



NEWS RELEASE

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Starris and TRL11 announce strategic partnership to deliver next-generation satellite imaging payloads

Resolved imagery to 10 kilometers improves SDA
by reducing time for characterization from months to minutes

Ontario, N.Y. — Starris: Optimax Space Systems (Starris), a leader in precision optics and monolithic optics systems, and TRL11, a leader in AI-enabled full-motion video capture and distribution for space, have entered into a strategic partnership to deliver innovative, intelligent full-motion video payloads capable of performing electro-optical Rendezvous Proximity Operations (RPO) tasking plus a dual-use capability of Space Domain Awareness. The system is capable of performing SDA object characterization with resolved imagery of Resident Space Objects up to a distance of 10 kilometers and metric observation at 20 kilometers and beyond.

Integrating TRL11's expertise in intelligent on-orbit video analysis with Starris's innovation in high- performance optics creates a video payload capable of performing persistent monitoring, threat detection, or autonomous mission execution for advanced satellite operators. The extremely powerful yet compact nature of the Starris monolithic telescope coupled with TRL11's machine vision computing reduces time of identification for neighboring RSOs from months to minutes using low-latency, high-reliability full-motion video.

Combining RPO + SDA capabilities this powerful has never before been realized at this low SWAP and cost. For the first time, operators of small to medium satellites in the commercial, defense and intelligence sectors have a single, affordable, easy to deploy space-aware video solution capable of performing advanced and dynamic RPO while at the same time protecting their assets from incursion using powerful optics, coupled to algorithmic event detection and space-optimized downlink protocols.

"This partnership with Starris is one giant leap toward delivering actionable, near-real-time intelligence in a small form factor, built for mission assurance and mitigating risk specifically for the working distances required in modern dynamic space operations." said Nicol Verheem, TRL11 Founder and CEO. "Combining our software with Starris's unique optics, we deliver scalable, highly capable systems for the evolving needs of space."

As part of the partnership, TRL11 will continue the development of its Video Intelligence Platform[™] (VIP), a software suite including real-time image processing and event recognition at

the edge using proprietary algorithms purpose-built for the unique scene content, constraints and demands of the space environment.

Starris will spearhead the design and fabrication of the optical subsystems, including monolithic telescopes and structural components. Starris's monolithic optics — designed in conjunction with the Lawrence Livermore National Labs — offer unmatched performance per volume, making them ideal for responsive space missions.

“Responsive space requires the ability to scale quickly and deliver payloads that are not only high- performing but also easy to manufacture and integrate,” said Kevin Kearney, Starris Space Strategy Lead. “Combining our monolithic optics with TRL11's video solutions unlocks a new level of capability for tactical and operational missions, enabling defense and commercial users to transition into full deployment faster than ever before.”

About Starris: Optimax Space Systems

Starris: Optimax Space Systems is powered by three decades of space-qualified innovation on civil, commercial, and defense space missions, as the space systems unit of precision-optics leader Optimax. Starris is focused on production-scale EO/IR infrastructure for responsive space, based on the disruptive, patented monolithic telescope technology developed by Lawrence Livermore National Lab. The monolithic telescope technology enables deployment of proliferated small satellite constellations that are affordable, reliable, and storage stable. Starris offers a pre-engineered modular approach for space-qualified optical payloads that combines optics, sensors, and electronics. Starris optical payloads are tailored for aggressive design cycles and rapid deployment, supported by a robust testing and manufacturing ecosystem. Learn more at Starris.com.

About TRL11

TRL11 is a leading provider of AI-enabled low delay, full-motion video infrastructure for space. TRL11 offers turnkey and bespoke solutions for on-orbit full-motion video capture, space aware AI-enabled machine vision, plus reliable downlink and secure distribution. TRL11's Video Intelligence Platform (VIPTM) is built to provide real-time, actionable insights from orbit for commercial and government customers, and enables SDA, RPO, PNT, autonomous navigation, and own-ship health monitoring. Learn more at TRL11.com.

Attn. Media:

Images are online at <https://tinyurl.com/StarrisTRL11>

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