

Patriot 1.2m Back-Pack Flyaway Systems

COBHAM

Manual Adjustment / Dual Axis Motorized
Ku-Band Option

2009 Data Sheet

The most important thing we build is trust

Manual Adjustment

Basic Features

Pre-assembled Tripod Base Mount with Pull Pins

AIRLINE CHECKABLE

Patented 6-piece Dual Skin Metal Reflector

Durable Nylon Backpack Case

Ku-Band

Sturdy Boom Accommodates Various BUCs

Unique Features

10 Minute Setup

Fine-tune Elevation adjustment

Dual Axis Motorized

Includes the same basic features of the manual adjustment antenna.

Unique Features

Motorized Az/El Mount for Jog Control

Easy 10 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

2 or 3 Axis Motorization

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	35 dB
within 1 dB Beamwidth	22 dB	26 dB
Tx/Rx Sidelobe Level	$100\lambda/D < \theta < 20^\circ$	$29 - 25 \log \theta$
	$20^\circ < \theta < 26.3^\circ$	- 3.5
	$26.3^\circ < \theta < 48^\circ$	$32 - 25 \log \theta$
	$48^\circ < \theta$	-10
Midband Gain	41.8 dBi	43.5 dBi
Noise Temperature	58 K @ 10°EL	-
	53 K @ 30°EL	-

Mechanical & Environmental Data

Reflector	1.2 Meter
Optics	Offset
Reflector Construction	Dual Skin Aluminum, Foam Cavity
Case	Back-pack style case w/rollers & extension handle- Airline Checkable, Bag #1 = 58 lbs, Bag #2 = 17 lbs
Mount	Azimuth over elevation
Travel	Elevation: 10-90°, Azimuth: 360°
Wind	Operational: 20 mph (32 kph) Survival w/ Anchors: 30 gusting to 45 mph
Temperature	Operational: + 15° to 125° Survival: -45° to 140°



1.2m Back-Pack Flyaway System

Other Bands Available:

Ka-Band & X-Band