

## 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 pointing (CAP) device
  - 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; 3-lobe knob for each axis)
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; 3-lobe knob for each axis
Polarization	+/- 45 degrees
Standard Integration Interfaces	
Tx Input @ Feed	Waveguide flange (cover)
Rx Input @ Feed	Waveguide flange (cover)
BUC (& other CFE) Mounting	Contact Sales
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:	<i>Standard</i>	<i>With optional CAP device</i>
Operational	-40°F to 140°F (-40°C to 60°C)	-22°F to 125°F (-30°C to 52°C)
Survival	-50°F to 180°F (-46°C to 82°C)	-40°F to 140°F (-40°C to 60°C)

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### RF/Electrical

Feed Type ►	Std. 2-Port Precision Ku-Band		Opt. 2-Port X-Band (MIL/WGS)		Opt. 2-Port Ka-Band (MIL/WGS)	
	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)	37.1 dBi	38.6 dBi	33.1 dBi	33.8 dBi	41.3 dBi	44.8 dBi
-3dB Beam width (mid-band)	2.3°	1.9°	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	16.8 dB/° K (50° LNB)		12.8 dB/° K (55° LNB)		17.8 dB/° K (100° LNB)	
Antenna Noise Temp. (mid-band, 20° EI)	55° K		52° 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)	35dB	35dB				
Feed Port Isolation (Tx to Rx)	35 dB	80 dB (incl.filter)	100 (incl. opt.filter)	100 (incl. opt.filter)	35 dB	85 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
- Computer Assisted Pointing (CAP) device

\* Outside main beam

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