

#### **Earth Station Antenna**

ASL 1.2 MPA Ku-Band & ASL 1.2MPA X-Band 1.2 Meter Man-pack Satellite Antenna

## Carbon Fiber Manual Manpack Antenna



### Product features:

- \* High strength, light weight, carbon fiber reflector with a surface accuracy of <0.3mm 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 operation.
- \* Supports various requirenents such as, Broadcast & Media, Emergency & Public Safety, Oil & Gas, etc.



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# Antenna System Specification

		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)		≥42.6+20 lg(f/14.25)	≥49.3+20 lg(f/30)
Rx Gain(dBi)		≥41.8+20 lg(f/12.25)	≥45.5+20 lg(f/20)
Tx VSWR		≤1.3 : 1	
Rx VSWR		≤1.3 : 1	
Tx Isolation		>85dB	
Rx Isolation		>40dB	
Side Lobe		first side lobe < -14 dB	
		29-25logθ (1° ≤θ <20°)	
		32-25logθ (20° ≤θ <48°)	
		-10 dB (θ ≥48°)	
Power Capacity		200	
Polarization Feature		Linear	Circular
Feed Interface		WR-75	Tx WR28 Rx WR42
Cross Polarization		≥35 dB (Axis) ≥30dB(-1dB beam width)	≥27 (Axial)
		Mechanical Feature	
Case Size		Case:820mm * 550mm * 510mm , Weight: 34Kg	
Slewing area	Azimuth	360°	
	Elevation	10°~90°	
	Polarization	± 95°	
Operational Wind		36km/h (10mps) Random	
		65km/h (20mps) With anchored unit	
Temperature		-40° C to +55° C	
Humidity		100%	