AVL TECHNOLOGIES MODEL 1212KFD GLOBAL 1.2 METER MOTORIZED FLY & DRIVE ANTENNA

Reflector Feed Optics Drive System Shipping **Operating scenarios**

1.2 meter, AvL 4-piece Carbon-fiber Mode-matched with Rotary Joint Offset, Prime Focus, .8 f/d Patented Roto-Lok® Positioner Three overnight shippable cases Case-based Flyaway or Vehicle Mounted



Electrical RF

Buy Now! Frequency VISA 😂 🚟 PayPar 😋 Gain (Midband) R/T 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

Controllers

Standard Three-axis Jog Control & Display with Auto-stow **Optional Upgrades** Semi-automatic Operation Drive to calculated position based on operator entered Automatic Operation Gate Compass data and satellite peaking with LNB signal Auto-acquisition One-button acquisition of selected satellite including commissioning on select services) Two Rack Units for Semi-automatic & Automatic Controllers Size Single Rack Unit for Auto-acquisition Input Power 110/240 VAC, 1 ph, 50/60 Hz, 6/3A peak, 1A continuous

Transmit Receive 10.95-12.75 GHz 14.0-14.5 GHz 41.7 dBi 43.2 dBi 1.30:1 1.30:1 1.3 1.2 2.4 2.0 -22 dB -25 dB >3 dB better than FCC §25.209, ITU-R S.528.5 43° K at 30° Elevation Linear Orthogonal Standard, Optional Co-pol 0.5KW per port 35 dB 35 dB 30 dB 32 dB 25 dB 22 dB 75 dB

Eutelsat, Intelsat, PanAmSat, FCC, Loral Skynet

vehicle location, heading, plus satellite (longitude or listed) Drive to calculated position based on auto GPS and Flux-

peaking and optimization of cross-pol (certified for auto-

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Mechanical

| Az/EI Drive System | | Patented Roto-Lok® Cable Drive System |
|---------------------------|--|--|
| Polarization Drive System | | Feed rotated by Non back-driving Worm Gear |
| Travel | | |
| | Azimuth | 400° |
| | Elevation Mechanical Electrical | True elevation readout from calibrated inclinometer 0° to 90° of reflector boresight Standard limits at 5° to 65° (CE Approval) or 5° to 90° |
| | Polarization | ±95° for 2-port and 3-port Feeds ±50° for 2-port Wideband and 4-port feeds |
| Speed | | |
| | Slewing/Deploying | 2°/second |
| | Peaking | 0.2°/second |
| Motors | | 24V DC Variable Speed, Constant Torque |
| RF Interface | | |
| | HPA Mounting Axis Transition Waveguide Coax | Feed Boom, Inside Vehicle, or Separate Rotary Joint for Az, Flexible waveguide for El & Pol WR 75 Cover Flange at Pallet Interface Point RG59 with Type-N at Pallet Interface Point |
| Electrical Interface | | 10 ft. (3 m) Removable Cables for Controller |
| Manual Drive | | Handcrank on Az and El Axii, Leads from 12VDC Pol Motor |
| | | |

Shipping Configuration

| Main Pallet/Container with Positioner | 105 lbs. (48 kg.), 59 x 25 x 21 in (150 x 64 x 53 cm) |
|---------------------------------------|---|
| Reflector Panel Container | 55 lbs. (25 kg.), 29 x 29 x 27 in (74 x 74 x 69 cm) |
| Feed & Vehicle Attachment Components | 100 lbs. (45 kg.), 59 x 25 x 21 in (150 x 64 x 53 cm) |

Environmental

Wind

Survival Deployed Stowed Operational

Pointing Loss in Wind 20 mph (32 kmph) 30 Gusting to 45 mph (48 to 72 kmph)

Temperature

Operational Survival 75 mph (121 kmph) 100 mph (161 kmph) 45 mph (72 kmph), Gusts to 60 mph (97 kmph)

0.2 dB, 0.15 degrees Typical 0.8 dB, 0.30 degrees Typical

+5° to 125°F (-15° to 52°C) -40° to 140°F (-40° to 60°C)

