

## 1.8m Fly Away Antenna System Ku-Band

### ADVANTAGES

- Airline approved packaging
- Low Maintenance
- Easy Operation & Deployment
- Very Cost Effective

### APPLICATIONS

- Broadcast
- News Contribution
- DSNG
- Production Testing



The UC-180-FWA flyaway antenna is designed to meet international performance requirements for DSNG applications and is available in C and Ku band.

This portable antenna consists of a four piece, segmented, Fiber Glass reinforced molded reflector and all an aluminium tripod base mount. The UC-180-FWA is a durable, corrosion resistant antenna with superior stability and high performance under wind loading conditions.

The SMC compression molded reflector surface provides good side lobes and cross-polarization performance as well as excellent repeatability. The reflector is reinforced with aluminium and composite ribs to maintain a precise shape and guaranteed performance.

### KEY FEATURES

- 4 pieces segmented Precision compression molded offset reflector
- Compact Full Aluminium pedestal Tripod
- Airline Compatible Compact Packaging
- C and Ku band Frequencies Options
- Transport cases included
- Two-person assembly in less than 15 minutes
- Quick adjust AZ and EL positioners
- Reflector and Feeds Compliant to Satellite Operators Standards
- Two Year Factory Warranty



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### SPECIFICATIONS

#### Electrical Specifications

Frequency (GHz)	Receive = 10.7 - 12.75 Transmit = 13.75 - 14.50
Antenna Gain at midland, dBi ( +/- 0.2 dB )	Receive = 45.0 Transmit = 46.5 IESS 601STDG
Sidelobe compliant with Noise Temperature at	
20° elevation	38°K
30° elevation	35°K
30° elevation	35°K
KU Band Feed	2 Port Tx/Rx Ku Band Linear Pol.
VSAT Feed 0.6 F/D with TRF Filter	
30 dB on-axis Cross Pol (Tx)	
23 dB off-axis Cross Pol in 1 dB contour	

#### Mechanical Specifications

Reflector Material	Glass Fiber Composite Reinforced Materials (SMC)
Antenna Optics	Single Optics, Prime Focus, Offset Feed
Mount Type	Tripod with Elevation over Azimuth Positioner
Elevation Adjustment Range	5° to 90° Continuous, Fine Adjustment
Azimuth Adjustment Range	360° Gross, ±35 Fine
Polarization Adjustment Range	+/- 90°V
Antenna Packaging	
Travel Case 1	
Tripod Mount AZ/EL Canister, Feed	18 1/2" x 16 1/2" x 55 1/2" / 85 lbs 39 kg
Travel Case 2 - 3 piece reflector	52 1/2" x 22 1/2" x 15 1/2" / 94 lbs 42 kg
Total Weight	179 lbs (81 kg)

#### Environmental Specifications

Wind Loading	25 mph(40km/h) Operational(No Ballast) 30 to 45 mph(72km/h) Operational(With Ballast) 60 mph(145km/h) Survival(With Ballast)
Temperature	Operational = -40° to 140°F(-40° to 60°C) Survival = -50° to 160°F(-45° to 70°C)
Rain(Operational)	1/2"/hr (12mm/h)
Radial Ice(Survival)	1/2"/hr (12mm/h)
Atmospheric Conditions	Salt, Pollutants, and Contaminants as Encountered in Coastal and Industrial Areas
Solar Radiation	360 BTU/h/ft2 (1000 Kcal/h/m2)

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