

# PRODUCT SHOWCASE

GEOCONNECTION LOOKS AT THE LATEST IN GEOMATICS PRODUCTS

## TRIMBLE INTRODUCES MIXED REALITY FOR CONSTRUCTION LAYOUT WITH FIELDLINK MR

Trimble announced an innovative mixed-reality solution for construction layout with the introduction of the **FieldLink MR app**. Built on the powerful **Trimble Connect collaboration platform**, Trimble FieldLink MR offers a completely new way to perform construction layout, enabling professionals to quickly navigate to tasks on the jobsite—getting more done in less time. The app runs on the **Trimble XR10** with **HoloLens 2**, a hardhat-integrated mixed-reality device. With Trimble FieldLink MR, field crews can easily visualize construction data without relying on a handheld controller for step-by-step navigation to locate each point. Visual cues presented through the **mixed-reality hardhat** naturally lead workers directly to each point for them to physically lay out pertinent information on the construction site. [www.trimble.com](http://www.trimble.com)

## PHASE ONE UNVEILS WIDE-AREA, 120MP AERIAL CAMERA WITH GLOBAL SHUTTER SENSOR TECHNOLOGY

Phase One, a developer of digital imaging technologies, announced the iXM-GS120 aerial camera built to meet the demanding needs of national security and geo-intelligence gathering projects. Designed for use on unmanned aerial vehicles (UAVs), fixed-wing aircraft, and helicopters, the iXM-GS120 is the first **wide-area, 120MP resolution camera** designed around **advanced global shutter sensor technology**. The iXM-GS120 underscores the Phase One commitment to pioneering development of reliable and innovative aerial imaging solutions. The single-sensor design combined with 120MP resolution guarantees **fast collection of detailed information** over a wide area of interest in every frame, reducing flight times and enhancing effectiveness. With regards to processing, this design also eliminates the time-consuming stitching together of image scenes from multi-sensor camera systems. [www.phaseone.com](http://www.phaseone.com)

## KINEMATIC LIDAR DATA PROCESSING WITH RIEGL RIPROCESS 1.9.2 SOFTWARE

The newest version of RIEGL's software suite for processing kinematic LiDAR data, RIPROCESS 1.9.2, provides additional benefits. Due to advances in RIEGL's core database engine RDBLib, the **writing speed has increased significantly**, thus improving the overall processing time of point clouds. Especially large point cloud data benefits from the update, **saving precious processing time** in large projects. With improvements in the level-of-detail feature of the RDBLib, the workflow is now smoother and significantly faster for large data sets. The new release introduces a NIR attribute for point clouds. The data can be exported as LAS / LAZ files with both RGB color and additional NIR data (Point Data Record Format 8). This feature is especially useful for e.g. RIEGL VQ-1560 II systems with two cameras, an RGB camera and an achromatic camera sensitive at near-infrared wavelengths. [www.riegl.com](http://www.riegl.com)

## THE WORLD'S FIRST TILT-COMPENSATED TOTAL STATION POLE SOLUTION FOR CONSTRUCTION AND SURVEYING PROFESSIONALS

Leica Geosystems, part of Hexagon, announced the introduction of the **Leica AP20 AutoPole** — an innovative solution for automated total stations that boosts productivity to the next level through tilt compensation, automatic pole height readings and unique target identification. The AP20 AutoPole combines an **intelligent sensor module** with the new **AP Reflector Pole** and operates with Leica Geosystems' existing automated total stations to create a unique solution for autonomous workflows. It opens up new possibilities and is the world's first device on the market that solves three common workflow challenges: holding the pole vertical and stable, entering the pole height manually into the field software and locking to a foreign target on a site with multiple reflectors. [www.leica-geosystems.com](http://www.leica-geosystems.com)



## TOPCON ANNOUNCES GTL-1200 SCANNING ROBOTIC TOTAL STATION

Topcon Positioning Group has announced its latest scanning robotic total station — the GTL-1200. The GTL-1200 solution combines the power of a **robotic total station** with a best-in-class **laser scanner**, enabling users to perform digital layout and capture high-resolution 3D scans, all with a single setup. This combined technology approach eliminates workflow steps for scanning applications and greatly reduces the need for post-processing because the captured scan data is already on survey control or job site coordinates. In addition, the GTL-1200 workflow includes seamless integration with **ClearEdge3D software** for as-built and advanced construction QA workflows. The introduction of **Collage Site** offers field-centric workflows that eliminate extra data management steps traditionally performed in the office. The GTL-1200 also features improved scanning resolution and adds Wi-Fi capability, enabling wireless data transfer to field-controller software. [www.topconpositioning.com](http://www.topconpositioning.com)

