

1.0m Ku-Band Portable Automatic Antenna



Introduction

Antenna has the present highest level of integration and the fastest speed of satellite acquisition. This antenna is designed for emergency communication especially for individual field application. It's portable, small-volume and light-weight.

Features

1. One button Setup (deploy, acquire and stow)
2. Ultra-fast satellite acquisition (less than 3 min)
3. High-reliable Tracking/ Dual-Tracking Receiver Technology/ Accurate star-tracking
4. Carbon Fiber Reflector/ High Accuracy/ Low Weight/ Difficult Deformation
5. High Integration Level/ Excellent Portability
6. Third-party MODEN/VSAT IDU Integration Available
7. B/S Control Method / PC or Handheld Smart Terminal Control Available
8. Military-Standard Environment Adaptability

Antenna & Feed		
Model	1.0m Ku band portable automatic antenna Single Offset Antenna	1.2m Ku band portable automatic antenna Gregory Dual Offset Antenna
Reflector Material	Carbon Fiber	Carbon Fiber
Reflector Dimension	1.0m × 0.82m	1.2m × 1.1m
Frequency-Rx	10.95 ~ 12.75GHz	10.95 ~ 12.75GHz
Frequency-Tx	13.75 ~ 14.5GHz	13.75 ~ 14.5GHz
Polarization	Linear Polarization	Linear Polarization
Gain(dBi±0.3)- Rx	39.5dBi@12.5GHz	41dBi@12.5GHz
Gain(dBi±0.3)- Tx	40.3dBi@14.25GHz	42dBi@14.25GHz
Side Lobe Performance:	$100\lambda / D < \theta < 7$ 29-25log θ dBi 32-25log θ dBi	$100\lambda / D < \theta < 7$ 29-25log θ dBi
Polarization Isolation:	≥35dB (axial direction)	≥35dB (axial direction)
Servo & Control		
Signal Tracking Type:	DVB S1/S2 , Beacon Receiver(Hot Spare)	DVB S1/S2 , Beacon Receiver(Hot Spare)
Tracking Accuracy:	≤0.2°	≤0.2°
Setup Time:	≤ 3min	≤ 3min
Control Mode:	Wire Control/ Wireless(WIFI) Control	Wire Control/ Wireless(WIFI) Control
Control Terminal:	PC / Handheld Smart Terminal	PC / Handheld Smart Terminal
Power Supply:	90-264 VAC, 47-63 Hz, 48VDC (Optical)	90-264 VAC, 47-63 Hz, 48VDC (Optical)
Power Consumption (BUC not Included) :	Maximum: ≤ 110W	Maximum: ≤ 110W
Structure Features		
Net Weight:	25.5Kg	29.5Kg
Product Size:	670mm × 400mm × 230mm	670mm × 400mm × 230mm
Azimuth:	±90°	±90°
Elevation:	10° ~ 90°	10° ~ 90°
Polarization:	±90°	±90°
Work Environment		
Operating Temperature:	-25°C ~ +55°C	-25°C ~ +55°C
Storage Temperature:	-40°C ~ +80°C	-40°C ~ +80°C
Wind Resistance:	a) working wind speed: ≤14m/s	a) working wind speed: ≤14m/s
	b) Maximum wind speed: ≤18m/s	b) Maximum wind speed: ≤18m/s
Rain:	≤100mm/h	≤100mm/h



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