



2.4M C/KU Band Motorized Vehicle Mount Antenna

## Feature

- \* Meet with requirement of CCIR580 and INTELSAT
- \* High G/T, excellent pattern characteristics
- \* Auto-deploy and auto-stow "Smart switch" to complete auto positing, deploy and satellite acquisition.
- \* Antenna deploys and acquires satellite within 3 minutes
- \* Friendly interface and easy operation
- \* Tracking accuracy is better than 1/10 of received 3dB beam width
- \* Offset parabolic antenna of carbon fiber, featuring in light weight
- \* Three modes control: Auto, motorized and manual
- \* Motorized polarization adjustment

## Options

- \* 2.4meter offset antenna
- \* Advanced Auto Control System
- \* Az, El and Pol three-axis turnable
- \* GPS, Electrical compass
- \* High sensitivity beacon receiver
- \* A-E Rotary Joint
- \* Step Motor
- \* Motor Polarization Adjustment



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Electrical Specification				
Type	PS240A-EC		PS240A-KU	
	C-Band		Ku-Band	
Electrical Specification	Receive	Transmit	Receive	Transmit
Operating Frequency, GHz	3.4 ~ 4.2	5.85 ~ 6.725	10.95 ~ 12.75	13.75 ~ 14.5
Gain, Mid-Band, dBi	37.2	41.6	47.1	48.9
Antenna Noise Temperature				
10°Elevation	50°K			
30°Elevation	45°K			
50°Elevation	44°K			
-3dB Beamwidth, Mid-Band	2.2°	1.4°		
Polarization	Linear			
XPD (on axis), dB	30		35	
Tx Power Capacity	1KW			
Cross Polarization	≥32dB			
First Sidelobe	-14		≤ -14 dB	
90% Peaks under Following envelop	29-25 log $\theta$ ( $1^\circ \leq \theta < 20^\circ$ )			
Rx/Tx Isolation	> 40dB	> 85dB	≥ 85 dB	≥ 85 dB
VSWR	< 1.3:1	< 1.3:1	≤ 1.25	≤ 1.25
Feed interface	CPR-229G	CPR-137G	WR75	
Mechanical Specification				
Antenna Diameter	2.4M			
Antenna Type	Offset			
Weight	< 380kg (no BUC, packing and accessories)			
Satellite Acquisition Time	≤3 Minutes			
Antenna Pointing Range				
Azimuth	±220°(continuous)			
Elevation	10°~90°			
Polarization	±95°			
Motor Drive System				
Azimuth	0.1°~3°/S			
Elevation	0.1°~3°/S			
Polarization	0.1°~3°/S			
Tracking mode	beacon/DVB			
Positioning mode	GPS/manual			
Tracking accuracy	Better than 1/ 10 half power beam width			
Display Resolution	0.01°			
Environmental Specification				
Winds	Operational Winds: 21m/s ; Survival winds:27m/s			
Temperature	Operational :-40°C ~ +55°C; Storage:-50°C ~ +65°C			
Operational humidity	95% (20 °C)			
Protection level	IP65			
Power supply	200V AC 50/60Hz			
MTBF	≥3000hr			