

GeoCue Launches Lidar/Imagery Fusion Sensor



GeoCue has unveiled its new True View line of unmanned aerial vehicle (UAV or 'drone') sensors in Nashville, Tennessee, USA. True View sensors offer surveyors an innovative Lidar and dual oblique mapping camera configuration integrated in a single lightweight payload for use on commercial drone platforms. True View allows for fast and easy automated generation of true 3D colourized point clouds, oblique imagery and orthophotos from a single flight.

The first sensor of the product line, the True View 410, was displayed at the reveal along with full workflow processing in the companion True View Evo processing software. The True View 410 is an integrated Lidar/camera fusion platform designed from the ground up to generate high-accuracy 3D colourized Lidar point clouds. Featuring dual GeoCue

mapping cameras, a Quanergy M8 Ultra laser scanner and Applanix position and orientation system (POS), the result is a true 3D imaging sensor. With its wide 120° fused field of view, the True View 410 provides high-efficiency 3D colour mapping with vegetation penetration in a payload package with a mass of about 2kg.

Colourized Vertical Surfaces

During the product launch in Nashville, demonstrations of True View Evo full post-processing workflow software (included with the sensor) were provided. The audience witnessed the creation of stunning 3D colourized point clouds with processing time from sensor to final product of less than 15 minutes for a 50-acre site. The visualization of colourized vertical surfaces demonstrated the value of the dual oblique cameras and true 3D mapping of Lidar points to images.

“Anyone considering a drone Lidar system should pause and evaluate the True View product line,” said Lewis Graham, president and CTO of [GeoCue](#). “The True View sensor fusion systems will make 3D colourized point clouds a standard product demanded by customers of high-accuracy drone mapping. The 3D colourization approach that we use in our Evo software provides a new level of intelligence in Lidar point clouds. An advance in sensor technology comes along every few years that changes our industry – True View is one of those instances.”

Business Model Option

In addition to its advanced fusion technology, the True View 410 includes an interesting business model option. Customers can purchase the complete system (hardware and full workflow software) as a standard purchase or enrol in a subscription service. For as little as US\$3,000 per month, a user can obtain an Evergreen True View 410 with complete processing software. The minimum time commitment for an Evergreen subscription is 3 months. The base subscription includes enough processing minutes to complete about 20 projects of 50 acres each. Additional processing is purchased by the minute. Both traditional purchase and Evergreen customers can access Applanix SmartBase and Trimble PP-RTX on a per-minute basis (via True View Evo) without the need to commit to an annual Trimble service subscription; all billing is managed by GeoCue.