

# COMPANY SHOWCASE

SPRING 2017

Our regular 'Company Showcase' feature is the opportunity for suppliers of goods and services from all branches of the geomatics industry to acquaint readers with their latest offerings. Innovation is key to success in today's geomatics market place... one where traditional boundaries are being blurred by the latest trends in convergence and functionality, and it is vital that users can take advantage of these technological advances.

Surveying equipment now incorporates GNSS, GIS, Laser-based and communications, as well as optical capabilities to offer ever higher accuracy and greater local processing power at lower cost. Remote Sensing, in the widest sense, achieves new levels of resolution and precision from Laser, LIDAR, satellite, and aerial sensors, including those carried aboard a new generation of UAVs. The huge volumes of geodata captured by these and other sensors and devices are incorporated in ever more innovative information and location based services that support public and private sector decision makers at all levels, as well as citizens.

Look also for advances linked to the convergence between technologies, from CAD and BIM suites now incorporating GIS and decision support tools to smart phones used to collect and disseminate location-tagged data for commercial and citizen-oriented Open Source applications. For field use, consumers are now spoiled for choice with a wide variety of portable rugged and semi-rugged geodata collection devices based on PDA, tablet and notebook computers. And, of course, the advent of data and software as hosted services via the Cloud presents new challenges and opportunities for users everywhere.

This is an exciting decade for all sectors of the geomatics industry, with innovation powered by creativity, convergence and advances in several allied technologies. Watch this space to keep yourself up to date!

**Next Available Showcase:  
Autumn 2017  
(Published September)  
Entry Deadline: July 2017**

ASD

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A PANalytical Company



PANalytical

## Get more out of your imagery with ASD FieldSpec®

Ground-truthing is an essential step for interpreting unknown materials in multispectral and hyperspectral imagery.

ASD Inc., a PANalytical company, is the global leader in remote sensing and hyperspectral measurement solutions, providing unparalleled ground truthing results.



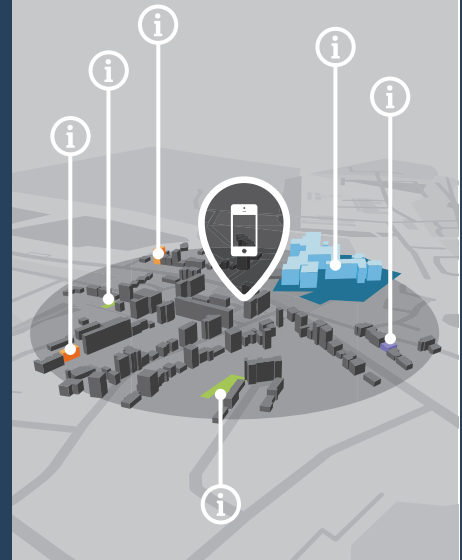
ASD FieldSpec® spectroradiometers generate high-quality field spectra at the required illumination and viewing geometry for accurate correlation to satellite and aircraft sensor data. Available in multiple configurations, FieldSpec spectroradiometers are compatible with popular image analysis software packages such as ENVI, ERDAS Imagine, and MultiSpec, allowing you to create detailed spectral libraries tailored to your application. Bringing a level of device portability that only ASD can provide, the FieldSpec helps provide increased accuracy to your results and optimization of your imagery software.

Trusted by top research experts at thousands of universities and research institutions, ASD's full-range spectrometers are used in more than 70 countries. For more information, please visit:

**ASD, Inc. a PANalytical Company**  
2555 55th Street, Suite 100  
Boulder, CO 80301  
Phone: 1 (303) 444-6522  
NIR.info@panalytical.com  
[www.asdi.com](http://www.asdi.com)

CADCORP

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## In web mapping, simplicity is the ultimate sophistication

Cadcorp's flagship web mapping product – **Web Map Layers** – is now even easier to use and includes on-line editing.

