

74cm Flyaway Antenna Terminal

Raptor Series



- Five piece antenna terminal assembly: reflector, foldable pedestal side struts, feed arm and feed/electronics assembly.
- 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
- Transceiver Agnostics
- Meets or exceeds regulatory agency requirements
- Available Ka and Ku Band RF 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 Rx 10.70 - 12.75 GHz	. . . . . 28.00 - 30.00 GHz 18.10 - 20.20 GHz
Polarization	. . . . . Linear Orthogonal	. . . . . Linear or Circular
Gain (± 0.2 dB)	Tx 39.0 dBi @ 14.3 GHz Rx 37.6 dBi @ 12.0 GHz	. . . . . 45.2 dBi @ 30.0 GHz 42.2 dBi @ 20.2 GHz
Cross Polarization	Tx 30dB on axis Rx 30dB on axis	. . . . . circular 25dB circular 22dB
Antenna Noise Temperature	10° Elevation 63K 20° Elevation 53K 30° Elevation 47K	. . . . . 96K 69K 54K
3dB Beamwidth	Tx 1.4° @ 14.3 GHz Rx 1.7° @ 12.0 GHz	. . . . . 0.96° @ 30.0 GHz 1.38° @ 20.2 GHz
Isolation (Port to Port)	Tx 80dB Rx 30dB	. . . . . 90dB 80dB
Output Waveguide Interface Flange	Tx WR75 Rx WR75	. . . . . WR28 WR42
Sidelobe Envelope (Tx, Co-Pol dB)	100 λ/D < Θ < 7° 7° < Θ < 9.2° 9.2° < Θ < 48° 48° < Θ < 180° . . . . .	. . . . . 29 - 25 Log Θ dB +8 dB 32-25 Log Θ dB -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 47 lbs
Rucksack 37" x 19" 16"

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