PRESSRELEASE

INTERGEO 2021 LIVE + DIGITAL, September 21-23, 2021:

RIEGL presents their New Products 2021

For Immediate Release
HORN, Austria
September, 2021

INTERGEO is back LIVE in Hanover this year – and *RIEGL* presents the latest developments in hardware and software at booth 20C.22 in hall 20 but also digital at the *RIEGL* Online booth.

Don't miss to get informed on the new *RIEGL* products and find out on how this exciting news in Ultimate LiDAR Technology™ can help you and your business!

For the **UAV-based LiDAR** market, *RIEGL* presents a new sister type to the miniVUX-UAV series, the ***RIEGL* miniVUX-1LR**. This miniaturized, extremely lightweight and compact (1.55 kg/3.42 lbs) online waveform processing LiDAR sensor now enables operating flight altitudes of up to 820 ft and measuring ranges of up to 500 m/1640 ft. A full 360° field of view, a laser pulse repetition rate of 100 kHZ, and the optional integration of up to 2 cameras are further features that increase efficiency in the field. With this sensor and its improved longer-range performance, surveyors will efficiently meet the specific demands in challenging UAV applications, such as measurements of inaccessible canyons and open-pit mines.

For **airborne laser scanning** – using manned or unmanned platforms - *RIEGL* shows off with the upgrade of their well-established VUX-1 Series – the **VUX-1LR^{22}** and the **VUX-1UAV^{22}**. The small and compact online waveform processing laser scanners offering a full field of view of 360° are now available with increased Laser Pulse Repetition Rates of up to 1500 kHz for the VUX-1LR^{22} and up to 1200 kHz for the VUX-1UAV^{22}. This results in measurement ranges of up to 1845 m/6050 ft and operating flights of up to 1050 m/3440 ft for the VUX-1LR^{22} respectively measurement ranges of up to 1415 m/4640 ft and operating flights of up to 800 m/2640 ft for the VUX-1UAV^{22} and offers new possibilities for diverse applications. Lower minimum ranges allow to capture even closer targets. With the integration of up to 4 cameras, further possibilities are enabled. Their high performance and engineering grade mapping capabilities result in improved efficiency and usability; multi-purpose integration is supported by extreme flexibility.

Further information:
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For the **airborne LiDAR** market, the ***RIEGL* VQX-1 Wing Pod** *RIEGL* now provides a freely configurable, fully integrated airborne laser scanning solution for user-friendly installation and straightforward application with fixed-wing aircraft. EASA STC certification for the entire current Cessna Single Piston Engine series is in progress and will be available soon.
The versatile pod is designed to carry one *RIEGL* laser scanner (VQ-480II, VQ-580II, VUX-240, or VQ-840-G) as well as up to three high resolution cameras (e.g., Phase One iXM 100) and an appropriate IMU/GNSS unit (e.g., Applanix AP60).
The robust and reliable wing pod of uncompromising lightweight construction is a perfect tool for a really broad range of applications, from corridor mapping and city modeling to forestry, glacier and snowfield mapping, and also flood zone mapping.

For **mobile laser scanning**, the ***RIEGL* VUX-1HA^{22}** laser scanner with its increased Laser Pulse repetition rate of up to 1800 kHz and a resulting measurement rate of up to 1,800,000 measurements/sec boot the performance of *RIEGL*'s mobile mapping systems. So, the *RIEGL* VMX-2HA Dual Scanner Mobile Mapping System now delivers measurement data with extremely small point spacing and extremely high point density resulting in a point cloud of outstanding quality.

Additionally, with the ***RIEGL* VMY-1** a very compact and light-weight (approx. 8 kg/ 17.6 lbs) Single Scanner Mobile Mapping System of smallest dimensions is available now for basic mobile mapping applications.
Based on a *RIEGL* miniVUX-Series LiDAR sensor, the system provides 100 scan lines / second and up to 200 kHz Pulse Repetition Rate. Up to four cameras (DSLR camera(s) and/or a spherical camera) can optionally be integrated. The innovative design enables folding for convenient transport and space-saving storage.

RIEGL's Terrestrial Laser Scanning System VZ-400i is presented as part of the new **VMR Robotic Rail Scanning System**. As sensor part of the extremely compact and robust solution for railroad surveying, the *RIEGL* VZ-400i provides high-resolution scan data for applications like the high detail survey in construction site operations, the verification of rail clearance, or the surveying of railroad tunnels and subways. In Stop & Go mode, it performs up to 50 scans/hour. These single scanning positions are registered fully automatically onboard with high precision. Optionally, high-resolution calibrated photos are taken in parallel. The georeferenced point clouds are prepared for exportation to third-party rail processing software packages.

No matter, if you are onsite in Hanover or if you visit the *RIEGL* online booth – *RIEGL* is looking forward to meeting you and to discussing all the exiting news in Ultimate LiDAR Technology™ with you!

And don't miss to register for the ***RIEGL* Newsroom** – the source for everything *RIEGL*. So, you will always get informed on the latest news and updates!

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RIEGL miniVUX-1LR UAV LiDAR Sensor

RIEGL VUX-1Series[22] Laser Scanner

RIEGL VQX-1 Wing Pod

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RIEGL VMR Robotic Rail Scanning System

RIEGL VMY-1 Single Scanner Mobile Mapping System

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About *RIEGL*:

RIEGL is an international leading provider of cutting-edge technology in airborne, mobile, terrestrial, industrial and unmanned laser scanning solutions for applications in surveying.

RIEGL has been producing LiDAR systems commercially for over 40 years and focuses on pulsed time-of-flight laser radar technology in multiple wavelengths.
RIEGL's core Smart-Waveform technologies provide pure digital LiDAR signal processing, unique methodologies for resolving range ambiguities, multiple targets per laser shots, optimum distribution of measurements, calibrated amplitudes and reflectance estimates, as well as the seamless integration and calibration of systems.
RIEGL's Ultimate LiDAR™ 3D scanners offer a wide array of performance characteristics and serve as a platform for continuing *Innovation in 3D* for the LiDAR industry.
From the first inquiry, to purchase and integration of the system, as well as training and support, *RIEGL* maintains an outstanding history of reliability and support to their customers.
Worldwide sales, training, support and services are delivered from *RIEGL*'s headquarters in Austria; main offices in the USA, Japan, China, Australia, Canada and the UK; and a worldwide network of representatives.

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