

1.5M 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 rotate more safety.

1.5M VEHICLE-MOUNT ANTENNA SPECIFICATION

Antenna name		1.5M SNG Vehicle Mounted Antenna		Antenna type	Offset	
Operating frequency (GHz)		C-band		Ku-band		
		Rx: 3.625~4.2	Tx: 5.85~6.425	Rx: 10.95~12.75	Tx: 13.75~14.5	
Gain(dBi)		33+20lgf/3.9125	37+20lgf/6.2875	43.5+20lgf/12.5	44.8+20lg(f/14.25)	
Polarization		Linear		Linear		
Cross polarization isolation		≥35dB (on axis), ≥30dB (1 dB beam width)		≥35dB (on axis), ≥30dB (1 dB beam width)		
First sidelobe		≤ -14 dB		≤ -14 dB		
VSWR		≤1.3		≤1.3		
Noise Temperature		41K(10°E1)		45K (10°E1)		
Travel Range	Az	± 220°		Travel rate	Az	0.1°~3 °/s
	El	10°~85°			El	0.1°~1 °/s
	Pol	±95°			Pol.	0.1°~3 °/s
Time for capturing Satellite automatically		≤3min		≤3min		
Feed interface		Rx:CPR-229G Tx:CPR-159G/137G		WR75		
Power capacity		≤ 100 W		≤ 100 W		
Temperature		-40℃~+55 ℃		Operational wind	11m/s(ballasting)	
Storage temperature		-50℃~+70 ℃		Survival wind	28m/s(ballasting)	
Humidity		95%(20 ℃)		Protection level	IP65	
Power supply		220 VAC±10%, 50Hz±2 Hz		System consumption	≤ 450 W (not including BUC)	