

# DR560-RD

The **RIEGL® DR560-RD** is the accompanying Digital Data Recorder to the **RIEGL Airborne Laser Scanners LMS-Q560 and LMS-Q680**, using two removable disk carriers with integrated 500 GByte hard disk drives for smooth operation.

This high performance data storage device is capable of handling the continuous high-speed input data stream provided by the a. m. **RIEGL Airborne Laser Scanners**. The Data Recorder DR560-RD supports RAID 1 to achieve higher data integrity and RAID 0 for increased data throughput. Additionally an online data integrity check is performed prior to transferring the full waveform data to the hard disks.

**Removable disk carriers**

**Storage capacity up to 1000 GByte**

**Up to 24 hours airborne data logging capacity**

**Input data rate up to 80 MByte/sec**

**High data download rate up to 60 MByte/sec**

**Supports RAID 0 and RAID 1**

**Online data integrity check**

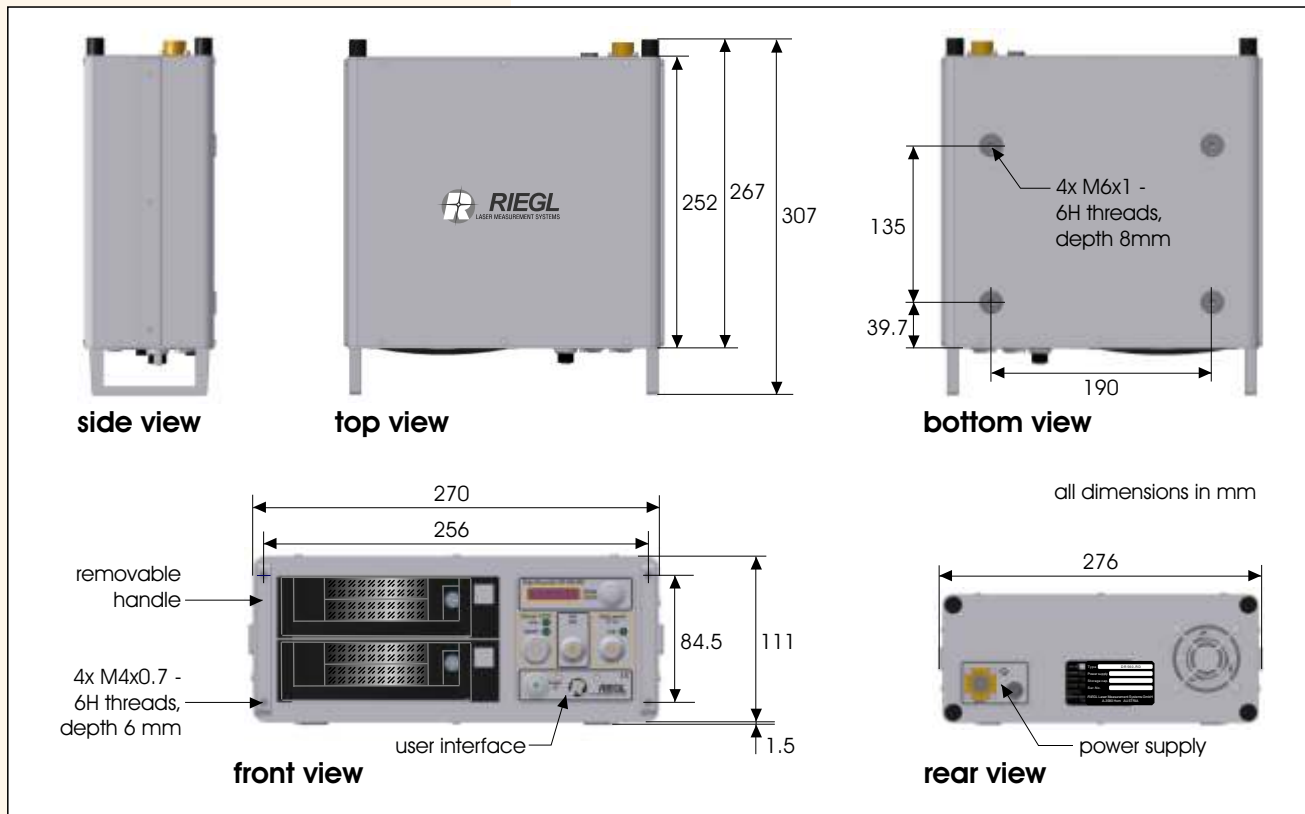


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LASER MEASUREMENT SYSTEMS

# Dimensional Drawings *RIEGL* DR560-RD



## Technical Data *RIEGL* DR560-RD

### Data Recorder Performance

	Single Hard Disk	RAID 0	RAID 1
Storage Capacity	2 x 500 GByte	1000 GByte	500 GByte
Data Rate (Input)	up to 40 MByte/sec	up to 80 MByte/sec	up to 40 MByte/sec
Logging Capacity <sup>1)</sup>	typically 2 x 12 h	typically 24 h	typically 12 h
Data Rate (Output) <sup>2)</sup>	up to 60 MByte/sec		

1) at 100 kHz laser pulse repetition frequency of the LMS-Q560 scanner, 2 targets (200 Bytes/Measurement), 45° scan angle  
 2) removable hard disk in mounting frame with SATA interface on up to date PC

### Data Interfaces

Input Interface  
 Output Interface

High Speed Serial Data Link  
 SATA on removable drive carrier

### General Technical Data

Power Supply  
 Current Consumption  
 Main Dimension (L x W x H)  
 Weight  
 Max. Flight Altitude (operating)  
 Max. Flight Altitude (not operating)  
 Temperature Range

18 - 32 V DC  
 approx. 2.2 A @ 24 V DC  
 307 x 276 x 113 mm  
 approx. 6.4 kg (2 disk carriers included)  
 10 000 ft (3 050 m) above MSL  
 18 000 ft (5 500 m) above MSL  
 0°C up to +40°C (operation) / -10°C up to +50°C (storage)



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