

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 6 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	1.3 kg (2.8 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)
	Receive	14.0 - 14.5 GHz
	Transmit	Linear (auto polarization control)
	Polarization	
	Gain	30 dBi 27 dBi
	Receive	8 dB/°K at 30° elevation or 9 dB/°K at 45° elevation
	Transmit	41.7 dBW (with external 40 Watt BUC)
	Antenna G/T	> 25dB
	Uplink EIRP	950 - 1450 MHz
	Cross polarization	950 - 2150 MHz
	IF input (Tx)	14 - 14.5 GHz, 50W max.
	IF output (Rx)	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° - 80°
	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	< 10 sec (when LoS blocage is < 2 minutes)
	Azimuth tracking accuracy	0.5°@ 60°/s, 360°/s ²
	Elevation tracking accuracy	1.0°@ 45°/s, 180°/s ²
❖ Electrical Interfaces	Tx input	N (50Ω)
	Rx output	TNC (50Ω)
❖ Environmental	Temperature range	-25° to +70°C (-13° to +158°F)
	Relative humidity	Up to 95%
	Ground speed	Up to 350 Km/h (220 mi/h)

Specifications subject to change without notice

About RAS

Established in 2006, Raysat Antenna Systems (RAS) is a world leader in providing low-profile, in-motion, two-way satellite antennas for land mobile applications of COTM (Comms on-the-move). RAS products are used extensively for mobile emergency communications, homeland security, governmental organizations, DSNG, private security, asset tracking, research & exploration, and general mobile satellite data communications. RAS products operate in both Ku and Ka bands. RAS is a wholly owned subsidiary of Gilat Satellite Networks (NASDAQ: GILT).