

# DR1560

The **RIEGL® DR1560** is the accompanying Digital Data Recorder to the state-of-the-art **RIEGL Airborne Laser Scanners**, using three removable drive carriers with integrated Solid State Drives for smooth operation.

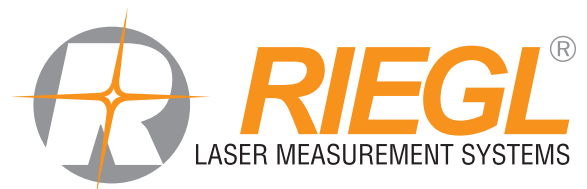
Providing various data interfaces the DR1560 is universally suited to store data acquired with the full waveform laser scanners **RIEGL LMS-Q1560** and **LMS-Q780** as well as with the **RIEGL's** new online-waveform processing V-line laser scanners.

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.

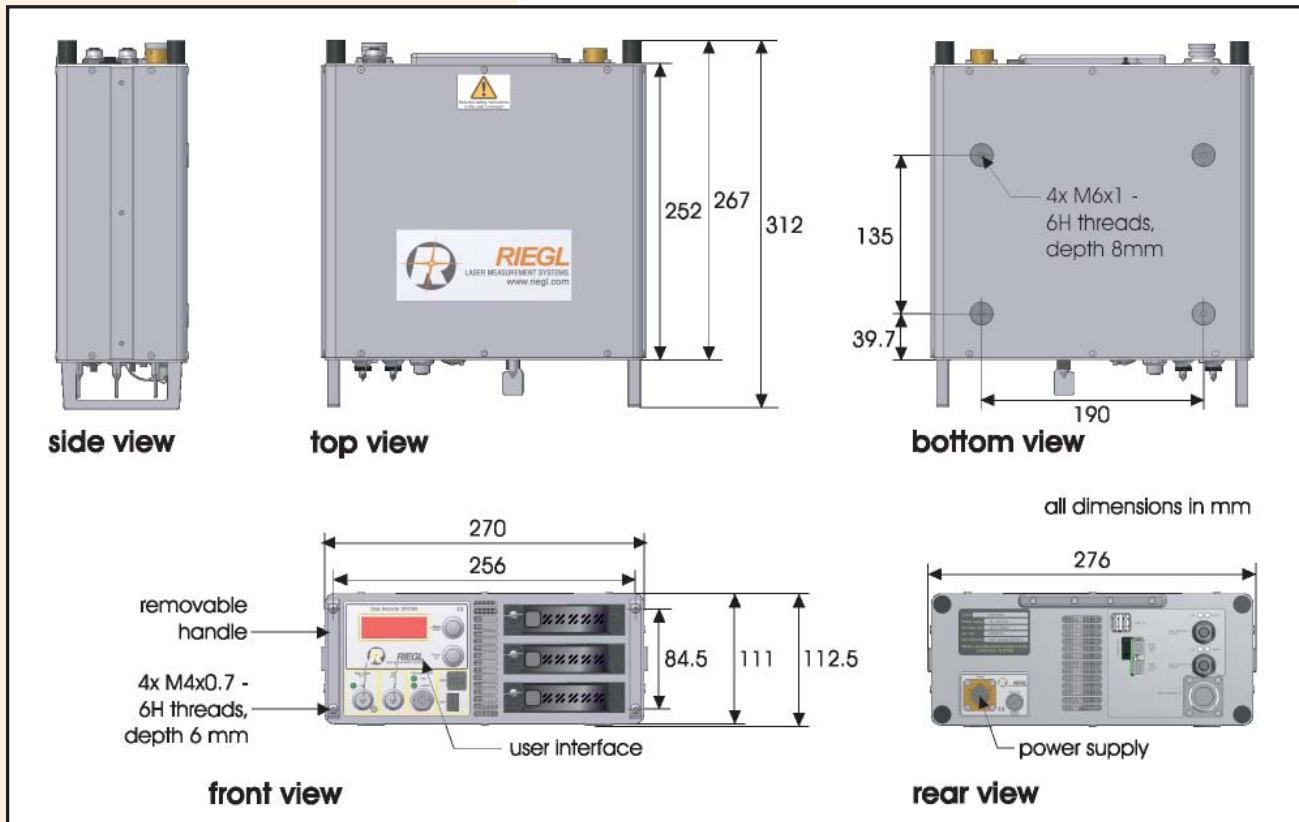
- **Solid State Drives (SSD) 3 x 2.5"**
- **Fiber coupled high speed data interface**
- **Removable drive carriers**
- **Up to 17 hours airborne data logging capacity**
- **Data rate (WRITE) up to 150 MByte/sec per interface**
- **Online data integrity check**



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## Dimensional Drawings RIEGL DR1560



## Technical Data RIEGL DR1560

### Data Recorder Performance

Storage Capacity	3 x 745 GByte <sup>1)</sup>
Data Rate (WRITE)	up to 2 x 150 MByte/sec
Logging Capacity <sup>2)</sup>	typically 17 h
Data Rate (READ) <sup>3)</sup>	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. We expect 800 GByte - 1 TByte in near future.

2) at 200 kHz laser pulse repetition frequency of the LMS-Q1560 scanner, 2 targets (200 Bytes/measurement), 45° scan angle

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

### Data Interface

#### Input Interface

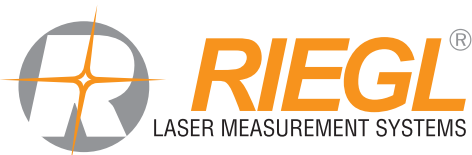
- 1 x High Speed Serial Data Link
- 1 x Small Form-Factor Pluggable Transceiver (SFP)
- 1 x High speed optical data link with 2 independent channels
- 2 x GigE-LAN

#### Output Interface

- SATA on removable drive carrier
- GigE-LAN
- USB 3.0, USB 2.0
- IEEE 1394b ( Fire Wire 800)

### General Technical Data

Power Supply Input Voltage	18 - 32 V DC
Current Consumption	max. 5 A @ 24 V DC
Main Dimensions (LxWxH)	312 x 276 x 113 mm
Weight	approx. 6.25 kg (3 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)



**RIEGL Laser Measurement Systems GmbH**  
 Riedenburgstraße 48  
 3580 Horn, Austria  
 Phone: +43 2982 4211 | Fax: +43 2982 4210  
 office@riegl.co.at  
 www.riegl.com

**RIEGL USA Inc.**  
 Orlando, Florida | info@rieglusa.com | www.rieglusa.com  
**RIEGL Japan Ltd.**  
 Tokyo, Japan | info@riegl-japan.co.jp | www.riegl-japan.co.jp  
**RIEGL China Ltd.**  
 Beijing, China | info@riegl.cn | www.riegl.cn

[www.riegl.com](http://www.riegl.com)