



1.2M PRIME FOCUS AUTO-FLYAWAY ANTENNA

Feature

- * Carbon fiber reflector with light weight, high strength and accuracy and R.M.S<0.3mm;
- * Support manual, manual and one button auto deploy acquisition satellite;
- * Easy acquisition without training and tools, satellite lock in 3 minutes;
- * Support C, X, Ku and Ka band;
- * Support DVB-S1, DVB-S2, beacon and modem in satellite locking;
- * GPS, position detecting system, polarization adjustment;
- * Servo drive system, beacon receiving system, Wi-Fi wireless control;
- * The products can be used at such industries as Broadcast & media, emergency & public safety, oil and gas etc



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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	45.8	49	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		Linear/ Circular		Circular	
Feed insertion loss	0.2dB		0.2dB		0.2dB	
Cross-polarization on axis	35dB		35dB		21.3dB	
Within 1dB Beamwidth	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 Azimuth	0°--90° (Continuous) 360° (Continuous)

ENVIRONMENTAL

Surface accuracy (RMS)	≤ 0.5mm
Solar radiation	1000kcal/hm2
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