Web Map Layers 8.0 features a completely redesigned, responsive user interface; stripping it down to the bare essentials. Don't think for a moment that the product has become less powerful. We think that there is no place for complexity in a user interface.

You can judge for yourself by going to the on-line demonstrator at <http://cdcp.io/g>

**Web Map Layers 8.0. Sharing Local Knowledge™ on desktop, tablet and mobile devices.**

### Cadcorp

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**Vr Mapping continues to evolve.**

The Vr Mapping geospatial products provide fast data collection for engineering mapping. In VrOne®, VrTwo, and VrThree, vector data are collected from photographs, LiDAR, and Point Clouds in 2D, 2.5D, and 3D stereo environments. Imagery and point data sets can be viewed separately and synchronously.

Automatic tie point generation (VrAutoTie) and a new bundle adjustment (VrBundle) extend the capabilities of the aerial triangulation program (VrAt) and VrUAS. The Vr Mapping software can work with complicated geometries including UAS, oblique, high oblique, and close-range camera positions. A stand-alone camera calibration program is available to supplement the integration of UAS and other single lens cameras into the workflow. VrThree integrates LiDAR, point cloud, and DSM data into the VrOne® and VrTwo environments.

The VrOrtho package was rewritten for an easier to use workflow that clients report is 30% faster in production. The new interface is the same wizard style GUI used in the aerial triangulation (VrAt) and the new model set (VrModSet) programs. Orthophoto production is threaded, and mosaic seam lines and balance are automatic. Mosaics are created directly from images. Mosaic boundaries are user drawn and can be rotated which is very efficient for corridor mapping. GeoTIFs and world files are seamlessly compatible with ESRI software.

**Cardinal Systems**  
 info@cardinalsystems.net  
[www.cardinalsystems.net](http://www.cardinalsystems.net)



Carlson Software's new product releases include the Carlson BRx6 – a multi-frequency GNSS Smart Antenna. The lightweight and intuitive BRx6 can be used as a Base or Rover on demand, with multiple wireless options including Bluetooth and Wi-Fi. A state-of-the-art GNSS RTK engine enhances performance, complemented with SurvCE/SurvPC for familiarity and productivity. RTK options include Carlson's Listen-Listen for Base/Rover via GSM, traditional RTK Network via GSM, and local Base/Rover via the integrated UHF transceiver.

Combined with SurvCE/SurvPC and the Esri OEM engine, users work in a GIS environment, with wireless interface to a wide range of GNSS receivers and Total Stations. A seamless presentation of position data and GIS from SurvCE/SurvPC in the field, provides an efficient method for Survey and GIS applications to ensure survey quality. Up to 64 GB of raw data may be recorded for post processing with Carlson's SurveyGNSS.

For more information, visit [www.carlsonsw.com](http://www.carlsonsw.com)

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**How to Get the Most Out of a Tiny Marketing Budget**

Okay, I know this sounds crazy, but... (Wait for it...)

Sometimes, just having a very limited marketing budget to work with can actually be a godsend.

No really, I'm serious!

I know what you're thinking: But Elaine, this is your profession! Aren't you supposed to be persuading me to hand over as much money as possible, so you can work your magic?

Well, no, actually. That's the last thing I want you to do.



Really?

Find out more here [www.elaineball.co.uk/campaigns](http://www.elaineball.co.uk/campaigns)

**EBTM Ltd**  
**Geospatial Marketers**  
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## EOS POSITIONING

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**EOS POSITIONING SYSTEMS**  
Professional Bluetooth GNSS Receivers  
for your Professional Needs



**ARROW 200**  
1 cm RTK



**ARROW GOLD**  
1 cm RTK with aRTK B Atlas



**ARROW LITE**  
Submeter GPS



**ARROW 100**  
Submeter E Subfoot GNSS

### Eos offers the world's most advanced, palm-sized GNSS receivers for iOS, Android and Windows.

The Arrow GNSS receiver product line is a complete line of high-accuracy Bluetooth receivers from sub-meter to decimeter and centimeter. All of the Arrow receivers deliver accuracy in real-time, anywhere in the world.

