

1.0M KA-Band Manual Flyaway Antenna



General Specification:

The Probecom 1.0m manual flyaway antenna is specially designed for highly portable antenna by adopting carbon fiber material with light weight and can be assembled in less than 5 minutes by one person .It can provide users exceptional performance in high gain and low side lobe

Highlight Features:

- Carbon fiber antenna reflector with light weight, high precision and high efficiency, corrosion resistance and other characteristics, it ensured the antenna in the normal operation under harsh environment in greatest degree.
- Compact structure, Lightweight, portable, rapid deployment, high performance, a person can install and point to satellite within 5 minutes, available in airline baggage.
- The latest design of the EHF-band satellite antenna, being compact and robust, cost-effective can be used in the fast and reliable satellite communications.
- Designed specifically for field use, regardless of when and where, it can quickly transfer high-quality broadband content.
- IP specification: IP65

Applications:

- Sudden public events and all kinds of disasters on-site information gathering Disaster relief.
- Public security, military, government, oil, water conservancy, electricity, finance and other important sectors of the country
- The remote areas and the vast rural areas out of coverage. Field operations, exploration, military police and news media.

Components:

- Ring-Focus Sputtering Plate Antenna
- Azimuth & elevation turntable
- Portable case
- Compass & leveling

Technical Specification

Electrical Specification		
Type	Ka-Band	
Operating Frequency (GHz) ①	Receive	Transmit
	Band1 17.7-19.2	Band1 27.5-29.0
	Band2 19.2-21.2	Band2 29.0-31.0
Gain, mid-band (dBi)	45.02@19.2GHz	48.63@29.0GHz
Polarization	Circular	
Axis Ratio, dB	2-Port Feed	2
VSWR	1.5:1	1.5:1
-3 dB Beam Width, Mid-band	0.92°	0.60°
Tx. Power Capability, W	50	
Feed Interface	WR42	WR28
Feed Insertion Loss(dB)	0.5dB	0.7B
Isolation	Tx to Rx, dB	80
	Rx to Tx, dB	40
Antenna Type	Ring-Focus Sputtering Plate	
Reflector Material	Carbon Fiber	
Mechanical Specifications		
Operating Wind	Stable wind≤50km/h; gusting≤65km/h (need increase weight)	
Operating Temperature	-40°C~+55°C	
Storage Temperature	-55°C~+80°C	
Weight	23kg	
Drive Mode	Manual	
Azimuth Travel	360°	
Elevation Travel	0°~90°	
Surface Accuracy (R.M.S)	0.2mm	
Relative Humidity	0%~100%	

① :Band 1 and Band 2 optional