

1.2M VEHICLE-MOUNT ANTENNA



System Components

- Feed subsystem: carbon fiber reflector and feed
- Turntable subsystem: 3 axial turntable including Az, El, Pol.
- Servo control subsystem: antenna control unit, antenna drive unit
- Position acquisition subsystem: digital compass, GPS
- Receive subsystem: beacon receiver with high sensitivity

System features

- Do not need to wear the top, can be installed on the top of commercial vehicle, off-road vehicle, SUV, MPV and military shelter;
- First-class reliability, maintainability and environmental suitable. Suitable for road condition in outdoors and city;
- Antenna system adopts AC220V to do power supply and the power supply mode can be customized based on detailed requirement;
- “One-key” button and personnel can operate without training;
- High accuracy GPS and digital compass with high anti-interference to guarantee the environmental adaption for pointing function and the accuracy for routine pointing . Antenna can auto-pointing if there is not shaded and the vehicle can park in a safety place;
- Antenna auto-pointing do not exceed 3min(RMS);
- Multiple protection function including auto-alarm, hard and soft limit so the antenna can rotary more safety.

1.2M VEHICLE-MOUNT ANTENNA SPECIFICATION

ELECTRICAL SPECIFICATION	
Operating Frequency, GHz	Ku Band
	Receive Transmit
	10.95~12.75 13.75~14.5
Gain, Mid-Band, dBi	42 43
Polarization	Linear
XPD (on axis) ,dB	>30 >30
VSWR	1.25:1(MAX) 1.25:1(MAX)
3dB Beamwidth, Mid-Band	1.32° 1.2°
Tx. Power Capability, KW	1
Feed interface	WR-75 WR-75
Tx/Rx Isolation	Rx >40dB Tx >85dB
sidelobe (1° ≤θ<20°)	<-14dB
MECHANICAL SPECIFICATION	
Antenna Diameter	1.2m
Antenna Type	Offset Focus
Weight	≤50kg
Satellite Acquisition Time	≤3Minutes
Antenna Pointing Range	Azimuth: ±180° Elevation: 0°~90° Polarization: ±95°
Servo System	Azimuth Travel Rate
	Elevation Travel Rate
	Polarization
Tracking Accuracy	0.045°
Display Resolution	0.01°

ENVIRONMENTAL SPECIFICATION

Operational Winds		20m/s
Survival Winds		30m/s
Temperature	Indoor	-20℃~+60℃
	Outdoor	-40℃~+80℃
Relative Humidity		100%
Solar Radiation		1135 Kcal/h/m ²

CONSUMPTION

Voltage/Frequency		220V/50Hz
Power		600W

