

## **PS200B 1.0M RING FOCUS AUTO-FLYAWAY ANTENNA**

### **1) System composition**

Antenna subsystem: ring focus parabolic antenna (carbon fiber reflector ), Ku band feed horn and OMT.

Antenna control subsystem: Az, EL and Pol motor, angle sensor, ATPC control board and so on.

Digital tracking subsystem: beacon receiver, GPS, DVB, WiFi module, etc..

### **2) System characteristics**

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 can not 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.

### 3) Specifications

<b>Antenna name</b>	1.0m Auto-flyaway antenna			<b>Antenna type</b>	Ring focus	
<b>Antenna type</b>	PS200B	<b>Antenna diameter</b>	1.0m	<b>Polarization</b>	Linear	
<b>Operating frequency</b>	RX:10.95~12.75 GHz		<b>Gain</b>	RX:≥39.2+20lg(f/11.85)dBi		
	TX:13.75~14.5 GHz			TX: ≥40.7+20 lg(f/14.125)dBi		
<b>XPD(on axis)</b>	≥ 35 dB		<b>VSWR</b>	Rx: ≤ 1.25		
<b>Isolation Tx to Rx</b>	≥ 85 dB			Tx: ≤ 1.25		
<b>First sidelobe</b>	≤ -14 dB		<b>Tx power capability</b>	100 W		
<b>Interface</b>	RF interface: WR75, IF interface : N-50Ω					
<b>Travel range</b>	<b>AZ</b>	± 95 °		<b>Travel rate</b>	<b>AZ</b>	0.1°~3 %/s
	<b>EL</b>	10°~90°			<b>EL</b>	0.1°~3 %/s
	<b>POL</b>	± 90°			<b>POL</b>	0.1°~3 %/s
<b>Acquisition time</b>	≤ 3 min		<b>Control mode</b>	Auto , manual		
<b>Tracking accuracy</b>	Better than 1/5 half power beam width		<b>Positioning mode</b>	GPS		
<b>Operational Temperature</b>	-40°C~+60 °C		<b>Operational winds</b>	11 m/s (reinforced)		
<b>Storage temperature</b>	-50°C~+70 °C		<b>Survival winds</b>	18 m/s (reinforced)		
<b>Operational humidity</b>	95% (20 °C)		<b>Protection level</b>	IP65		
<b>Power supply</b>	220 VAC±10%, 50Hz±2 Hz		<b>Power consumption</b>	≤ 100W (without BUC)		
<b>Net weight</b>	≤ 25 Kg (no BUC, packing and accessories>					

### 4) Antenna pictures



## 5) 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 ,reflector petals 4pcs	600×450×360		
2	Black backpack B	Reflector petals 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		
3	Wooden case	Backpack A and backpack B	Internal dimension: 620×470×400		

## b) option 2

Item	Packaging	Description	Packing size (LXW×Hmm)	Case weight /Kg	Net weight /Kg	Gross weight /Kg
1	Pelican hurrying case	Rotation platform assembly 1set ,reflector petals 8pcs ,Feed system 1set Three leg support 1set Handset 1pc, compass cable 1pc,220V power input cable 1pc,console cable 1pc,user manual 1pc	iM3075: 845×620×490	≤16	≤25	≤41