

# AvL TECHNOLOGIES

## Model 915 Medium Class Manual FlyAway 0.98m Segmented Carbon Fiber Antenna Tri-Band Configurable

- Unique Features**
- Lightweight manual antenna with integral base and folding tripod
  - .98m, 12 piece carbon fiber reflector
  - Unique azimuth and elevation positioner
  - 5-minute setup
  - Auto-acquire upgrade available

**Standard Rx/Tx Feed** 2-Port Ku-Band Precision

- Optional Rx/Tx Feeds**
- 2-Port Ka-Band commercial / MIL (WGS) including GX
  - 2-Port X-Band MIL (WGS) – Opt. Rx/Tx reject filter kit

**Polarization Adjustment** Manual rotation



### Mechanical

Reflector Construction	Carbon fiber / aluminum
Travel	
Azimuth	+/-95°
Elevation	+5° to 95°
Polarization (Ku)	360° continuous
RF Interface	
BUC Mounting	Rear of reflector (10 lbs. typ), or remote
Coax	Two connectors at amplifiers
Electrical Interface	Connectors at amplifiers
Set-up Time	Less than 5 minutes
Assembled Weight	<41 lbs. (with Ku-Band Precision feed, less BUC)
Case Integration	Two Pelican Air 1615 travel cases, one for positioner, one for reflector, <50 lbs. each Exterior dimensions: 29.59" x 15.50" x 9.38" (75.2 x 39.4 x 23.8 cm)

### Environmental

Wind – Survival (anchored)	45 mph
Wind - Operational	
Without anchoring	25 mph
With anchoring	30 mph gusting to 45 mph
Pointing Loss in Wind	
Ku-band Receive, Operational winds	0.4 dB typical, 0.8 dB max
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 <i>DBS bands avail. upon request</i>		2-Port Ka-Band		2-Port X-Band	
RF Parameter ▼	Receive	Transmit	Receive	Transmit	Receive	Transmit
Frequency Range (GHz)	10.95 - 12.75	13.75 - 14.50	19.2 - 21.2	29.0 - 31.0	7.25 - 7.75	7.90 - 8.40
Polarization Configuration	Linear Orthogonal Standard, Optional Co-Pol		Circular or Linear		RHCP or LHCP	
Gain (mid-band) (dBi)	39.8	41.4	44.1	47.3	35.9*	36.6*
Beamwidth (-3 dB)	1.8°	1.5°	1.0°	0.75°	2.9°	2.6°
G/T, Midband, Clear Horizon	19.6 dB/° K with 50° LNB		20.7 dB/° K with 100° LNB		15.8 dB/° K with 55° LNB	
Antenna Noise Temperature @ 20° El, midband	52° K		115° K		48° K (including optional filter)	
Radiation Pattern Compliance	FCC 25.209, ITU-R S.580-6, IESS 208		FCC 25.209, MIL-STD-188- 164A		MIL-STD-188-164A	
EIRP (40 W P1)		57.4 dBw		63.3 dBw		52.6 dBw
Power Handling Capability		75W		50W		100W
VSWR	1.30:1	1.30:1	1.30:1	1.30:1	1.30:1	1.30:1
Axial Ratio, CP only, within Pointing Cone (dB)			1.5	1.0	1.21	2.0
Cross-Polarization Isolation (dB)						
On Axis (minimum)	35	35				
Within Pointing Cone	35	35				
Feed Port Isolation – Tx to Rx (dB)	35	80 (incl.filter)	80	80 (incl.filter)	115 (includes optional filter)	115 (includes optional filter)

### Available Options, Upgrades & Services

- AvL AAQ motorized computer-assisted pointing & acquisition upgrade
- Beacon receiver
- Customer-furnished ODU/modem integration
- Customer-furnished BUC/LNB mounting
- Waveguide interconnect options
- Wind anchoring options: ground stakes, sand bags
- Optional soft sided ballistic nylon cases
- Additional feed band cases
- Add custom logo on reflector face (1- or 2-color; per AvL logo policy)
- Spare parts kit

\*Not including optional filters

Request A Quote