RIEGL

VQX-1 Wing Pod

The *RIEGL* VQX-1 is a compact, rugged, and aerodynamically shaped wing pod, designed for user-friendly installation and to facilitate various airborne mapping applications.

The pod is designed to carry one *RIEGL* Laser Scanner (VQ-480 II, VQ-580 II-(S), VUX-240, VUX-120[23], VUX-160[23] or VQ-840-G/-GL) as well as up to three high-resolution cameras and an appropriate high-end IMU/GNSS system.

EASA approved (STC) for Cessna single piston engine aircraft of types 172, 182 and 206.

Fully Integrated Airborne Laser Scanning Solution

Typical Applications

• Corridor Mapping • Archeology and Cultural Heritage Documentation • Terrain and Canyon Mapping • Flood Zone Mapping • Surveying of Urban Environments • City Modeling • Glacier and Snowfield Mapping • Construction-Site Monitoring • Power Line, Railway Track, and Pipeline Inspection • Wide Area Mapping • Agriculture & Forestry • Emergency Management Planning • Accident Investigation • Moist Grassland Mapping

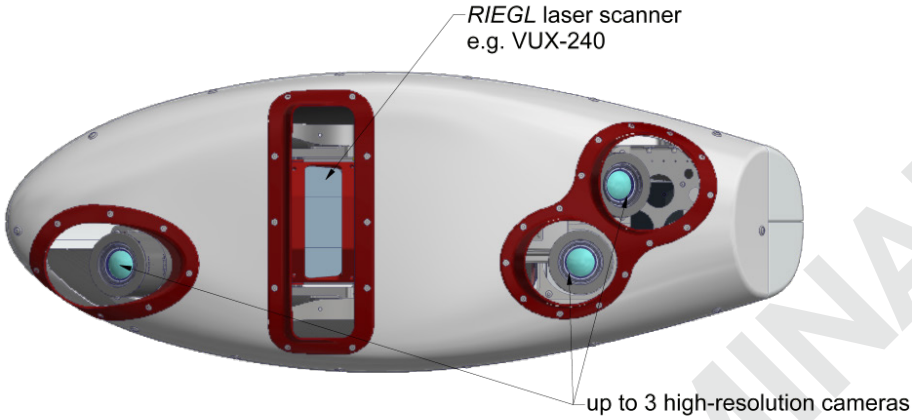
Contact us

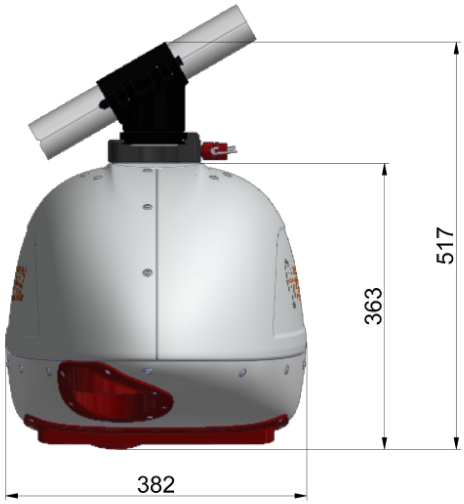
RIEGL®

RIEGL VQX-1 Main Features & Key Facts

- robust and reliable wing pod
- uncompromising lightweight construction
- quick installation and removal
- turn-key solution ready to install (including power and data cabling)
- GNSS antenna to be mounted appropriately
- EASA STC'd for Cessna 172-, 182,- and 206- series (details on request)

RIEGL VQX-1 Technical Data





all dimensions in mm

Integrable *RIEGL* Laser Scanners	VUX-120[23], VUX160[23], VUX-240, VQ-480 II, VQ-580 II-(S), VQ-840-G or VQ-840-GL
Scanner Performance	refer to the according *RIEGL* laser scanner data sheet
Pod Weight (weight of equipment to be added)	approx. 8.5 kg
IMU/GNSS Unit, e.g. Applanix AP+60, AP+50	refer to the according IMU/GNSS data sheet
Possible Camera Orientations	1 camera nadir or 2 cameras RBG/NIR nadir or 3 cameras forward / nadir / backward
Installation and Removal	dovetail mount for quick installation and removal; mounting and operation at the end-user´s responsibility

RIEGL VQX-1 Integration Options

The ***RIEGL* VQX-1** Wing Pod provides a wide range of sensor and camera installation options. *RIEGL* offers a system solution combining various *RIEGL* laser scanners with IMU/GNSS systems of different performance and optional cameras with various camera orientations.

Integration Options

RIEGL VQX-1
with VQ-480 II or VQ-580 II (-S) [1)]

- *RIEGL* VQ-480 II Laser Scanner
- 3x high-resolution camera, e.g., Phase One iXM 100
- IMU/GNSS unit, e.g. Applanix AP+60
- Control Unit

RIEGL VQX-1
with VQ-840-G [1)]

- *RIEGL* VQ-840-G Topo-Bathymetric Laser Scanner
- IMU/GNSS unit, e.g. Applanix AP+60
- Control Unit

RIEGL VQX-1
with VUX-240 [1)]

- *RIEGL* VUX-240 Laser Scanner
- 3x high-resolution camera, e.g., Phase One iXM 100
- IMU/GNSS unit, e.g. Applanix AP+60
- Control Unit

1) See technical details in the corresponding datasheet

RIEGL's Cessna T206H test plane equipped with two VQX-1 wing pods