



V Series of SATCOM ON-THE-MOVE Antenna

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V Series flat wave guide array type on-the-move antenna is an integrated system developed for mobile satellite communication.

This system adopts the tracking method of combining fiber optic gyro inertial navigation and beacon to meet the tracking requirements of rapid change of vehicle's posture, which ensures the vehicle can track the satellite signal well under sharp turning and bumpy road conditions.

This antenna system is applicable to all Ku-band communication satellite at home and abroad, so that the carrier equipped with this system can always accurately acquiring at the satellite during the movement and conduct uninterrupted multimedia communication with the central station.

The whole system is integrated on the antenna turntable, which is the advantages of high precision and low-profile, rugged vehicle roof-mounted SATCOM antenna, easy to install and use.



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0.8M SATCOM ON-THE-MOVE ANTENNA

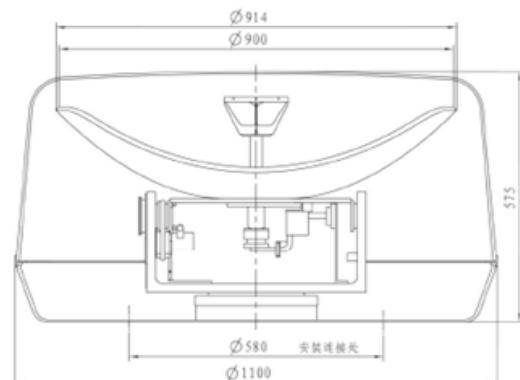
Feature

- Excellent RF performance
- After system starts, all processes will be automatically completed without manual operation
- System can be completed automatically acquiring satellite in sport or in stationary
- Lose signal, re-acquisition time just 2 sec
- Max transmission date rate 6Mbps
- Automatic initial satellite acquisition can be finished whether in motion or stationary.



Configuration

- 0.8 Meter antenna and feed system
- Waveguide, connection cable, high and low frequency slip ring
- Azimuth and elevation turntable and servo drive motor
- Antenna control system
- Tracking receiver
- Gyro inertial navigation system



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Type	V800	
Diameter	0.8meter	
Operating Frequency, GHz	Ku-Band	
	Receive	Transmit
	10.95 ~ 12.75	13.75 ~ 14.50
Gain, Mid-Band, dBi	38.1	39.1
Antenna G/T	17.4dBi/°K type	
Uplink EIRP	54.3dBW (40W BUC) 57.3(80W BUC)	
-3dB Beamwidth, Mid-Band	2.1°	1.9°
Interface	WR75	
Isolation, Tx to Rx, dB	≥85	
Polarization	Linear , auto-adjustment	
XPD (on axis) ,dB	> 30	> 30
Tx power capability	500W	
First Sidelobe 90% Peaks under Following Envelop	-14 29-25logθ(1°≤θ < 20°)	
Isolation, Tx to Rx	85dB	
Az travel range	360° continuous	
El travel range	10°-90°	
Pol travel range	±90°	
Tracking performance	signal tracking loss less than 0.2dB, close the carrier when more than 1dB	
Max vehicle speed	120km/h	
First acquisition time	≤120sec	
Reacquisition time	<2sec	
Az angular speed	100 °/s	
Angular Az acceleration, max	1000 °/s²	
El angular speed:	100 °/s	
Angular El acceleration, max	1000 °/s²	
Outline dimension	Φ1100 x580mm (diameterxheight)	
Operational temperature	-40°C to +60 °C	
Antenna size	0.8meter	
Weight	58.7kgs	
Power supply	220VAC, 50/60Hz, or 28VDC	
Power consumption	500W	



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