

Patriot 1.8m Flyaway Antenna System

COBHAM

Manual Adjustment / Dual Axis Motorized / Auto Locate
C-Band Option

2009 Datasheet

The most important thing we build is trust

Manual Adjustment

Basic Features

- Pre-assembled Tripod Base Mount with Pull Pins
- All Aluminum Cases for Easy Transportation
- Patented Two Piece Dual Skin Metal Reflector
- *C, Ku and X Bands
- Sturdy Boom Accommodates Outdoor Units
- Self Leveling Feet for Uneven Surfaces

Unique Features

- Azimuth and Elevation Hand Crank
- Five Minute Setup

Dual Axis Motorized with Smart Jog Controller

- Includes the Same Basic Features of the Manual Adjustment Antenna

Unique Features

- Motorized Az/EI Mount for Jog Control
- Easy 15 Minute Setup with Control Cable
- Limited Motion Mount
- Motorized Feed Assembly for Polarized Adjustment
- Actuator Control
- Manual Jog or Tracking Motions Available
- RCI-3050 Controller and Two or Three Axis

Auto Locate

- Includes the Same Basic Features of the Dual Axis Motorized Antenna.

Unique Features

- RCI-3000A Controller
- Automatically Locates Satellite without Manually Adjusting

RF Specifications	Linear		Circular	
	Receive	Transmit	Receive	Transmit
Frequency in GHz	3.4 – 4.2	5.7 – 6.725	3.625 – 4.2	5.85 – 6.425
Feed - 2 - Port Xpol				
Return Loss	17.7dB typ	17.7dB	17.7dB typ	17.7dB
Insertion Loss	0.2dB typ	0.2dB typ	0.3dB typ	0.2dB typ
Tx/Rx Isolation	40dB	70dB	40dB	60dB
Feed Interface	WR229	WR137 or N	WR137 or N	WR229

Antenna Specifications

	Receive	Transmit	Receive	Transmit
Efficiency	70%	70%	70%	70%
Cross Polarization on Axis	30dB	35 dB	21 dB	21 dB
within 1dB Beamwidth	22dB	25 dB	21 dB	21dB
Tx/Rx Sidelobe Level	32 – 25log θ	$100\lambda/D < \theta < 48^\circ$	32 – 25 log θ	$100\lambda/D < \theta < 48^\circ$
Midband Gain	36dBi	39.8dBi	35.6dBi	39.5dBi
Noise Temperature	55K @ 10'	-	65K @10'	-

Environmental Data

	Standard	Metric
Wind Loading	45mph	72km/h
	75mph	Survival
Temperature	-40' to 140' F	-40' to 60' C
Rain	0.5in/hr.	1.3cm/h
Solar Radiation	360BTU/h/ft ²	1000Kcal/h/m ²
Reflector Case	88lbs.	40kg
	11 x 44 x 43in.	28 x 112 x 109cm
Mount Case	156lbs	71 kg
	69 x 29 x 19in.	175 x 74 x 48cm

Antenna Specifications

Antenna Optics	Single Offset
Mount Type	Elevation Over Azimuth Tripod
Elevation Adjustment	0' to 90' Continuous Fine Adjustment
Azimuth Adjustment	+30' Fine, 360' Continuous

Other Available Bands:

Ku-Band & X-Band



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