

1.8m Flyaway System

C-Band		C-Band Linear	
Polarity		Receive	Transmit
Frequency		3.4-4.2 GHz	5.7-6.725 GHz
Feed - 2 Port Xpol			
Return Loss		17.7 dB typ	17.7 dB
Insertion Loss		0.2 dB	0.2 dB
Tx/Rx Isolation		40 dB	70 dB
Feed Interface		WR229	WR137 or N
Antenna Specifications			
Efficiency		70%	70%
Midband Gain		36.0 dBi	39.8 dBi
Noise Temperature		55 K @ 10° 50 K @ 30°	---
Cross Pol On Axis		30 dB	30 dB
1 dB beamwidth		22 dB	25 dB
Tx/Rx Sidelobe Level		32 - 25 log θ -10	100 $\lambda/D < \theta < 48^\circ$ 48° < θ

Ku-Band		Ku-Band Linear	
Polarity		Receive	Transmit
Single Optic Frequency		10.7 - 12.75 GHz	13.75-14.5 GHz
Feed - 2 Port Xpol			
Return Loss		17.7 dB typ	20 dBtyp
Insertion Loss		0.3 dB typ	0.1 dBtyp
Tx/Rx Isolation		40 dB	80 dB
Feed Interface		WR75	WR75
Antenna Specifications			
Efficiency		70%	70%
Midband Gain		45.3 dBi	47.0 dBi
Noise Temperature		55 K @ 10° EL 50 K @ 30° EL	---
Cross Polarization On Axis		30 dB	30 dB
within 1 dB Beamwidth		22 dB	26 dB
Tx/Rx Sidelobe		29 - 25 log θ -3.5 32 - 25 log θ -10	100 $\lambda/D < \theta < 20^\circ$ 20° < $\theta < 26.3^\circ$ 26.3° < $\theta < 48^\circ$ 48° < θ

C-Band Circular			
Polarity		Receive	Transmit
Frequency		3.625-4.2 GHz	5.85-6.425 GHz
Feed - 2 Port Xpol			
Return Loss		17.7 dB typ	17.7 dB
Insertion Loss		0.3 dB	0.2 dB
Tx/Rx Isolation		40 dB	60 dB
Feed Interface		WR229	WR137 or N
Antenna Specifications			
Efficiency		70%	70%
Midband Gain		35.6 dBi	39.5 dBi
Noise Temperature		65K @ 10° 60K @ 30°	---
Cross Pol On Axis		15.3 dB	17.7 dB
1 dB beamwidth		15.3 dB	17.7 dB
Tx/Rx Sidelobe Level		32 - 25 log θ -10	100 $\lambda/D < \theta < 48^\circ$ 48° < θ

X-Band		X-Band Circular	
Polarity		Receive	Transmit
Frequency		7.25 - 7.75 GHz	7.9 - 8.4 GHz
Feed - 2 Port Xpol			
Return Loss		17.7 dB typ	17.7dB
Insertion Loss		0.3 dB typ	0.2 dB typ
*Tx/Rx Isolation		30 dB	30 dB
Feed Interface		WR112	WR112
Antenna Specifications			
Efficiency		70%	70%
Midband Gain		41.5 dBi	42.2 dBi
Noise Temperature		38 K @ 10° 35 K @ 30°	---
Cross Polarization On Axis		23 dB	21dB
1 dB beamwidth		23 dB	21 dB
Tx/Rx Sidelobe Level		100 $\lambda/D < \theta < 20^\circ$ 20° < $\theta < 26.3^\circ$ 26.3° < $\theta < 48^\circ$ 48° < θ	29 - 25 log θ -3.5 32 - 25 log θ -10

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	
Weights and Dims	Standard	Metric
Reflector Petals	2 cases @	2 cases @
Mount	1 case @	1 case @
Reflector & Feed Support	1 case @	1 Case@
Feed System	21x12x11 in 27 lbs	53x30x28 12kg
Total	5 cases 425 lbs**	5 cases 193 kg**
Environmental Data		
Wind Loading	45 mph	72 km/h Operational
	75 mph	Ballast or Anchors)
Temperature	40° to 140°F	-40° to 60°C
Rain	.5 inches per hour	1.3 cm /h
Solar Radiation	360 BTU/h/ft²(1000 Kc.	

**Weights may differ slightly depending on mount configuration

Our cases are constructed of .080 aircraft grade aluminum with Heli-Arc welded corners. Hardware consists of spring loaded recessed handles with Heavy Duty latches and full length piano hinge. The cases are lined with closed cell high density foam and the parts are custom fit and supported with the foam for extra protection. Each case is waterproof. Custom colors may be available.



1.8m Flyaway Systems



Manual Adjustment

Option 1



Basic Features

- Preassembled Tripod Base Mount with Pull Pins
- All Aluminum Cases for Easy Transportation
- Patented Four Piece Dual Skin Metal Reflector
- C, Ku and X Bands
- Sturdy Boom Accommodates Many Outdoor Units
- Self Leveling Feet for Uneven Surfaces

Unique Features

- Azimuth and Elevation Hand Crank for Easy Adjustment
- 5 Minute Setup

Dual Axis Motorized with Smart Jog Controller

Option 2



- Includes Basic Features of Option 1

Unique Features

- Motorized Az/EI Mount for Jog Control
- Easy 15 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

Auto Locate

Option 3

- Includes Features of Option 2

Unique Features

- Fluxgate Compass and GPS Tracking
- RCI-3000A Controller
- Automatically Locates Satellite without Manually Adjusting

**Coming
Soon!**

ISO 9001/2000