

PRODUCT SHOWCASE

GEOCONNEXION LOOKS AT THE LATEST IN GEOMATICS PRODUCTS

1 RENISHAW RELEASES UPDATED VOID SCANNER CAVITY MONITORING SYSTEM

Void Scanner is a high-speed, low-cost CMS used in the mining and civil engineering industries to produce fast, accurate 3D laser scans of voids where access is limited, dangerous or prohibited. The latest version of Void Scanner is the first CMS to be fully developed, engineered and manufactured under the **Renishaw** brand. Following major investment in new production and servicing facilities Void Scanner comes with world-class production values and global support to match. The product's specialist ruggedised design helps Void Scanner operators to solve underground surveying challenges quickly and at low cost. Improvements to the Void Scanner system include better internal gearings, which has enhanced point cloud quality and surfacing, leading to improved data accuracy for better on-site decision making, despite challenging locations. Void Scanner's Cavity Profiler – VS software enables users to scan from multiple locations and view the resulting scans together in real time. www.renishaw.com

2 TOPCON GNSS MODULAR RECEIVER INTEGRATES WITH A WIDE-RANGE OF APPLICATIONS

Topcon Positioning Group announces the **MR-2**, a new modular GNSS receiver system. The system combines all current and planned constellation tracking with a comprehensive set of communication interfaces to service any precision application requiring high performance RTK positioning and heading determination. The MR-2 can perform as a mobile RTK base station, marine navigation receiver, mobile mapping device and as a GNSS receiver for agricultural, industrial, military, or construction applications. "The MR-2 delivers navigation support for a wide-range of applications, it is an ideal component for OEMs needing a custom, high-accuracy modular design for easy integration," said **Jason Hallett, vice president of Topcon global product management**. "Its housing is water and dustproof and is built to withstand harsh environments with superior vibration and shock tolerances. The MR-2 is also designed as a 'future-proof' system, making it a smart investment in the expanding GNSS environment." www.topconpositioning.com

3 NEW LEICA SPL100 BRINGS UP TO 10X MORE EFFICIENCY TO AIRBORNE LIDAR MAPPING

Leica Geosystems announced the release of the **Leica SPL100** as part of the **RealTerrain** reality capture solution, enabling airborne professionals to more efficiently collect and process **LiDAR** data of large areas day or night in leaf-on or leaf-off conditions. Combining the SPL100 single photon LiDAR (SPL) and imaging sensor with Leica HxMap, the scalable post-processing workflow software, RealTerrain enables, for the first time in history, the efficient collection and rapid processing of large area LiDAR data sets. SPL100 collects an unprecedented 6 million points per second with 100 output beams, and HxMap provides a complete single-interface post processing platform to create industry standard LiDAR and image data products. The efficiency gained by SPL100 acquisition and HxMap data processing enable larger and more frequent LiDAR data acquisition for applications such as dense vegetation mapping and change detection. www.leica-geosystems.com

4 ALGIZ 8X RUGGED TABLET, A NEW TOUGH COMPUTER FROM HANDHELD

Handheld Group, announces the all-new **Algiz 8X ultra-rugged tablet computer**. The new Algiz 8X is built for modern field workers who require a powerful, portable computer for mobile tasks. The Algiz 8X offers communication features such as LTE and dual-band WLAN, along with an 8-inch projective capacitive touchscreen that is ultra-bright and built for outdoor use. Enabling glove mode or rain mode allows for seamless operation in changing weather. The chemically strengthened glass survives a mighty impact test. The Algiz 8X also comes with an optional active capacitive stylus. **Johan Hed, director of product management** said, "The new Algiz 8X is the most compact and ergonomic Windows tablet we have ever developed. We've pushed the limits of modern field technology with this product, fulfilling customers' needs for powerful computing, mobility, outstanding screen performance and battery life. We made no compromises." www.handheldgroup.com



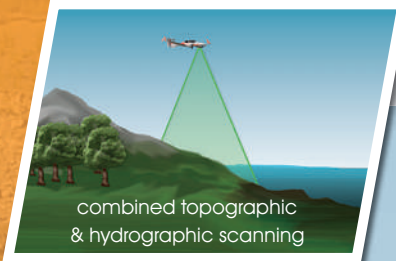
RIEGL's versatile product portfolio for airborne and UAV-based applications in

Hydrographic Surveying

RIEGL VQ-880-G

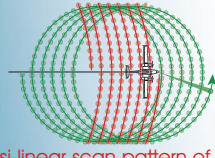


fully integrated topo-hydrographic airborne laser scanning system for large scale coastline and shallow water surveying



combined topographic & hydrographic scanning

circular scan pattern of the green laser scanner



quasi-linear scan pattern of the optional IR laser scanner

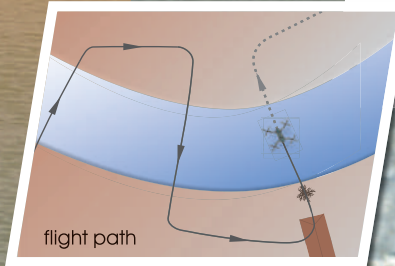
- >> High spatial resolution due to measurement rate of up to 550 kHz and high scanning speed of up to 160 scans/sec
- >> high accuracy ranging based on echo digitization and online waveform processing with multiple target capability
- >> water penetration up to 1.5 Secchi depth
- >> typ. operating altitude 2,000 ft AGL
- >> IMU/GNSS unit and high-resolution camera integrated
- >> suited for gyro-stabilized leveling mounts
- >> additional IR laser scanner to support the detection of the water surface



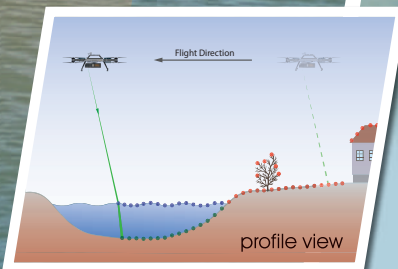
BathyCopter



hydrographic sUAV-based surveying system for generating profiles of inland water bodies



flight path



profile view



- >> operating flight altitude 10-40 m AWSL (Above Water Surface Level)
- >> floating support for safe water landing and take-off from water bodies
- >> **NEW Bathymetric Depth Finder RIEGL BDF-1** fully integrated providing up to 1.5 Secchi depth water penetration



Scan this QR code to watch the RIEGL VQ-880-G and BathyCopter video on our YouTube Channel.

www.riegl.com



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