

Patriot 1.0m Back-Pack Flyaway Systems

COBHAM

Manual Adjustment
Ku-Band Option

2009 Data Sheet

The most important thing we build is trust

Basic Features

Manual Adjustment
Basic Features
Pre-assembled Tripod Base Mount with Pull Pins
Under 65 lbs.
Patented 6-piece Dual Skin Metal Reflector
Durable Nylon Backpack Case
Ku-Band Feed
Sturdy Boom Accommodates Various BUCs

Unique Features

10 Minute Setup
Fine-tune Elevation adjustment
Airline Checkable

RF Specifications

	Linear	
	Receive	Transmit
Frequency in GHz	10.7-12.75	13.75-14.5
Antenna Gain*	39.3 @ 11.7 Ghz	41.4 @ 14.25 Ghz
Antenna Noise Temperature (°K)		
@ 10.7 GHz		
• 10° Elevation	66	
• 20° Elevation	54	
• 30° Elevation	52	
Cross Polarization Isolation		
• On Axis	>30dB	>30dB
• Within 1 dB beamwidth	>25dB	>26dB
VSWR	<1.5:1	<1.2:1
Port to Port Isolation (dB)	>45 dB	>80 dB
Feed Interface	WR75	WR75
Sidelobe Performance	ITU-R S.580	

Mechanical & Environmental Data

Reflector	1.0 Meter	
Optics	Offset, Prime Focus	
Reflector Construction	Dual-skin Aluminum, Foam Cavity	
Mount Type	Azimuth over elevation	
Elevation Adjustment	0° to 90°	
Azimuth Adjustment	360° Continuous	
Wind Loading	Standard	Metric
Operational	20 mph	32.2 kph
Survival (w/Ballast/Anchors)	30 mph gusting to 45 mph	48.3 kph gusting to 72.4 kph
Temperature		
Operational	+ 15° F to 125° F	+ 9.4° C to 51.7° C
Survival w/ Anchors	-45° F to 140° F	-42.8° C to 60° C
Solar Radiation	360 BTU/h/ft ²	1000 Kcal/h/m ²
Case	34" L x 20" W x 15" H	86.4cm x 50.8cm x 38.1cm
Ku-band Feed System	62.75 lbs	28.5 kg
X-band Feed System	65.75 lbs	29.8 kg

* Includes all Losses
(Typical Data, Subject to change)



1.0m Back-Pack Flyaway System