



Alignsat 3.0m Rx Only Antenna

Alignsat can supply satellite receive only antenna, and can receive TV signal, Alignsat 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.



FEATURES

- Feedforward antenna, single pole stand, drive mode: manual.
- High gain, low side lobe, high cross-polarization isolation.
- C/Ku band optional, linear/circular polarization optional.

ELECTRICAL SPECIFICATION

3.0m Rx only antenna		
Operating Frequency, GHz	C-Band Receive 3.4-4.2	Ku-Band Receive 10.95-12.75
Gain, Mid-band, dBi	$\geq 39.7 + 20\lg(f/3.8)$	$\geq 49.89 + 20\lg(f/12.5)$
Polarization	Linear / Circular	Linear
VSWR	$\geq 1.30:1$	$\geq 1.30:1$
Beam Width	$\leq 1.70^\circ$	$\leq 0.55^\circ$
Noise Temperature	≤ 44	≤ 55
Feed interface	CPR-229G	WR-75
Cross Polarization Isolation	$\geq 23\text{dB}$	$\geq 27\text{dB}$
Axial Ratio	≤ 3.0	≤ 3.0
First Side	$\leq -14\text{dB}$	$\leq -14\text{dB}$
Sidelobe	$52 - 10\lg(D/\lambda) - 25\lg(\theta)$ dBi $(100D/\lambda)^\circ \leq \theta \leq 20^\circ$	$32 - 25\lg(\theta)$ dBi $1^\circ \leq \theta \leq 20^\circ$





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MECHANICAL SPECIFICATION

Antenna Diameter	3.0m
Antenna Type	Feed forward antenna
Stand Type	Single pole
Antenna Pointing Range	
Azimuth	0°-360°
Elevation	5°-90°
Polarization	±90°
Drive Mode	Manual

ENVIRONMENTAL SPECIFICATION

Operational Wind Speed	20.8m/s
Survival Wind Speed	55m/s
Temperature	-20°-55°
Relative Humidity	5%-95%

