

Optech at AUVSI's Unmanned Systems 2015



Optech (Canada) will be exhibiting its latest Lidar and imaging solutions at the Unmanned Systems 2015 Conference in Atlanta, USA, from 4-7 May 2015 at the Teledyne stand, 2311. Optech's solutions include a fully implemented Lidar camera workflow for UAV operations, as well as other airborne, mobile and stationary sensors.

Visitors can drop by the booth to learn more about Optech's UAV solution, which combines the rugged Optech ILRIS Terrestrial Laser Scanner and the new Optech XR6 photogrammetry small UAV with an integrated software workflow. The solution merges aerial camera imagery from the UAV with high-resolution data from Optech lidar to deliver comprehensive, georeferenced and highly accurate 3D planimetric data. The ILRIS lidar system can also be operated remotely through a web interface.

PulseTRAK Technology

For advances in airborne sensing and surveillance using mid-size to larger UAVs, Optech will discuss the impressive features of the compact Optech Galaxy lidar system and its PulseTRAK technology, which ensures a continuous operating envelope and steady point density even in rugged terrain, vastly simplifying mission planning, and eliminating 'blind zones'—overcoming a long-standing limitation inherent to Lidar sensors lacking PulseTRAK technology. Galaxy is compatible with all Optech mounts for integrating digital metric cameras, enabling clients to customize their solution with the right mix of Lidar, multispectral, LWIR, MWIR, and RGB sensors for their application.

Optech will also be showcasing the Optech Titan, the world's first commercial multispectral airborne Lidar, which accomplishes highly automated land classification using its separate 532, 1064, and 1550nm laser channels, and even performs combined topographic/bathymetric mapping down to a depth of 15m in clear conditions.

Visitors who need rapid coastal monitoring and object detection will be particularly interested in the new Optech CZMIL Nova, Optech's recent upgrade of the award-winning CZMIL airborne bathymetric mapper. CZMIL Nova maintains its predecessor's sensing power, including its unmatched turbid water penetration, while boosting installation flexibility and cost savings with a more efficient laser and much lighter hardware, facilitating operation in smaller aircraft.