



WOLVERINE | OPTICAL GROUND TERMINAL

With over eighteen years of optical communication and space domain awareness expertise, GEOST brings observatory solutions to the global market. Our portfolio includes over a dozen observatories around the globe, many in austere locations, supporting critical space missions.

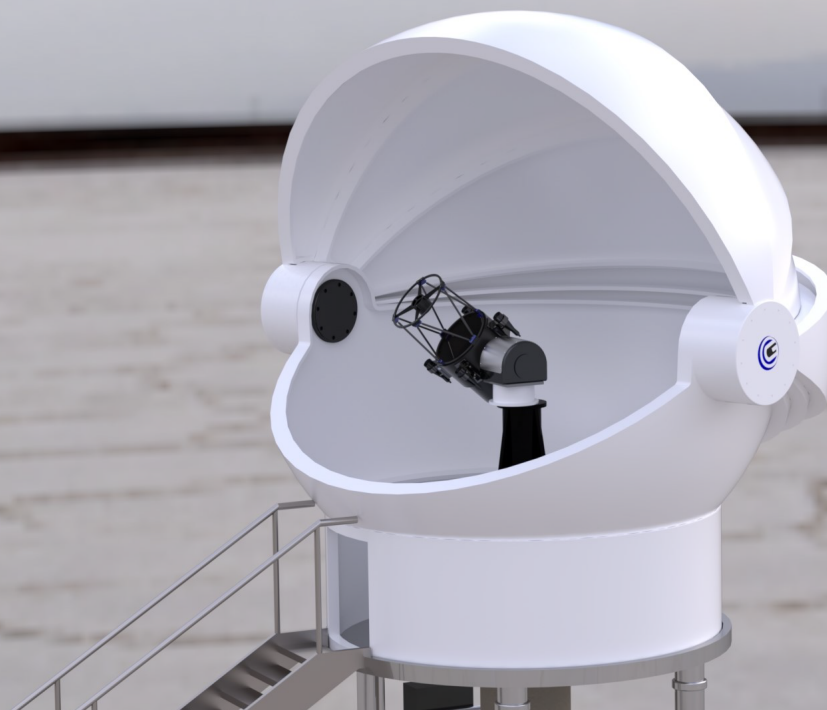
GEOST provides affordable elegance in design and approach, with cutting-edge capabilities, delivered on budget and on schedule.

Wolverine | Optical Ground Terminals

Building on the flexible architecture of GEOST's Black Heron product, GEOST delivers proven, low-cost autonomous Wolverine OGTs capable of LEO and GEO, SWIR and VIS supported communications. Safety sensors and built-in autonomous tasking allow for reliable operation in diverse environmental conditions around the world.

Leveraging COTS component integration and modular SW interfaces, Wolverine delivers reliable, low-cost and quick-turn solutions. The modular system and COTS solution also support design adaptation, rapid component changeouts and straightforward upgrades. A standard, restful API allows flexible communication across the broader architecture.

The GEOST OGT fully complies with SDA OCT v3.0 Standards.



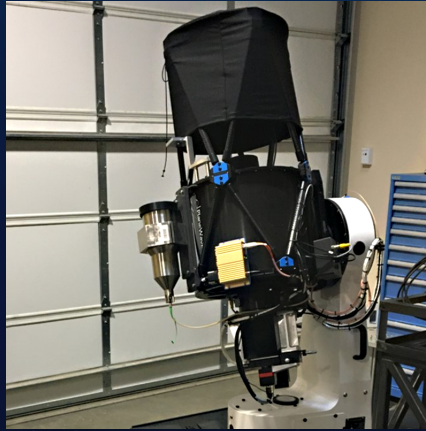
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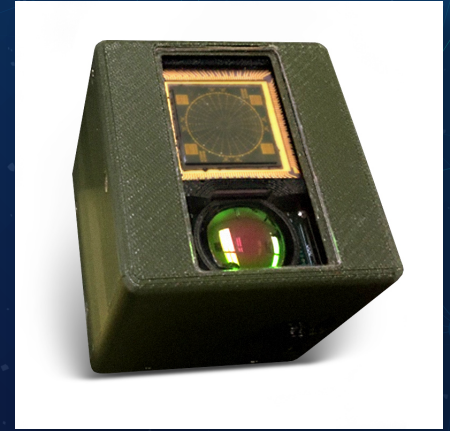
GEOST | Optical Communication Product Line



Black Heron



Commercial Laser Beacon



Quill

Black Heron | Day & Night LEO/GEO Observations

GEOST provides daytime and nighttime LEO RSO observations to the UDL and broader customer base. With best-in-class capability to provide SWIR daytime observations of LEO RSOs, GEOST is leading the way in optical LEO RSO tracking.

Commercial Product | Laser Beacon

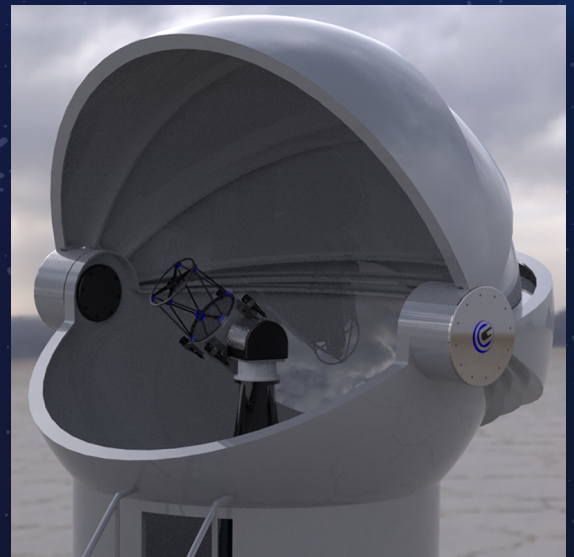
GEOST's commercial laser beacon system supports mobile calibration, testing and checkout of satellite optical communications - capable of full pointing, acquisition and tracking of LEO objects.

Quill | Handheld Laser Communications

Ground and space-based modulated retroreflector for gimbal-less low SWaP optical communication systems. Ground-based version demonstrated at operational ranges, and space-based 2U design for LEO direct-downlink communications to the field.

GEOST OGT Technical Specifications

Spectral Band	SWIR C-Band (1535nm-1565nm)
Channels	Supports 96 channels across 100GHz & 50GHz ITU-T G.694.1 grids
Simult. WDM Channels	4 (hardware configurable)
Data Rate	4 x 2.5Gbps
Bit Error Rate	10^{-12}
Mount Performance	20° / sec slew speed; <10 arcsec open-loop pointing accuracy
Horiz. Elevation Limit	10°
Operational Period	24/7
Peak Power Requirement	<25A/220V
Compliance	SDA OCT Standard v3.0 compliant



Wolverine OGT