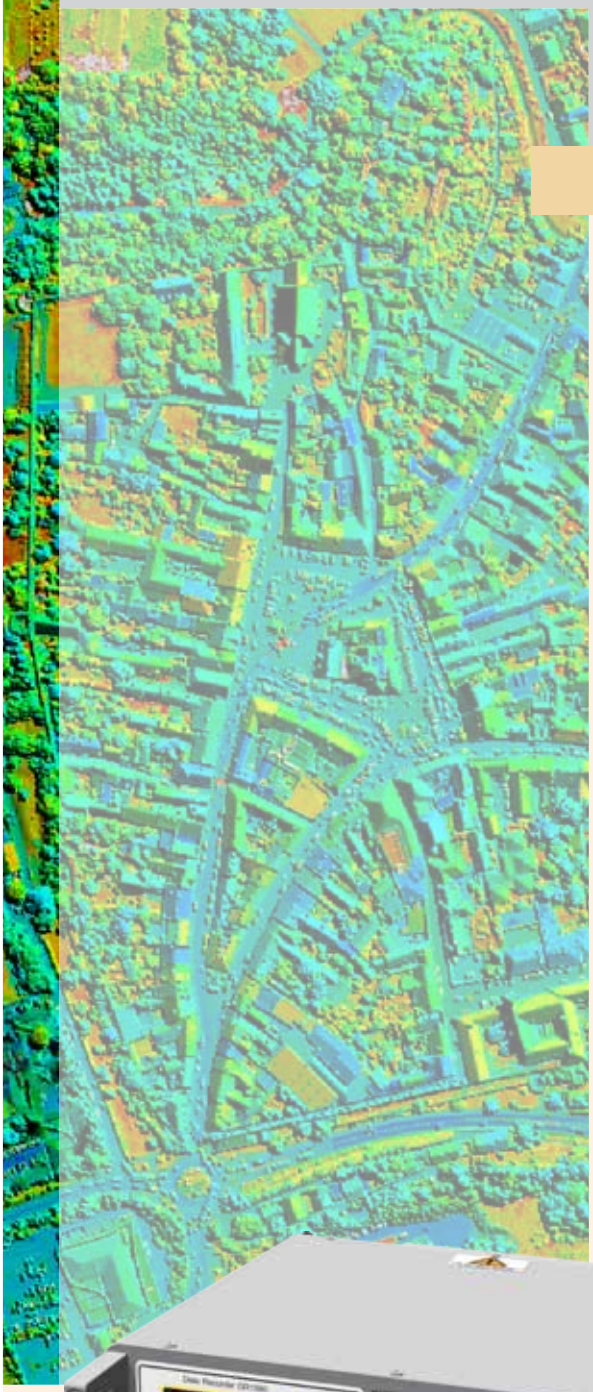
Airborne Data Recorder for Storage of Full Waveform Data

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. These drives are hot-swappable and allow immediate access to data already acquired, ready to be analyzed on the fly or in the office, while the system is still in operation finishing the surveying mission. Data rates of up to 150 MBytes/sec guarantee uninterruptible 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 Drivers (SSD) 3 x 2.5"***
- ***Fiber coupled high speed data interface***
- ***Removable drive carriers***
- ***Up to 10 hours airborne data logging capacity***
- ***Input data rate up to 150 MByte/sec per interface***
- ***Online data integrity check***

