1.2M CARBON FIBER PORTABLE OFFSET-FEED ANTENNA（Tripod-type）

General Description

The probecom 1.2m flyaway manual antenna is specially designed for highly portable antenna by adopting carbon fiber material with light weight and can be assembled in less than 3 minutes by two person .

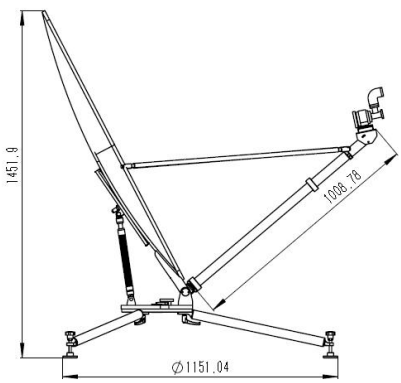
It can provide users exceptional performance in high gain and low side lobe

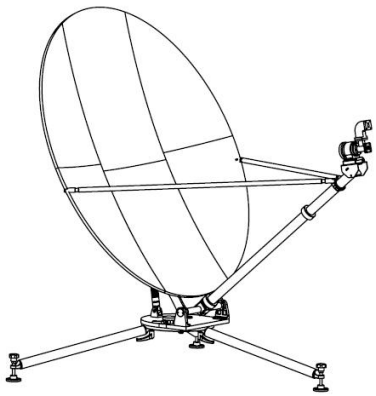
Applications：

- 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.

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 within 3 minutes, available in airline baggage.
- The latest design of the Ku-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.





Components

- Single Offset Antenna
- Azimuth & elevation turntable
- Portable case
- Compass& leveling

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Technical Specification

Electrical Specification				
Type	CFM120EC		CFM120EK	
Frequency(GHz)	EC C band		Extended ku band	
	Receive	Transmit	Receive	Transmit
	3.4-4.2	5.85-6.725	10.7~12.75	13.75~14.5
Typical Gain(dBi)	31.8@4GHz	35.3@6GHz	41.6@12GHz	43@14GHz
Polarization	Linear		Linear	
VSWR	1.30:1	1.30:1	1.30:1	1.30:1
Beam width: -3dB	4.22°	2.81°	1.36°	1.15°
Power Handing Capability		1KW		200W
Feed Interface	CPR-229F	CPR-137F	WR75	WR75
Feed Insertion Loss(dB)	0.3dB	0.2dB	0.4dB	0.2dB
Tx/Rx Isolation	80dB		80dB	
Cross Polarization Isolation	≥30dB		≥30dB	
Side lobe	At least 90% of the side-lobe peaks does not exceed： 32-25logθ(100λ/D<θ≤20°)			
MECHANICAL SPECIFICATIONS				
Weight	18kg		17kg	
material	Carbon Fiber			
Mounting time	3 minutes （Two Persons）			
Drive mode	Manual Drive			
Azimuth Travel	-15°～15° Fine adjust			
Elevation travel	10°～85°			
Polarization Travel Rate	±90°			
Surface Accuracy (R.M.S)	0.3mm			
Ambient Temperature	-30°～+60°			
Relative Humidity	0%～100%			

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