

# AVL TECHNOLOGIES

## Model 2060

### Dual-Band Motorized FlyAway Antenna System



Reflector Type	2.0M segmented carbon fiber
Optics	Offset, Prime Focus, 8 F/D
Interchangeable Feeds	CLP, CCP, Ku LP,
Positioner	Case-based Jack-in-the-Box
Az/EI Drive System	Patented Roto-Lok® positioner
Mount Geometry	Elevation over azimuth
Polarization Adjustment	Motorized rotation of linear feeds
Military Standard	MIL-STD-188-164a Type E-V

#### **Mechanical**

Travel	- Azimuth	400°
	- Elevation: Operational	15-90° of boresight with 400° Az travel
	- Polarization	0-90° of boresight with ± 15° Az travel
Speed	- Slewing/Deploying	±95° of linear feeds, adjustable within <1°
	- Peaking	2°/second
	- Tracking	0.2°/second
Electrical Interface		0.1°/second
Emergency Drive		25 ft. cable with connectors for controller
Wind - Operational-mph		Handcrank on Az, EI; 12V leads on pol
	Without anchoring	35 mph
	With anchoring	45 mph
	- Survival	80 mph in zenith stowed position
Temperature - Operational		+15° to 125°F
	- Survival	-40°F to 140°F
Configuration - Rugged Cases		
	Motorized Positioner	26" x 27" x 25" 148 lbs.
	Outriggers/Feed Boom	
	Ku-LP Feed	20" x 59" x 12" 105 lbs.
	Reflector Panels	36" x 34" x 12" 165 lbs. standard, 150 lbs. optional
	Feeds	
	C-CP and C-LP	30" x 30" x 16" 60 lbs.
	X-CP, X-LP	30" x 30" x 16" 60 lbs.
RF Interface		
	HPA Mounting	Separate CFE case or rear of reflector
Set-up Time		Less than 30 minutes

#### **Controllers**

Auto-Acquisition	One-button deploy with full-automatic satellite acquisition, peaking, and cross-pol adjustment using GPS, compass and level-sensor inputs; certified for auto-commission on certain satellite systems.
Tracking	Step-tracking with CFE beacon receiver receiver to reduce gain loss to 0.8 dB without wind and 2.0 dB with operational winds
Operator Interface	Front panel keyboard with 4-line display or remote PC
Auto Positioning Accuracy	±0.2°
Input Power	90-256V AC power supply, 10A peak, 2A continuous

## Model 2060 Dual-Band FlyAway

### C-Band

Frequency  
Polarization  
Gain (Midband)  
Antenna Noise Temperature @ 30°  
G/T with 20°K LNB  
Radiation Pattern Compliance  
Axial Ratio within Tracking Cone  
Linear Polarization with Tracking Cone  
Power Handling Capability

### Receive

3.40 -4.20 Ghz  
Linear or circular, convertible to either RCP or LHCP  
36.1 dBi  
50°K  
17.0 dB/K  
IES S-6 01 and FCC 47CFR2 5.209  
1.3 dB  
>30 dB  
1000 watts per port

### Transmit

### Ku-Band

Frequency  
Polarization  
Gain (Midband)  
Antenna Noise Temperature @ 30°  
G/T with 43°K LNB  
Radiation Pattern Compliance  
Cross-Polarization  
Power Handling Capability

### Receive

10.95-12.75 Ghz  
Orthogonal Linear, Optional Co-pol Linear  
45.7 dBi  
47°K  
25.4 dB/K  
IES S-6 01 Std. Gain and FCC 47CFR 25.2 09  
35 dB within cone of tracking error  
500 watts per port

### Transmit

13.75-14.5 Ghz  
47.5 dBi



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