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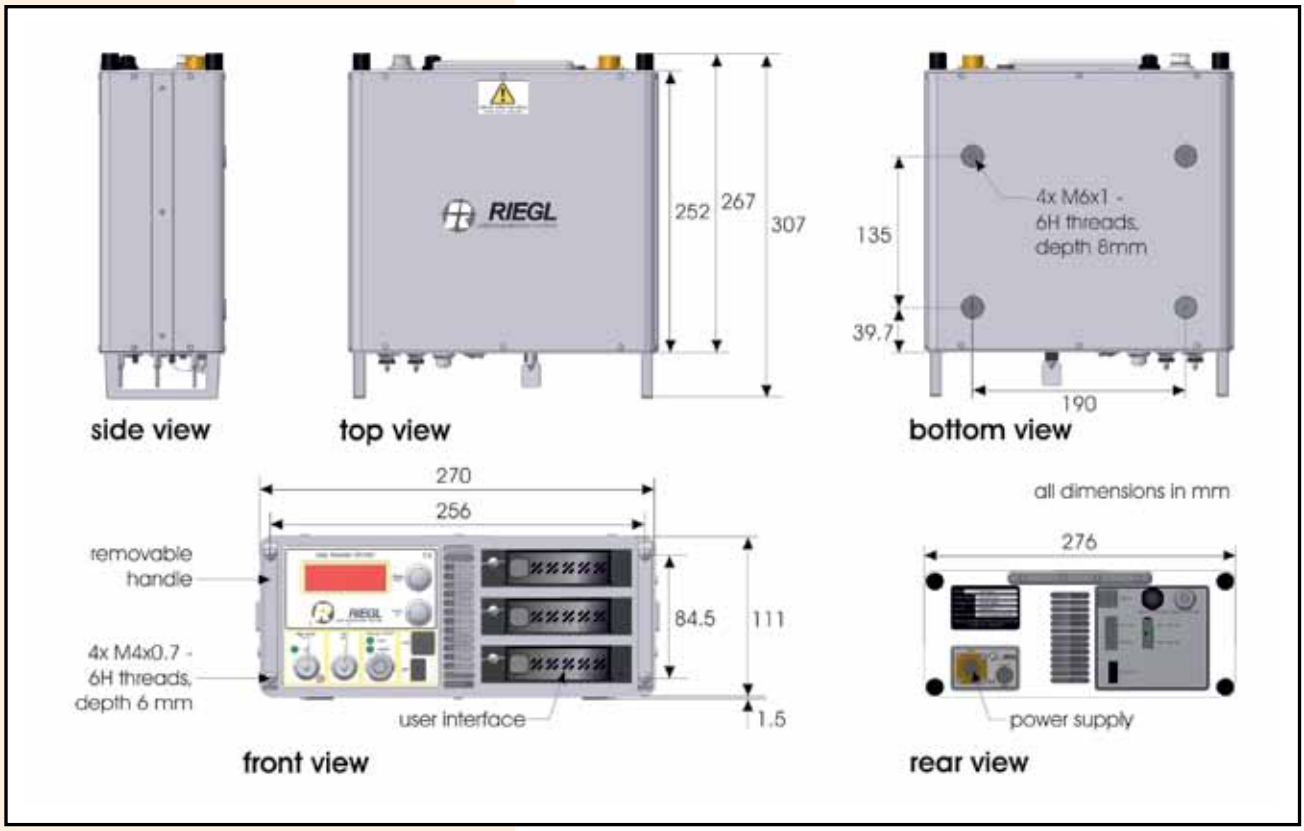
LASER MEASUREMENT SYSTEMS

Dimensional Drawings *RIEGL* DR1560



Technical Data *RIEGL* DR1560

Data Recorder Performance

Storage Capacity	3 x 500 GByte [3]
Data Rate (Input)	up to 2 x 150 MByte/sec
Logging Capacity [1]	typically 10 h
Data Rate (Output) [2]	up to 300 MByte/sec

1) at 200 kHz laser pulse repetition frequency of the LMS-Q1560 scanner, 2 targets (200 Bytes/measurement), 45° scan angle
2) removable hard disk in mounting frame with SATA interface on up to date PC
3) Subject to rapid technical change, storage capacity of Solid State Drives may differ from values given at the time of datasheet's issue.

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 GigE-LAN
Output Interface	SATA on removable drive carrier GigE-LAN USB 3.0

General Technical Data

Power Supply Input Voltage	18 - 32 V DC
Current Consumption	approx. 0.8 A @ 24 V DC
Main Dimensions (LxWxH)	307 x 276 x 113 mm
Weight	approx. 6.1 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

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