The Arrow GNSS receivers are compatible with Apple iPads, iPhones, Android and Windows smartphones, tablets, notebook and desktop computers.

Our products support GPS, Glonass, BeiDou and Galileo for improved performance in difficult environments such as under trees and near buildings.

All Arrow products are built to survive outdoors. They are waterproof and dustproof with an IP-67 rating. The rechargeable battery pack lasts from 9 to 16 hours depending on the model and is field replaceable.

**Visit us at: Esri UK 2017 Annual Conference, May 16, London**

#### Eos Positioning Systems

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e-mail: info@eos-gnss.com  
[www.eos-gnss.com](http://www.eos-gnss.com)

## GENEQ

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### SXBlue

#### Pioneer of the real-time sub-meter GNSS Receiver

GENEQ inc. is the developer and manufacturer of the popular SXBlue GNSS family of GPS receivers. With revolutionary technology, these mapping-grade receivers are the first to achieve sub-meter accuracy in real time without post-processing.

The SXBlue receiver connects via Bluetooth to all Smartphones, PDAs, Tablets and Notebooks and is compatible with most software such as ArcGis, Carlson Surveyor, MicroSurvey FieldGenius, Essri Collector, etc.

The SXPro is an all-in-one professional-grade GNSS and RTK Data Collector. The SXPro RTK all-in-one handheld receiver delivers the quickest and most reliable RTK initializations for 1-2 cm accuracy.

Both the SXBlue and SXPro are specifically designed for mobile survey and GIS users working in the water, electric and gas utilities, transportation, mining, agriculture and forestry fields.

Geneq also offers a new generation of full function GNSS Receivers.

Multi-satellite constellation and 30 degree tilt are just two of the key features of the G10 smart antenna.

#### GENEQ inc.

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[www.sxbluegps.com](http://www.sxbluegps.com)

## HANDHELD

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# handheld



The all new ALGIZ 8X ultra-rugged tablet comes with an 8-inch capacitive touchscreen and has rain- and glove mode. Learn more at [www.handheldgroup.com/ALGIZ-8X](http://www.handheldgroup.com/ALGIZ-8X)

### Rugged Computers for Tough Environments

Handheld Group is a manufacturer of ultra-rugged tablets and handhelds that can withstand water, dust, shock and extreme temperatures.

Together with a strong network of reselling partners Handheld supply rugged computers to a wide area of field applications, often in the most demanding environments.



The NAUTIZ X2 is a true all-in-one: a rugged computer, a scanner, a camera and a 4G/LTE Android phone.

Handheld has local subsidiaries worldwide and online product information in several different languages.

#### Meet us at:

**B-APCO Booth A3**  
21-22 March 2017, Telford, UK

**ELMIA Wood**  
7 - 10 June 2017, Jönköping, Sweden

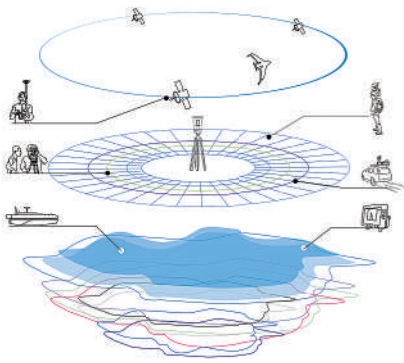
**ESRI User Conference**  
10 - 14 JULY 2017, San Diego, USA



**Handheld Group AB**  
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info@handheldgroup.com  
[www.handheldgroup.com](http://www.handheldgroup.com)

# HI-TARGET

*Surveying the World, Mapping the Future*



## Beyond the Past, Towards the Future

HI-TARGET is a professional high-precision geographic instrument manufacturer and surveying solution provider in GPS/GNSS, photoelectric surveying, GIS data managing, marine surveying, 3D laser scanning, BDS high-precision applications, precision agriculture, precision machine control and more.

