

StealthRay™ 2000

TechSpec



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

Physical	Outdoor unit size	115 L x 90 W x 15 H cm (45 x 35 x 5.9 in)
	Outdoor unit weight	28 kg (62 lb)
	Indoor unit size	18 L x 23 W x 7 H cm (7 x 9 x 3 in)
	Indoor unit weight	1 kg (2 lb)
<small>(The radome is included in all measurements and dimensions)</small>		
Electrical	Frequency band	High band 11.7 - 12.75 GHz Low band 10.95 - 11.7 GHz (Factory option, specify upon order)
	Receive	14.0 - 14.5 GHz
	Transmit	Linear (auto polarization control)
	Polarization	
	Gain	29.5 dBi 24 dBi
	Receive	9 dB/°K
	Transmit	40 dBW (with external 40 Watt BUC)
	Antenna G/T	Operationally licensed
	Uplink EIRP	> 30dB
	FCC Compliance	950 - 2150 MHz
	Cross polarization	14 - 14.5 GHz, 50W max.
	IF input/output	10 - 30 VDC
Ku band input	55 W (ant. only, excluding BUC)	
Power supply		
Continuous power consumption		
Antenna Performance	Elevation look angle range	Automatically adjusted, 25° - 70°
	Azimuth angle range	Automatically adjusted, 360° continuous
	Tracking rate	60°/sec
	Polarization angle range	Automatically adjusted, -180° to +180°
	Initial satellite acquisition & lock	< 60 sec, fully automated with integrated GPS
	Satellite re-acquisition	< 1 sec, modem dependent
	Azimuth tracking accuracy	0.7°@ 60°/s, 360°/s ²
Elevation tracking accuracy	0.5°@ 45°/s, 180°/s ²	
Electrical Interfaces	Tx	N-Type, 50Ω
	Rx and Control	TNC, 50Ω
Environmental	Temperature range	-25° to +55°C (-13° to +130°F)
	Relative humidity	10 - 100% condensing
	Ground speed	Up to 350 Km/h (220 mi/h)
	Flammability	UL 94, V0

Specifications subject to change without notice

About RAS

RaySat Antenna Systems (RAS), LLC is part of the RaySat™ family of companies. With RaySat being a leading and award-winning developer, manufacturer and supplier of in-motion low-profile, 1-way phased-array satellite antennas, RAS specializes in the development, marketing, sales and support of in-motion, low-profile, 2-way antenna systems. RAS's low-profile, in-motion, 2-way 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. Staffed by over 150 professionals, spanning three continents, RAS'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. RaySat, Inc. was established in 1997 and RAS was created in 2006.