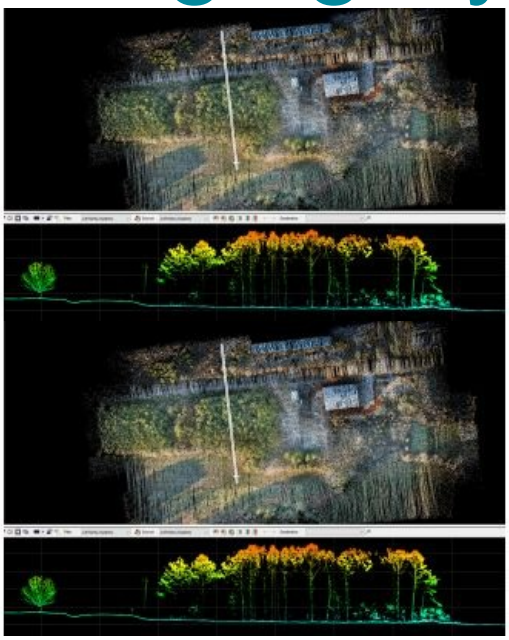
# GeoCue Launches Hybrid 3D Imaging System




GeoCue Group has released the latest addition to its 3D Imaging Systems (3DIS) series, the True View 515. True View 515 is designed for Lidar wire extraction and dense vegetation penetration applications for all-purpose sensors.

GeoCue has contributed to the UAV Lidar/imaging market in 2019 with the creation of a 3D imaging sensor/system approach to drone mapping. Unlike conventional drone Lidar systems with tacked-on cameras, a True View 3DIS couples a laser scanner with tightly integrated and calibrated photogrammetric cameras. The included post-processing software generates RGB colourized point clouds from the source images. Unlike the flat colourization from ortho images seen in other systems, the True View 3DIS renders 3D colourization for spectacular, high-accuracy datasets.

## Ray-traced 3D colourized point cloud

The True View 515 series is an all-purpose grade 3DIS designed for UAVs. The system includes full post-processing software that generates a ray-traced 3D colourized point cloud and geocoded images. GeoCue's True View 3DIS product series is an inclusive hardware and software offering providing users with a complete acquisition-to-deliverables workflow.

True View 515 3DIS is equipped with Hesaiâ€™s PandarXT-32 laser scanner integrated with dual GeoCue photogrammetric cameras and Applanix APX-15 positioning system.

“Our True View 410 3DIS  has created a new standard for fused Lidar and imagery in an affordable, easy-to-use package and our RIEGL miniVUX-based systems are really the best available drone sensors for survey grade projects ” said Lewis Graham, president/CTO of GeoCue. “However, in discussions with our customers, we kept hearing about the gap between these two products; clients wanted to collect transmission wires and see through heavy vegetation and would accept accuracies/precision slightly below survey grade. After testing many high beam count sensors, we were able to achieve spectacular results with the True View 515 configuration.”

## Point by point tracing algorithm

True View 515 3DIS is equipped with Hesai's PandarXT-32 laser scanner integrated with dual GeoCue photogrammetric cameras and Applanix APX-15 positioning system. The True View product line gives surveyors and mappers the ability to collect and deliver high-quality data. These deliverables are generated using workflows and tools within the included True View EVO post-processing software.

Examples of derived products include break line enforced models, profiles and cross sections, topographic contours, volumetric analysis, classified ground model and more. Every True View 3DIS includes all the software needed to flow from raw collected data to product deliverables; True View EVO, Applanix POSPac and True View Reckon post-deployment data management portal.

GeoCue' s True View 3DIS are designed to create point cloud data that have been colourized with Red-Green-Blue (RGB) camera data via a rigorous point-by-point tracing algorithm. One of the biggest advantages of a True View 3DIS is the speed with which these data can be produced; according to GeoCue 15-minute data collect can be processed to a colourized point cloud in about 10 minutes.

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