



0.75m KU Band Flyaway Antenna

Feature

AST 0.75m 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

Model		FA75-KU
Antenna Aperture		0.75m (30in.)
Operation frequency	Tx	14.00-14.50 GHz
	Rx	12.25-12.75 GHz
Gain	Tx	38.8 dBi
	Rx	37.5 dBi
Polarization		Linear
VSWR		1.25:1
-3dB Beamwidth	Tx	1.9°
	Rx	2.1°
Feed Interface		WR75
Feed Insertion loss		0.2 dB
On Axis		≥35
Within 1 dB Beamwidth		≥30
Tx to Rx dB		≥85 dB
First sidelobe ($1^{\circ} \leq \theta < 20^{\circ}$)		< -20 dB

MECHANICAL SPECIFICATION

Antenna Type	Offset antenna
Materials of Reflector	Carbon Fiber
Weight (include knapsack)	8.8 Kg (Without BUC and LNB)
Packing size	One package, 67x47x25cm
Antenna Pointing Range	0°--90°(Continuous) ±60° (Fine adjustment) ±90°
Elevation	
Azimuth	
Polarization	
Power Capacity	100W

ENVIRONMENTAL SPECIFICATION

Temperature Operational		- 40°C--+70°C
Operational Wind Speed		40km/h with ballasts
Survival Wind Speed		66km/h with ballast/anchors
Humidity		≤95% (20°C)