

StealthRay 2000

2-way low-profile in-motion satellite antenna compatible with any external standard Ku band BUC (up to 50W)

The StealthRay 2000 features flat phased-array panels with a GPS and gyro-assisted mechanical tracking system. The built-in GPS and gyro are used for a fast and fully automatic satellite acquisition. High-speed satellite tracking technology support communication at speeds up to 220 mph.

The StealthRay 2000 can be configured for use with virtually any Ku band satellite to enable IP connectivity on fast-moving vehicles for real-time video, voice and data applications.

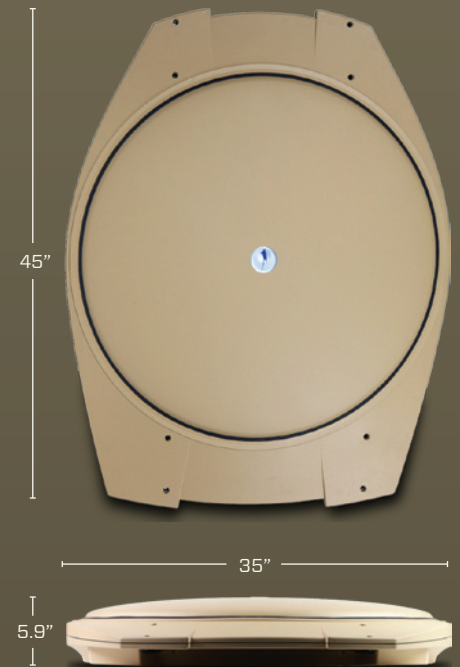
Technical Specifications

Physical	Outdoor Unit Size:	45"L x 35"W x 5.9"H (115 x 90 x 15 cm)
	Outdoor Unit Weight:	62 lbs (28 kg)
	Indoor Unit Size:	7"L x 9"W x 3"H (18 x 23 x 7 cm)
	Indoor Unit Weight:	2 lbs (1 kg)
Electrical	Frequency Band:	Receive: High Band: 11.7 - 12.75 GHz Low Band: 10.95 - 11.7 GHz (Factory option, specify upon order) Transmit: 14.0 - 14.5 GHz
	Polarization:	Linear (auto polarization control)
	Gain:	Receive: 29.5 dBi Transmit: 27 dBi
	Antenna G/T:	8 db/°K at 30° elevation or 9 db/°K at 45° elevation
	Uplink EIRP:	41 dBW
	Cross Polarization:	Greater than 25 dB
	IF Input/Output:	950-2150 MHz
	Ku Band Input:	14-14.5 GHz, 50W max
	Power Supply:	10-30 VDC (antenna)
	Continuous Power Consumption:	55W (antenna)

Antenna Performance	Elevation Look Angle Range:	Automatically adjusted, 20° - 80°
	Azimuth Angle Range:	Automatically adjusted, 360° continuous
	Tracking Rate:	60° per second
	Polarization Angle Range:	Automatically adjusted, -180° to +180°
	Initial Satellite Acquisition & Lock:	Less than 60 seconds, fully automated with integrated GPS
Satellite Re-Acquisition:	Less than 1 second, modem dependent	

Electrical Interfaces	Tx	N-Type, 50Ω
	Rx & Control	TNC, 50Ω

Environmental	Temperature Range	-13° to +158°F (-25° to +70°C)
	Relative Humidity	10 to 100% condensing
	Ground Speed	Up to 220 mph (350 Km/h)
	Flammability	UL 94, V0



ANTENNA SYSTEMS
RaySat
Satcom on-the-move

A **SIGS** Company

About SIGS

Spacenet Integrated Government Solutions (SIGS), a wholly owned subsidiary of Spacenet Inc, develops networks and communications solutions for agencies such as the Department of Defense, Homeland Security, the Intelligence community and other government agencies requiring highly secure, flexible solutions.

Founded in 1981, Spacenet Inc designs, develops, and manages wireline and wireless broadband network solutions for business, industrial and government customers. RaySat Antenna Systems (RAS) is a division of SIGS and specializes in the development and support of in-motion, low-profile, 2-way antenna systems.

RAS's antennas are specifically designed for the needs of Satcom-On-The-Move (SOTM), mobile emergency communications, home land security (HLS), search & rescue, governmental organizations, DSNG, private security, asset tracking, research & exploratory and general mobile satellite data communications. RAS offers consulting and R&D services to clients requiring custom technology solutions.