



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

1.2m								
Antenna Aperture	FA120-KU			FA120-KA		FA120-X		
Model	Ku			Ka		X		
Operating Frequency (GHz)	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			26dB	21.3dB			
Port to port isolation				≥85	≥85			
Tx to Rx dB								
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/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