

## Product Sheet

# RaySat™ T5-R



Designed specifically for recreational vehicles, the RaySat T5-R is a light-weight, compact satellite antenna that offers a variety of high-quality satellite TV channels. It requires no setup time and will automatically acquire the selected satellite while parked or cruising down a scenic road. The specialized RV IDU offers control over the antenna's tracking system in order to suspend rotation while parked for a quiet and enjoyable TV viewing experience.

### ► A Luxurious Living-room TV Experience on the Road

Any RV entertainment system can be quickly and easily upgraded from a manually pointed dish or a simple terrestrial antenna to a high-quality digital TV system - just like in your living room at home. The RaySat T5-R adds to the comfort and luxury of long journeys, camping vacations and road trips in RV's with high-quality reception of a large variety of LIVE satellite TV channels, including - sports, news, music, children's programming, movies & other channels.

With no terrestrial infrastructure restrictions, TV reception via satellite is possible over wide-spread areas and in remote locations.

### ► Strategic Business Opportunity

In the competitive transportation market, the added-value service of LIVE satellite entertainment can:

- Increase revenue margins
- Provide a strategic competitive advantage
- Increase customer satisfaction levels and generate preference

### ► Designed for Commercial Use

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

- Light-weight and compact for easy & quick installation
- Specialized RV mount for quick and attractive installation
- 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-R Required System Components

- RaySat low-profile antenna - ODU
- RaySat Antenna Control Unit - IDU (or optional PCU)
- Roof mounting kit for RVs - optional
- 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.

### RaySat T5-R Antenna Advantage

- **Being completely automatic, there is no need for set up. Operation is as simple as using the TV remote - just like with home entertainment systems.**
- With a total height of only 17cm, the sleek shape of the RaySat T5-R complements the design of luxury RVs, compared to large, bulky parabolic satellite antennas.
- The low-profile and compact form factor of the antenna is aerodynamic, gas-efficient and does not interfere with height limitations.



**RaySat**  
Satellite TV on Wheels



### 1-way low-profile and light-weight in-motion satellite antenna for RV's and motor homes with a specialized IDU that offers optimized reception on both moving and parked vehicles

❖ <b>Physical</b>	Outdoor unit size	60 L x 55 W x 17 H cm (24 x 22 x 6.8 in)
	Outdoor unit weight (Optional) PCU	6 kg (13 lb) 9 L x 10 W x 3 H cm, 0.1 kg (3.5 x 4 x 1 in, 0.2 lb)
	Indoor unit	18 L x 23 W x 7 H cm, 1 kg (7 x 9 x 3 in, 2.2 lb)
	Mounting	Pole mount
❖ <b>Electrical</b>	Antenna G/T	5.5 dB/°K @ 30° elevation
	Frequency band	High band 11.7 - 12.75 GHz Low band 10.95 - 11.7 GHz (Factory options)
	Polarization CP LP	Dual circular RHCP/LHCP Dual linear automatically adjusted (V&H)
	Power Supply Power Consumption	10-30 V DC 20 Watts
❖ <b>Antenna Performance</b>	Elevation look angle range	Automatically adjusted, 15° - 80°
	Azimuth angle range	Automatically adjusted, 360° continuous
	Tracking rate	30°/second
	Polarization angle range	Automatically adjusted, -180° to +180°
	Satellite acquisition Satellite re-acquisition	<1 minute, fully automated with integrated GPS <10 second (when LoS blockage is <2 minutes), integrated gyro
❖ <b>Satellite Service</b>	Frequency	Ku-band
	Supports satellites with Supports regional DTH/FTA services	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.
	Dedicated service option	Example: Gain - EIRP ≥51 dBW Data transfer - 2-4 Mbps Mobile TV service - 6-8 H.264 channels on a 36MHz TXP
❖ <b>Electrical Interfaces</b>	RX and Control	F-Type, 75Ω
❖ <b>Environmental</b>	Temperature range	-25° to +55°C (-13° to +130°F)
	Ground speed	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.