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## **SCHIEBEL CAMCOPTER<sup>®</sup> S-100 – SUCCESSFUL INTEGRATION WITH RIEGL'S NEW VQ<sup>®</sup>-820-GU HYDROGRAPHIC AIRBORNE SCANNER**

**Vienna, 20 December 2012 – Schiebel and Riegl Laser Measurement Systems GmbH are proud to announce the successful integration of the Schiebel CAMCOPTER<sup>®</sup> S-100 Unmanned Air System (UAS) together with the Riegl VQ<sup>®</sup>-820-GU Hydrographic Airborne Sensor. This successful integration marked the first time that this new airborne sensor was flown on board of a UAV.**

The S-100 helicopter UAS carried a special Schiebel-made composite pod containing the sensor, the IMU-GNSS unit, the data recording and transfer unit as well as a digital camera, during the flight tests in Grossmittel, Austria, which were carried out this month. This fully integrated system thus enables acquisition of high-accuracy hydrographic and topographic data, even in critical operational areas.

The Riegl VQ<sup>®</sup>-820-GU is specifically designed to survey sea beds, the grounds of rivers or lakes and is well suited for combined land and hydrographic airborne survey. Fields of application include mapping of coastal lines, lakesides and river banks as well as mapping of archaeology and cultural heritage.

These fields of applications require repetitive surveying of inshore waters and are usually carried out by manned helicopters. The advantage of using the unmanned CAMCOPTER<sup>®</sup> S-100 UAS over manned helicopters are that the system is uniquely capable of penetrating areas that may be too dangerous for piloted aircraft or ground patrols. This can provide additional safety and security for its users. Constant real-time information is acquired 24/7 without any need for prepared area and launch and/or recovery support equipment, due to the integrated system's powerful surveillance capabilities. This drone system operates day and night, under adverse weather conditions, with a beyond line-of-sight capability of up to 200 km, both on land and at sea. The S-100 UAS is also far more cost-effective than any manned alternative.

These clear advantages and complete integration of the Riegl VQ<sup>®</sup>-820-GU and the Schiebel CAMCOPTER<sup>®</sup> S-100 UAS provides a new and innovative solution for airborne scanning to be done with unmanned aerial vehicles.

Dr. Johannes Riegl, Riegl CEO, commented, "We are proud to have succeeded with this first integration of our bathymetric laser scanner with the Schiebel UAV. This high-end solution proves again Riegl's strive for excellence with delivering outstanding, market leading solutions".

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Hans Georg Schiebel, Schiebel Industries AG director, commented, "The combination of this extraordinary powerful and precise laser scanner in combination with the S-100 allows swift and accurate mapping of remote areas and will prove valuable in applications such as for mining, exploration and construction".

For further information, please contact:

Andrea Blama  
Tel: +43 (1) 546 26-44  
Email: [pr@schiebel.net](mailto:pr@schiebel.net)  
[www.schiebel.net](http://www.schiebel.net)