

1.0m Back-pack Flyaway Systems

Manual Adjustment

Option 1

Basic Features

- Preassembled Tripod Base Mount with Pull Pins
- Under 65.0 lbs.
- Patented 6-Piece Dual Skin Metal Reflector
- Durable Nylon Backpack Case
 - Ku and Ka Bands
 - Sturdy Boom Accommodates Various BUCs

Unique Features

- 10 Minute Setup
- Fine-tune Elevation adjustment

- **Airline Checkable**



Dual Axis Motorized with Auto Locate Controller

Option 2

**Coming
Soon!**

Includes Basic Features of Option 1

Unique Features

- Motorized Az/EI Mount for Jog Control
- Easy 10 minute Setup with Control Cable
- Limited Motion Mount
- Motorized Feed Assembly for Polarization Adjustment
- Actuator Control
- Manual Jog or Tracking motions Available
- RCI-3050 Controller
- 2 or 3 Axis Motorization
- **Airline Checkable**



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1.0 m Back-Pack Flyaway Tx/Rx Antenna System

Ku-Band	Receive	Transmit
Polarity	Linear	Linear
Frequency	10.7 - 12.75 GHz	13.75 - 14.5 GHz
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		
	Receive	Transmit
Efficiency	70%	70%
Cross Polarization On Axis within 1 dB Beamwidth	35 dB 22 dB	35 dB 26 dB
Tx/Rx Sidelobe Level	29 - 25 log θ -3.5 32 - 25 log θ -10	100 λ /D < θ < 20° 20° < θ < 26.3° 26.3° < θ < 48° 48° < θ
Midband Gain	40.2 dBi	41.9 dBi
Noise Temperature	61K @ 10°EL 53K @ 30°EL	---

Ka-Band	Receive	Transmit	Receive	Transmit
Polarity	Linear	Linear	Circular	Circular
Frequency	18.2 - 21.2 GHz	27.5 - 31 GHz	19.7-20.2 GHz	29.5-30 GHz
Feed - 2 - Port Xpol				
Return Loss	17.7 dB typ	20 dB typ	16 dB typ	18 dB typ
Insertion Loss	0.3 dB typ	0.1 dB typ	0.5 dB typ	0.3 dB typ
Tx/Rx Isolation	40 dB	80 dB	40 dB	80 dB
Feed Interface	WR42	WR28	WR42	WR28
Antenna				
	Receive	Transmit	Receive	Transmit
Efficiency	65%	65%	65%	65%
Cross Polarization On Axis within 1 dB Beamwidth	30 dB 22 dB	35 dB 25 dB	21 dB 21 dB	21 dB 21 dB
Tx/Rx Sidelobe Level	29 - 25 log θ -3.5 32 - 25 log θ -10	29 - 25 log θ -3.5 32 - 25 log θ -10	100 λ /D < θ < 20° 20° < θ < 26.3° 26.3° < θ < 48° 48° < θ	100 λ /D < θ < 20° 20° < θ < 26.3° 26.3° < θ < 48° 48° < θ
Midband Gain	44.2 dBi	47.8 dBi	44.6 dBi	48.1 dBi
Noise Temperature	78K @ 30°EL	---	90K @ 10°EL 83K @ 30°EL	---

Mechanical

Reflector optics	1.0 Meter Offset, Prime Focus
Reflector Construction	Dual Skin Aluminum, foam cavity
Case	Back Pack style case with rollers and extension handle

Airline Checkable

Mount	Azimuth over Elevation With fine tune
Travel	Elevation- 0 - 90° Azimuth- 360°
Weight	65 lbs
Size	12in x 15in x 25in

Environmental

Wind	Operational	20 mph (32 kph)
	Survival with Anchors	30 gusting to 45 mph (48 to 72 kph)
Temperature	Operational	+15° to 125° F
	Survival	-45° to 140° F

