

RIEGL DR1560i

The **RIEGL® DR1560i** is the accompanying Digital Data Recorder to the state-of-the-art **RIEGL** Airborne Laser Scanners, using four removable drive carriers with integrated Solid State Drives for smooth operation.

Providing various data interfaces the DR1560i is universally suited to store data acquired with **RIEGL** full waveform laser scanners.

Using solid state drives increases the reliability in harsh environment and at high flying altitudes. The drives are hot-swappable and allow immediate access to data already acquired, ready to be analyzed on the fly or in the office. Data rates of up to 150 MBytes/sec guarantee uninterrupted storage of data covering the requirements of actual 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.

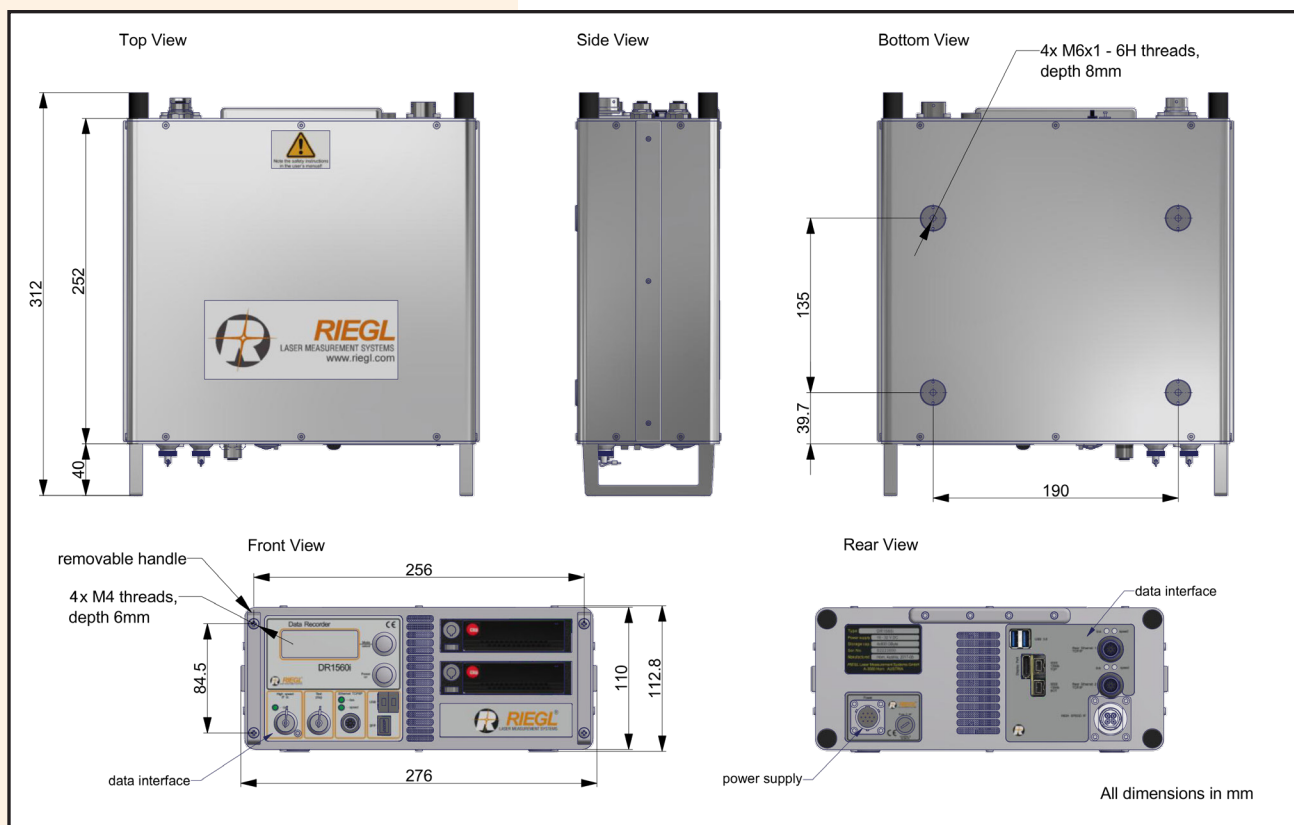


- **Solid State Drives (SSD) 4 x 2.5"**
- **Fiber coupled high speed data interface**
- **Removable drive carriers**
- **Up to 56 hours airborne data logging capacity**
- **Data rate (WRITE) up to 150 MByte/sec per interface**
- **Online data integrity check**

visit our website
www.riegl.com



Dimensional Drawings *RIEGL* DR1560i



Technical Data *RIEGL* DR1560i

Data Recorder Performance

Storage Capacity

4 x 848 GByte¹⁾ or optional 4x 1490 GByte
up to 2 x 150 MByte/sec

Data Rate (WRITE)

Logging Capacity ²⁾

using 4 x 848 GByte SSD

using 4x 1490 GByte SSD

typically 32 h

typically 56 h

Data Rate (READ) ³⁾

up to 300 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) at 1000 kHz laser pulse repetition frequency with smart waveform recording of the *RIEGL* VQ-1560 II scanner, average 2 targets, 60° scan angle

3) removable hard disk in mounting frame with SATA interface on up to date PC

Data Interface

Input Interface

1 x High Speed Serial Data Link

1 x Small Form-Factor Pluggable Transceiver (SFP)

1 x High speed optical data link with 2 independent channels

2 x GigE-LAN

Output Interface

SATA on removable drive carrier

Debug Interface

GigE-LAN

USB 2.0

General Technical Data

Power Supply Input Voltage

18 - 32 V DC

Current Consumption

up to 3 A @ 24 V DC (up to 5 A @ 24 V DC with active heating)

Main Dimensions (LxWxH)

312 x 276 x 113 mm

Weight

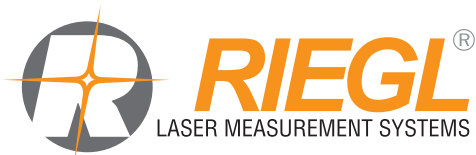
approx. 5.6 kg (4 drive carriers included)

Max. Flight Altitude (operating / not operating)

18 000 ft (5 500 m) above Mean Sea Level (MSL)

Temperature Range

0°C up to +40°C (operation) / -10°C up to +50°C (storage)



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