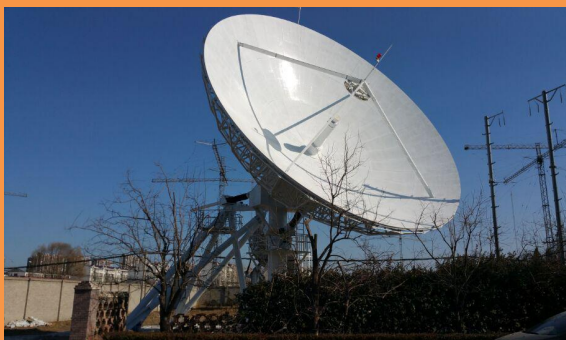




**Shaanxi Newstar Communications Equipment Co., Ltd**  
**Technical Type Specification Form**

**13.0 m Rx-only Antenna**



**Characteristics:**

- ✓ High gain, low sidelobe, high polarization identification rate;
- ✓ High precision reflection panel;
- ✓ Cassegrain, feedforward optional;
- ✓ C/Ku/X/L/S band optional;
- ✓ C/Ku common antenna, linear polarization, circular polarization, double linear&double circular optional;
- ✓ Modern design, convenient and fast installation&adjustment, strong anticorrosion, good stability;
- ✓ Trussed Az ( $\pm 85^\circ$ ) & Rotary platform Az ( $\pm 180^\circ$ ) optional;

**Accessories:**

Ground plot, foundation template, the anchor bolt, electric equipment, antenna controller, antenna drive, drive motor, limit switch, cable, connector;

**Optional:**

Deicing equipment, ODU support, electric polarization, lightning rod and wire, LNB;

**PERFORMANCE SPECIFICATIONS**

Type	NS-SEC-R1300	
Band	C-Band	KU-band
Operating Frequency, GHz	3.4~4.2	10.95~12.75
Gain, Mid-Band, dBi	52.8+20lg(f/4)	62.5720lg(f/12)
Cross Pol differentiate, dB	$\geq 35$	$\geq 35$
Isolation, Tx to Rx, dB ( double linear&double circular optional; ) (dB)	$\geq 30$ (linear polarization) $\geq 20$ (circular polarization)	$\geq 30$ (linear polarization) $\geq 20$ (circular polarization)
Isolation (C/KU) (dB)	50	
VSWR	1.25:1	1.25:1
-3dB Beamwidth, Mid-Band	0.379°	0.122°
Feed interface	WR229G	WR75
General Sidelobe Envelope, dBi	29-25log $\theta$ ( $1^\circ \leq \theta < 20^\circ$ )	

**MECHANICAL SPECIFICATIONS**

Antenna Diameter	13.0m
Antenna Type	Cassegrain



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Weight (Net)	18000Kg
Antenna Kingpost	El. Over Az.
Azimuth Travel	$\pm 85^\circ / \pm 180^\circ$
Elevation Travel	0°to 90°
Drive Mode	Motorized
<b><i>ENVIRONMENTAL SPECIFICATIONS</i></b>	
Wind speed of work	20.8m/s
Survival wind speed(antenna locked up to air )	55n/s
Ambient temperture	-40° ~60° (outdoor)
Relative humidity	5%~95%
Seismic(survival)	0.3G's(horizontal ); 0.15G's (vertical)
Solar radiation	360BTU/h/f/t <sup>2</sup>
Radial ice	3cm
Surface treatment	Steel parts: sand blasting and zinc-spray processing firstly,, then zinc yellow bottom paint and final white paint processg Aluminum parts: unoil firstly, then zinc yellow bottom paint and final white paint processing.

