

A background of fiber optic cables with light trails in shades of blue and purple.

OrbitalStrix



Optical Ground Station revolutionizing
space-to-earth, and
earth-to-earth connectivity

OrbitalStrix:

Secure Laser Communications Redefined

Raymetrics presents **OrbitalStrix**-
a compact, next-gen Optical Ground
Station revolutionizing space-to-earth,
and earth-to-earth connectivity.

This cutting-edge system delivers
ultra-secure, high-speed laser
communications for defense,
research, and commercial
applications across all
operational domains.



Key Advantages:

- 2.5 Gbps **bidirectional laser links** **-10x faster than RF systems** **Battle-field-proven** performance in contested environments
- **AI-powered tracking** maintains perfect alignment with moving targets **Rapid deployment** - operational in <30 minutes (sub-100kg design)
- Information Exchange Station: Enables fast and ultra-secure data transfer between ground, air, and space assets.
- Uses primary Free-Space Optical Communication (FSO) technology for high-bandwidth and low-latency connectivity.
- Ideal for mission-critical defense, surveillance, and autonomous systems requiring real-time communication.
- Immune to electromagnetic interference, offering stealthy and resilient communication in contested environments

OrbitalStrix delivers sovereign, future-proof communications when reliability matters most.



Technical Superiority:

Adaptive optics combat atmospheric interference

1550nm infrared optimized for all-weather operation

<5 μ rad pointing accuracy for flawless LEO tracking

Ruggedized for extreme conditions (-30°C to +60°C)

Mission Applications:

Defense:

Secure comms
Hypersonic tracking
Drone coordination



Civil:

Emergency networks
Climate monitoring
Financial security



Space:

Lunar missions
Earth observation
Submarine comms



OrbitalStrix

Experience the **FUTURE**
of optical communications with
Raymetrics' OrbitalStrix.

Raymetrics pioneering NATO-aligned innovation
for mission-critical reliability.

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