

PRODUCT SHOWCASE

GEOCONNEXION LOOKS AT THE LATEST IN GEOMATICS PRODUCTS

THE NEW ULTRACAM PANTHER INTRODUCED

1

Vexcel Imaging announced the new **UltraCam Panther**, a versatile portable platform that carries complementary sensors to capture full-spherical imagery and video, dense 3D LiDAR point clouds and precise trajectory information in both indoor and outdoor environments. The UltraCam Panther's panoramic head holds 26 cameras to capture very high resolution still imagery or video with a 360-degree field of view. A multi-beam rotating LiDAR sensor simultaneously collects precise 3D data. A visual odometry sensor offers a custom-built software solution that delivers uninterrupted accurate trajectory data where no GNSS signals are present. The design allows the system to be equipped with sensors offering differing capabilities to accommodate each customer's needs. All sensors are synchronized and time-stamped, providing precise registration between the LiDAR data and imagery. The ability to collect very high-resolution photogrammetric-grade images and video, georeferenced with dense LiDAR point clouds, makes the UltraCam Panther a distinctive mobile mapping platform. www.vexcel-imaging.com

SPIRENT HELPS CIVIL AVIATION INDUSTRY RESPOND TO GNSS INTERFERENCE THREATS

2

Spirent Communications plc, announced the new **GSS200D Interference Detector** solution that enables the civil aviation industry to evaluate the growing threat of GNSS interference, jamming and spoofing. As skies and airports become more congested, there is increasing pressure on airports to be safely accessible at all times – which cannot be achieved by relying solely on non-precision approaches with high minimums or on today's expensive and rigid ground-based infrastructure such as ILS (Instrument Landing Systems). Spirent's new GSS200D solution monitors the radio bands used by **European Geostationary Navigation Overlay Service (EGNOS)**, as well as other GNSS augmentation systems such as the Wide Area Augmentation System (WAAS) or the GPS Aided Geo Augmented Navigation system (GAGAN), to ensure awareness of interference that could compromise positioning information. The new Spirent solution has been trialled at a number of European airports, and has collected numerous interference signatures. www.spirent.com

GARMIN INTRODUCES THE VIRB 360

3

Garmin International Inc. introduces the versatile **VIRB 360**, a compact, rugged and fully spherical 360-degree camera. The waterproof¹ VIRB 360 is an easy-to-use camera that captures impressive high-quality video up to 5.7K/30fps, with four built-in microphones to ensure everything sounds as good as it looks in any direction. Whether users are kayaking down river rapids or mountain biking through rough terrain, the VIRB 360's 4K Spherical Stabilization² makes every video smooth and steady. With the VIRB 360, users capture video with automatic in-camera stitching up to 4K/30fps. Videos are easily uploaded for editing or sharing instantaneously. Taking advantage of its built-in GPS and numerous other sensors, the VIRB 360 provides owners with customizable G-Metrix™ data overlays in a captivating 360-degree augmented reality³ setting. A free downloadable **VIRB Mobile app** and desktop software to edit, stabilize, share and add data overlays makes the VIRB 360 easier to use than most other 360 cameras. www.garmin.com

LEICA GEOSYSTEMS' NEW 3D IMAGING LASER SCANNER NOW AVAILABLE

4

Leica Geosystems announces its award-winning **BLK360 miniaturised 3D imaging laser scanner**. The laser scanner simplifies the collection of as-built reality capture data for work in architecture, design, construction and engineering among other vertical markets. Users simply place the lightweight BLK360 on a level surface or tripod and, with the push of a single button, it captures 360° HDR spherical imagery and takes a 360,000 point per second laser scan. Getting measurements right the first time, the BLK360 features +4mm accuracy at 10 metres and an overall 0.6 - 60 metre range. Within three minutes, the spherical image and laser scan is completed and ready to view in the Autodesk® ReCap™ Pro for mobile app, which runs on an iPad Pro. From there, users can take measurements, add markup and annotations or share onsite data with their colleagues back in the office. www.leica-geosystems.com

