

1.0M KA-Band Auto Tracking Flyaway Antenna



General specification:

Probecom auto-tracking flyaway antenna with a select range of **0.75m, 1.0m, and 1.2m** series. Antenna adopts with splash plate form, which improves antenna reflection efficiency and achieve antenna better sidelobe in EHF band. Antenna reflector material use carbon fiber material with specially designed processing and surface treatment technology, which improve reflector surface accuracy (RMS with 0.2mm) and compressive strength, meet with Ka band conductivity. Compact design make antenna with light weight, easy portable and ease operate.

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:

- Sputtering Plate Antenna
- Azimuth & elevation turntable
- Beacon receiver
- Wireless handset
- Portable case
- Compass & leveling

Technical Specification

Electrical Specification		
Type		Ka-Band
		Receive
		Transmit
Operating Frequency (GHz) ①		Band1 17.7-19.2
		Band2 19.2-21.2
Gain, mid-band (dBi)		43.47@19.2GHz
Polarization		Circular
Axis Ratio, dB	2-Port Feed	1.2
VSWR		1.5:1
-3 dB Beam Width, Mid-band		1.1°
Tx. Power Capability, W		/
Feed Interface		WR42
Feed Insertion Loss(dB)		0.9dB
Isolation	Tx to Rx, dB	80
	Rx to Tx, dB	40
Antenna Type		Ring-Focus Sputtering Plate
Reflector Material		Carbon Fiber
Mechanical Specifications		
Antenna Type		Splashing Plate
Main Reflector		Carbon Fiber
Feed		Quick Disassemble
Weight		≤32Kg
Antenna Direction		Electronic orientation through GPSs, electronic compasses and inclinometer
Storage Time		≤3min
Satellite Acquiring		Auto tracking
Satellite Acquiring Time		≤3min
Tracking Accuracy		≤0.05°RMS
Azimuth Travel		±95°
Elevation Travel		0°~88°
Surface Accuracy (R.M.S)		0.2mm
Operating Wind Speed		43.2km/h~60km/h
Survival Wind Speed		72km/h-100km/h
Operating Temperature		-55°~+60°
Power Supply		220V 50Hz or Customization
System power consumption		200W

① :Band 1/Band 2 as option

Pictures:

