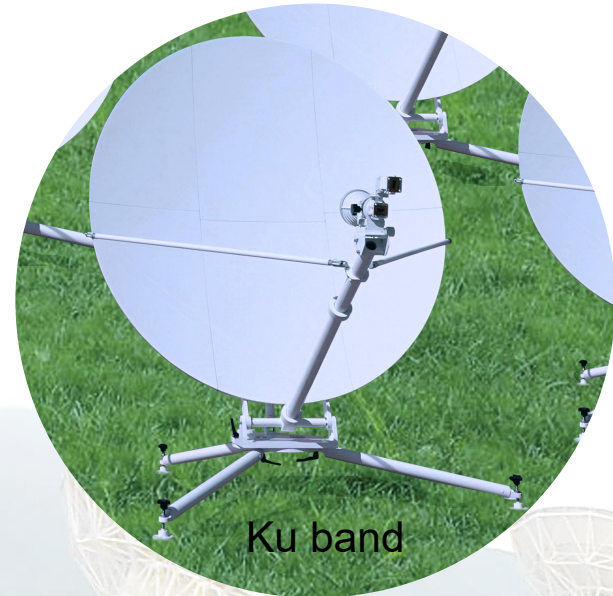


## Flyaway VSAT antenna Model NS-FM-120 1.2m Antenna

### Characteristics:

- Meets or exceeds CCIR 580 and Intelsat requirements;
- Meets Intelsat, Asiasat, Chinasat network access requirement;
- Offset designed;
- Carbon fiber material, high strength, light weight;
- High gain, Low sidelobe, High G/T rate;
- Convenient and quick assembly&adjustment;
- Ku band, Ka band, DBS band available;



### Application field:

- Defense security;
- Government emergency communications departments;
- Telecommunications operators;
- News media, public security;
- Border defense, armed police, military, scientific expeditions.

**RF SPECIFICATIONS****NS-FM-120****NS-FMK-120**

Frequency,	10.95~12.75GHz	13.75~14.5GHz	19.6~21.2GHz	29.4~31GHz
Gain,dBi	$\geq 42.05 + 20\lg(f/12.50)$	$\geq 43.19 + 20\lg(f/14.25)$	$\geq 45.5 + 20\lg(f/20)$	$\geq 49.3 + 20\lg(f/30)$
Polarization	Linear		Circular	
Cross polarization isolation(on axis)(linear)	$\geq 35$	$\geq 35$	/	/
Axial ratio, dB, circular	/	/	$\leq 1.2$ dB	$\leq 1.2$ dB
Feed insertion loss, dB	0.2	0.25	$\leq 0.2$	$\leq 0.2$
-3dB Beam width, mid-band	1.3°	1.15°	1.8°	1.6°
Power capacity, KW	/	1	/	1
Feed interface	WR-75	WR-75	WR-42	WR-28
Isolation, Rx to Tx, dB	85		85	
First Sidelobe 90% Peaks under Following envelop	$29 - 25 \log\theta (1^\circ \leq \theta < 20^\circ)$ <sup>-14</sup>		$29 - 25 \log\theta (1^\circ \leq \theta < 20^\circ)$ <sup>-14</sup>	

**MECHANICAL SPECIFICATIONS****ENVIRONMENT SPECIFICATIONS**

Antenna Diameter	1.2m	Working wind speed	$\leq 11$ m/s
Antenna Type	Offset	Survival wind speed	$\leq 18$ m/s
Mount Type	El. Over Az.	Temperature	-40°C~60°C
Surface accuracy(RMS)	$\leq 0.5$ mm(Ku); $\leq 0.3$ mm(Ka)	Humidity	100%(20 ° C)
Weight(Net)	$\leq 17$ kg(Ku); $\leq 25$ kg(Ka)	Protection level	IP65
Antenna travel Range Azimuth Elevation Polarization	0°~360° 5°~90° ±90°		
Drive Mode	Manual		
Antenna package	Ku: aviation case:840×530×480mm Ka band: Aviation case 1: 850×540×290mm Aviation case 2: 950×580×345mm		

Website: [www.vastantenna.com](http://www.vastantenna.com)

### 1.2m Ku band manual flyaway antenna

Unit Set Item	Net Weight	Gross Weight	Package Dim(L*W*H,cm)	Package Quantity
Antenna panel	5pcs	40kg	840×530×480mm	1 package
Rotary platform	1pc			
Feed support rod	1pc			
Antenna feed	1pc			
Support leg	3pcs			
Feed pull rod	2pcs			

### 1.2m Ka band manual flyaway antenna

Unit Set Item	Net Weight	Gross Weight	Package Dim(L*W*H,cm)	Quantity
Rotary platform support arm Feed assembly	14.5kg	21.35kg	850×540×290	1 package
Antenna panel Support leg	10.5kg	20.75kg	950×580×345	1 package

**Antenna package**

