

## New GPS + GLONASS Receiver System from Sokkia



Sokkia presents its brand new GNSS system for surveying professionals: the GSR2700 ISX. The GSR2700 ISX features a fully integrated, triple-frequency, high-performance receiver with GPS plus GLONASS satellite tracking capability. The receiver offers a total of 72 universal channels for increased satellite coverage and improved performance on the job. In addition to GLONASS tracking capability, the GSR2700 ISX includes support for the new GPS L2c and L5 signals. The system also features numerous

additional enhancements, including improved RTK performance, seamless GPS network support with GSM and GPRS/NTRIP, refined multipath mitigation, and multiple Bluetooth connection options. The system is completely cable free and extremely easy to set up and operates in base and rover modes. The receiver has a comprehensive display panel and is the only of its kind to offer audible status notification in the field. These notifications are available in multiple languages and generic tones. Equipped with rugged magnesium alloy housing, the GSR2700 ISX provides complete protection against water and dust and is even immersible up to 1 meter. The receiver is environmentally safe as well; it fully complies with the European RoHS lead-free directives.

Source: Sokkia  
Internet: [www.sokkia.net](http://www.sokkia.net)

## Ricoh Releases New GPS-Ready Digital Camera



Ricoh released the 500SE GPS-ready digital camera. The camera's integrated precision GPS module provides for an all-in-one, easy-to-use device for geo-coding images and video at the time of capture. For applications that require even greater precision, the camera is capable of receiving NMEA data streams from external GPS devices via its on-board Bluetooth(R) radio. Once the captured "geo-images" and "geo-video" files are transferred to a PC, they are automatically converted to shape files or merged into geo-databases for instant integration into Geographic Information

Systems (GIS). Points representing each file's position may be hovered over to display a thumbnail of the file, or clicked on to access the original image or video. In addition to storing GPS data in the image and video files, the camera also utilizes a user-configurable "data dictionary" to tag files with workflow-related information. These attributes become part of the GIS layer table for automated database integration. The 500SE's waterproof and shock-resistant shell protects a high-resolution 8MP sensor that is image stabilized and has an ultra rapid shutter response. Additional features include GPS track log capability, GPS lock (to record the position of an object as opposed to the position of the photographer), and the ability to send images wirelessly to handheld devices via Bluetooth(R) or WiFi(R). The 500SE as well as GIS integration software is available in Europe from alta4 Geoinformatik AG, Trier, Germany.

Source: Ricoh  
Internet: [www.ricohsolutions.com/geo](http://www.ricohsolutions.com/geo)  
[www.alta4.com](http://www.alta4.com)

## Navman Miniaturized Jupiter 32 GPS Module with Ultra-High-Sensitivity

Navman announced the smallest, autonomous GPS receiver available, the Jupiter 32. It is designed for devices where size matters such as covert asset tracking, discrete personal location and safety products, and any application where ultra-small form factors are required. The Jupiter 32 delivers the ultimate in performance with an industry leading tracking capability of better than -159 dBm. The Jupiter 32 delivers location specific information, and extremely fast position fixes to even the smallest devices in the most challenging conditions including inside buildings, parking garages, shopping malls and other



indoor environments; inner city urban canyons; areas with dense foliage and in vehicles with UV-coated or athermic windshields. With a form factor that is about the size of a thumbnail, the Jupiter 32 combines advanced components with the SiRF GSC3 chipset in a package that is optimized for unmatched RF tracking capabilities and the fastest times to fix under all conditions.

Source: Navman  
Internet: [www.navman.com](http://www.navman.com)

## ArcGIS Image Server 9.2 Redefines Dynamic Imagery Distribution

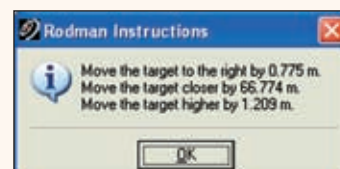
ArcGIS Image Server 9.2, ESRI's new solution for fast and dynamic image distribution, is now available. ArcGIS Image Server is particularly useful to users who need to deploy imagery enterprise-wide to a variety of clients, as well as those who perform dynamic imagery processing for better image visualization. Users can publish GIS-ready imagery directly to a large number of clients. In addition, server-based processing enables imagery to be quickly published as multiple image services.

