AVL TECHNOLOGIES MODEL 1278KFD MOBILE VSAT 1.2 METER MOTORIZED FLY & DRIVE ANTENNA

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



Electrical RF

Frequency Range Gain (Midband) VSWR Beamwidth (degrees) -3 dB -10 dB First Sidelobe Level (Typical) Radiation Pattern Compliance Antenna Noise Temperature Polarization **Power Handling Capability Cross-Pol Isolation On-Axis** (minimum) Off-Axis (within 1 dB BW) Off-Axis (peak) Feed Port Isolation – TX to RX Satellite System Compliance

Receive Transmit 10.95-12.75 GHz 13.75-14.5 GHz 42.0 dBi 43.2 dBi 1.30:1 1.30:1 1.4 1.2 2.5 2.1 -19 dB -22 dB FCC §25.209, ITU-R S.528.5 30° K at 30° Elevation Linear Orthogonal Standard, Optional Co-pol 40 Watts 35 dB 35 dB 26 dB 28 dB 22 dB 25 dB 75 dB FCC and PanAmSat Worldwide

Controllers

Optional Upgrades Auto-acquisition

Size

Input Power

Reflector Options

Reflector Back Cover

One-button acquisition of selected satellite including peaking and optimization of cross-pol (certified for autocommissioning on most satellite services) Power Supply & Handheld for Auto-acquisition Optional 1 RU Controller 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 Elevation Mechanical Electrical Polarization	400° True elevation readout from calibrated inclinometer 0° to 90° of reflector boresight Standard limits at 5° to 65° (CE Approval) or 5° to 90° ±95°
Speed	
Slewing/Deploying Peaking	2°/second 0.2°/second
Motors	24V DC Variable Speed, Constant Torque
RF Interface	
BUC Mounting Waveguide Coax	Feed Boom Grove Flexiable Waveguide From Feed 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 El 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)
<u>Environmental</u>	
Wind	
Survival Deployed Stowed Operational	65 mph (121 kmph) 80 mph (161 kmph) 45 mph (72 kmph)
Pointing Loss in Wind	
20 mph (32 kmph) 30 Gusting to 45 mph (48 to 72 km	0.5 dB Typical nph) 1.0 dB Typical
Temperature Operational	+5° to 125°F (-15° to 52°C)
Survival	-40° to 140°F (-40° to 60°C