

NEW RIEGL

VQX-1 Wing Pod

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

The pod is designed to carry one **RIEGL** Laser Scanner (VQ-480II, VQ-580II-S), VUX-240, VUX-120²³, VUX-160²³ or VQ-840-G) as well as up to three high-resolution cameras and an appropriate high-end IMU/GNSS system.

The EASA approval of the pod for Cessna single piston engine aircraft of types 172, 182 and 206, under a supplemental type certificate is in progress.



Fully Integrated, Easily Mountable / Dismountable 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



www.riegl.com

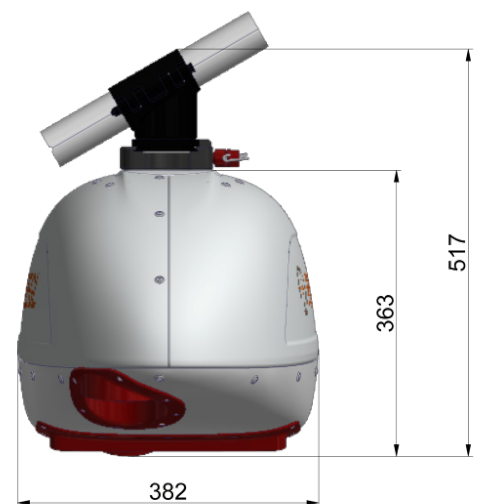
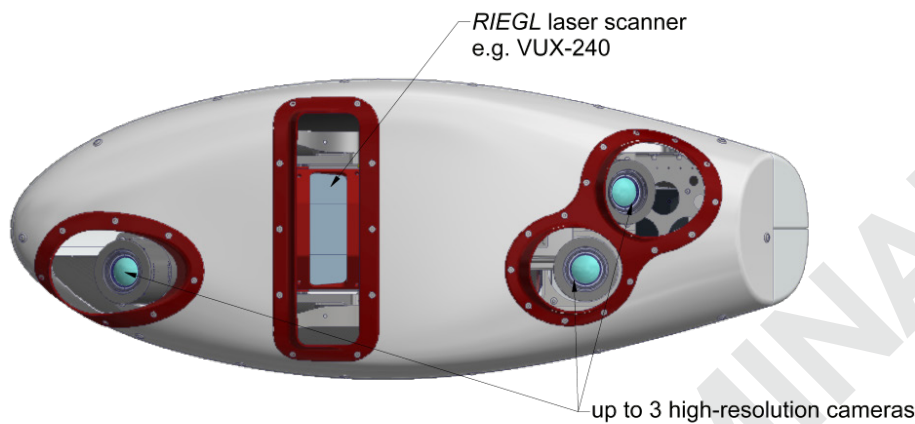


RIEGL VQX-1 Main Features & Key Facts

- robust and reliable wing pod
- uncompromising lightweight construction
- quick installation and removal (including power cabling)
- GNSS antenna to be mounted appropriately
- EASA STC for Cessna 172-, 182,- and 206- series in progress



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) or VQ-840-G
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 AP60	refer to the according IMU/GNSS data sheet
Possible Camera Orientations	1 camera nadir or 2 cameras RGB/NIR nadir or 3 cameras forward / nadir / backward
Installation and Removal	quick installation and removal using the included mount; 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 AP60
- Control Unit

RIEGL VQX-1 with VQ-840-G ¹⁾



- RIEGL VQ-840-G Topo-Bathymetric Laser Scanner
- IMU/GNSS unit, e.g. Applanix AP60
- 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 AP60
- Control Unit

¹⁾ See technical details in the corresponding datasheet



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





at a glance

RIEGL VQX-1

PRELIMINARY

Certain products referred to herein, whether registered or unregistered, may be trademarks and shall remain the intellectual property of the respective owner. *RIEGL* relies, among others, on the principle of "fair use" and makes no claim on trademarks of other manufacturers.



Watch our videos!
youtube.com/rieglidar

Copyright *RIEGL* Laser Measurement Systems GmbH © 2022 – All rights reserved.
Use of this data sheet other than for personal purposes requires *RIEGL*'s written consent.
This data sheet is compiled with care. However, errors cannot be fully excluded and alternations might be necessary.

www.riegl.com



RIEGL®