ArcGIS Image Server is integrated with ArcGIS Server, which allows the data to be distributed to Web-based, mobile, and Open Geospatial Consortium, Inc-compliant (OGC) clients. In addition, users can publish seamless mosaicked image services from multiple image datasets directly to applications. These services can be published in different projections, enhancements, and representations, eliminating data redundancy and extra storage requirements. Metadata containing important image information such as acquisition date and sensor attributes is easily accessible.

Source: ESRI  
Internet: [www.esri.com/imageserver](http://www.esri.com/imageserver)

## Leica Cyclone 5.6 Adds Orthophoto and Stakeout Capabilities to Laser Scanning

Leica Geosystems announces Leica Cyclone 5.6 software. The new High-Definition Surveying software version now lets



users take advantage of laser scanners for popular orthophoto and stakeout workflows for surveying and mapping. These additions increase the versatility of laser scanning systems while also decreasing the cost of various surveying & mapping projects. Cyclone MODEL's texture mapping capability, which allows external digital photographs to be imported and applied (draped) accurately over point clouds, has been extended to support a powerful, new orthophoto output capability. Users can now take full advantage of Leica Cyclone's rich texture mapping and meshing capabilities to create and export a rectified image at a known scale. This lets CAD users precisely trace over the rectified image to create accurate 2D drawings. Long an everyday workflow of photogrammetry systems, this workflow is now seamlessly integrated into the powerful Cyclone 3D point cloud environment. Heritage building elevations with detailed surfaces, as-built of fine detail on plant machinery, and even top-down topographical mapping - as traditionally done with aerial photogrammetry - are all now possible with point clouds via Leica Cyclone. Cyclone SCAN 5.6 introduces a "first-in-the-market" stakeout feature for laser scanners. Until now, laser scanners were only used for mapping applications, not for stakeout. With the new version, Leica Geosystems HDS scanners equipped with dual-axis tilt sensing can be used for simple stakeout (or "setting out") operations.

Source: Leica Geosystems  
Internet: [www.leica-geosystems.com/hds](http://www.leica-geosystems.com/hds)

## Leica FCMS Now Supports Multiple Sensor Types



Leica FCMS Flight & Sensor Control Management System makes a flight-plan-controlled flight a simple task for the operator and pilot.

With Leica Geosystems' Flight & Sensor Control Management System (FCMS), GPS-based survey flights are efficiently controlled. FCMS performs all tasks, such as flight guidance, sensor recording and sensor monitoring, on a single man-machine interface, providing automated operation and minimized

user interaction. The hardware and software components are optimized for operating a great variety of airborne sensors. Leica FCMS Flight & Sensor Control Management System simplifies a flight-plan-controlled flight for the operator and pilot, guiding them through all phases. Knowing in-flight which lines are not yet flown or need to be re-flown for various reasons (such as clouds) is important. During flight execution, the operator and the pilot can independently select various views. In-flight evaluation allows flight execution progress and quality control checks. Leica FCMS stores all data required for post-flight mission analysis. This is essential for optimal management of aerial survey projects, especially for large projects using more than one aircraft. Leica FCMS is designed to support various airborne sensor types, as well as multi-sensor systems. Perfect integration of hardware and software into one single system is the key for very effective work. Consisting of high-quality airborne components, Leica FCMS optimizes sensor workflow from flight planning to data delivery.

Source: Leica Geosystems  
Internet: [www.leica-geosystems.com](http://www.leica-geosystems.com)



## Leica Geosystems Launches Leica SmartPole

Leica SmartPole adds a further tool to System 1200 Series, a complete surveying system that offers high flexibility and grows with demands. With Leica SmartPole, the coordinates and orientation are determined On-the-Fly whilst conducting the survey, using both GPS and TPS. With Leica SmartPole, both TPS and GPS are available at all times to ensure every point can be measured. Leica SmartPole is fully compatible with System 1200.

