



ASL 1.2M Ku-Band & X-Band Flyaway Satellite Antenna



Product Features:

- High strength, light weight, carbon fiber reflector with a surface accuracy of $<0.3\text{mm}$ RMS.
- Easy assembly and operation, without training or tools.
- Azimuth & Elevation angle adjustment realizes fast and fine tuning functions, it rapidly decreases the satellite acquisition period.
- Supports C, X, Ku and Ka-Band operations.
- Supports various requirements such as, Broadcast & Media, Emergency & Public Safety, Oil & Gas, etc.



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RF Feature		
Reflector Aperture	1.2m	
Reflector Material	Carbon Fiber	
Reflector Type	Offset	
Tx Frequency(GHz)	13.75~14.5 29.4~31	
Rx Frequency(GHz)	10.75~12.75 19.6~21.2	
Tx Gain(dBi)	$\geq 42.6 + 20 \lg(f/14.25)$ $\geq 49.3 + 20 \lg(f/30)$	
Rx Gain(dBi)	$\geq 41.8 + 20 \lg(f/12.25)$ $\geq 45.5 + 20 \lg(f/20)$	
Tx VSWR	$\leq 1.3 : 1$	
Rx VSWR	$\leq 1.3 : 1$	
Tx Isolation	>85dB	
Rx Isolation	>40dB	
Side Lobe	first side lobe < -14 dB 29-25log θ ($1^\circ \leq \theta < 20^\circ$) 32-25log θ ($20^\circ \leq \theta < 48^\circ$) -10 dB ($\theta \geq 48^\circ$)	
Power Capacity	200	
Polarization Feature	Linear Circular	
Feed Interface	WR-75 Tx WR28 Rx WR42	
Cross Polarization	≥ 35 dB (Axis) ≥ 27 (Axial) ≥ 30 dB(-1dB beam width)	
Mechanical Feature		
Case Size	Case:820mm * 550mm * 510mm , Weight: 34Kg	
Slewing area	Azimuth	360°
	Elevation	10°~90°
	Polarization	$\pm 95^\circ$
Operational Wind	36km/h (10mps) Random 65km/h (20mps) With anchored unit	
Temperature	-40° C to +55° C	
Humidity	100%	