

Teledyne Geospatial Announces New Lidar Solution for UAV Platforms



Teledyne Geospatial has introduced the Optech CLS-A, a new survey-grade UAV Lidar and camera system. The Optech CLS-A is developed for high-quality surveying and inspection applications where the tight integration of a powerful, narrow beam divergence laser, high-accuracy IMU, calibrated camera and powerful post-processing software provide efficient wide area collection at the allowable regulation limits for UAV operation.

The [Optech CLS-A](#) integrates the CL-360XR Lidar scanner with its industry-leading 0.3-mrad beam divergence, 360-degree field of view and survey-grade precision and accuracy. The CL-360XR enables the collection of topographic Lidar data from 120m agl or higher through vegetated and varied elevation terrain. The Lidar is paired with a calibrated 80-degree field of view digital global shutter camera that enables colorization

and high-resolution inspection. Data collected with Optech CLS-A, ALTM Galaxy and Lynx systems can be simultaneously processed through a common workflow within Optech LMS Professional.

Hard-surface Engineering Surveys

The CLS-A can be easily integrated into a variety of UAV platforms, depending upon the user's preference. The integration can be completed with as little as power, an isolated mechanical mount and a GNSS antenna. The CLS-A is engineered to deliver high-quality results for applications such as hard-surface engineering surveys, utility vegetation management, topographic surveys, corridor monitoring, roads/pavements, railways, forestry, construction, mining and archaeology.

"We are very excited to announce Teledyne Geospatial's first Lidar solution that delivers survey-grade data from a UAV platform. The Optech CLS-A fits effortlessly into ALTM Galaxy and Lynx post-processing workflows to meet the most stringent data quality requirements," commented Mark Treiber, product manager, Autonomous Solutions at Teledyne Optech.

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