

# 3.1m Prime Focus Rx Only

Manual Adjustment / Dual Axis Motorized

C Linear, C Circular  
Data Specification

**COBHAM**

The most important thing we build is trust

## Description

The 3.1m antenna provides a level of surface accuracy, rugged stiffness, and precision not often found in similar products. Every Az/EI fixed Kingpost antenna is fully upgradable in the field to a Dual-Axis Motorized antenna.

## Features

- Feeds for C Circular and C Linear
- Easy to Ship - Installation without crane
- Available in Fixed or Motorized dual axis



Antenna Characteristics	C Linear
	Receive
Frequency (GHz)	3.7-4.2
Antenna Gain (dBi $\pm$ 0.2) (GHz)	39.5 @ 3.9125
Antenna Noise Temperature ( $^{\circ}$ K) @3.9125 GHz	
• 20 $^{\circ}$ Elevation	33
• 30 $^{\circ}$ Elevation	30
Cross Polarization Isolation (dB)	
• On Axis	>30
VSWR	<1.5:1

Antenna Characteristics	C Circular
	Receive
Frequency (GHz)	3.7-4.2
Antenna Gain (dBi $\pm$ 0.2) (GHz)	39.5 @ 3.9125
Antenna Noise Temperature ( $^{\circ}$ K) @3.9125 GHz	
• 20 $^{\circ}$ Elevation	43
• 30 $^{\circ}$ Elevation	39
Axial Ratio	<2.0
Cross Polarization Isolation (dB)	
• On Axis	>15
• Within 1dB beamwidth	>15
VSWR	<1.5:1

## Dual Axis Motorization

Includes the same basic features as manual adjustment antenna

### Unique Features

- Motorized Az/EI Mount
- Easy Setup w/Control Cable
- Motorized Feed Assembly available for Pol Adjustment
- Manual Jog or Tracking Motions Available
- Auto Locate Option Available
- Actuator Control

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Broadband Anywhere - Anytime

Data Specifications

Mechanical Specifications <sup>(1)</sup>		(cm, kg)
Antenna Size	3.1 Meter	
Optics	Prime Focus	
Reflector Construction	Stretch Formed Aluminum	
Mount Type	Navigator	
		Motorized
• Azimuth		120°
• Elevation		20° to 90°
• Latitude		
Shipping Container 1		68" x 48" x 19" 385 lbs (172.72 x 121.92x 48.26) (174.63kg)
Shipping Container 2		72" x 38" x 14" 205 lbs (182.88 x 96.52 x 35.56) (167.38kg)

Environmental Performance	
Wind Loading	
• Operational	45 mph (72.4 km/h)
• Survival	125 mph (201 km/h)
Temperature	
• Operational	-28.9°C to 51.7°C (-20°F to 125°F)

Mount Type	Az-EL Mount	
	Non-Motorized	
• Azimuth	360° Continuous	
• Elevation	0° to 60°	
• Latitude		
Shipping Container	68" x 48" x 15" 369 lbs (172.72 x 121.92x 38.1) (167.38kg)	

Specifications are subject to change without notice

<sup>(1)</sup> Weights are approximate