48x18" (Polar/A 68x48x30" (Navigator)		
Units per 40ft. Container 96 units (Polar/Az-I72 units (Na		-172 units (Navigator)	

Environmental S	pecifications		
Wind Loading			
	Operational	60 mph,	100 kph
	Survival	120 mph	193 kph
Temperature		•	•
	Operational	-40° to 140° F	(-40° to 60°C)
	Survival	-60° to 180°	(-51° to 82°C)
Rain			,
	Operational	1.5 in/hr	(1.3 cm/h)
	Survival	3 in/ her	(7.6 cm/h)
Ice			,

Survival 2.5 cm (1 inch) radial or 1.3 (.5 inch) radial + 100 kph (60 mph)

3.8m Prime Focus Antenna

		3.6III FIIIIE FOCUS		
RF Specifications		C-Band	Ku-Band	
Receive Frequency Range	е	3.625 - 4.2 GHz	10.95 - 12.75 GHz	
(other bands available)				
Midband Gain		41.5 dBi	50.3 dBi	
Noise Temperature		50 K @ 10°	55 K @ 10°	
Ports / Polarization		1 or 2 port circular	1 or 2 port linear	
Motorized feed system als	so available	1 or 2 port linear		
Polarization Rotation		360° Continuous		
Polarization Isolation		30 dB LP	30 dB LP	
VSWR		Rx 1.4:1	Rx 1.4:1	
Feed Flanges		Rx CPR 229G	Rx WR75	
Mechanical Specifications		Az-El Head	Kingpost	Navigator
F/D Ratio		0.413	0.413	0.413
Focal Distance		61.8 in.	61.8 in.	61.8 in.
Azimuth Travel		360° Continuous	132° Arc, 120° Mot.	132° Arc
Elevation Travel		10° to 90°	10° to 90°	10° to 90°
Polarization Travel		± 90°	± 90°	± 90°
Total Weight		705 Lbs.	612 / 725 Lbs.	610 / 210 Lbs.
Crate Dimensions		87x36x30 in.	87x36x30 in.	87x36x30 in.
Grate Birrioriolorio		07 /00/00 111.	48x48x94 in.	68x48x12 in.
Units per 40 ft. Container		39 units	21 units	36 units
Environmental Specification	ons	oo umo	21 dino	oo unto
Wind Loading	3110	60 mph	100 kph,	
vvina Loading	Operational		193 kph	
	Survival		100 Kpii	
Temperature	Odivival			
remperature	Operational	-40° to 140° F	(-40° to 60°C)	
	•	-60° to 180°F	(-51° to 82°C)	
Rain	Odivival	00 10 100 1	(31 10 02 0)	
rain	Operational	1.5 in/hr	(1.3 cm/h)	
	Survival		(7.6 cm/h)	
Ice	Gui vivai		ial or 1.3 (.5 inch) radial	+ 100 kph (60 mph)
106	Survival		iai oi 1.5 (.5 ilicii) Taulai	+ 100 kpii (00 ilipii)
	Juivival			

Shock & Vibration As occurred during one shipment of air, truck, or rail

4.5m Prime Focus Antenna			
Typical RF Specifications	C-band	Ku-Band	
Receive Frequency Range	3.625 - 4.2 GHz	10.95 - 12.75 GHz	
(other bands available)			
Midband Gain	42.7 dBi	51.9 dBi	
Noise Temperature	50 K @ 10°	55 K @ 10°	
Ports / Polarization	1 or 2 port circular	1 or 2 port linear	
Motorized feed system also available	1 or 2 port linear		
Polarization Rotation	360° Continuous		
Polarization Isolation	30 dB LP	30 dB LP	
VSWR	Rx 1.4:1	Rx 1.4:1	
Feed Flanges	Rx CPR 229G	Rx WR75	
Mechanical Specifications	Az-El Head	Kingpost	
F/D Ratio	0.35	0.35	
Focal Distance	62.0 in	62.0 in	
Azimuth Travel	360° Continuous	132° Arc	
Elevation Travel	15° to 90°	15° to 90°	
Polarization Travel	± 90°	± 90°	
Total Weight	964 Lbs.	875 / 725 Lbs.	
Crate Dimensions	112 x 46 x 42 in.	112 x 46 x 42 / 48 x 48 x 94 in.	
Units Per 40ft Container	20 units	14 units	
Environmental Specifications			

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Wind Loading

Operational 60 mph 100 kph Survival 120 mph 193 kph Temperature -40° to 140° F (-40° to 60°C) (-51° to 82°C)

Operational -60° to 180°F

Survival

(3.8 cm/h) Operational 1.5 in/hr Survival 3 in/ hr (7.6 cm/h)

Ice

Rain

Survival 2.5 cm (1 inch) radial or + 100 kph (60 mph)

Shock & Vibration

As occurred during one shipment of air, truck, or rail