

**Specification of 4.5m X&Ka-band Receive only Antenna****ELECTRICAL SPECIFICATION**

Diameter	4.5M	
Operating Frequency, GHz	X-Band	Ka-Band
	Receive	Receive
	7.25~7.75	17.7~21.2
Gain, Mid-band, dBi	47.5	56.4
Polarization	Circle	Circle
VSWR	1.35	1.35
Axial Ratio,dB	2	2
Feed Interface	BJ-84	BJ-220
Radiation Pattern:First Sidelobe Envelop	≤-14dB	
	29-25lg θ dBi (1° ≤ θ ≤ 20°)	

MECHANICAL SPECIFICATION

Antenna Optics	Ring Focus Antenna
Mount Type	Main and Sub-surface Modified Ring-focus Antenna
Azimuth	±90° (due south as benchmark)
Elevation	5° ~90°
Azimuth High Speed	0.2°/S
Elevation High Speed	0.05°/S

SERVO CONTROL AND TRACKING SYSTEM

Tracking and Control Method	Step Tracking, Manual Drive
Position Display Resolution	0.001° (Az and El are the same)
Tracking Accuracy	≤One-tenth of Receiving Half-power Beamwidth

Possessing the functions of software limit and hardware limit, the protection equipments of locking and lightning rod.

ACU Remote Control Interface	Network Port.
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ENVIRONMENTAL SPECIFICATION

Operational Wind	72km/h Gusting to 97km/h
Survival Wind	200km/h
Temperature	- 40°C ~ + 55°C
Relative Humidity	0%~ 100%
Solar Radiation	1135Kcal/ h/ m ²
Seismic (Survival)	0.3g (H), 0.15g (V)