

# Patriot 3.8m Prime Focus Antenna System

# COBHAM

Ku-Band Option  
2009 Data Sheet

The most important thing we build is trust

## Basic Features

Multi-Feed Systems Available (up to 4)

Available in Dual Axis Motorized, King Post, and As-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 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.

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

Complete turnkey systems are available.

## RF Specifications

### Receive

Receive Frequency in GHz	10.95 - 12.75
Midband Gain	50.3 dBi
Noise Temperature	55 K @ 10°
Ports/Polarization	1 or 2 port linear
Polarization Isolation	30 dB LP
VSWR	Rx 1.4:1
Feed Flanges	Rx WR75

## Mechanical Data

	Az-El Head	Kingpost	Navigator
F/D Ratio	0.413	0.413	0.415
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	87 x 36 x 30 in.	87 x 36 x 30 in. 48 x 48 x 94 in.	87 x 36 x 30 in. 68 x 48 x 12 in.
Units / 40 ft. Container	39 units	21 units	36 units

## Environmental Data

Wind Loading	Operational: 60 mph (100 kph) Survival: 120 mph (193 kph)
Temperature	Operational: -40° to 140° F (-40° - 60° C) Survival: -60° to 180° (-51° to 82° C)
Rain	Operational: 1/2 in/hr (1.25 cm/hr) Survival: 3 in/hr (7.6 cm/hr)
Ice	Survival: 1" (2.5 cm) radial 1/2" (1.25 cm) radial + 60 mph (100 kph)

Other Bands Available:

C



3.8m Prime Focus Antenna System