



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



7.5m Rx-only Antenna

Characteristics:

- ✓ High gain, low sidelobe, high polarization identification rate;
- ✓ High precision reflection panel;
- ✓ Cassegrain, feedforward optional;
- ✓ C-Band and Ku-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;

Accessories:

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

Optional:

lightning rod and wire, high-frequency head, Deicing equipment, electric polarization;

PERFORMANCE SPECIFICATIONS

Type	NS-SEC-R750	
Band	C-Band	KU-band
Operating Frequency, GHz	3.625~4.2	10.95~12.75
Gain, Mid-Band, dBi	$\geq 48+20\lg(f/3.95)$	$\geq 57.99+20\lg(f/12.5)$
Cross Pol differentiate, dB	≥ 35	≥ 35
Isolation, Tx to Rx, dB (double linear&double circular optional;)	≥ 30 (linear polarization) ≥ 20 (circular polarization)	≥ 30 (linear polarization) ≥ 20 (circular polarization)
Isolation (C/KU) ,dB	50	
VSWR	$\leq 1.30: 1$	$\leq 1.3: 1$
-3dB Beamwidth, Mid-Band	0.65°	0.21°
Feed interface	WR229G	WR75
General Sidelobe Envelope, dBi	29-25log θ (1° $\leq \theta < 20^\circ$)	
<u>MECHANICAL SPECIFICATIONS</u>		
Antenna Diameter	7.5m	
Antenna Type	Cassegrain, feedforward optional	



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Weight (Net)	4824Kg
Antenna Kingpost	El. Over Az.
Azimuth Travel	$\pm 85^\circ$
Elevation Travel	5°to 90°
Polarization Travel	$\pm 90^\circ$
Drive Mode	Motor or manual
<u>ENVIRONMENTAL SPECIFICATIONS</u>	
Wind speed of work	72kmph
Surface treatment	Steel parts: sand blasting and zinc-spray processing firstly, zinc yellow bottom paint and final white paint processg Aluminum parts: uncoil firstly, then zinc yellow bottom paint final white paint processing.

