



**Antesky Science Technology Inc.**

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### **4.5M Receive Only Antenna**



## SPECIFICATIONS

### 4.5M Receive Only Antenna System

#### ELECTRICAL SPECIFICATION

Antenna	C-BAND	Ku-BAND
Frequency	3.625-4.2GHz	10.95-12.75GHz
Midband Gain	43.2dB	53.1dB
VSWR	≤1.35	≤1.25
-3dB Beamwidth	1.2°	0.42°
Noise Temperature	41°K@20° El	45°K@20° El
Polarization	Linear (circular as option)	Linear (circular as option)
Feed Interface	CPR229	WR75
Sidelobe	First Sidelobe ≤-14dB Envelop P90% ≤ 52 - 10lgθ(D/Δ) - 25lgθ	

#### MECHANICAL SPECIFICATION

Diameter	4.5m
Reflector material	Aluminum
Antenna Optics	Cassegrain prime focus antenna
Mount Type	Elevation over Azimuth
Mount Type	Elevation over Azimuth
Elevation Adjustment	0°to 90° (continuous)
Azimuth Adjustment	± 80°
Surface Tolerance	0.4mm(r.m.s.)
Re-installation	0.5mm(r.m.s.)
Paint Color	White
Wind Loading	Operational: 80kmph Survival : 200kmph
Temperature	-45°C ~50°C
Relative Humidity	100%
Seismic(survival)	0.3G's horizontal 0.15 G's vertical

