# Patriot 1.8m Flyaway Antenna Systems



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

# 2009 Data Sheet

# The most important thing we build is trust

# **Manual Adjustment**

### **Basic Features**

Preassembled Tripod Base Mount w/Pull Pins All Aluminum Cases for Easy Transportation Patented Four-Piece Dual Skin Metal Reflector Ku-Band

Sturdy Boom Accommodates Outdoor Units Self Leveling Feet for Uneven Surfaces

# **Unique Features**

Azimuth and Elevation Hand Crank
5 Minute Setup

## **Dual Axis Motorized w/ Smart Jog Controller**

Includes the same basic features of the manual adjustment antenna.

### **Unique Features**

Motorized Az/El Mount for Jog Control Easy 15 Minute Setup w/Control Cable Limited Motion Mount

Motorized Feed Assembly for Polarized Adjustment

Actuator Control

Manual Jog or Tracking Motions Available RCI-3050 Controller and 2 or 3 Axis Motorization

## Auto Locate

Includes the same basic features of the Dual Axis Motorized antenna.

### **Unique Features**

RCI-3000A Controller

Automatically Locates Satellite w/out Manually Adjusting

RF Specifications	Linear	
	Receive	Transmit
Frequency in GHz	10.7 - 12.75	13.75 - 14.5
Feed - 2 - Port Xpol		
Return Loss	17.7 dB typ	20 dB typ
Insertion Loss	0.3 dB typ	0.1 dB typ
Tx/Rx Isolation	40 dB	80 dB
Feed Interface	WR75	WR75

Antenna Specifications		Linear
	Receive	Transmit
Efficiency	70%	70%
Cross Polarization On Axis	30 dB	30 dB
within 1 dB Beamwidth	22 dB	26 dB
Tx/Rx Sidelobe Level	Mainbeam < 0 < 7°	29 - 25 log θ
	7° < 0 < 9.2°	+8 dBi
	9.2° < 0 < 48°	32 - 25 log θ
	48° < 0 < 180°	-10
Midband Gain	45.3 dBi	47 dBi
Noise Temperature	55K @ 10°EL	-
	50K @ 30°EL	-

Mechanical Data		
Antenna Optics	Single Offset	
Mount Type	Elevation over Azimuth Tripod	
Elevation Adjustment	0° to 90° Continuous Fine Adjustment	
Azimuth Adjustment	+ 30° Fine, 360° Continuous	

Environmental Data				
	Standard	Metric		
Wind Loading	50 mph	80 km/h		
	75 mph	Survival		
Temperature	-40° to 140°F	-40° to 60°C		
Rain	.5 in/hr.	1.3 cm/h		
Solar Radiation	360 BTU/h/ft <sup>2</sup>	1000 Kcal/h/m <sup>2</sup>		
Reflector Case	88 lbs.	40 kg		
	11 x 44 x 43 in.	28 x112 x 109 cm		
Mount Case	156 lbs	71 kg		
	69 x 29 x19 in.	175 x 74 x 48 cm		



Other Available Bands: Ka-Band & C-Band For further information please contact:

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