At present, we have established 13 subsidiaries, 28 branch offices and currently employ more than 2,000 employees including over 500 engineers. Every year, we keep innovating by investing more than 10% of our overall turnover into R&D research and working with famous universities to develop solutions through scientific research.

Working closely with authorized global and regional distributors and establishing Hi-Target technology, logistics and maintenance center in global key regions, we provide international and localized service and make sure that your needs are fulfilled in the right place, at the right time.

**Meet us at InterGeo 2017,  
Hall A1, C1.061  
26-28th, September, Berlin, Germany**

**Hi-Target Surveying Instrument Co., Ltd.**  
Building 13, No. 555 North of Panyu Rd,  
Panyu District, Guangzhou, China  
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info@hi-target.com.cn  
[www.hi-target.com.cn](http://www.hi-target.com.cn)

# JUNIPER<sup>®</sup>

systems

## NEW from Cedar™ with Android® 6.0

### Collect Data Outdoors

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# LASER<sup>™</sup> TECHNOLOGY

Measurably Superior<sup>®</sup>



LTI's laser rangefinders integrate with GPS/GNSS devices and GIS software for a more efficient data collection experience. Remotely position features while measuring and recording additional attribute data such as heights, widths and clearance values. Capture more data in less time.

**MapSmart<sup>®</sup> on Android** brings you the next generation of GIS mapping. LTI's field data collection software combines all of the mathematics and technology required to map features with a smart device with an option to use external antennas for better positioning. Laser mapping is now as easy as using a smartphone app.

**TruPoint™ 300** matches the accuracy found in high end total stations for a fraction of the size and cost. Take advantage of the 4-power zoom camera and red-dot targeting to collect just the points you need.

**TruPulse<sup>®</sup> Lasers** are the most popular professional-grade lasers in the world for field measurements and mapping. TruPulse<sup>®</sup> 360 features a compass to calculate azimuth values; ideal for integrating with GPS/GNSS.

**Visit us at GEO Business**

**Laser Technology, Inc.**  
Tel: +1.303.649.1000  
[your.lasertech.com/GIS](http://your.lasertech.com/GIS)

when it has to be **right** **Leica**  
Geosystems



Revolutionising the world of measurement and survey for nearly 200 years, Leica Geosystems creates complete solutions for professionals across the planet. Known for premium products and innovative solution development, professionals in a diverse mix of industries, such as surveying and engineering, safety and security, building and construction, and power and plant, trust Leica Geosystems to capture, analyse and present smart geospatial data. With the highest-quality instruments, sophisticated software and trusted services, Leica Geosystems delivers value every day to those shaping the future of our world.

Leica Geosystems is part of Hexagon (Nasdaq Stockholm: HEXA B; hexagon.com), a leading global provider of information technologies that drive quality and productivity improvements across geospatial and industrial enterprise applications.

ConExpo/ConAgg  
Booth # N-12867 in the North Hall.  
Las Vegas, USA  
March 7-11, 2017

SPAR  
Booth # 501  
Houston, USA  
April 3-5, 2017

HxGN LIVE  
Las Vegas, USA  
June 13-16, 2017

INTERGEO  
Booth A1.024, Hall 1.1  
Berlin, Germany  
September 26-28, 2017

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**MicroSurvey**

**MicroSurvey**  
**FIELDGenius<sup>9</sup>**

**MicroSurvey FieldGenius<sup>®</sup>, is the most powerful graphics based surveying data collection software available.**

Add a unique visual perspective to your workflow. Experience code-free linework, eliminating the need for special line coding. Easy pickup and stakeout workflows allow you to maximize your efficiency, enabling you to do more work in less time.

