

2010-01-08

Product News

**RIEGL introducing new
Airborne Laser Scanner LMS-Q680i**

With 266,000 measurements at the ground, this "Innovation in 3D" provides unrivaled point density performance

RIEGL Laser Measurement Systems GmbH www.riegl.com, leading manufacturer of 3D laser scanners, is pleased to announce for immediate delivery its latest state-of-the-art airborne laser scanner **RIEGL LMS-Q680i** with an unmatched **laser pulse repetition rate of 400 kHz**, providing an effective measurement rate of up to **266,000 coordinates per second**.

*"The new LMS-Q680i offers the established industry-leading echo digitization for **in-depth full waveform analysis**, now smoothly combined with **multiple-time-around signal processing**. This combination allows the user to benefit from the high pulse rate also from high flight altitudes and thus to achieve high measurement densities on the ground"* said Dr. Andreas Ullrich, CTO at RIEGL Laser Measurement Systems GmbH.

A high scan rate of up to 200 lines per second at a constant 60 degrees field of view provides an evenly distributed point pattern of highest resolution for various applications like e.g. **city modeling, power line monitoring, and even large area and flood plain mapping**. With its specific **multiple target capability** the RIEGL LMS-Q680i airborne laser scanner is the first choice for forestry and DEM model generation applications.

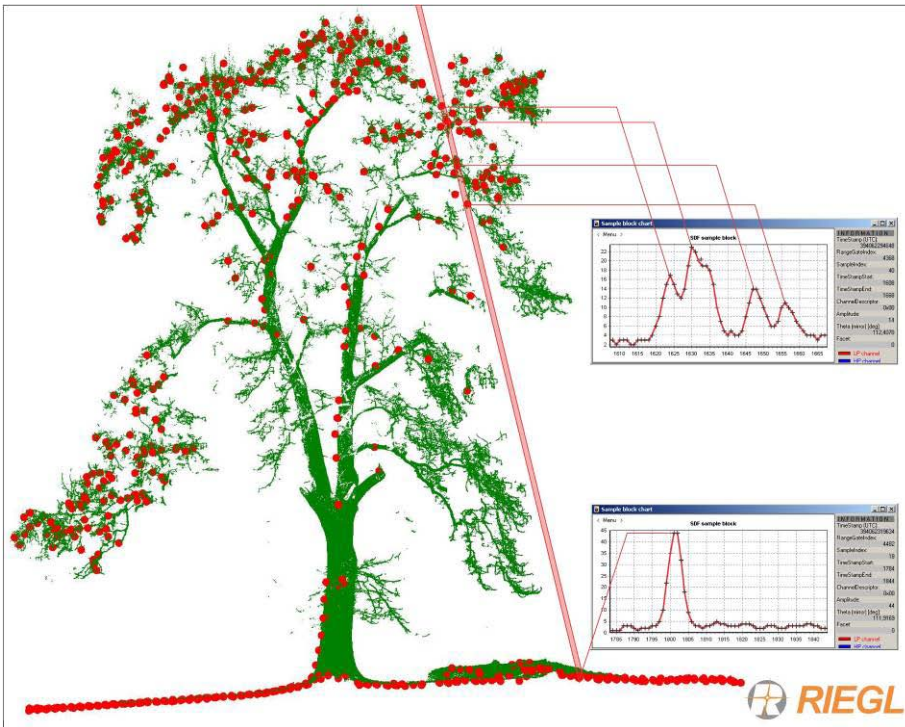
For the RIEGL LMS-Q680 airborne laser scanners with 240 kHz pulse repetition rate already delivered (detailed product specifications to be found at www.riegl.com/products/airborne-scanning) an update to 400 kHz is available.

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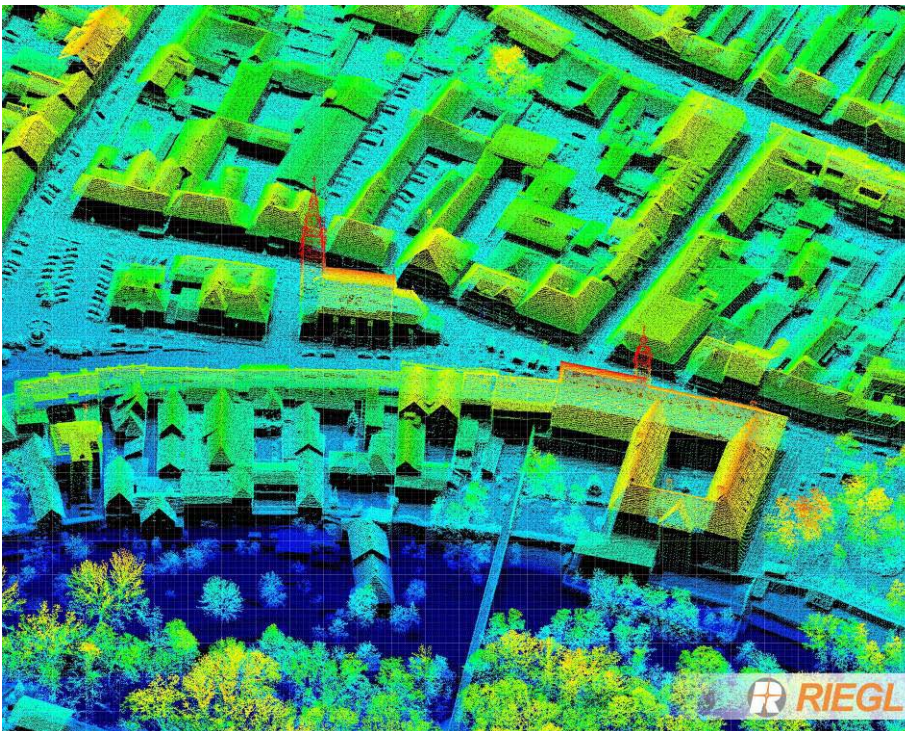
Further information:

RIEGL Laser Measurement Systems GmbH, A-3580 Horn, Riedenburgstraße 48
Phone: +43 2982 4211, Fax: +43 2982 4210, e-Mail: office@riegl.co.at

www.riegl.com



Multiple-target capability shown by red dots and by digitized echo signal. Green background: terrestrial laser scan of the same tree.



High point density (>50 pts/m²) achieved with RIEGL LMS-Q680i flown on fixed-wing airplane (altitude 550 m AGL, speed 90 knots)

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