AVL TECHNOLOGIES

Model 1315 Medium Class Manual FlyAway 1.35m Segmented Carbon Fiber Antenna Tri-Band Configurable

Unique Features	 Lightweight manual antenna with integral base and folding tripod 1.35m, 12 piece carbon fiber reflector AvL Cable Drive azimuth and elevation positioner 5-minute setup High wind struts included Auto-acquire upgrade available 2 part Ku Rand Bracisian
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)	+/-95°						
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 checkable travel cases, one for positioner, one for reflector, <70 lbs. each Exterior dimensions: 31.52" x 20.83" x 12.50" (80.06 x 52.91 x 31.75 cm)						
Environmental							
Wind – Survival (anchored)	45 mph						
Wind - Operational Without anchoring With anchoring	25 mph 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 DBS bands avail. upon request		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)	42.3	43.8	46.7	50.0	38.3*	39.0*			
Beamwidth (-3 dB)	1.4°	1.1°	0.8°	0.5°	2.2°	2.0°			
G/T, Midband, Clear Horizon	22.2 dB/° K with 50° LNB		23.2 dB/° K with 100° LNB		18.0 dB/° K with 55° LNB				
Antenna Noise Temperature @ 20° El, midband	50° K		112° K		46° 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)		59.8 dBw		66.0 dBw		55 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