



3.0M Auto Pointing Tracking Antenna System

3.0M satellite communication antenna which is firstly developed by our company is one of a series of ring focus satellite communication antenna. This type of product adopts the most advanced forming theoretical design, which possesses the performance of high gain, low sidelobe, low cross polarization and fair matching, and fully satisfies the international standard.



**ELECTRICAL SPECIFICATION**

Diameter	3M			
Operating Frequency, GHz	C-Band		Ku-Band	
	Receive	Transmit	Receive	Transmit
	3.625-4.2	5.85-6.425	10.95-12.75	13.75-14.5
Gain, Mid-band, dBi	40.1	43.7	49.8	50.8
Polarization	Linear/ Circular		Linear	
XPD (on Axis), dB	35	35	35	35
XPD across 1dB Beam Width, dB	33	33	33	33
Axial Ratio (dB)	1.30	1.09		
VSWR	1.25	1.25	1.25	1.25
Antenna Noise Temperature, 2-port feed 10 °Elevation	32 K		52 K	
-3dB Beam Width	1.6 °	1.07 °	0.527 °	0.47 °
Tx. Power Capability, KW		5		2
Feed Interface	CPR-229G	CPR-159G/137G	WR-75	WR-75
Feed Insertion Loss, dB	0.2	0.2	0.25	0.25
Isolation, Tx to Rx, dB	85			
Radiation Pattern:First Sidelobe	First sidelobe \leq -14dB		CCIR.580-4	

Mechanical Specification

Antenna Type	Ring-focus
Antenna Pedestal Type	Kingpost Pedestal
Surface Accuracy(R.M.S.)	\leq 0.5mm
Azimuth	360 °
Elevation	0 °~90 °
Finishes	
Reflector Surface	Aluminum panels with high-diffusing white paint
Pedestal & Back Structure	Galvanized Zinc

Environmental Specification

Operational Wind	72km/h Gusting to 97km/h
Survival Wind	200km/h
Temperature	- 40 °C ~ + 60 °C
Relative Humidity	100%

