

Starwin 2.4m C & Ku Band Auto Flyaway Antenna Datasheet



1.Description

Starwin 2.4 m flyaway motor drive antenna is specially designed for highly portable antenna motor drive Azimuth and Elevation travelling, and equipped with satellite finder to point to satellite easily. This 2.4m flyaway motor drive antenna adopts aluminum material in light weight, packed in 3 cases and can be installed in 10 minutes and one person can seek satellite easily by the help of satellite finder in 15 minutes and disassembled in less than 15 minutes by one person. It can also provide users good performance in high gain and low sidelobe.

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2.Features

- Aluminum 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 15 minutes, available in 2 cases
- Designed specifically for field use, regardless of when and where, it can quickly transfer high-quality broadband content.

3.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

4. Performance Specifications

Electrical Specification

Type	SW24CFW		SW24CFW	
Operating Frequency, GHz	C-Band		Ku-Band	
	Receive	Transmit	Receive	Transmit
	3.625~4.2	5.85~6.425	10.95~12.75	13.75~14.5
Gain, Mid-band, dBi	38.3	42.1	47.6	49.0
Polarization	Linear/Circular		Linear	
XPD (on Axis), dB	35	35	35	35
Axial Ratio (Circular-Polarized)	1.3	1.09		
-3 dB Beam Width, Mid-band	2.0°	1.3°	0.72°	0.62°
Tx. Power Capability, KW		5		1
Feed Interface	CPR—229G	CPR—137G	WR-75	WR-75
Feed Insertion Loss, dB	0.15	0.17	0.3	0.35
Isolation, Tx to Rx, dB	85		85	

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First Side lobe	-18dB	-18dB
Far Sidelobe 1° -15 °	29-25 LogAdB	29-25 LogAdB

Mechanical Specification

Antenna Diameter		2.4m
Antenna Type		Offset
Surface Accuracy (RMS)		≤0.35mm
Antenna material		Aluminum (Reflector), Stainless Steel (Support)
Antenna Pointing Range	Azimuth	±170°
	Elevation	8°~85°
	Polarization	±90°
Net Weight		200 Kg
Folding Height		65cm
Motor Power (AZ/EL)		180W/300W
POL Motor		DC 24V

Environmental Specification

Operational Wind	20m/s
Survival Wind (Any Position)	56m/s
Temperature	-40°~+60°
Relative Humidity	100%
Solar Radiation	360BTY/H/ft²
Rain (Operational and Survival)	16cm/hour