

**1.2m KU/KA/X Band Flyaway Antenna**

Feature

AST 1.2m Ku/Ka/X 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 bay, 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						
Antenna Aperture	1.2m					
Model	FA120-KU		FA120-KA		FA120-X	
Operating Frequency (GHz)	Ku		Ka		X	
	Rx	Tx	Rx	Tx	Rx	Tx
	10.95-12.75	13.75-14.5	17.7-21.2	27.5-31	7.25-7.75	7.9-8.4
Gain(dB)	41	42.1	45.9	49.1	37.5	38.2
Beamwidth(-3dB)	1.5°	1.2°	0.84°	0.55°	2.20°	2.03°
Feed interface	WR-75		WR-42	WR-28	WR-112	
VSWR	1.25:1		1.3:1		1.25:1	
Polarization	Linear		Circular		Circular	
Feed insertion loss	0.2dB		0.2dB		0.2dB	
Cross-polarization on axis	35dB		35dB		21.3dB	
	30dB		26B		21.3dB	
Port to port isolation Tx to Rx dB	≥85		≥85		≥85	
Sidelobes	IESS 601 STD G					
Materials of reflector	Carbon fiber					

MECHANICAL	
Antenna Type	Offset antenna
Main reflector material	Carbon Fiber
Antenna Weight (Not include BUC)	24 Kgs
Packing size	The antenna can be packed in one case or multi-cases in according to request of user.
Antenna pointing range	
Elevation	0°--90° (Continuous)
Azimuth	360° (Continuous)

ENVIRONMENTAL	
Surface accuracy (RMS)	≤ 0.5mm
Solar radiation	1000kcal/hm ²
Temperature operational	- 15°C-+60°C
Operation wind Speed	40km/h no ballasts/anchors, 72km/h with ballasts
Survival wind speed	145km/h with ballast /anchors

Packaging:

Designation	Number of Cases	Net Weight	Rough Weight	Packing measurements
1.2m Ku band flyaway Antenna	1 piece Aluminum Alloy Box	24kg	50kg	82×51×51cm
	Wooden box + Aluminum Alloy Box		70kg	89×59×60cm