



1.2m Motorized Transportable Vehicle-Mount Antenna

UNIQUE FEATURES

1.2m 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

LOW STOW

Stows up to 15"H (38.1 cm H)

MECHANICAL

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

POLARIZATION DRIVE SYSTEM --- Motorized Worm Gear Drive

REFLECTOR CONSTRUCTION --- 1.2m Single Piece AvL Engineered Composite

AXIS TRAVEL:

Azimuth --- 400° ($\pm 200^\circ$)

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

Electrical --- Standard limits at 5° to 65° (CE Approval) or 0° to 90°

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

AZ/EL SPEED:

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

Peaking (typical) --- 0.2°/second

MOTORS --- 24 VDC Variable Speed, Constant Torque

RF INTERFACE:

BUC/HPA Mounting --- Feed Boom (maximum weight 25 lbs.(11.3 kg))

Max dimensions for BUC mounting on Feed Boom --- 22 L x 13.8 W x 8.5 H in. (56 L x 35 W x 22 H cm)

Feed Tx --- Polarization RJ w/flex waveguide from feed, WR75

COAX --- Two Type F connectors at antenna base

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

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

WEIGHT (APPROX) --- 100 to 120 lbs. (46 to 55 kg) depending on options

STOWED DIMENSIONS --- 70 L x 48 W x 15 H inches (178 L x 122 W x 38 H cm) including pallet

TIME TO ACQUISITION --- Less than 10 minutes, 8 minutes typical

MOUNTING --- Pallet for vehicle roof mounting

ENVIRONMENTAL

WIND - SURVIVAL --- Deployed: 65 mph (105 kph); Stowed: 80 mph (129 kph)

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

POINTING LOSS IN WIND (Ku RX):

20 mph (32 kph) --- 0.5 dB typical

30 mph gusting to 45 mph (48 kph gusting to 56 kph) --- 1.2 dB typical

TEMPERATURE:

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

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