

# SCHIEBEL PRESS

## **SCHIEBEL CAMCOPTER® S-100 – SUCCESSFUL INTEGRATION WITH THE FLIR SYSTEMS POLYTEC AB CORONA 350 SENSOR**

Vienna, 5 September 2013 – Schiebel and FLIR Systems Polytec AB are proud to announce the successful integration of the Schiebel CAMCOPTER® S-100 Unmanned Air System (UAS) with the CORONA 350 Airborne Sensor. This successful integration marked the first time that this airborne sensor was flown on board a UAV.

The Schiebel CAMCOPTER® S-100 has carried out a series of successful test flights in Grossmittel, Austria, to fully evaluate the combined capability of both systems.

The Corona 350 is a four axis gyro-stabilized gimbal containing four different cameras including an ultraviolet camera for corona detection, a thermal imaging camera for detecting hot-spots in power lines, a visual light camera and a digital frame camera.

What makes the Corona 350 unique is its ability to overlay its ultraviolet and color TV video data to create a combined image that allows operators to detect and identify coronal discharges – areas of ionized air – that are known to damage power line insulators and other electrical components.

The powerful combination of the Schiebel S-100 and the FLIR Corona 350 allows to carry out aerial inspections quickly and efficiently. Additionally it is the perfect method of reducing costs making it an ideal solution for utility companies to perform inspection and maintenance of transmission lines, distribution networks and substations.

This application typically requires repetitive surveying of power lines and is usually carried out by manned helicopters or ground patrols. The advantage of using the unmanned CAMCOPTER® S-100 UAS over manned helicopters are that the system is uniquely capable of operating without any need for a prepared operating area, with up to 10 hours of endurance and line of site ranges out to 200kms, making the S-100 far more cost-effective than any manned alternative.

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## About Schiebel:

Founded in 1951, the Vienna-based Schiebel Group of companies focuses on the development, testing and production of state-of-the-art mine detection equipment and the revolutionary CAMCOPTER® S-100 Unmanned Air System (UAS). Schiebel has built an international reputation for producing quality defense and humanitarian products, which are backed by exceptional after-sales service and support. Since 2010 Schiebel offers the new division composite and is able to supply high-tech customers with this high-quality carbon fiber technology. All products are quality-controlled to meet ISO 9001 standards. With headquarters in Vienna (Austria), Schiebel now maintains production facilities in Wiener Neustadt (Austria), and Abu Dhabi (UAE), as well as offices in Washington DC (USA), and Phnom Penh (Cambodia).

## About the CAMCOPTER® S-100:

Schiebel's CAMCOPTER® S-100 Unmanned Air System (UAS) is a proven capability for military and civilian applications. The Vertical Takeoff and Landing (VTOL) UAS needs no prepared area or supporting launch or recovery equipment. It operates in day and night, under adverse weather conditions, with a beyond line-of-sight capability out to 200 km, both on land and at sea. The S-100 navigates via pre-programmed GPS waypoints or is operated with a pilot control unit. Missions are planned and controlled via a simple point-and-click graphical user interface. High definition payload imagery is transmitted to the control station in real time. Using "fly-by-wire" technology controlled by a triple-redundant flight computer, the UAV can complete its mission automatically. Its carbon fiber and titanium fuselage provides capacity for a wide range of payload/endurance combinations up to a service ceiling of 18,000 ft. In its standard configuration, the CAMCOPTER® S-100 carries a 75 lbs/34 kg payload up to 10 hours and is powered with AVGas or heavy fuel.

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