Multi-brand instrument drivers ensure support for the latest hardware from the most popular global manufacturers of GPS and Total Stations, giving you options and not locking you down to a single brand. Multiple platform support allows users to take advantage of the latest high power, high definition display devices and tablets.

Download your free FieldGenius 9 evaluation copy today to become familiar with the latest tools that will revolutionize the way you perform your field work.

**Join us at Geobusiness 2017**

**Location: London, England**

**Date: May 23-24**

**MicroSurvey Booth: J13**

**MicroSurvey Office**  
MicroSurvey Software Inc.  
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V4T 3C1

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Phone: (250) 707-0000  
[www.microsurvey.com](http://www.microsurvey.com)

**PHASEONE**  
**INDUSTRIAL**

**Medium format, metric cameras for aerial photography.**



Phase One Industrial is a market leader in research, development and manufacturing of integrated medium format camera systems designed from the ground up exclusively for aerial photography.

Developed with leading experts and engineers in the field, Phase One aerial cameras offer exceptional accuracy, image quality and coverage that rival large format cameras at a fraction of the price.

With a product line of cameras, lenses and a powerful controller complete with software, compatibility with leading flight management systems and GPS receivers, Phase One provides a comprehensive solution that meets the exacting needs of aerial photography and streamlines the entire capture and processing workflow.

Built for use on everything from small UAVs to large manned aircraft, Phase One aerial cameras are easily integrated into existing or new setups. Phase One cameras offer reliability and versatility for users looking for a full-featured medium format aerial camera.

**Phase One Industrial**  
Roskildevej 39  
DK-2000 Frederiksberg  
Denmark  
Phone: +45 36 46 0111  
<http://industrial.phaseone.com>



**Waveform-LiDAR**

**Highly Accurate AND Highly Informative Laser Scan Data**

Based on Waveform-LiDAR technology, RIEGL's high-performance LiDAR sensors and systems provide extremely high measurement rates to acquire dense point clouds with high ranging accuracy, low range noise, and high precision. Multi-target resolution is the basis for penetrating even dense foliage. True 3D information, as well as DTM, can be generated simultaneously. Additional pulse shape information allows for advanced filtering to eliminate points not needed and to dramatically improve the informative content of point clouds.

Come see the latest RIEGL product developments such as the **VZ-400i 3D Laser Scanning System**, the **miniVUX-1 UAV LiDAR Sensor**, and the **VQ-1560i Dual Channel Airborne Laser Scanning System** at our exhibitions worldwide.

Upcoming event:

**SPAR 3D Expo & Conference**  
**April 3-5, 2017**  
**Booth No. 5**

The RIEGL team looks forward to meeting you there!

**RIEGL Laser Measurement Systems**  
 Riedenburgerstrasse 48  
 3580 Horn, Austria  
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[www.riegl.com](http://www.riegl.com)



**WHY TOPCON**

Topcon is the global positioning partner for construction and geo-businesses in the UK and Ireland, offering precision technology that delivers increased efficiency across the workflow. With tailored support across a number of specialisms, including surveying, civil engineering, machine operation, Building Information Modelling and education, Topcon helps professionals to work smarter.

From Japanese origins, Topcon first came to our shores in the 1980s and has since become a well-established name in the construction and geospatial industries. With offices from Newbury to Dublin and a network of dealers reaching across the UK and Ireland, Topcon supplies a range of reliable, robust and easy to use equipment to meet the demands of construction and geo-businesses.

Topcon equipment is compatible with all site conditions and is easy to manage through real-time, remote monitoring. With a five-year warranty on all lasers, a total station management system that provides asset tracking and remote diagnostics and local support for all its customers, Topcon offers added security and dependable technology to avoid downtime on site.

**Topcon**  
[www.topconpositioning.co.uk](http://www.topconpositioning.co.uk)  
 0845 450 4300



Traverse PC continues 30 years of being the Innovation Leader in land surveying software in 2017.

