

[Grusat] 1200S

Carbon Fiber Fly Away Antenna System

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OVERVIEW

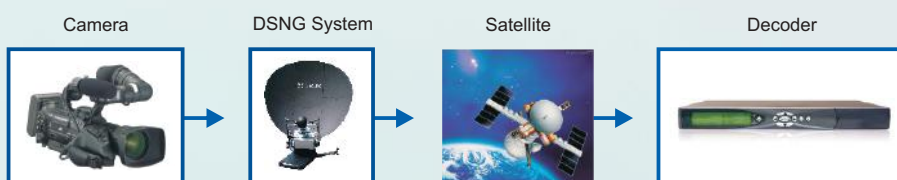
Grusat 1200S antenna system has built-in GPS, position detecting system, polarization adjustment system, servo drive system, self-protection system, high performance satellite beacon receiver module, DVB receiver module, antenna controller and smart management software system. The one-key button allows automatic setup, from equipment deployment, tracking, acquisition, adjustment to equipment folding. It is deployable within few minutes by non-technical person with minimal training and does not require any additional testing or measurement equipment. The antenna system also allows manual mode in case of automatic system failure or power supply failure. The antenna system provides excellent tracking precision and 100% acquisition accuracy. Foldable and height adjustable supporting bracket allows the antenna system to work in any severe environment.



FEATURES

- Customizable
- Highly integrated
- 28kg, completely portable
- Easy to deploy
- Ku band
- Over 5Mbps data rate
- Automatic starting, positioning and satellite acquisition in less than 5 minutes
- Manual operation in case of unusual situation
- User-friendly interface
- Designed to pass military standards, excellent performance in the harshest environments

WORKFLOW



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SPECIFICATIONS

Technical parameters		Environment parameters	
Reflector		Working Temperature	-35 °C to +50 °C
Shape	Gregory two offset paraboloid	Storage Temperature	-55 °C to +85 °C
Material	Carbon-fiber	Humidity	10% to 100%
Diameter	1.2m	Wind Speed	For working: \leq 10m/s For survival: \leq 25m/s
Base Structure	Az/EI/Pol 3-axis rotary	Protection Degree	Ip55
Polarization	Motor drive	Antenna System	
Operation Mode		Scanning Range	
Auto Mode	One-button auto satellite acquisition	Azimuth	\pm 120°
Semiautomatic Mode	Acquisition step-by-step through the control system	Elevation	0°to+90°
Manual Mode	Manually deploy, acquire and stow in case of unusual situation	Polarization	\pm 90°
Control Mode		Electrical Interface	
Intelligent Terminal	Serial control/Wireless control	Feed Interface	N-type coaxial cable
Tracking Mode		Control Interface	Waterproof aviation plug Standard IP55
Auto Mode	Beacon receiver+servo driving system+control management system	Power Supply	Waterproof aviation plug 50 Hz, 220V Standard IP55
Acquiring Time	\leq 3 minutes	Power Consumption	<100 W
Case Crafts		RF	
Material	Aerial	Frequency	Tx 14Ghz to 14.50 Ghz Rx 12.25Ghz to 12.75Ghz
Quake-Proof	Design for military use, meet all transportation requirements	Gain	Tx \geq 43dBi Rx \geq 42dBi
Water-Proof	Full sealed for water proof	3dB Beam Width	Rx 1.32° Tx 1.2°
Case Dimension	802×520×316 mm	Polarization Mode	Linear
Weight	\leq 25kg	Cross-Polarization	> 30 dB
Transportation Mode	Meet all transportation requirements, by highway, railway, ship, air, etc.	Tx/Rx Isolation	> 80 dB (including Tx/Rx filters)
		Power Capacity	0.5 kW/port
		VSWR	1.25:1

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