

TracStar1800P4-4 MultiBand Fly Away

Manual Adjustment Fly Away Antenna System

COBHAM

Multi-Band / Ku, C and X Bands
Data Specification

The most important thing we build is trust

Manual Adjustment Features

- Feeds for Ku, C and X Bands Available
- Pre-Assembled Tripod Base Mount
- 4 Piece Segmented SMC Reflector
- Leveling Feet for uneven surfaces
- Fine-Tune Azimuth / Elevation Adjustment
- 15 Minute Setup



The TracStar1800 manual fly away antenna provides an excellent light weight fly away antenna solution with a 4 piece segmented reflector. The low profile stabilized pedestal design provides excellent performance and the complete system transports in two ruggedized shipping cases.

Antenna Characteristics	C Circular	
	Receive	Transmit
Frequency (GHz)	3.625-4.2	5.85-6.425
Antenna Gain (dBi ± 0.2) (GHz)	35.4 @ 3.9125	39.5 @ 6.1375
Antenna Noise Temperature (°K) @3.9125 GHz		
• 10° Elevation	41	-
• 20° Elevation	36	-
Axial Ratio (dB)	3.0	2.3
Cross Polarization Isolation (dB)		
• On Axis	-15.3	-17.5
• Within 1dB beamwidth	-15.3	-17.5
VSWR	1.5:1	1.3:1
Port to Port Isolation (dB) Tx/Rx	-60	0 dBm input
Rx/Tx	0 dBm input	-60 dB
Sidelobe Performance	Compliant with IESS 207	
Port Configuration	2 Port	

Antenna Characteristics	Ku Linear	
	Receive	Transmit
Frequency (GHz)	10.7-12.75	13.75-14.5
Antenna Gain (dBi ± 0.2) (GHz)	45.3 @ 11.725	46.6 @ 14.125
Antenna Noise Temperature (°K) @11.725 GHz		
• 10° Elevation	55	-
• 20° Elevation	50	-
Cross Polarization Isolation (dB)		
• On Axis	-30.0	-30.0
• Within 1dB beamwidth	-23.0	-23.0
VSWR	<1.5:1	<1.3:1
Port to Port Isolation (dB) Tx/Rx	--110	0 dbm input
Rx/Tx	0 dbm input	-35
Sidelobe Performance	Compliant with ITU-R S.580	
Port Configuration	2 Port Cross Pol	

Antenna Characteristics	C Linear	
	Receive	Transmit
Frequency (GHz)	3.4-4.2	5.85-6.425
Antenna Gain (dBi ± 0.2) (GHz)	35.4 @ 3.9125	39.3 @ 6.1375
Antenna Noise Temperature (°K) @3.9125 GHz		
• 10° Elevation	41	
• 20° Elevation	36	-
Cross Polarization Isolation (dB)		
• On Axis	-30	-30
• Within 1dB beamwidth	-23	-23
VSWR	<1.5:1	<1.3:1
Port to Port Isolation (dB) Tx/Rx	-60	0 dBm input
Rx/Tx	0 dBm input	-60
Sidelobe Performance	Compliant with IESS 207	
Port Configuration	2 Port Cross Pol	

TracStar 1.8m MultiBand Manual Flyaway

Broadband Anywhere - Anytime

Data Specifications

Antenna Characteristics	X Circular	
	Receive	Transmit
Frequency (GHz)	7.25-7.75	7.9-8.4
Antenna Gain (dBi ± 0.2) (GHz)	41.3 @ 7.5	42.0 @ 8.15
Antenna Noise Temperature (°K) @ 7.5 GHz		
• 10° Elevation	60	-
• 20° Elevation	56	-
Axial Ratio (dB)	1.5	1.5
Cross Polarization Isolation (dB)		
• On Axis	-21.3	-21.3
• Within 1dB beamwidth	-21.3	-21.3
VSWR	<1.3:1	<1.3:1
Port to Port Isolation (dB) Rx/Tx	-110	0 dBm input
Tx/Rx	0 dBm input	-110
Sidelobe Performance	Meets DSCS	
Port Configuration	2 Port	

Environmental Performance	
Temperature Range	
• Operational	-40°F to 140°F (-40° to 60°C)
• Survival	-58°F to 158°F (-50° to 70°C)
Winds	
• Operational	Up to 25 mph (45 kph) w/o ballast 30 Gusting to 45 mph with ballast or anchors (40 kph Gusting to 72 kph)
• Survival	60 mph (96 kph) with tie downs / any position

Mechanical Specifications	
Antenna Size	1.8 Meter
Optics	Offset
Reflector Construction	.6 F/D / Glass Fiber Reinforced Polyester
Mount Type	Tripod Base
Adjustment Range	
• Azimuth	± 35° Continuous fine adjust (360° coarse)
• Elevation	0° to 90° of Reflector Boresight
• Polarization	± 90°
Cases (w/o Feed)	
Pedestal / Backbeam Case	34" x 29" x 17-3/4", 67 lbs (86.36 x 73.66 x 45.08, 30.5kg)
Boom / Outriggers Case	49" x 22" x 11-1/2", 67 lbs (124.45 x 55.88 x 29.21, 28.6kg)
Reflector (4 Pcs) - 2 ea	39" x 41" x 13-1/2", 81 lbs. (99.06 x 104.14 x 34.29, 36.8kg)
Total Antenna Weight (less feeds)	134 lbs, (61kg)

Specifications are subject to change without prior notice

⁽¹⁾ Weights are approximate

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