

# SCHIEBEL

Oil, Gas & Security  
LIDAR • MAGNETOMETER • RADAR • EO/IR



21<sup>st</sup> century visual surveillance  
*intruder detection in real time*



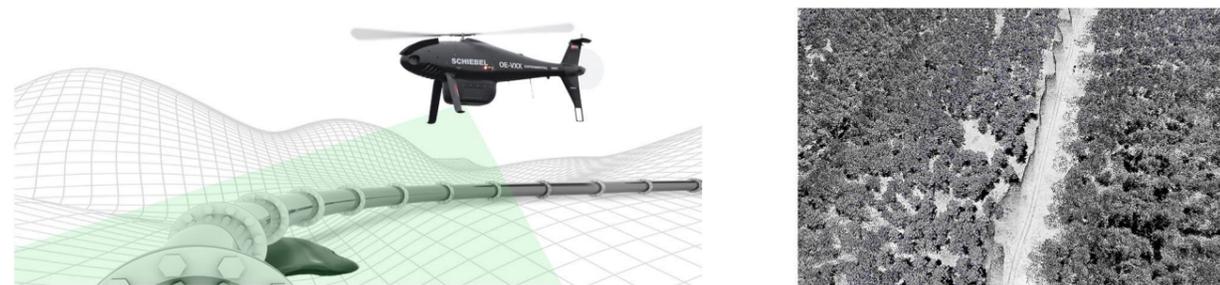
CAMCOPTER® S-100  
UNMANNED AIR SYSTEM

Global energy demand is expected to continuously increase over the next 25 years. This fact combined with the depletion of existing oil and gas reserves will maintain the need for extensive exploration and production activities by the oil and gas industries. The major part of this growth is expected to come from the developing world, where access to reserves and security questions are complex.

The Schiebel CAMCOPTER® S-100 Unmanned Air System provides oil and gas companies with the freedom to find, develop and manage resources safely and without interference, using on- or offshore operations centres.

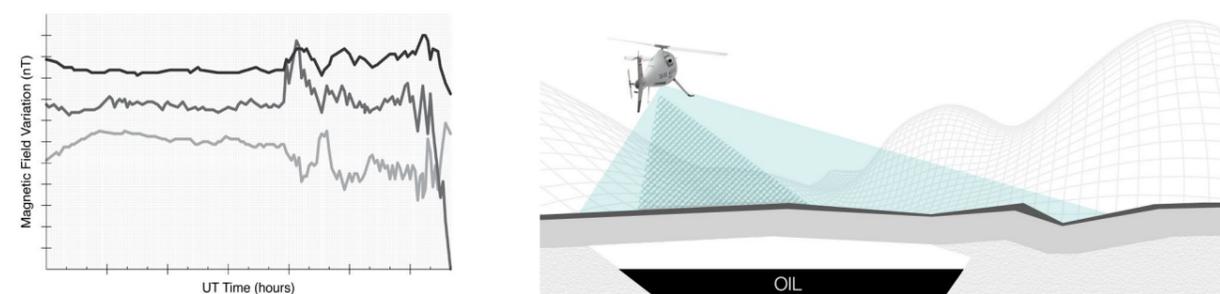
This system is equally suitable for missions from ad-hoc, austere sites where demands of manpower and resources for successful operations are at a minimum. The S-100 can easily be reconfigured to provide the user with a range of different capabilities.

### Laser Imaging Detection and Ranging (LIDAR) for 3D geographic survey, pipeline investigation and vegetation encroachment



- Fully integrated system for combined terrestrial and hydrographical airborne laser scanning
- High resolution 3D mapping and terrain modelling
- High laser repetition rates up to 280 kHz
- Real-time control and scan-data visualization

### Magnetometer and/or Gravimeter for rapid large area resource detection



- Cesium magnetometer, no need to be returned to the factory for calibration or tuning
- Outstanding sensitivity -350 fT /  $\sqrt{\text{Hz}}$  RMS
- Sample rate -0,001 s (1000 Hz) to 15,999 s in 1 ms increments
- Very low heading error  $\pm 0,15$  nT over 360° equatorial and polar spins
- Absolute accuracy <3 nT throughout range

An Electro-Optical/Infra-Red sensor (EO/IR) provides real-time, high-definition video to commanders and decision makers. It offers both wide and narrow fields of view for wide-area surveillance to precision identification in either full-color video or thermal imagery. The sensor delivers “eyes on capability” both day and night and has a target detection range of over 20 km.

### Electro-Optical/Infra-Red Gimbal (EO/IR) for real-time surveillance, intruder detection and identification



- High-performance, weight-optimized digital imaging - 3rd generation thermal imager
- Daylight megapixel color HD zoom camera up to 1080 p
- Fully active 4-axis stabilization
- Simultaneous digital and analog video outputs
- Real-time image enhancements simultaneously on all sensors

### High Resolution Synthetic Aperture Radar (SAR) provides true, all-weather ground mapping, surveillance imaging and Ground Moving Target Indication (GMTI) on land and at sea



- Frequency X band
- Scan coverage  $\pm 45^\circ$
- Maximum range 20 km (resolution dependent)
- Map resolution <1 m
- Strip-map mode
- Spotlight SAR
- High reliability



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## UNMANNED AIR SYSTEMS

For further information, orders and delivery please contact one of the following offices:

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