Source: Leica Geosystems  
Internet: [www.leica-geosystems.com](http://www.leica-geosystems.com)

## Matrox Graphics Unveils DualHead2Go Digital Edition

Matrox Graphics announced the DualHead2Go Digital Edition, the next version to the acclaimed DualHead2Go, now featuring digital outputs. This external multi-display upgrade device connects to the VGA output of compatible notebook or desktop computers and through patent-pending technology uniquely expands the desktop across two digital displays. DualHead2Go Digital Edition also enables support for high-resolution panels, offering a stretched desktop of up to 3840x1200 (or dual 1920x1200) across two displays. The Digital Edition of DualHead2Go enables the connection of two digital or analog displays to compatible notebook and desktop systems. In addition through the Matrox PowerDesk SE2 interface users benefit from the flexibility to select a wider range of resolutions, including support for both widescreen and standard aspect ratios. DualHead2Go Digital Edition includes support for Windows Vista, Windows XP,

Windows 2000, Windows XP-64 bit operating systems and Mac OSX, and is compatible with many professional and enthusiast class desktops and notebooks. A compatibility list is posted on the Matrox website. For complete details visit [www.matrox.com/graphics/en/gxm/products/dh2go/digital/home.php](http://www.matrox.com/graphics/en/gxm/products/dh2go/digital/home.php).

Source: Matrox Graphics Inc.  
Internet: [www.matrox.com](http://www.matrox.com)



## Leica Geosystems Geospatial Imaging Announces ArcGIS Extensions

Leica Geosystems Geospatial Imaging announces the latest Leica ArcGIS Extensions, Stereo Analyst for ArcGIS 9.2 and Image Analysis<sup>TM</sup> for ArcGIS 9.2. Stereo Analyst for ArcGIS is a stereo feature collection and update tool built on the ArcGIS platform. Requiring only the extension and ArcGIS itself, the software is designed to make it affordable for agencies and companies to deploy a number of licenses on workstations for users focused on feature extraction.

Source: Leica Geosystems Geospatial Imaging  
Internet: [www.gi.leica-geosystems.com](http://www.gi.leica-geosystems.com)

## Leica Geosystems Launches Leica SmartWorx



Leica SmartWorx, the Onboard Software for all Leica System 1200 instruments, offers a broad range of functionality to cover all kind of surveying tasks. SmartWorx provides a software suite with ease-of-use and performance for all the System 1200 instruments. This guarantees an easy, fast operating concept that leads the user straight to what he needs – independent from which instrument he uses. TPS1200, GPS1200, SmartStation as well as SmartRover and SmartPole, the newest member of System1200 Series, use this flexible Onboard Software. Operators can switch instantly between GPS and TPS and use whichever is the most convenient and suitable; extra training is not required.

Source: Leica Geosystems  
Internet: [www.leica-geosystems.com](http://www.leica-geosystems.com)

## Pictometry Announces Technical Advancements for GIS Professionals

Pictometry announced a number of new technical advancements of its software. Geographic Information System (GIS) departments can now utilize a number of new enhancements with Pictometry's Extension for ArcGIS. Pictometry's Extension for ArcGIS allows digital oblique imagery to be viewed and used inside a variety of ESRI products. The power of oblique imagery combined with the power of GIS all within the ESRI operating environment opens many doors for GIS professionals. The Pictometry Extension is available for ArcGIS/ArcMap 9.X and ArcIMS.

Source: Pictometry  
Internet: [www.pictometry.com](http://www.pictometry.com)

## Topcon Releases FC-200 Field Computer



Topcon Europe Positioning B.V. released the FC-200 field computer using an Intel X-Scale 520 MHz processor. With a mobile connection to the internet it is possible to e-mail jobs directly from the site. A removable battery pack provides up to 20 hours of operation. The FC-200 comes with the Windows CE operating system built in. A bright, color touch screen display makes the field data clear to view and easy to access. By connecting the Topcon FC-200 field computer to a cell phone, direct Internet access is just a click away. Get the latest mutations, on-line information or direct access to the office-server. Data is easily accessible via one of the two card slots; Compact Flash- and SD Media-slots are built in. Besides data-transfer via data-cards, direct serial and USB or Bluetooth makes it possible to communicate with any other device. The FC-200 has been designed to withstand tough field situations and outdoor conditions.

Source: Topcon Europe Positioning B.V.  
Internet: [www.topconeurope.com](http://www.topconeurope.com)

## Trimble Launches VX Spatial Station



Trimble introduced the Trimble VX Spatial Station, an advanced positioning system that combines optical, 3D scanning and video capabilities to measure objects in 3D to produce 2D and 3D data sets for spatial imaging projects.

