

UC-120-FWA-KU

1.2m Fly Away Antenna System-Ku Band



The UC-120-FWA flyaway antenna is designed to meet international performance requirements for DSNG applications and is available in Ku band frequencies.

The portable antenna consists of a two piece segmented Glass Fiber Reinforced Molded reflector and all aluminium tripod base mounts. UC-120-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

- 2 piece segmented Precision compression molded offset reflector
- Compact Full Aluminium pedestal Tripod
- Airline Compatible Compact Packaging
- 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)

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

Sidelobe compliant with

Noise Temperature at

20° elevation

30° elevation

Offset Angle

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 = 41.7 / Transmit = 43.2

IESS 601STDG

46°K

43°K

22.6°K

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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" / 55 lbs 25 kg
Travel Case 2 - 3 piece reflector	52 1/2" x 22 1/2" x 15 1/2" / 35 lbs 16 kg
Total Weight	90 lbs (41 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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