

# UC-180-FWA-KU

## 1.8m Fly Away Antenna System-Ku Band



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

The portable antenna consists of a four pieces segmented Glass Fiber Reinforced Molded reflector and all aluminium tripod base mounts. 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, with excellent repeatability. Reflector is reinforced with aluminium and composite ribs to maintain a precise shape and guaranteed performance.

### 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



### Electrical Specifications

**Frequency (GHz) KU Option**

**Antenna Gain at midland, dBi ( +/- 0.2 dB )**

**Sidelobe compliant with**

**Noise Temperature at**

**20° elevation**

**30° elevation**

**40° elevation**

**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**

Receive = 10.7 - 12.75 / Transmit = 13.75 - 14.50

Receive = 45.0 / Transmit = 46.5

IESS 601STDG

38 °K

35°K

33°K

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### Mechanical Specifications

<b>Reflector Material</b>	Glass Fiber Composite Reinforced Materials (SMC)
<b>Antenna Optics</b>	Single Optics, Prime Focus, Offset Feed
<b>Mount Type</b>	Tripod with Elevation over Azimuth Positioner
<b>Elevation Adjustment Range</b>	5° to 90° Continuous, Fine Adjustment
<b>Azimuth Adjustment Range</b>	360° Gross, ±35 Fine
<b>Polarization Adjustment Range</b>	+/- 90°V
<b>Antenna Packaging</b>	
<b>Travel Case 1 – Tripod Mount AZ/EL Canister, Feed</b>	18 1/2" x 16 1/2" x 55 1/2" / 85 lbs 39 kg
<b>Travel Case 2 &amp; 3 - 4 piece reflector</b>	40 1/2" x 42 1/2" x 15 1/2" / 94 lbs 42 kg
<b>Total Weight</b>	179 lbs (81 kg)

### Environmental Specifications

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

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