

Earth Station Antenna

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

One Button Acquisition Manpack Antenna



Product features:

- * High strength, light weight, carbon fiber reflector with a surface accuracy of <math><0.3\text{mm}</math> RMS.
- * Supports both manual and one button auto-deploy acquisition of the satellite.
- * Easy assembly and operation, without training or tools, with acquisition of the satellite in four (4) minutes.
- * It fully satisfies the standard of MIL-STD-810F
- * Supports C, X, Ku and Ka-band operation.
- * Supports DVB-S1, DVB-S2 satellite acquisition either by beacon or modem outputs.
- * Supports various requirements such as, Broadcast & Media, Emergency & Public Safety, Oil & Gas, etc.

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Antenna System Specification

Model	ASL 1.2 MPA Ku-Band	ASL 1.2 MPA X-Band
Reflector Aperture	1.2m	
Tx Frequency	13.75~14.50 GHz	
Rx Frequency	10.95~12.75 GHz	
Tx Gain	42.8+20 lg(f/14.125) dBi	
Rx Gain	41.3+20 lg(f/11.85) dBi	
Polarization Feature	Linear	
Cross Polarization	35 dB on axis	
Rx/Tx Isolation	85 dB	
Side Lobe	-14 dB (first side lobe) 29-25log θ ($1^\circ \leq \theta < 20^\circ$) 32-25log θ ($20^\circ \leq \theta < 48^\circ$) -10 dB ($\theta \geq 48^\circ$)	
Reflector Type	Dual reflector, Ring focus	
Backpack1	Rotary Table	Size: 700*450*350mm Weight: 26Kg
Backpack2	Reflector	Size: 700*450*350mm Weight: 17Kg
Antenna Coverage	Azimuth	$\pm 90^\circ$
	Elevation	$10^\circ \sim 90^\circ$
	Polarization	$\pm 95^\circ$
Axes Velocities	Azimuth	$0.01^\circ/S \sim 3^\circ/S$
	Elevation	$0.01^\circ/S \sim 3^\circ/S$
	Pol	$1^\circ /S$
Power Supply	DC 24 V 10A, AC110-230V 50/60Hz 5A (Optional)	
Operational Wind	65km/h with ballast	
Temperature	$-40^\circ \text{ C to } +60^\circ \text{ C}$	
Shock	MIL-810F Method 513.5 Procedure IV	
Vibration	MIL-810F Method 514.1 Procedure I	
Protection Grade	IP65 (Dust and Water Resistant)	
Humidity	0-98%	