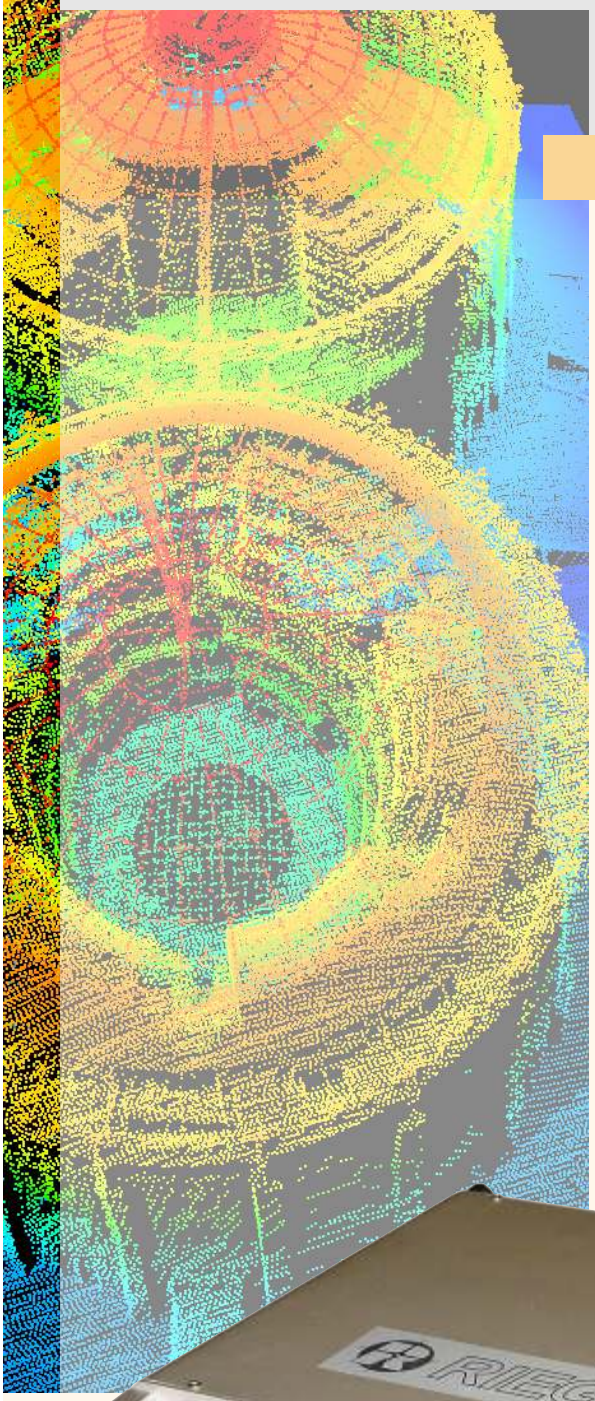
Airborne Data Recorder for Storage of Full Waveform Data

# 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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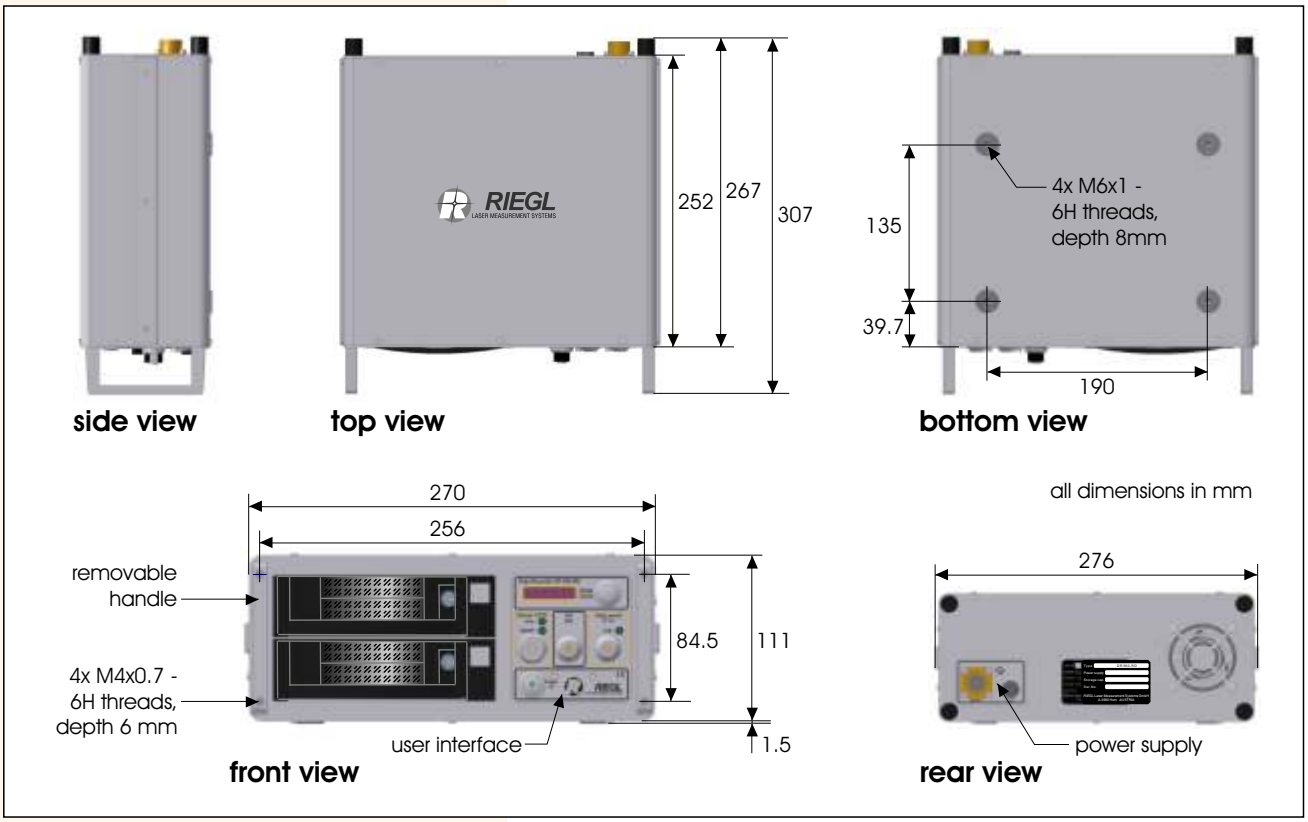
Airborne Laser Scanning

# 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 [1] | typically 2 x 12 h | typically 24 h | typically 12 h |
| Data Rate (Output) [2] | 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 | High Speed Serial Data Link |
| Output Interface | SATA on removable drive carrier |

## General Technical Data

| | |
|---|---|
| Power Supply | 18 - 32 V DC |
| Current Consumption | approx. 2.2 A @ 24 V DC |
| Main Dimension (L x W x H) | 307 x 276 x 113 mm |
| Weight | approx. 6.4 kg (2 disk carriers included) |
| Max. Flight Altitude (operating) | 10 000 ft (3 050 m) above MSL |
| Max. Flight Altitude (not operating) | 18 000 ft (5 500 m) above MSL |
| Temperature Range | 0°C up to +40°C (operation) / -10°C up to +50°C (storage) |

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