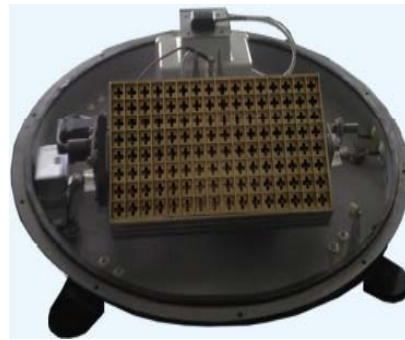
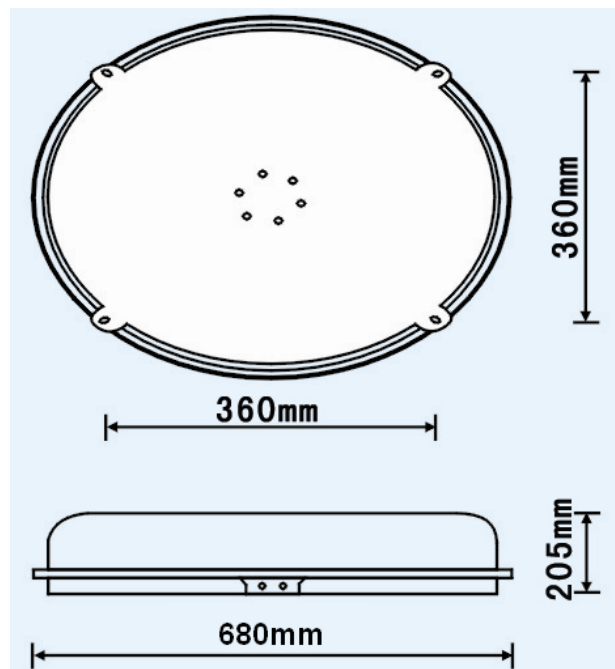


SUNNISKY DZT1000 In-motion live satellite signal receiving antenna system for fast-moving vehicles



SUNNISKY DZT1000 In-motion live satellite signal receiving antenna system is composed of outdoor antenna unit (ODU), and indoor control and receiving unit (IDU), which could scan and track satellite signal in real-time by aid of two dimensional/axis mechanical control system. The antenna surface of outdoor antenna unit (ODU) adopts the structure of full waveguide, and the antenna of outdoor antenna unit (ODU) features phased-array panels with a GPS and inertial guidance mechanical tracking system. Thanks for built-in GPS and inertial guidance modules are used for a fast and fully automatic capture high-speed satellite signal tracking technology, which supports communication at speeds up to more than 350Km/h. Specifically the height of its outdoor antenna unit (ODU) is less than 240mm, so SUNNISKY DZT1000 In-motion live satellite signal receiving antenna system can be deployed in many new locations and fields, and also can be configured for use with virtually any Ku-band satellite signal to enable live satellite signal from regional DTH/FTA services and real-time data transfer applications to fast-moving vehicles, for example, car/bus, vessel or high speed train, etc.