Because we aren't restricted by the problems of using a traditional CAD engine for drawings, we are able to focus on the tools that surveyors everywhere use every day! In 2017 we have added support for all units of measure as well as unlimited automatic labeling options and more.

We can't say enough about our proprietary Quick View™ Technology. Draw everything the same using templates and stored settings, or choose settings for individual traverses and you have a very sophisticated drawing without ever drawing a thing yourself.

TPC has used Quick View™ since its inception in 1987. Now, millions of drawings later, it is still the leader for survey drawings because it works like surveyors do.

And of course, we provide all of the decision making tools and precision that you need every day. With a full suite of COGO, closure and adjustment tools and an easy interface, you can do all of your survey computing and drawing in TPC. Of course you can always send to and receive files from those poor individuals who are tied in to using traditional CAD.



**Traverse PC**  
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[traverse-pc.com](http://traverse-pc.com)



### Introducing the latest innovative solutions from Trimble

Trimble® SX10 Scanning Total Station merges high-speed 3D scanning, enhanced Trimble VISION™ imaging technology and high-accuracy total station measurements into familiar field and office workflows for surveyors. The innovative solution provides surveyors and geospatial professionals with capabilities and versatility to handle projects from traditional surveys to complex 3D modeling.

Trimble® Catalyst, a software-defined Global Navigation Satellite System (GNSS) receiver that works with select Android mobile handhelds, smartphones and tablets. When combined with a small, lightweight, plug-and-play digital antenna and subscription to the Catalyst service, the receiver provides on-demand GNSS, geo-location capabilities to transform consumer devices into high-accuracy mobile data collection systems.

#### Come see us at our booth during the following upcoming events:

Feb 13-15 ILMF, Denver, CO Booth # 97

Mar 4-6 Esri Partner Conference, Palm Springs, CA Booth #137

Mar 7-10 Esri Developer Summit, Palm Springs, CA No booths

Mar 12-16 IGTF (ASPRS), Baltimore, MD Booth #306

Apr 2-5 SPAR 3D Expo, Houston, TX Booth #407

**Trimble Inc.**  
10368 Westmoor Drive  
Westminster, CO 80021  
720-887-6100  
[geospatial@trimble.com](mailto:geospatial@trimble.com)



Vexcel Imaging, based in Graz (Austria), offers state-of-the-art sensor and software solutions based on the latest and most-advanced technology.



The comprehensive digital aerial camera portfolio provides a wide range of imaging capabilities from wide-area mapping (UltraCam Condor) to nadir (UltraCam Eagle & UltraCam Falcon) and oblique (UltraCam Osprey product line) camera systems. On the terrestrial side, the car-based mobile mapping system UltraCam Mustang allows to capture the world from a street-level perspective. For off-road collection, it can be complemented with the UltraCam Panther portable 3D reality system (currently under redesign). Rounding out the UltraCam offerings is the fully integrated workflow processing software UltraMap that delivers exceptional quality point clouds, DSMs, ortho imagery and 3D textured TINs leading to an optimal output in all of the numerous areas of applications of the UltraCam product family.

See us at GEOBusiness 2017 (Booth J16)

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### Reaching new levels

Zoller + Fröhlich (Z+F) is one of the world's leaders in 2D and 3D laser measurement technology and continues to develop innovative solutions for the surveying industry.

The new Z+F IMAGER® 5016 combines compact and lightweight design with state-of-the-art laser scanning technology - allowing the user to reach new levels. The new phase-based laser scanner is equipped with an integrated HDR camera, internal lighting and a positioning system for automatic and targetless registration in the field - already proven from its predecessors, the Z+F IMAGER® 5010C and the Z+F IMAGER® 5010X. However, all components have been further developed and adjusted to the new design, resulting in even better scanning results and a more efficient workflow.

Please contact your local Z+F partner for details.

For further information on events and where to meet us in 2017, please visit our company website [www.zf-laser.com](http://www.zf-laser.com).

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