



**THE NORTH WEST CHINA RESEARCH INSTITUTE
OF ELECTRONIC EQUIPMENT (NWIEE)**

No.30, Zhangba Sanlu, Xian, China

Tel: 86 29 88779380/88779382 Fax: 86 29 88779380

E-mail: ibdnwiee@pub.xaonline.com

Web: www.nwiesatcom.com www.nwiee.com

**ISO9001
Certified**

NWIEE 6.2M VEHICLE-BORNE ANTENNA IN KU BAND



The model 39VH062-KU 6.2M antenna system is designed and manufactured by NWIEE with CAD, which can be applied to satellite communication station and meet IESS requirements.

The backup structure for the reflector, the hub connecting, the main reflector with mount and the pedestal provides the guaranteed pointing accuracy required in C band operation.

It's designed to be folded structure, convenient in rapid unfolded and storage, easy in operation, can be integrated in trailer itself or in lengthen vehicle with equipments shelter, which can meet the railway and highway transportation requirements.

R.F. Specifications

Aperture	6.2m
Operating Frequency	Rx: 12.25~12.75 GHz, Tx: 14.00~14.50 GHz
Antenna Gain (dBi)	Rx: $55.9+20\lg(f/12.25)$ Tx: $57.0+20\lg(f/14.25)$
Polarization Mode	Linear polarization
Power capacity	Tx: 1000W
Bandwidth	RX: 0.28° Tx: 0.24°
Cross-polarization Isolation	35dB, axially
Side-lobe envelope	CCIR.580
Insertion Loss of Feed	0.35dB
Noise Temperature	Rx: 65K(at 10° EL)
Rx- Tx Isolation	85dB
VSWR	1.3:1



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Mechanical Specifications	
Antenna Type	Ring-focus Antenna
Pedestal Type	Azimuth pedestal drive, elevation lead screw drive
Antenna reassembly accuracy	≤0.5mm
Azimuth travel range	±90°
Elevation travel range	10°~+90°
Antenna travel speed	Azimuth: low-speed: 0.04°/s, high-speed:0.4°/s Elevation: low-speed: 0.04°/s, high-speed:0.1°/s
Tracking mode	Manual or automatic
Total Antenna Weight	4000kg
Limit protection	Double limit protection (software and hardware)
Polarization angle control	Electric-drive control, adjusting range:±90°
Angle display resolution	0.01°
Power	3300W
Environmental Specifications	
Operational Wind Speed	20m/s(steady), 27m/s (gust)
Survival Wind Speed	56m/s
Rain	100mm/h
Relative Humidity	0%-100%
Solar Radiation	1.1kW/m ²
Ice thickness	2.5cm
Operation Temperature	-40℃~+55℃(ODU); -25℃~+55℃(IDU)