The new Trimble VX Spatial Station revolutionizes the scope of services that surveyors, engineers, mapping and geospatial professionals can offer as well as provide them with an entry into spatial imaging applications to enhance business opportunities. The Trimble VX Spatial Station enables users to blend extremely accurate ground-based information with airborne data to provide comprehensive datasets for use in the geospatial information industry. The Trimble VX Spatial Station includes patented Trimble MagDrive servos, which spin the instrument with speed and agility—more than 100 degrees per second—to provide ultra-smooth control for precision pointing. The instruments efficient movement ensures minimal waiting time between measurements. The Trimble VX Spatial Station offers Trimble VISION technology, providing video streaming and image capturing capabilities. The technology streams digital images of a job site through a choice of data collection software, including the Trimble Survey Controller, Survey Pro or Trimble Survey Manager software running on the Trimble CU or TSC2 data controller, which saves time while measuring. Users can select target points for measuring

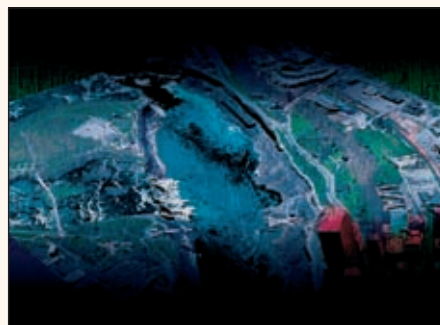
by tapping the controllers touch screen at the appropriate points in the video stream. This capability provides significantly improved efficiency for remote or coarse aiming measurements while using a crew's existing workflow. Trimble VISION technology includes a data overlay feature which enables users to view positioning data over a video display of the job site. Users can see in real-time what features have been measured before leaving a job site, giving them confidence that all required points have been measured, which reduces the potential for rework and duplication. In addition, digital images of the site are stored for quality assurance and for presentation purposes.

For applications such as 3D modeling and volume calculation, which demand large numbers of measurements, the Trimble VX Spatial Station includes a 3D scanning function—users can collect surface measurements and shapes (i.e. point clouds) very quickly. The scanning function is ideal for measuring large surfaces and volumes accurately; and scanned data can be easily combined with discrete point data.

With Trimble VISION technology, the Trimble VX Spatial Station produces data that can be used to generate high-quality visual deliverables in Trimble's RealWorks Survey office software. With the combination of pictures, surface measurements and discrete points, data recipients can easily see what points have been measured, what the measurement data represents as well as understand the data without losing their orientation, which can help to streamline review and approval of projects. The Trimble VX Spatial Station is expected to be available in the first quarter of 2007.

Source: Trimble  
Internet: [www.trimble.com/trimblevx.shtml](http://www.trimble.com/trimblevx.shtml)

## Optech Introduces DASHMap Data Processing Software



Optech introduces DASHMap, the latest data processing software development for Optech's Airborne Laser Terrain Mapper (ALTM) product line. DASHMap is Optech's next generation data processing software for airborne lidar data. With a vastly accelerated data acquisition-to-processing ratio, a simplified user interface with embedded 3D visualization, fully incorporated geodetic transformation and the total elimination of intermediate processing files, DASHMap is an advanced lidar point processing tool.

Source: Optech Inc.  
Internet: [www.optech.ca](http://www.optech.ca)

## NovAtel Launches New AdVance RTK Precise Positioning

Novatel has launched its new Real Time Kinematic (RTK) precise positioning solution – AdVance RTK. The system provides a significant technology advancement to the company's OEMV family of receivers through superior algorithms that enhance precision and performance. NovAtel's GNSS OEMV-2 and OEMV-3 receivers will now be available with the new AdVance RTK as part of the Version 3.100 firmware release. AdVance RTK delivers significant performance enhancements, including more reliable ambiguity solutions and faster narrow lane convergence on short, medium and long baselines. Time to ambiguity resolution on baselines up to 20 kilometers is virtually instantaneous. As a result, AdVance RTK enables users to work more reliably and efficiently in a wider range of conditions.

Source: NovAtel  
Internet: [www.novatel.com](http://www.novatel.com)

## Safe Software's FME Feature Data Source for Autodesk Users

Safe Software announced development of the FME Feature Data Source for Autodesk Map 3D, Autodesk MapGuide Enterprise, MapGuide Open Source, and Autodesk MapGuide Studio. FME Feature Data Source gives Autodesk's geospatial product users a seamless connection to dozens of FME-supported formats using open source Feature Data Objects (FDO) technology. In addition, these users can access value-added versions of their data on-the-fly, leveraging the powerful data transformation capabilities of FME Workbench workspaces saved as custom formats.

Source: Safe Software  
Internet: [www.safe.com](http://www.safe.com)