

Flyaway VSAT antenna Model NS-FM-180 1.8m Antenna

Characteristics:

- Meets or exceeds CCIR 580 and Intelsat requirements;
- Meets Intelsat, Asiasat, Chinasat network access requirement;
- Offset designed;
- Carbon fiber / aluminum optional;
- High gain, Low sidelobe, High G/T rate;
- Convenient and quick assembly&adjustment;
- C band, Ku band, X band available;



Application field:

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

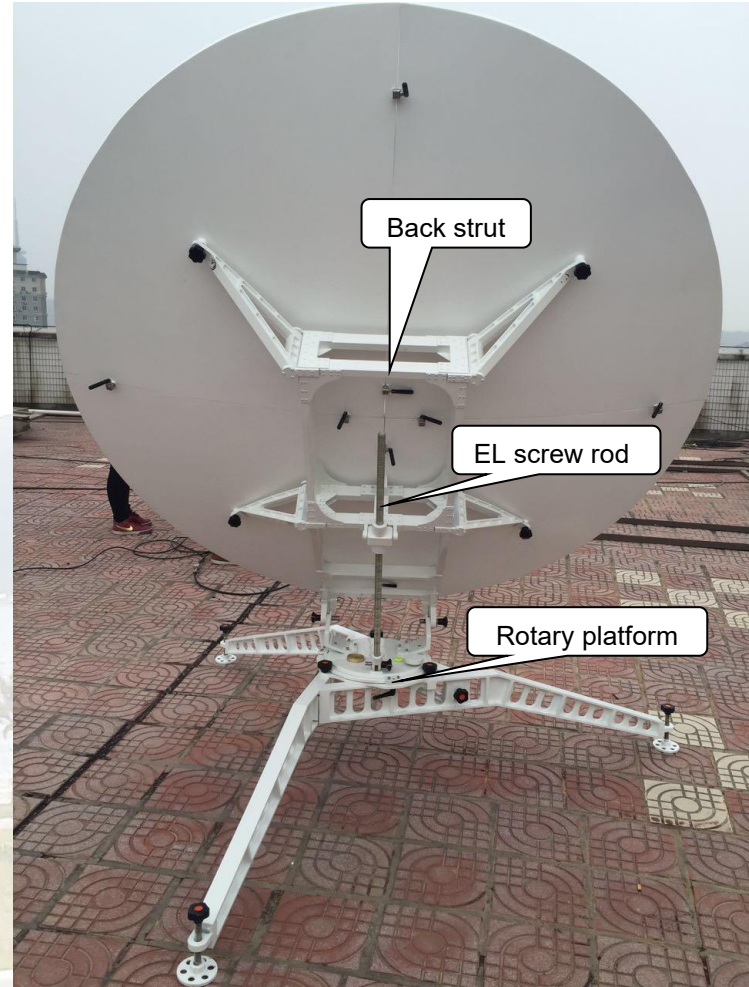
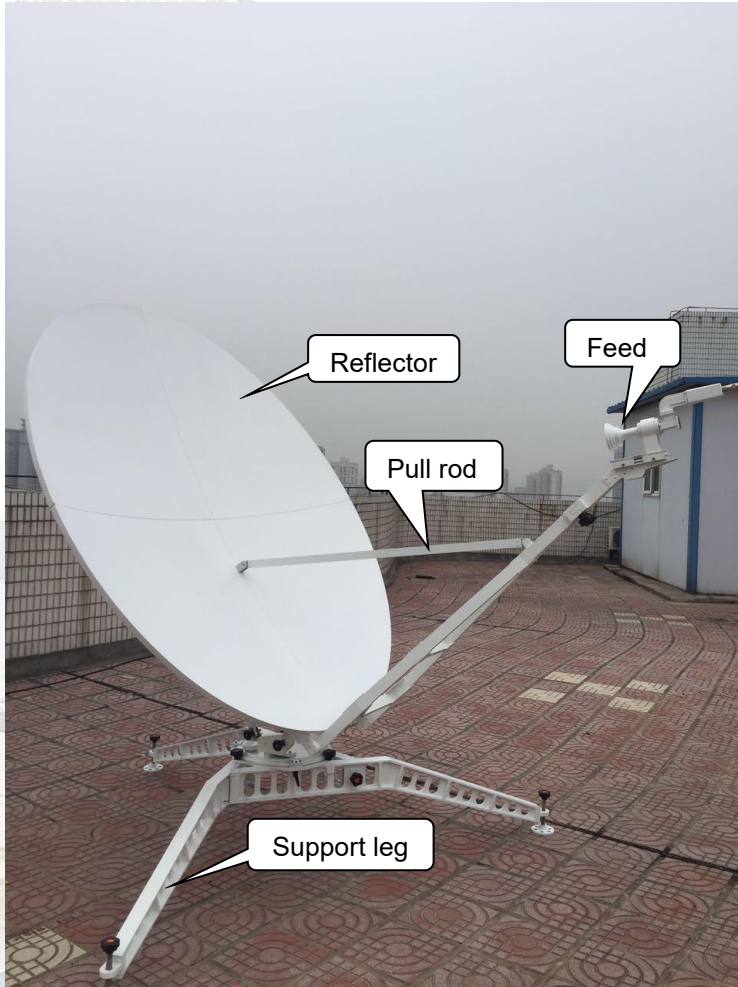
RF SPECIFICATIONS**NS-FM-180**

