

4.5m Prime Focus Antenna System

Ku-Band and C-Band Options

Features

Multi-Feed Systems Available (up to 4)

Available in Dual Axis Motorized, King Post, and Az-El Fixed Pipe Head Mounts

125 Mph Wind Survival

King Post Pedestal Mount for Superior Steering and Stability

High Accuracy Antenna, Low Transportation Cost

Description

The Challenger 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. Challenger offers a variety of mounting options and stainless steel hardware is standard.

The contoured petals with matched radial beams and hub assembly ensure easy installation without field alignment.

Complete turnkey systems are available.

RF Specifications	Ku-Band	C-Band		
Receive Frequency (GHz)	10.95 - 12.75	3.625 - 4.2	_	
Midband Gain	51.9 dBi	42.7 dBi		
Noise Temperature	55K @ 10°	50K @ 10°		
Ports/Polarization	1 or 2 Port Linear	1 or 2 Port Circular/1 or 2 Port Line	ar	
Polarization Rotation		360° Continuous		
Polarization Isolation	30 dB LP	30 dB LP		
/SWR	Rx 1.3:1	Rx 1.4:1	R	
eed Flanges	Rx WR75	Rx CPR 229G		0
Mechanical Data	Az-El Head	King Post (Fixed & Motorized)		
/D Ratio	0.35	0.35		
ocal Distance	61.9 in.	61.9 in.		
zimuth Travel	360° Continuous	132° Arc		
levation Travel	15° to 90°	15° to 90°		-
Polarization Travel	±90°	±90°		
otal Weight	875 lbs.	875/725 lbs.		
Crate Dimensions	112 x 46 x 42 in.	112 x 46 x 42 in.		
		48 x 48 x 94 in.		
Jnits/40 ft Container	16 units	10 units		
			N.	
Environmental Data			T.	
Wind Loading	Operational:	60 mph (100 km/h)		
	Survival:	125 mph (200 km/h)		A. C.
Temperature	Operational:	-40° to 140° F (-40° to 60° C)	4.	
	Survival:	-60° to 180° F (-51° to 82° C)		
Rain	Operational:	.5 in./hr (1.25 cm/hr)		4.5m Prime Foo
	Survival:	3 in /hr (7.6 cm/hr)		with King Post I

The 4.5m Prime Focus reflector consists of 16 draw die formed petals and achieves a .020 in. RMS surface accuracy. Radial beams are constructed of aluminum. The contoured petals and outboard skirts are powder coated for superior protection against the elements. Stainless steel hardware is included.

3 in./hr (7.6 cm/hr)

1 in. (2.5 cm) radial

.5 in. (1.25 cm) radial + 60 mph (100 km/h)

Request A Quote

lce

Survival:

Survival: