



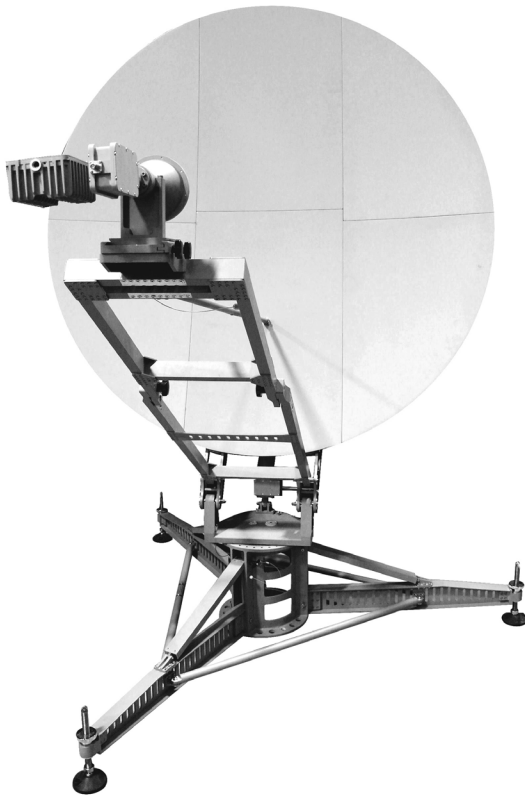
**Norsat**  
International Inc.

**Innovative Communication Solutions**

## **WAYFARER™ 1.8m Fly-Away Antenna**

The Norsat WAYFARER™ commercial 1.8m fly-away antenna was designed from the ground up to deliver broadband data connectivity in a rugged, easy-to-use, and transportable package.

This 1.8m terminal is ideally suited for base camps or other prolonged missions where assignments are temporary, but deployment is protracted. With simple setup and alignment procedures, personnel with minimal training can have the WAYFARER 1.8m antenna up and transmitting in a matter of minutes.



## **Key Features**

Key features include:

- 1.8m carbon fiber reflector
- Ku-band standard, C-band optional
- Quick and tool-free assembly
- 6 lightweight cases for easy transportability
- Available in auto-acquire or manual-acquire

## **Typical Applications**

- Ideal for emergency communications, live broadcasting, defense, and enterprise operations.

## **RF Options & Accessories**

- Ku-band BUC options = 4W, 8W, 16W
- C-band BUC options - contact Norsat Sales for more information

## **The Norsat Advantage**

All commercial fly-away antenna systems are supported by Norsat's global customer support team which provides assistance for a wide range of technical issues. Customer support may include installation, training, trouble-shooting, and application support. 24/7/365 support is available to support mission critical applications.

# WAYFARER 1.8M FLY-AWAY ANTENNA

Antenna Performance	Ku-Band	C-Band (Linear)	C-Band (Circular)
Reflector Aperture	1.8m	1.8m	1.8m
Reflector Material	Carbon Fiber	Carbon Fiber	Carbon Fiber
Reflector Type	Offset	Offset	Offset
Rx Frequency	10.95 ~ 12.75 GHz	3.40 - 4.20 GHz	3.625 - 4.20 GHz
Tx Frequency	13.75 ~ 14.5 GHz	5.85 - 6.725 GHz	5.85 - 6.425 GHz
Rx Gain	45.3 + 20lg(f/12.5) dBi	35.4 + 20lg(f/3.8) dBi	35.4 dBi
Tx Gain	46.3 + 20lg(f/14.25) dBi	39.3 + 20lg(f/6.25) dBi	38.7 dBi
Rx Isolation	>35 dB	>35 dB	>35 dB
Tx Isolation	>85 dB	>85 dB	>85 dB
Side Lobe	First side lobe <-14 dBi	First side lobe <-14 dBi	First side lobe <-14 dBi
G/T(dB/K)	24.4 (20° EL)		
Cross Polarization (Axis)	≥35 dB	≥35 dB	≥35 dB
Feed Interface	WR75	TX: WR137 RX: WR229	TX: WR137 RX: WR229

## Mechanical

Azimuth	± 180°	± 180°	± 180°
Elevation	0° ~ 90°	0° ~ 90°	0° ~ 90°
Polarization	± 95°		± 95°
Case 1: Reflector / Feed	135 x 70 x 65 cm; 60kg	135 x 70 x 65 cm; 60kg	135 x 70 x 65 cm; 60kg
Case 2: Legs / Base / Boom arm	160 x 60 x 45 cm; 60 kg	160 x 60 x 45 cm; 60 kg	160 x 60 x 45 cm; 60 kg

## Environmental

Operational Work Wind Load	70 Km/h	70 Km/h	70 Km/h
Survival Work Wind Load	100 Km/h	100 Km/h	100 Km/h
Pointing Loss (Operational Winds)	Maximum 2.0 dB peak Rx loss	Maximum 2.0 dB peak Rx loss	Maximum 2.0 dB peak Rx loss
Temperature	-40° C ~ +60° C	-40° C ~ +60° C	-40° C ~ +60° C
Humidity	0 - 100%	0 - 100%	0 - 100%