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## **UAV helicopters. Camcopter S-100 UAS: a strong impact in the civil market**

**Vienna, Austria - Many its tasks**



Schiebel, S-100 Camcopter helicopter manufacturer, understands that the unique capabilities of this UAS (Unmanned Aerial System at remote control) provide a wide range of civil applications, in a variety of situations and for tasks previously unimaginable. As the drone's outstanding performance in recent high-voltage power line inspections in Austria again demonstrated.

Compared to a fixed wing UAS this drone system especially stands out for its hovering capabilities, which are of advantage in many monitoring tasks. But the society underlines that there are other fields of application, as search for mineral and fossil fuel deposits, antipiracy actions, harbor patrol, search and rescue as well as disaster support and monitoring. Also routine monitoring of pipelines, water lines, power lines, communication lines and large factory premises and plants as well as its use for scientific measurements and movie shoots present possible fields of application.

Lately the S-100 performed power line monitoring flights for several days in Austria. At an average airspeed of 30 knots (55 km/h) also the poles, surge arresters and isolators were inspected, with high-definition images taken with the L3 Wescam MX-10 payload were transmitted to the control station in real time. The imagery identified the areas of damage or corrosion as well as spots of bad conductivity on the power lines, thus enabling teams of technicians to focus only on the affected cables and towers. It was the first time in Europe that a UAS helicopter performed these inspection tasks, which are usually carried out by manned helicopters.

The advantages for civil missions are obvious: This system is uniquely capable of penetrating areas that may be too dangerous for piloted aircraft or ground patrols. Its powerful surveillance capabilities provide constant real-time information 24/7 without any need for prepared area and launch and/or recovery support equipment. This drone system operates under adverse weather conditions, with a beyond line-of-sight capability of up to 200 km, both on land and at sea.