AvL TECHNOLOGIES

Model 2015 2.4m Manual FlyAway Antenna

Unique Features

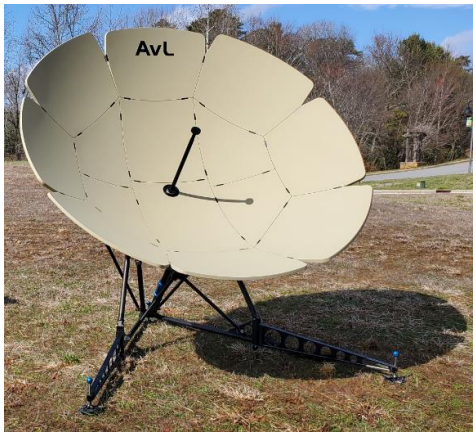
- Most compact 2.4m transportable and packable antenna available
- < 15-minute total set-up & satellite acquisition
- Airline checkable
- High-stiffness 14-piece carbon fiber reflector
- High-stiffness, ultra-light positioner base
- Durable sand feet with levelling mechanism
- AvL proprietary SatCAP antenna pointing tool
- Intuitive coarse/fine Az/El positioning
- Simple feed polarization positioning

Available Feeds

- 2-port Ku-Band LP
- 2-, 3-, or 4-port Ka-Band CP or LP
- 2-port C-Band LP or CP
- 2-port X-band CP

Other Options

- Customized frequency bands
- Versatile RF performance
- Engineered mounting of customer-provided equipment
- Custom reflector color and logo



Mechanical

Reflector Construction		Carbon fiber composite
Optics		Axi-symmetric ring focus splash plate
Travel		
Azimuth	Coarse	360° continuous
	Fine	± 10°
Elevation	Coarse	+7 - 90°
	Fine	+7 - 90°
Polarization (LP feeds)		± 95°
RF Interface		
Tx – BUC		• Waveguide flange at Tx feed port (contact AvL Sales for specific flange interface options); BUC can be mounted on the ground or behind the feed (may require AvL Engineering evaluation)
Rx – LNB		• Directly mounted to feed Rx port (contact AvL Sales for specific flange interface options)
Set-up & Acquisition Time (Ku, typ.)		• Unpack, assembly & levelling < 7 minutes • Coarse pointing < 3 minutes • Fine pointing/peaking < 5 minutes
Power Requirements		Voltage – 100 to 277 VAC
Power Consumption		BUC + LNB + Modem only
Transport Weights and Dimensions		
Case 1 – EL over AZ Positioner		<80 lbs., 45”L x 16”W x 13”D
Case 2 – Reflector		<100 lbs., 37”L x 27”W x 14”D

Environmental

Wind – Survival (anchored)	60 mph in stowed position (90º elevation)
Wind – Operational (any look angle)	
Without anchoring	15 mph
With anchoring	45 mph
Pointing Loss in Wind	
Ku-Band Receive	
20 mph	0.2 dB typical
30 mph gusting to 45 mph	1.2 dB typical
Temperature:	
Operational	-32° to 55° C
Storage	-40° to 60° C

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All specifications subject to change without notice.

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RF/Electrical

Feed Type ►	Std. 2-Port Ku-Band		Std. 2-Port Ka-Band		Std. 2-Port X-Band		C-Band	
RF Parameter ▼	**Receive**	**Transmit**	**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	7.9 - 8.4	3.625 – 4.200	5.850 – 6.425
Polarization Configuration	LP/Orthogonal Standard, Optional LP/Co-Pol		CP Orthogonal Standard		CP Orthogonal Standard		CP or LP Orthogonal	
Gain (mid-band)	47.1	48.7	51.1	54.0	42.8*	44.0*	36.9	40.7
-3dB Beamwidth (midband)	0.8°	0.6°	0.4°	0.3°	1.2°	1.1°	2.3°	1.5°
G/T, midband, clear horizon, 20 deg. elev.	26.0 dB/K 50° K LNB		27.6 dB/K 100° K LNB		21.7 dB/K 55° K LNB		18.2 dB/K 20° K LNB	
Radiation Pattern Compliance	FCC 25.209, ITU-R S.580-6, IESS 208		FCC 25.209, ITU-R, IESS, MIL-STD-188-164		FCC 25.209, ITU-R, IESS, MIL-STD-188-164		FCC 25.209, ITU-R S.580-6, IESS 208	
EIRP		64.3 dBW w/ 40W BUC		67.5 dBW w/ 25W BUC		62.8 dBW w/ 80W BUC		59.7 dBW w/ 80W BUC
VSWR	1.30:1	1.30:1	1.30:1	1.30:1	1.30:1	1.30:1	1.30:1	1.30:1
Cross-Polarization Isolation (dB)	>30 dB		>30 dB		>30 dB		>30 dB	
Feed Port Isolation – Tx - Rx (dB)	35	80 (incl. filter)	80	80 (incl. filter)	115 (includes optional filter)	115 (includes optional filter)	65	105 (incl. filter)

Available Options, Upgrades & Services

- Standard feed is 2-port Ku-Band LP; optional feeds include 2-port C-Band LP or CP, 2-port X-band CP, 2-, 3-, or 4-port Ka-Band CP or LP
- Customized frequency bands
- Engineered mounting of customer-provided equipment
- BUC/LNB integration
- Wind anchoring options: ground stakes, sand bags
- AvL SatCAP antenna pointing tool
- Custom reflector color and logo

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