

Starwin 1.2m Ku Band Auto Flyaway Antenna Datasheet



1. System Composition

1. Feed subsystem: Ring focus reflector (Carbon fiber), Ku Band feed horn, OMT, Filter and so on.
2. Antenna control subsystem: Azimuth, Elevation, Polarization motor, angle sensor, ATPC control board and so on.
3. Digital tracking subsystem: Beacon receiver, GPS, DVB, WiFi module and so on.

2. System Feature

1. The main support system of the antenna is carbon fiber material. The system realizes 60% carbon fiber, the material is more stable, the weight is lighter, the strength is higher, and it is more convenient for portable use.
2. The antenna has the features of low sidelobe and high gain, which can meet the technical requirements of satellite companies.
3. The antenna system is equipped with GPS positioning system, position detection system, polarization adjustment system, servo drive system, automatic protection system, high performance satellite beacon receiving system, Wi-Fi wireless control, intelligent control management software and so on.
4. "One-Key" operation, completion of positioning, deployment, tracking satellites automatically in 3 minutes.
5. Under special circumstances, when GPS can not be used, the satellite longitude and latitude

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can be input manually, and the pointing can be completed quickly.

6. It provides three automatic, electrical and manual control modes to facilitate emergency operation in various environments.
7. The antenna system is powered by a wide range of AC220V and can be customized according to user requirements.

3. Technical Specifications

Product Name		1.2m Ku Band Auto Flyaway Antenna			Feed Type	Ring Focus
Equivalent Caliber			1.2m		Polarization	Linear Polarization
Frequency Range		Rx: 10.95 ~ 12.75 GHz		Gain	Rx: ≥41.5+20lg(f/12.50) dBi	
		Tx: 13.75 ~ 14.5 GHz			Tx: ≥42.7+20 lg(f/14.25) dBi	
XPD		≥ 35 dB, On axis		SWR	Rx: ≤ 1.25	
Port Isolation		≥ 85 dB			Tx: ≤ 1.25	
First Side Lobe		≤ -14 dB		Power Capacity	100 W	
Interface		RF Interface: WR75, IF Interface: N-50Ω				
Range	Az	± 95°		Speed	Az	0.1° ~ 3 °/s
	EI	15° ~ 90°			EI	0.1° ~ 3 °/s
	POL	± 90°			POL	1°/s
Auto Acquire Time		≤ 3 min		Pointing Mode	Beacon/DVB	
Pointing Accuracy		≤ 0.3dB (R.M.S)		Positioning Mode	GPS	
Handset Parameters		Mobile APP		Positioning Type	Automatic positioning, or manual input	
Operation Temperature		-40℃ ~ +60 ℃		Operation Wind Speed	11 m/s (Counterweight)	
Storage Temperature		-50℃ ~ +70 ℃		Survival Wind Speed	18 m/s (Counterweight)	
Humidity Requirement		95% (20 ℃)		Protection Grade	IP65	
Power Supply		220 VAC ±10%, 50Hz ± 2 Hz		Power Consumption	≤ 100W (Exclude BUC)	
System Weight		≤ 28 Kg (Exclude the BUC, Package and the accessories)				

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4. Package

Item	Name	Maximum Package Size (L×W×H mm)
1	Black Backpack A	700×550×360
2	Black Backpack B	700×550×360

5. Packing List

Black Backpack A

Item	Name	Qty	Unit	Remark
1	Turntable Component	1	set	Include LNB (LNB and BUC are provided by the customer)
2	8 panels	4	pcs	No. 1 ~ 4 panel

Black Backpack B

Item	Name	Qty	Unit	Remark
1	8 panels	4	pcs	No. 5 ~ 8 panel
2	Feed	1	set	
3	Tripod	1	set	
4	Compass cable	1	pc	
5	220V input cable	1	pc	
6	Console cable	1	pc	