| | | | | |
|---|-------------------------------|---------------|-------------------------------|------------|
| Frequency, | 3.625~4.2GHz | 5.85~6.425GHz | 10.95~12.75GHz | 29.4~31GHz |
| Gain,dBi | 35.8dBi | 39.5dBi | ≥45.6dBi | ≥46.7dBi |
| Polarization | Circular / Linear | | Linear | |
| Cross polarization isolation (linear) | ≥35 | ≥35 | ≥35 | ≥35 |
| Cross polarization isolation, -1dB | ≥30 | ≥30 | ≥30 | ≥30 |
| VSWR | 1.25:1 | 1.25:1 | 1.25:1 | 1.25:1 |
| Feed insertion loss, dB | 0.35 | 0.35 | 0.15 | 0.17 |
| -3dB Beam width, mid-band | 2.87° | 1.93° | 0.92° | 0.78° |
| Power capacity, KW | / | 5 | / | 1 |
| Feed interface | CPR-229G | CPR-137G | WR-75 | WR-75 |
| Isolation, Rx to Tx, dB | 85 | | 85 | |
| First Sidelobe90% Peaks under Following envelop | -14 29 - 25 logθ(1°≤θ<20°) | | -14 29 - 25 logθ(1°≤θ<20°) | |

MECHANICAL SPECIFICATIONS**ENVIRONMENT SPECIFICATIONS**

| | | | |
|-----------------------|--|---------------------|---------------------------|
| Antenna Diameter | 1.8m | Working temperature | -40°C~60°C |
| Antenna Type | Offset | Relative Humidity | 100%(20 ° C) |
| Panel material | Carbon fiber/ aluminum(4 segmented petal) | Solar radiation | 1135Kcal/h/m ² |
| Surface accuracy(RMS) | ≤0.5mm | | |
| Weight(Net) | N.W≤70kg(; G.W≤140kg | | |
| Antenna travel Range | | | |
| Azimuth | 0°~360° | | |
| Elevation | 5°~90° | | |
| Polarization | ±90° | | |
| Drive Mode | Manual | | |
| Antenna package | Reflector: 1000×530×1050 Back strut: 1500×660×600 | | |

Antenna structure



Packing list

| Item | Item details | Net Weight | Gross Weight | Package Dim(L*W*H,cm) | Package Quantity |
|------------|------------------|------------|--------------|-----------------------|------------------|
| Back strut | Back strut | 1 pc | 60kg | 1500*670*680mm | 1 package |
| | Rotary platform | 1 pc | | | |
| | Feed support rod | 1 pc | | | |
| | Antenna feed | 1 pc | | | |
| | Feed pull rod | 1 pc | | | |
| Reflector | EL screw rod | 1 pc | 70.5kg | 1000*570*1130mm | 1 package |
| | Reflector panel | 4 pcs | | | |
| | | | | | |

