

Model 0714 70cm Manual FlyAway Antenna

- Unique Features**
 - Manual Az/EI operation standard – coarse & fine
 - Manual Pol rotation
 - 8-minute set-up
 - Airline carry-on IATA compliant single case pack up (less than 40 lbs. and 45" girth)
- Standard Rx/Tx Feed**
 - 2-Port Ku-Band (LP)
- Optional Rx/Tx Feeds**
 - 2-Port X-Band MIL (CP) (WGS) – Opt. Rx/Tx Reject Filter Kit
 - 2-Port Ka-Band Wideband (CP) (WGS)
- Other Options**
 - Computer-assisted manual pointing
 - BUC/LNB integration
- Standard Colorization**
 - White reflector; black positioner, boom, feed and tripod



Mechanical

Az/EI Drive	Manually-driven fine and coarse adjustment (visual scales standard)
Polarization Drive System	Manual rotation of feed (visual scales standard)
Reflector Construction	Segmented carbon fiber
Axis Travel	
Azimuth	360 degree continuous
Elevation (reflector bore sight)	0-90 degrees
Polarization	+/- 45 degrees
Standard Integration Interfaces	
Tx Input @ Feed	Waveguide flange (cover)
Rx Input @ Feed	Waveguide flange (cover)
BUC (& other CFE) Mounting	Contact Sales
Manual/Emergency Drive	Three-lobe knob for manual adjustment standard
Weight	<40 lbs. packed in airline carry-on compliant backpack

Environmental

Wind – Survival	Deployed: 60 mph (97 kph) (ballasted)
Wind – Operational	30 mph (48 kph) gusting to 45 mph (72 kph)
Pointing Loss in Wind (Ku RX):	
30 mph (48 kph)	0.05 dB
45 mph (72 kph)	0.13 dB
Temperature:	
Operational	-40°F to 140°F (-40°C to 60°C)
Survival	-50°F to 180°F (-46°C to 82°C)

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RF/Electrical

Feed Type ►	Std. 2-Port Precision Ku-Band		Opt. 2-Port X-Band (Military/WGS)		Opt. 2-Port Ka-Band	
	Receive	Transmit	Receive	Transmit	Receive	Transmit
RF Parameter ▼						
Frequency Range (GHz)	10.95 - 12.75	13.75-14.50	7.25 - 7.75	7.90 - 8.40	19.2 - 21.2	29.0 - 31.0
Polarization Configuration	Linear orthogonal standard, optional co-pol		RHCP or LHCP configurable		Circular (opt. linear feed available)	
Gain (mid-band)	36.3 dBi	37.9 dBi	32.4 dBi	33.1 dBi	41.0 dBi	44.2 dBi
-3dB Beam width (mid-band)	2.5°	2.1°	3.9°	3.6°	1.4°	1.0°
Radiation Pattern Compliance	FCC 25.209*, ITU-R S.580-6		MIL-STD-188-164A		FCC 25.209*, MIL-STD-188-164A	
G/T with LNB, midband, clear horizon	15.8 dB/° K (50° LNB)		12.0 dB/° K (55° LNB)		17.5 dB/° K (100° LNB)	
Antenna Noise Temp. (mid-band, 20° EI)	60° K		56° K		121° K	
VSWR	1.30:1	1.30:1	1.30:1	1.30:1	1.30:1	1.30:1
Axial Ratio (Ka and X only, within pointing cone)			1.21 dB	2 dB	1.5 dB	1.0 dB
Cross-Polarization Isolation (Ku only)	30dB	30dB				
Feed Port Isolation (Tx to Rx)	35 dB	80 dB (incl.filter)	100 (incl. opt.filter)	100 (incl. opt.filter)	35 dB	80 dB (incl. filter)

Available Options/Upgrades/Services

- Soft or hard side Transit Case options
- Add BUC/HPA mounting (NOTE: minimum elevation may be restricted by these options)) (may require second case)
- Upgrade to custom RF/IF I/O cabling configurations available
- Custom colorization (contact factory for available colors)
- Add custom logo on reflector face (1- or 2-Color; per AvL Logo Policy)
- Spare parts kit

* Outside main beam