



## 1.0m Motorized Transportable Vehicle-Mount Antenna

### UNIQUE FEATURES

- 1.0m AvL Engineered Composite Reflector
- Zero Backlash AvL Cable Drive
- Compact/Rugged Pol Gear Drive
- Optional Rotary Joint on Pol Axis with Flex W/G to BUC
- "One-Button" Auto-Acquisition

### STANDARD Rx/Tx FEED

- 2-Port Ku-Band Precision (standard Cross-Pol comp.)

### POLARIZATION ADJUSTMENT

- Motorized Worm Gear Drive

### STANDARD COLORIZATION

- AvL Metallic Gray (optional colors available)

## MECHANICAL

**AZ/EL DRIVE** --- Motorized AvL Zero Backlash Cable Drive (Patent Pending)

**POLARIZATION DRIVE SYSTEM** --- Motorized Worm Gear Drive

**REFLECTOR CONSTRUCTION** --- 1.0m Single Piece AvL Engineered Composite

### AXIS TRAVEL:

Azimuth --- 400° ( $\pm 200^\circ$ )

Elevation --- 0-90° antenna bore sight (true elevation readout from calibrated inclinometer)

Polarization ---  $\pm 95^\circ$

### AZ/EL SPEED:

Slewing/Deploying (typical) --- 2°/second Az

Peaking (typical) --- 0.2°/second

**MOTORS** --- 28 VDC Variable Speed, Constant Torque

### RF INTERFACE:

BUC/HPA Mounting --- Feed Boom (maximum weight 15 lbs.(6.8 kg))

Max dimensions for BUC mounting on Feed Boom --- 15 L x 11.5 W x 6 H in. (38 L x 29 W x 15 H cm)

Feed Tx --- WR75 Flat Flange; Optional Polarization Rotary Joint w/flex waveguide from feed, WR75

**COAX** --- Two Type F connectors on panel at antenna base

**ELECTRICAL INTERFACE** --- One 25 ft. (8 m) cable with connector from base connector panel to controller

**MANUAL/EMERGENCY DRIVE** --- Hand crank input on Az, El and Pol axes

**WEIGHT (APPROX)** --- 110 lbs. as shown, varies depending on options selected

**STOWED DIMENSIONS** --- 61.5 L x 40 W x 13.5 H inches (156 L x 102 W x 34 H cm)

**TIME TO ACQUISITION** --- Less than 15 minutes, 8 minutes typical

**MOUNTING** --- Pallet for vehicle roof mounting

## ENVIRONMENTAL

**WIND - SURVIVAL** --- Deployed: 60 mph (97 kph); Stowed: 100 mph (161 kph)

**WIND- OPERATIONAL** --- 45 mph (72 kph)

**POINTING LOSS IN WIND (Ku RX):**

20 mph (32 kph) --- 0.3 dB typical

30 mph gusting to 45 mph (48 kph gusting to 56 kph) --- 0.8 dB typical

**TEMPERATURE:**

Operational --- -22° to 125° F (-30° to 52° C)

Survival --- -40° to 140° F (-40° to 60° C)