

Patriot 2.4m Flyaway Antenna Systems

COBHAM

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

Lightweight Reflector Manual Peaking
Ku-Band
Patented Nine Piece Dual Skin Metal Reflector
Motorized Feed for Polarization Adjustments
Palletized Full Motion Mount

Unique Features

RCI-3050 Controller
Jog Controller and Position Reference Locator

Dual Axis Motorized w/ Auto Locator

Includes the same basic features of the manual adjustment antenna.

Unique Features

Auto Locate
Manual Peaking
GPS and Fluxgate Compass
Auto Satellite Locations
RCI-3000A Controller

Auto Locate

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

Unique Features

Auto Commission
Auto Peaking Using Pulse Sensors
Includes DVB Receiver
Automatically Locates Satellite without Manually Adjusting

RF Specifications	Circular		Linear	
	Receive	Transmit	Receive	Transmit
Frequency in GHz	10.70 - 12.75	13.75 - 14.50	10.70 - 12.75	13.75 - 14.50
Midband Gain (Rx/Tx)	48 dBi	49.6 dBi	48 dBi	49.6 dBi
Antenna Noise Temperature at 30° Elevation	-	30 K	-	30 K
Typical G/T @ 30° EL	-	35 dBi	-	27.6 dBi
Cross Pol Isolation on Axis (4 port)	30 dB	20 dB	22 dB	26 dB
within 1 dB Beamwidth	30 dB	20 dB	22 dB	26 dB
Return Loss	17.7 dB	19 dB	17.7 dB	20 dB
Tx/Rx Sidelobe Level	-	29 - 25 Log θ	1001/D < θ < 20°	-
	-	-4	20° < θ < 26.3°	-
	-	32 - 25 log θ	26.3° < θ < 48°	-
	-	-10	48° < θ	-



2.4m Flyaway Antenna System

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	45 mph	72 km/h
	75 mph	Survival
Temperature	-40° to 140°F	-40° to 60°C
Rain	.5 in/hr.	1.3 cm/h

Other Bands Available:

Ka-Band & C-Band