

P r o d u c t S h e e t

RaySat™ T5-A



Designed for all types of cars, the RaySat T5-A is a light-weight, compact antenna for LIVE satellite TV on the go.

► LIVE Satellite TV on Wheels

The RaySat T5-A can quickly and easily upgrade any vehicle's video display system to an interactive entertainment experience. With the option of viewing a variety of LIVE satellite TV channels – sports, news, music, movies, children's programming and others, passengers will enjoy a superior travel experience.

As the demand for entertainment options in vehicles continues to grow, the RaySat T5-A is revolutionizing back-seat entertainment.

► Designed for Commercial Use

With a more compact form factor, the RaySat T5-A builds on the elements and established technology of the original SpeedRay 1000 antenna:

- Light-weight and compact for easy & quick installation
- Sleek design for aerodynamics and to complement vehicles' profiles
- Automatic and autonomous operating system for easy use
- Rapid satellite tracking for reception at high speeds
- Satellite acquisition in < 1 minute for quick signal reception
- Satellite re-acquisition in < 10 seconds following LoS blockage for a high-quality entertainment experience

► RaySat T5-A Required System Components

- RaySat low-profile antenna - ODU
- RaySat Antenna Control Unit - IDU
- RaySat roof mounting kit for a variety of vehicles - Bus, Van, SUV, Car
- Security strap for collisions
- Set-top box – provided by local satellite TV provider

► International Market

Supporting TV services on Ku band satellites, RaySat antennas are completely independent of terrestrial infrastructure and can be pre-configured for use with different satellite TV services around the world.

Cars and Vans With a small size and compact shape, the RaySat T5-A introduces IN-MOTION LIVE satellite TV to private cars and small vehicles for individual families and VIP customers to experience a variety of live channels while on the road.

Operation is as simple as using the TV remote - just like home entertainment systems.



RaySat
Satellite TV on Wheels



1-way low-profile and light-weight in-motion satellite antenna for cars and vans

Physical	Outdoor unit size Outdoor unit weight PCU (Optional) Indoor unit Mounting	60 L x 55 W x 18 H cm (24 x 22 x 7 in) 8 kg (18 lb) 9 L x 10 W x 3 H cm, 0.1 kg (3.5 x 4 x 1 in, 0.2 lb) 18 L x 23 W x 7 H cm, 1 kg (7 x 9 x 3 in, 2.2 lb) Flat magnet mount
Electrical	Antenna G/T Frequency band Polarization CP LP Power Supply Power Consumption	5.5 dB/°K @ 30° elevation High band 11.7 - 12.75 GHz Low band 10.95 - 11.7 GHz (Factory options) Dual circular RHCP/LHCP Dual linear automatically adjusted (V&H) 10-30 V DC 20 Watts
Antenna Performance	Elevation look angle range Azimuth angle range Tracking rate Polarization angle range Satellite acquisition Satellite re-acquisition	Automatically adjusted, 15° - 80° Automatically adjusted, 360° continuous 30°/second Automatically adjusted, -180° to +180° <1 minute, fully automated with integrated GPS <10 second (when LoS blockage is <2 minutes), integrated gyro
Satellite Service	Frequency Supports satellites with Supports regional DTH/FTA services Dedicated service option	Ku-band EIRP ≥53 dBW Examples: North America - DISH® Network, Direct-TV Europe - Many FTA channels, SKY (UK), SKY (IT), etc. Asia/Pacific - Dish-TV, Tata-Sky, TRUE, SKY (NZ), etc. Example: Gain - EIRP ≥51 dBW Data transfer - 2-4 Mbps Mobile TV service - 6-8 H.264 channels on a 36MHz TXP
Electrical Interfaces	RX and Control	F-Type, 75Ω
Environmental	Temperature range Ground speed	-25° to +55°C (-13° to +130°F) Up to 175 Km/h (105 mi/h)

About RaySat

Established in 1997, RaySat™, Inc is a leading manufacturer and supplier of in-motion, low-profile, phased-array satellite antennas and supporting technology for the mass transportation, public and private sector, maritime market, automotive OEM and automotive aftermarket industries. These antennas allow moving vehicles to receive live satellite television and real-time data. Among its many awards for its technology and innovation, RaySat is the 2005 recipient of the Frost & Sullivan Emerging Technology of the Year Award. Staffed by over 150 professionals, spanning three continents, RaySat's management, sales and support staff are headquartered in Vienna, VA. Additional facilities, including R&D and sales offices are located in Europe and Asia.