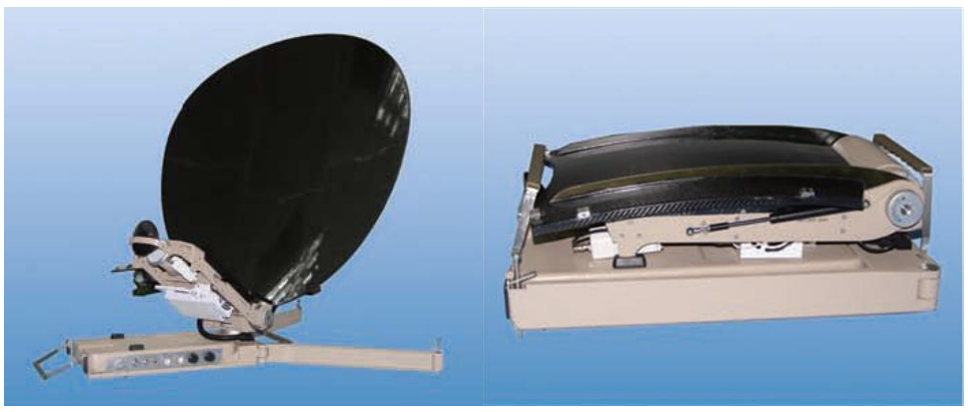
1.2m Auto Tracking Flyaway Antenna



This Satellite antenna system is specially designed for high data transmission rate. A state-of-art carbon fiber antenna dish, compacted chassis allows the quality of being light enough to be carried. The three axis (AZ, EL, and POL) servo system promises full auto field deployment. One-button control design to easy one-man operation and precludes the requirement for professional personnel or ancillary equipment. A PC-based GUI can be used for more in-depth configuration over wire or wireless means. A critical Gregorian dual offset elliptical antenna and feed system innovative technology achieves high gain, low side lobes, excellent cross-pol discrimination and high Tx/Rx isolation. The product complies with military standards and rigorously tested under the toughest environmental conditions.

Applications:

- Sudden public events and all kinds of disasters on-site information gathering
- Disaster rescue
- 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

- Dual Offset Antenna
- Azimuth & elevation turntable

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 5 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.

Specifications:

RF PERFORMANCE		
Antenna Aperture		1.2m×1.1m Gregorian offset antenna
Operation Frequency	Tx	13.75-14.5GHz
	Rx	10.95-12.75GHz
Gain（dBi）	Tx	≥42.0
	Rx	≥41.0
Polarization		Linear
Satellite positioning	Motorized positioning through GPS and inclinometer; Beacon receiver assures positioning accuracy;	
VSWR	≤1.25:1	
Cross-pol	>35 dB(On-Axis) >30dB (Off-Axis within 1dB contour)	
Interface	WR75	
Pointing Accuracy	≤ 1/10 beam-width	
Tx/Rx Isolation	≥85 dB (including rejection filter)	
First sidelobe	≤-14 dB	
Sidelobe（1°≤θ＜20°）	29-25lg θ dBi	
Power supply	85～265VAC (350 W)@ 50～60 Hz	
Power capacity	1000W	

MECHANICAL SPECIFICATION

Antenna Type	Dual Offset antenna
Main reflector material	Carbon Fiber
Reflector	6 pcs
Net Weight	Antenna: 25Kg
Package	Case (ABS travel case) 1: 802×520×316mm (37kg) Case 2(backpack): 732×510×185mm(10kg)
Elevation	15~90°
Azimuth	±90°
Polarization	±90°

ENVIONMENTAL SPECIFICATION

Wind load operational	12m/s，survival 18m/s
Operational Temperature	-30 ~ + 55°C
Storage temperature	-55 ~ +80°C
Operational humidity	100%

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