

Interface Unit for Storage of Airborne LiDAR Data and Camera Data

RIEGL VQ-IU

Providing high-speed data interfaces, the **RIEGL® VQ-IU** Interface Unit is universally suited to store scan data and camera data acquired with **RIEGL** waveform laser scanners of the **VQ-Series**.

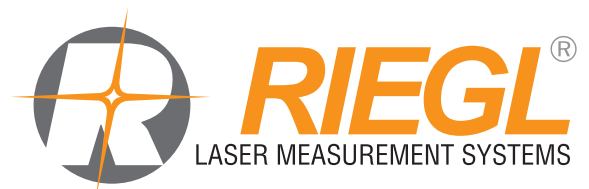
Four removable drive carriers with integrated Solid State Drives are used to meet the requirements of data storage.

Using solid state drives increases the reliability in harsh environment and at high flying altitudes. The drives allow immediate access to data already acquired, ready to be analyzed on the fly or in the office. Data rates of up to 1000 MByte/sec per SSD guarantee uninterruptible storage of data covering the requirements of current and future generations of **RIEGL** high speed laser scanners. Additionally, an online data integrity check is performed prior transferring the scan data to the solid state drives.

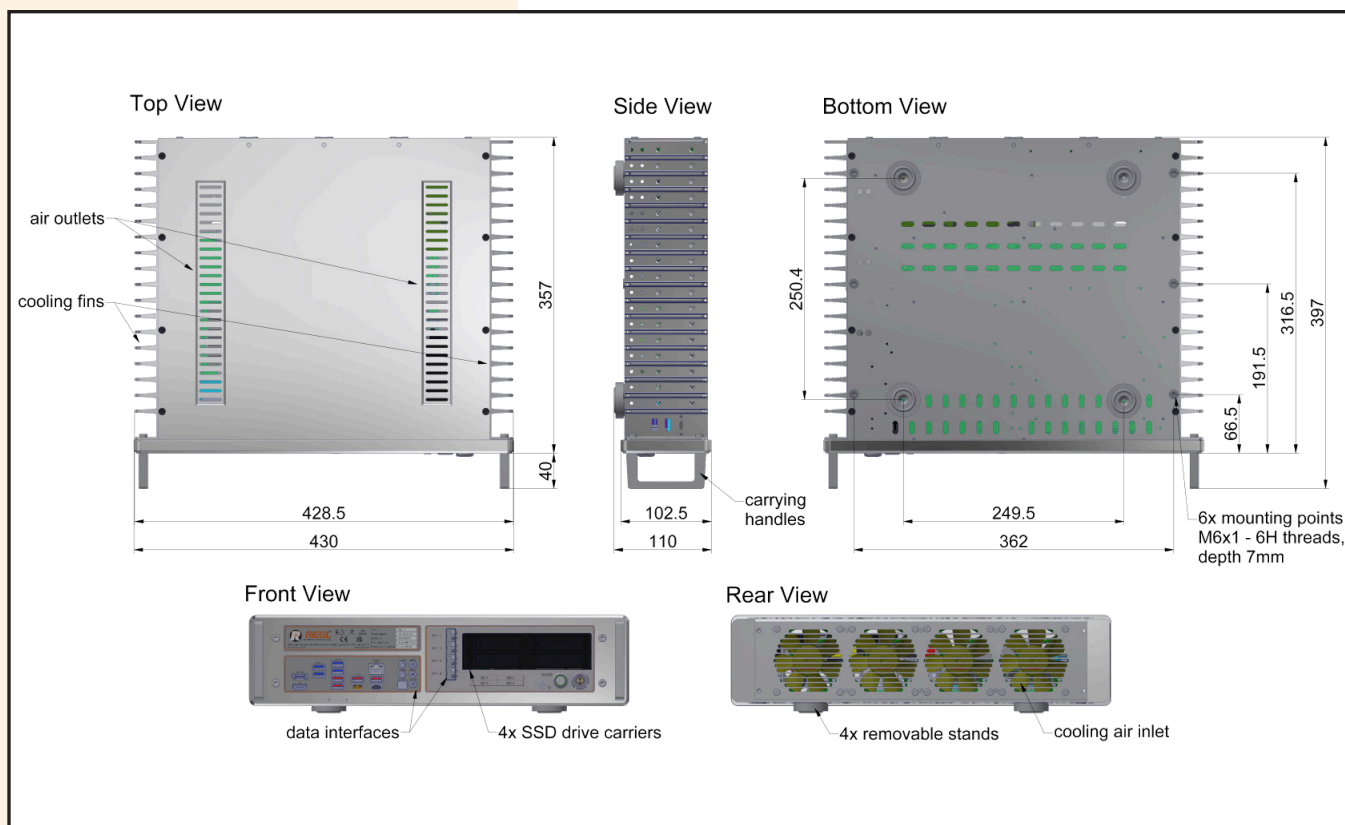
- **Solid State Drives (SSD) 4 x 2.5"**
- **Fiber coupled high speed data interface**
- **Removable drive carriers**
- **Data rate (WRITE) up to 1000 MByte/sec per SSD**



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Dimensional Drawings *RIEGL* VQ-IU



Technical Data *RIEGL* VQ-IU

Data Recorder Performance

Storage Capacity
Frame Rate
Data Rate (WRITE)
Data Rate (READ)
USB Adapter

4x 1.92 TByte ¹⁾ (higher capacities available on request)
1.5 fps (6x PhaseOne iXM-150, data format iiq-s)
up to 1000 MByte/sec per SSD²⁾
up to 3300 MByte/sec²⁾
450 MByte/sec

1) Subject to rapid technical change, storage capacity of Solid State Drives may differ from values given at the time of datasheet's issue.

2) The respective data rates depend on the SSDs used and can therefore vary.

Data Interface

Storage Media Interfaces
High Speed Data Interfaces
USB

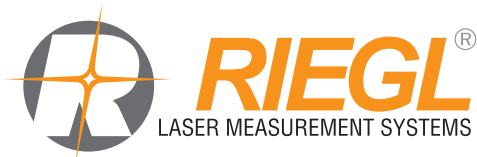
4x 2.5" NVMe SSD on removeable drive carrier
4x enhanced small form-factor pluggable (SFP+, 10 MByte/sec)
4x USB-A 3.2 (5 Gbits/s, blue)
4x USB-A 3.2 (10 Gbits/s, red)
1x USB-C 3.1 (10 Gbits/s)
1x USB-C 3.2 (20 Gbits/s)
1x 2.5 GBase-T RJ45
1x HDMI 2.1
1x Display Port 1.4

LAN-TCP/IP Interfaces
Display

General Technical Data

Power Supply Input Voltage
Current Consumption
Main Dimensions (LxWxH)
Weight
Max. Flight Altitude (operating / not operating)
Temperature Range

18 - 32 V DC
up to 7 A @ 24 V DC
430 x 397 x 110 mm
approx. 10.3 kg (4x drive carriers and SSDs included)
16 400 ft (5 000 m) / 18 000 ft (5 500 m) above Mean Sea Level (MSL)
0°C up to +40°C (operation) / -10°C up to +50°C (storage)



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