


74cm Flyaway Antenna Terminal

Raptor Mount Series



- 74cm three piece lightweight composite reflector
- Carbon fiber tripod, feed arm and side struts.
- Supports high power BUC and LNB
- Stainless steel hardware for excellent corrosion resistance
- Captive Hardware 
- Anodized Pedestal
- Ka or Ku Transceiver Agnostics
- Meets or exceeds regulatory agency requirements
- Available Ka and Ku Band RF feed components
- Available Accessories: GPS, Compass, Stakes, RF Cables

RF Performance

	MODEL#	74136 Ku-Band	74156 Ka-Band
Effective Aperture		74cm (29 in)	74cm (29 in)
Operating Frequency	Tx	13.75 - 14.50 GHz	28.00 - 30.00 GHz
	Rx	10.70 - 12.75 GHz	18.10 - 20.20 GHz
Polarization		Linear Orthogonal	Linear or Circular
Gain (± 0.2 dB)	Tx	39.0 dBi @ 14.3 GHz	45.2 dBi @ 30.0 GHz
	Rx	37.6 dBi @ 12.0 GHz	42.2 dBi @ 20.2 GHz
Cross Polarization	Tx	30dB on axis	circular... 25dB
	Rx	30dB on axis	circular... 22dB
Antenna Noise Temperature	10° Elevation	63K	96K
	20° Elevation	53K	69K
	30° Elevation	47K	54K
3dB Beamwidth	Tx	1.4° @ 14.3 GHz	0.96° @ 30.0 GHz
	Rx	1.7° @ 12.0 GHz	1.38° @ 20.2 GHz
Isolation (Port to Port)	Tx	80dB	90dB
	Rx	30dB	80dB
Output Waveguide Interface Flange	Tx	WR75	WR28
	Rx	WR75	WR42
Sidelobe Envelope (Tx, Co-Pol dB)	100 λ/D < Θ < 7°		29 - 25 Log Θ dB
	7° < Θ < 9.2°		+8 dB
	9.2° < Θ < 48°		32-25 Log Θ dB
	48° < Θ < 180°		-10 dB (averaged)
VSWR		1.7:1 Max	1.3:1 Max

Mechanical Performance

Reflector Material	Lightweight Composite	
Mount Type	Elevation over Azimuth	
Maximum Radio Weight	2.2kg or 5lb for RF Electronics	
Elevation Adjustment Range	.5° - 90° Continuous, ±5° Fine	
Azimuth Adjustment Range	360° Continuous, ±5° Fine	
Wind Loading	Operational (without ballast)	40 km/h (25 mph)
	With Ballast (with staking)	56 km/h (35 mph)
Temperature	-30°C to 60°C	
Humidity	0 to 100% (Condensing)	
Rain	Operational	4" / hr (10cm / hr)
	Survival	6" / hr (15cm / hr)
Solar Radiation	360 BTU/h/ft2	
Weight Without Case	Mechanism	21 lbs
	Reflector	14 lbs
Weight With Case	42 lbs	
Rucksack	33" x 15" 12"	

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