

## China Starwin 4.5M Rx Only Antenna Datasheet



4.5m Rx only manual antenna photo for reference

### General Description

Starwin can supply satellite receive only antenna, and it can receive TV signal. Starwin RXO antenna is made of high accuracy stretch-formed aluminum panel with stable structure. The RXO antenna systems with satisfactory performance of high gain, low side lobe and reliable operation, easy to operate and maintenance.

### Options

- High Accuracy Stretch-formed Aluminum Panel
- Meet data receive and TV receive requirement
- C-band, Ku-band, ka-band, S-band, L-band frequency as option
- Linear or Circular Polarized feed system as option
- Single/Dual Polarization as option
- Manual/Motorized as option
- High Erosion Resistance
- Assembled and tested feed system before leaving factory

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## Technical Specifications

### 4.5meter C, Ku-band TVRO Technical Specifications

Electrical Specification	C band	Ku band
Antenna Type	Prime Focus Pole King post	Prime Focus Pole King post
Operating Frequency	3.4- 4.2 GHz	10.95-12.75GHz
Gain, Mid-Band, dBi	$\geq 43.2 + 20\lg(f/3.95)$	$\geq 53.59 + 20\lg(f/12.5)$
Beam Width, -3dB	$\leq 1.14^\circ$	$\leq 0.36^\circ$
Noise Temperature, (K, 20°E1)	$\leq 41$	$\leq 55$
Elevation (EL) Range	5 – 90 degrees	5 – 90 degrees
Azimuth (AZ) Range	0-360degrees (Manual) 0-300degrees (Auto)	0-360 degrees (Manual) 0-300degrees (Auto)
Polarization (POL)Range	$\pm 90$ degrees	$\pm 90$ degrees
Receive (RX) Feed Interface	CPR 229G	WR75
Antenna Feed:	Linear/Circular	Linear
Cross Polarization Isolation	$\geq 25$ dB	$\geq 27$ dB
VSWR	1.30:1	1.30:1
Axial Ratio	$\leq 3.0$	N/A
First side lobe	$\leq -14$ dB	
Side lobe level	$52 - 10\lg(D/\lambda) - 25\lg e$ $(100\lambda/D)^\circ \leq e \leq 20^\circ$	$32 - 25\lg e$ $1^\circ \leq e \leq 20^\circ$
<b>Environmental Specification</b>		
Wind Loading Operational	20.8m/s	
Wind Loading	35m/s	
Wind Loading Survival	55m/s	
Temperature Operational	-20°C- +55°C	
Humidity	5%-95%	
<b>Technology</b>		
After panel pressing molding, first remove oil, and spraying zinc, Yellow primer, and White coating. Advanced abrasive blasting and zinc treatment for steel structure, and spraying zinc, Yellow primer, and White coating.		