

XactMaps Debuts World's First GPS-Free UAV Aerial LIDAR Surveying And Mapping System; No GPS? No Problem!

With a new approach to collecting and processing sensor data, XactMaps is poised to revolutionize the way we measure our world.

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LIDAR technology, photogrametry and other sensors continue to revolutionize the surveying and mapping industries, and the world is now buzzing about how UAV and unmanned vehicles may hold the future of these industries. But only within the last few years has the sensor technology made advancements in size and weight reduction to be considered for UAV platforms.

Andy Trench of XactMaps is a groundbreaker for flying LIDAR on a small UAV, and the only company ever to be actively producing results from the combined technology. Now, XactMaps has again innovated the industry by being the first in the world to collect pointcloud data from a LIDAR equipped UAV and produce 3D environment results, processed without the need for GPS and other sensors. Previously position sensors were used to track movement and aid in stitching real-time LIDAR and other sensor data to create whole models of a given target or area. This important advancement is proving interior and exterior scanning can be accomplished using an intelligent software approach replacing heavy and expensive hardware.

You can see the ground breaking LIDAR octocopter in flight here: <https://www.vimeo.com/86810214>.

XactMaps is a Rhode Island company focused on creating the next generation of surveying and scanning tools for professional surveyors and commercial markets looking to increase efficiency with instant and accurate data. With a fleet of unmanned aircraft capable of autonomous flight XactMaps will carry LIDAR technology and remote sensing to the next level. From the ground up to the tallest structures, scanning of fields, bridges, mountain sides, and entire buildings can be done in a fraction of the time and with very little manpower compared to traditional tools. Reducing cost and increasing efficiency are only the beginning of the benefits a versatile, nimble, and mobile scanning solution. Their custom built aircraft can carry a wide array of sensors to obtain immediately useful data from nearly any location. Multispectral, infrared, and thermal sensors can easily be adapted to the platform, and within moments an aircraft can be on its way. These innovations mean data can be instantly obtained on-demand and with better results. Andy is currently flying a Velodyne HDL-32E real-time capable 3D LiDAR sensor and a Cannon 5D camera on a folding octocopter platform. The Velodyne HDL-32E LiDAR delivers 700,000 points of data per second with 40° vertical field of view and up to 20 full 360° rotations per second. It weighs only ~1kg, making it a clear choice for UAV integration.

The team at XactMaps is dedicated to providing the best solution with the newest technology applied to the task at hand. They will consult on UAV integration, and ensure the equipment requested fills needs of the application. Many different options are available for a UAV system and these options are expanding rapidly. Full autonomy is achievable with onboard sensors giving the aircraft an unprecedented awareness of its surroundings. The options seem endless to what can be achieved as their aircraft become more capable, and sensing technology becomes more powerful, smarter, and smaller. The future looks bright for unmanned systems with XactMaps at the forefront of next generation UAV and unmanned systems.

About XactMaps:

Andy Trench is a Designer, Engineer, RC enthusiast, inventor and entrepreneur. He has made innovations in aerial filming and stabilized camera platforms <http://www.ZoomVideo.net> and film production <http://www.TheIntelXgroup.com>, as well as maintaining a lead designer role at <http://www.KylaCoburnDesigns.com> with his wife Kyla Coburn. His creative approach to UAV technology have him ahead of the curve and innovating where others are just now catching up.

Keep up with their sensor software innovation and next generation UAV platforms at <http://www.XactMaps.com>.



Contact

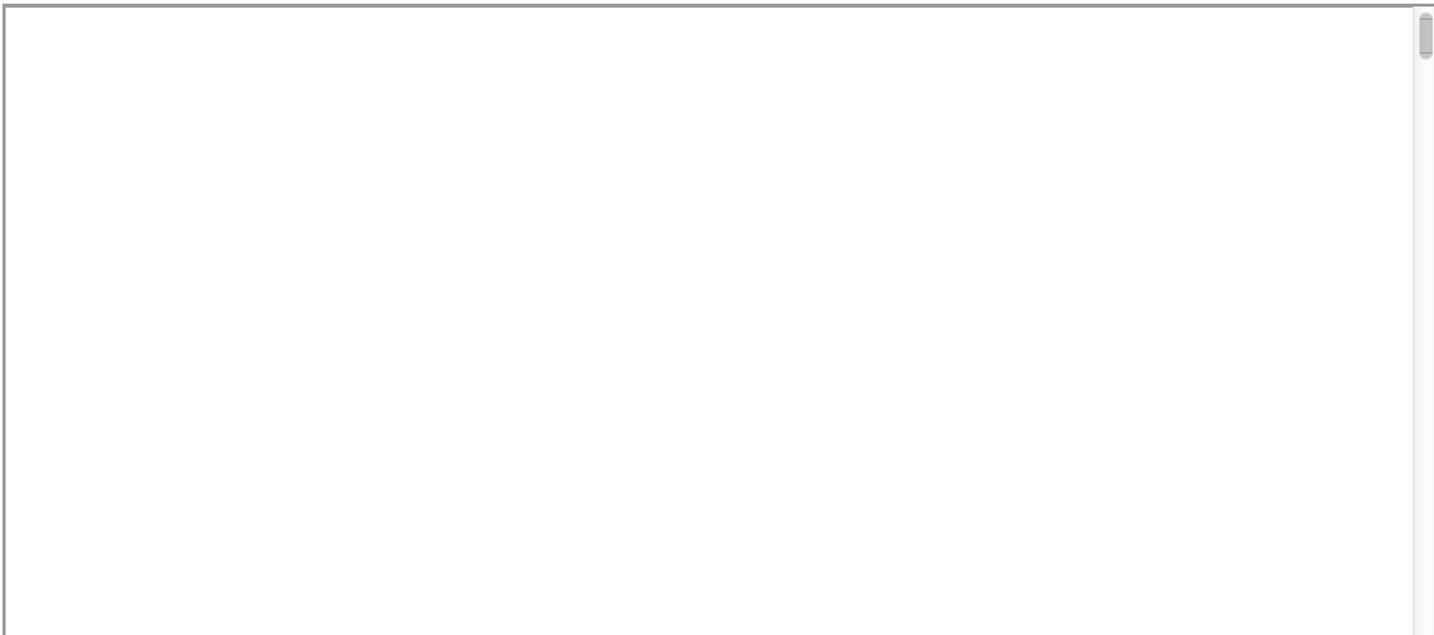
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Attachments



XactMaps has again revolutionized the game by announcing the first ever UAV aerial mapping and surveying solution free from the confines of satellite positioning systems.

Andy Trench at XactMaps has completed the first ever GPS-free UAV LIDAR survey scans and continues to innovate with purpose built aircraft and software advancements that will make the collection of 3D surface data easier, safer, and more accurate than ever



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