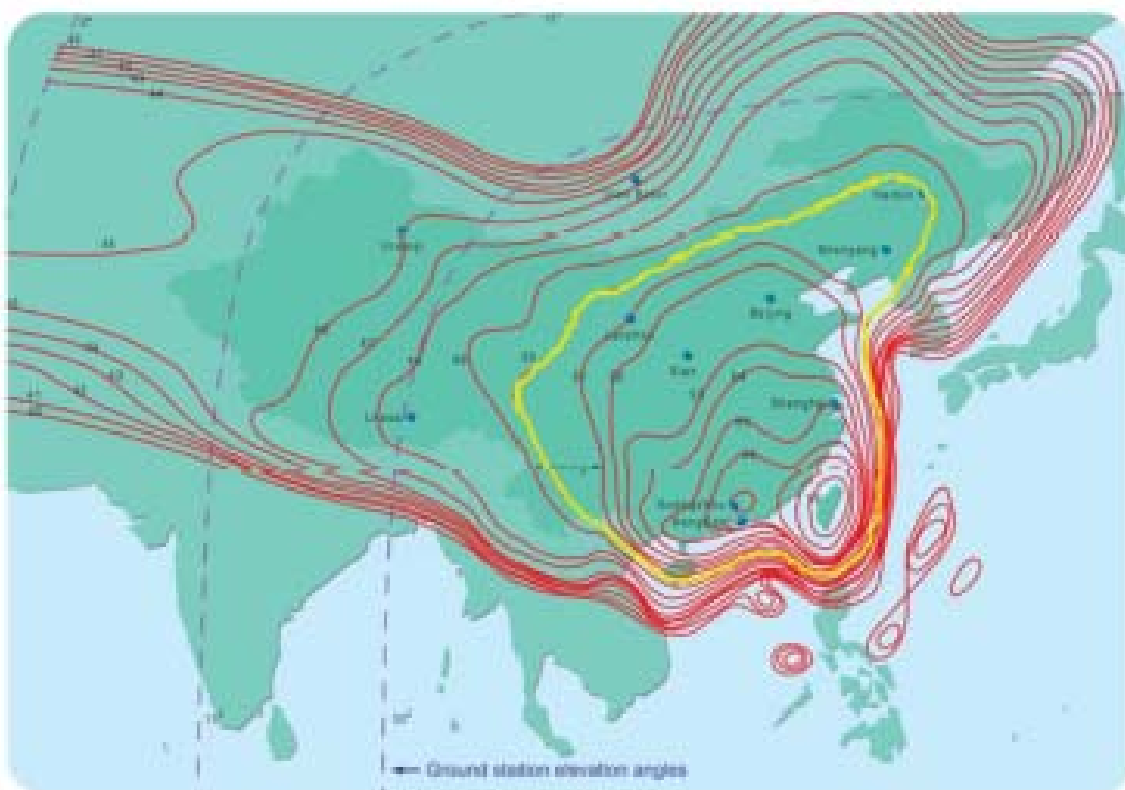
For example, in china SUNNISKY DZT1000 In-motion live satellite signal receiving antenna system could track and receive signal of 138°E satellite signal automatically with the dual linear (horizontal or vertical)

polarization, or 92.2°E satellite signal automatically with the dual circular RHCP/LHCP polarization. In particular for high speed train, this DZT1000 In-motion live satellite signal receiving antenna system adopts optimization design for the outer cover of antenna in order to prevent the damage to the antenna from small stone, etc.

As a result, SUNNISKY DZT1000 In-motion live satellite signal receiving antenna system could provide advanced, efficient, high standard and cost effective solutions for a variety of applications, such as, mobile emergency communications, private and public security services, search&rescue, governmental organizations, DSNG, asset tracking, research&exploratory and general mobile satellite signal data communications including satellite signal receiving for fast-moving vehicles.

Feature

- High gain, wide range of use, such as receiving 138 satellite signal can be applied to most areas of China:



Signal coverage map of 138°E satellite
(Yellow surround for the area with more than 50dBw signal strength)

- Track signal of satellite signal (for example, 138°E) automatically with the dual linear (horizontal or vertical) polarization
- Track signal of satellite signal (for example, 92.2°E) automatically with the dual circular RHCP/LHCP polarization
- Adopt the technology of inertial guidance measurement with high precision and signal tracking in order to capture satellite signal which will be received, when the vehicle unit (car/bus, vessel or high speed train, etc.) is moving
- Built-in GPS module to position, antenna with two axis rotates a circle to capture and track the satellite signal
- High reliability mechanical platform which could be rotated
- less than 240mm height and 12.5Kg weight
- easy installation, friendly operation and no need manually to adjust
- Running continuously with excellent stability

Specification

Operational	Combination with inertial guidance measurement and signal tracking
Stable type	Two axis with balance
Inertial guidance	Built-in
GPS	Built-in
Satellite	138°E or 92.2 °E, etc. (need confirm when ordering)
Working frequency	Ku-band, 10.7 ~ 12.75GHz
Polarization mode	Dual linear (V&H), automatically adjusted (for example, for 138°E satellite); Or dual circular RHCP/LHCP (for example, for 92.2°E satellite)
Gain	31dB
Azimuth angle range	Automatically adjusted, 0~360 °continuously
Elevation look angle range	Automatically adjusted, 0°~90°
Tracking rate	80°/s
Initial capture time	< 90s (static) , and < 120s (dynamic) fully automated with integrated GPS
Re-capture time after satellite signal has lost (fully automated with integrated GPS and inertial guidance)	Instantaneously capture if satellite signal has lost within <30s; <5s if satellite signal has lost within 240s
Operating temperature range	-25° to +55° C
Ground speed	Up to more than 350Km/h
Power input	110V~220V AC or DC12V, 30W
Outdoor unit size	< 68cmx24cm (Diameter * height)
Net weight of outdoor unit	12.5Kg

Note: All specifications are subject to change without notice.



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