

Model 2.4m Manual FlyAway SNG Antenna

Unique Features

- Ultra Lightweight Manual Antenna with Integral Base and Extending Stabilizer Legs
- 2.4m, 9 piece Carbon Fiber Reflector
- Unique Azimuth Mechanism and Elevation ACME Screw Manual Actuators Allow Full Range of Motion for Coarse Adjustment

Standard Rx/Tx Feed Optional Rx/Tx Feeds

- 10-Minute Setup
- 2-Port Ku Precision (standard Cross-Pol comp.)
- 2-Port C-Band LP
- 2-Port Mode-Match (enhanced Cross-Pol comp.)
- 2-Port X-Band CP

Polarization Adjustment

- Rotation of Feed
- Optional Remote Hand Crank

Options

- 1.6m, 1.8m, 2.0m Reflectors (for specs consult factory)



Mechanical

Reflector Construction	Carbon Fiber	
Travel		
Azimuth	Coarse	360° Continuous
	Fine	± 10°
Elevation	Coarse	+5 - 95°
	Fine	+5 - 95°
Polarization (Ku)		± 95°
RF Interface		
BUC Mounting	Feed Boom (35 lbs. max), or Remote	
Coax	Two connectors at Amplifiers	
Electrical Interface	Connectors at Amplifiers	
Set-up Time	Less than 10 minutes	
Stowed Configuration & Weights in Hard Roto-molded Transit Cases		
Reflector	28" X 28" X 24", weighs 127 lbs.	
Tripod	54" X 29" X 16", weighs 106 lbs.	
Positioner	33" X 25" X 24", weighs 87 lbs.	
Feed Boom/Ku Feed	54" X 29" X 16", weighs 100 lbs.	
Total Weight	240 lbs. (not including cases)	
<i>Note: BUC and LNB are CFE</i>		

Environmental

Wind – Survival (anchored)	80 mph in stowed position (90° elevation)
Wind - Operational	
Without anchoring	20 mph
With anchoring	30 mph gusting to 45 mph
Pointing Loss in Wind	
C-Band Receive	
20 mph	0.1 dB typical
30 mph gusting to 45 mph	0.3 dB typical
Ku-Band Receive	
20 mph	0.4 dB typical
30 mph gusting to 45 mph	2.0 dB typical
Temperature:	
Operational	-22° to 125° F (-30° to 52° C)
Survival	-40° to 140° F (-40° to 60° C)

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RF/Electrical

Feed Type ▶	Std. 2-Port Ku-Band		Std. 2-Port X-Band		Std. 2-Port C	
RF Parameter ▼	Receive	Transmit	Receive	Transmit	Receive	Transmit
Frequency Range (GHz)	10.95 - 12.75	13.75 - 14.50	7.25 – 7.75	7.9 – 8.4	3.625-4.20	5.85-6.425
Polarization Configuration	Linear Orthogonal Standard, Optional Co-Pol		Circular RHCP or LHCP		Linear	
Gain (mid-band)	47.3	48.8	43.3	44.1	37.7	41.6
-3dB Beam width (midband)	0.7°	0.6°	1.2°	1.1°	2.2°	1.4°
G/T, midband, clear horizon	27.0 dB/° K with 50° LNB		22.7 dB/°K (with 55°K LNB)		19.3 dB/° K with 20° LNB	
Radiation Pattern Compliance	FCC 25.209, ITU-R S.580-6, IESS 208		MIL-STD-188-164A		FCC 25.209, ITU-R S.580-6, IESS 207	
Antenna Noise Temp. (mid-band, 20° el)	56° K		59°K		49° K	
Power Handling Capability	500W per port		1000W per port		1000W per port	
Axial Ratio, CP only, within Pointing Cone (dB)			1.21 dB	2.0 dB	2.3 dB	1.3 dB
VSWR	1.30:1	1.30:1	1.30:1	1.30:1	1.30:1	1.30:1
Cross-Polarization Isolation (dB)						
On Axis (minimum)	35	35			35	35
Within pointing cone	28 Std. Precision	30 Std. Precision			30	30
Feed Port Isolation – Tx to Rx (dB)	35	80 (incl.filter)	115 (includes filters)	115 (includes filters)	65	105 (incl.filter)

Available Options, Upgrades & Services

- Standard feed is 2-Port Ku-Band Precision
- Optional feeds include 2-Port C-Band LP, 2-Port X-band, 2-Port Mode-Match (enhanced Cross-Pol comp.)
- BUC/LNB mounting
- Waveguide interconnect options
- Wind anchoring options: ground stakes, sand bags
- Computer Assisted Pointing (CAP)

