

DR680

The **RIEGL® DR680** 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 DR680 is universally suited to store data acquired with the full waveform laser scanners **RIEGL LMS-Q560, LMS-Q680(j), 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 80 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"**
- **Removable drive carriers**
- **Up to 20 hours airborne data logging capacity**
- **High data rates (READ/WRITE) up to 100 MByte/sec / 80 MByte/sec**
- **Online data integrity check**
- **Specified for a flight altitude up to 18,000 ft**

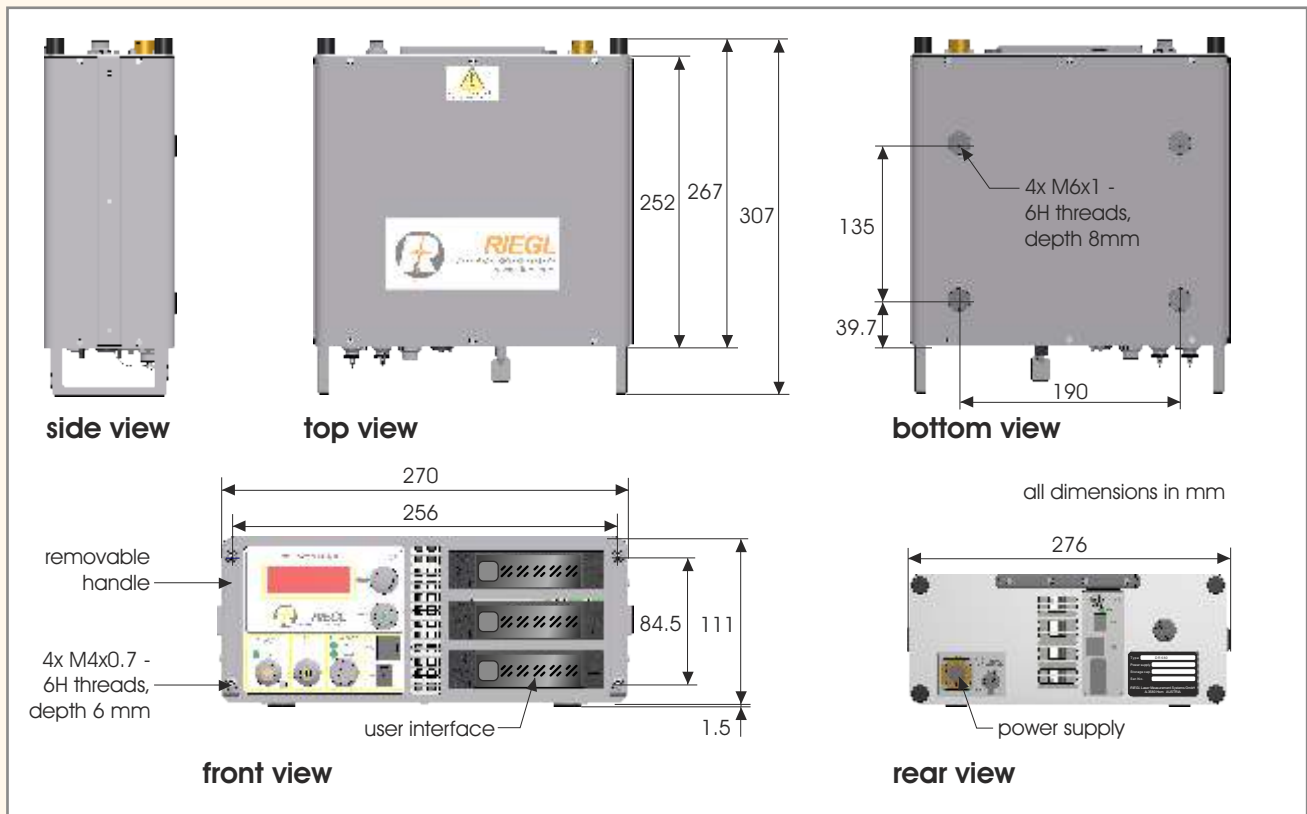


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LASER MEASUREMENT SYSTEMS

Dimensional Drawings *RIEGL* DR680



Technical Data *RIEGL* DR680

Data Recorder Performance

Storage Capacity	3 x 512 GByte ¹⁾
Data Rate (WRITE)	up to 80 MByte/sec
Logging Capacity ²⁾	typically 20 h
Data Rate (READ) ³⁾	up to 100 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-Q680 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 Interfaces

Input Interface	2 x High Speed Serial Data Link 2 x Small Form-Factor Pluggable Transceiver (SFP) GigE-LAN
Output Interface	SATA on removable drive carrier GigE-LAN USB

General Technical Data

Power Supply	18 - 32 V DC
Current Consumption	approx. 1.2 A @ 24 V DC
Main Dimension (L x W x H)	307 x 276 x 113 mm
Weight	approx. 6.1 kg (3 drive carriers included)
Max. Flight Altitude	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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