

UAV Laser Scanning

Scout B1-100 UAV Helicopter For 3D Aerial Scanning



GENERAL The autonomous industrial unmanned helicopter Scout B1-100 has been developed for professional airborne applications such as **aerial mapping, airborne broadcasting, search & rescue, surveillance** and **inspection** as well as **law enforcement**.

INTEGRATION For 3D aerial laser scanning the Scout B1-100 UAV helicopter is equipped with the **RIEGL LMS-Q160 laser scanner** combined with a high grade DGPS/INS system and the onboard computer system as well as a broadband data link (WLAN).

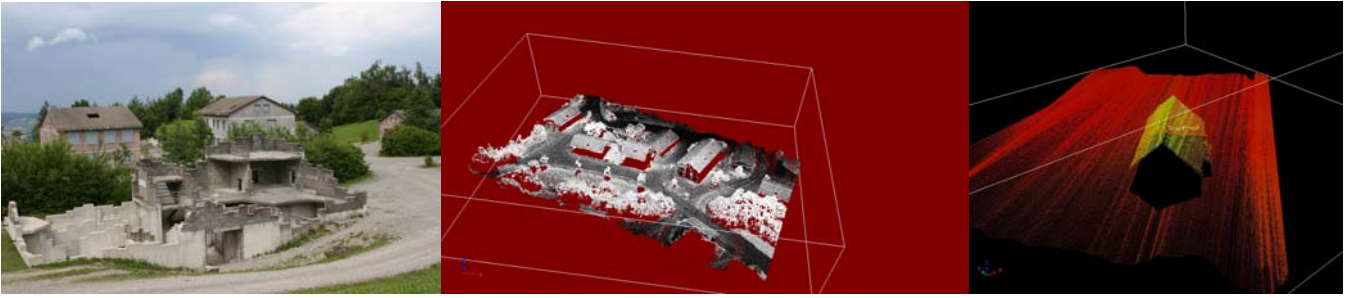
OPERATION Aerial scanning is based on GPS waypoints which describe multiple lines above the region of interest. The number of lines, the flight altitude, and the flight velocity are selected in order to fulfill the requirements of the final point cloud resolution.

FEATURES The mission flights of the Scout B1-100 UAV system are completely autonomous along the pre-defined GPS waypoints. Positions, velocity, and attitude of the laser scanner are continuously combined with the laser data and recorded onboard.

DATA PROCESSING For detailed data post processing of the 3D laser scanner data, various partners and software tools are available. Our recommended partners are **Milan Geoservice** (www.milan-geoservice.de, Germany) and **MicroGeo** (www.microgeo.it, Italy).

DEMONSTRATION System demonstrations are available on request in Lucerne, Switzerland.

INFORMATION For further information please contact Aeroscout GmbH, Switzerland.



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ONBOARD STRUCTURE

