

AVL TECHNOLOGIES

MODEL 1210KFD SNG

1.2 METER MOTORIZED FLY & DRIVE ANTENNA

Reflector	1.2 Meter
Optics	Offset, Prime Focus, .8 f/d
Drive System	Patented Roto-Lok® Positioner
Mount Geometry	Elevation over Azimuth
Polarization	Rotation of Feed



Buy Now!



Electrical RF

Frequency Range	10.95-12.75 GHz	13.75-14.5 GHz
Gain (Midband)	42.0 dBi	43.2 dBi
VSWR	1.30:1	1.30:1
Beamwidth (degrees)		
-3 dB	1.4	1.2
-10 dB	2.5	2.1
First Sidelobe Level (Typical)	-19 dB	-22 dB
Radiation Pattern Compliance	FCC §25.209, ITU-R S.528.5	
Antenna Noise Temperature	30° K at 30° Elevation	
Polarization	Linear Orthogonal Standard, Optional Co-pol	
Power Handling Capability		40 Watts
Cross-Pol Isolation		
On-Axis (minimum)	35 dB	35 dB
Off-Axis (within 1 dB BW)	26 dB	28 dB
Off-Axis (peak)	22 dB	25 dB
Feed Port Isolation – TX to RX	75 dB	
Satellite System Compliance	FCC and PanAmSat Worldwide	

Receive

Transmit

Controllers

Optional Upgrades
Auto-acquisition

One-button acquisition of selected satellite including peaking and optimization of cross-pol (certified for auto-commissioning on most satellite services)

Size

Power Supply & Handheld for Auto-acquisition
Optional 1 RU Controller

Input Power

110/240 VAC, 1 ph, 50/60 Hz, 6/3A peak, 1A continuous



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Mechanical

Az/EI Drive System	Patented Roto-Lok® Cable Drive System
Polarization Drive System	Stainless Steel Chain Drive
Reflector Material	Glass Reinforced Plastics
Travel	
Azimuth	400°
Elevation	True elevation readout from calibrated inclinometer
Mechanical	0° to 90° of reflector boresight
Electrical	Standard limits at 5° to 65° (CE Approval) or 5° to 90°
Polarization	±95°
Speed	
Slewing/Deploying	2°/second
Peaking	0.2°/second
Motors	24V DC Variable Speed, Constant Torque
RF Interface	
BUC Mounting	Feed Boom
Waveguide	Grove Flexible Waveguide From Feed
Coax	2-RG59 run from feed to base plus 25 ft. (8 m)
Electrical Interface	25 ft. (8 m) Cable with Connectors for Controller
Manual Drive	Handcrank on Az and EI Axii,
Weight Drive Configuration	140 lbs. (63.5 Kg)
Weight Flyaway Configuration	Case #1 185 lbs. (84 Kg) Motorized Auto Acquisition Positioner Case #2 45 lbs. (20.4 Kg) 2 Pc. Reflector Case #2 29 lbs. (13.2 Kg) 2 or 4 Pc. Carbon Fiber (Option)
Flyaway Positioner	55 L x 21 W x 26 H inches (140 L x 53 W x 66 H cm)
2 Pc. Reflector Bag	52 L x 32 W x 6 H inches (132 L x 81 W x 15 H cm)
2 Pc. Reflector Bag (Carbon Fiber) Option	52 L x 32 W x 6 H inches (132 L x 81 W x 15 H cm)
4 Pc. Reflector Bag (Carbon Fiber) Option	27 L x 27 W x 6 H inches (Qty2) (69 L x 69 L x 15H cm)

Environmental

Wind	
Survival	
Deployed	65 mph (121 kmph)
Stowed	80 mph (161 kmph)
Operational	45 mph (72 kmph)
Pointing Loss in Wind	
20 mph (32 kmph)	0.5 dB Typical
30 Gusting to 45 mph (48 to 72 kmph)	1.0 dB Typical
Temperature	
Operational	+5° to 125°F (-15° to 52°C)