



1.0m KU Band Flyaway Antenna

Feature

AST 1.0m Ku band flyaway antenna system are designed to provide high speed stow and deploy through its simple and robust structure and light weight material.

The reflector is composed of four panels, use fast-lock speed connection thus avoiding the need of installation tools. Az/EI adjustment can be locked, EI adjustment is by fast-tune and fine-tuning combined in one device to facilitate the operation.

The support can be deployed flexibly, the whole structure of the antenna is designed to be easy to disassemble and assemble with features including all antenna reflector panels packed in 1 cloth bag, all of parts packed into an aluminum alloy case with light weight and high stability.

The antenna has been designed to be airline checkable and can be field assembled and operational in less than 5 minutes by one person. No tools are required to setup or disassemble the antenna.

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RF PERFORMANCE SPECIFICATION

Model		FA100-KU
Antenna Aperture		1.0m
Operation frequency	Tx	13.75-14.5GHz
	Rx	10.95-12.75GHz
Gain	Tx	43.5 dB
	Rx	42.5 dB
Polarization		Linear
VSWR		1.25:1
-3dB Beamwidth	Tx	1.2°
	Rx	1.5°
Feed Interface		WR75
Feed Insertion loss		0.2 dB
Cross polarization isolation		
On Axis		35
Within 1 dB Beamwidth		30
Port to port isolation		
Tx to Rx dB		≥85
Sidelobes		IESS 601 STD G

MECHANICAL SPECIFICATION

Antenna Type	Offset antenna
Materials of Reflector	Carbon Fiber
Weight (include knapsack)	18 Kg
Packing size	One package, 70x50x25cm
Antenna Pointing Range	
Elevation	10°--90°(Continuous)
Azimuth	360°(Continuous)
Surface Accuracy (RMS)	≤0.5mm

ENVIRONMENTAL SPECIFICATION

Temperature	- 15°C--+60°C
Solar Radiation	1000kcal/hm
Operational Wind Speed	40km/h no ballasts/anchors, 72km/h with ballasts
Survival Wind Speed	145km/h with ballast/ anchors