



1.0M PRIME FOCUS AUTO - FLYAWAY ANTENNA

Feature

- * The main supporting system of the antenna adopts carbon fiber material, the antenna 60% parts adopts carbon fiber material, lighter weight, higher strength, easy to carry and transport.
- * Low side lobe and high gain, the antenna can meet the requirement of the major satellite companies.
- * Antenna system including GPS positioning system, position detection system, polarization adjustment system, servo drive system, automatic protection system, high performance satellite beacon receiver system, Wi - Fi wireless control, intelligent control and other management software.
- * One button operation, just take 3 minutes to automatically complete positioning, deploy, satellite acquisition.
- * When the GPS cannot be used, user can manually enter the latitude and longitude of the satellite, and quickly complete satellite acquisition.
- * Automatic, motorized, manual three control modes can be used for emergency operation of various environments.
- * The antenna system uses a wide range of AC220V power supply, the power input can be customized according to user requirements.



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RF PERFORMANCE		
Model		FA100-AK
Antenna Aperture		1.0m
Operation frequency	Tx	13.75-14.5GHz
	Rx	10.95-12.75GHz
Gain	Tx	TX: $\geq 40.8 + 20 \lg(f/14.25)$ dBi
	Rx	RX: $\geq 39.6 + 20 \lg(f/12.50)$ dBi
Polarization		Linear
VSWR		1.25:1
Interface		RF interface: WR75 IF interface: N-50Ω
Feed Insertion loss		0.2 dB
Isolation Tx to Rx		≥ 85 dB
XPD (On Axis)		≥ 35 dB
Tx power capability		100W
First sidelobe		≤ -14 dB
Travel range & rate		
AZ		$\pm 95^\circ$, $0.1^\circ \sim 3^\circ/s$
EL		$10^\circ \sim 90^\circ$, $0.1^\circ \sim 3^\circ/s$
POL		$\pm 90^\circ$, $0.1^\circ \sim 3^\circ/s$
MECHANICAL		
Antenna Type		Prime Focus
Materials of Reflector		Carbon Fiber
Weight (include knapsack)		≤ 23 Kg (not include BUC, packing and accessories)
Power consumption		≤ 100 W (without BUC)
Power supply		220 VAC $\pm 10\%$, 50Hz ± 2 Hz



ENVIRONMENTAL	
Operational Temperature	- 40°C--+60°C
Storage Temperature	-50°C ~ +70 °C
Operational Wind Speed	11 m/s (reinforced)
Survival Wind Speed	18 m/s (reinforced)
Operational humidity	95% (20 °C)
Protection level	IP65

Packing details

A) Option 1

item	Packaging	Description	Packing size (L×W×Hmm)	Net weight /Kg	Gross weight /kg
1	Black backpack A	Rotation platform assembly 1set	600×450×360	7	11
2	Black backpack B	<ul style="list-style-type: none"> ● Reflector panel 4pcs ● Feed system 1set ● Three leg support 1set ● Handset 1pc, ● compass cable 1pc, ● 220V power input cable 1pc, ● console cable 1pc, ● user manual 1pc 	600×450×360	16	20
3	Wooden case	Backpack A and backpack B	620×470×400	7	38



B) Option 2

Item	Packaging	Description	Packing size (L×W×Hmm)	Net weight /Kg	Gross weight /kg
1	Pelican hurrying case	<ul style="list-style-type: none"> ● Rotation platform assembly 1set, ● Reflector penal 8 pcs, ● Feed system 1 set, ● Leg support 3 pcs, ● Handset 1 pc, ● Compass cable 1 pc, ● 220V power input cable 1 pc, ● Console cable 1 pc, ● User manual 1 pc 	845×620×490	≤ 16	≤ 23