



LiteMapper® - DR560-RD Airborne Data Recorder for Full Waveform Analysis

The DR560-RD is the accompanying Digital Data Recorder to the Airborne Laser Scanner LMS-Q560 for full waveform analysis using two removable disks for smooth operation.

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

TECHNICAL DATA	LiteMapper® - DR560-RD
Data Recorder Performance	
Storage capacity	
Single hard disk	2 x 500 Gbyte
RAID 0 (striped disks)	1000 Gbyte
RAID 1 (mirrored disks)	500 Gbyte
Data rate (input)	
Single hard disk	up to 40 Mbyte/sec
RAID 0 (striped disks)	up to 80 Mbyte/sec
RAID 1 (mirrored disks)	up to 40 Mbyte/sec
Data rate (output) ¹	up to 60 Mbyte/sec
Logging capacity ²	
Single hard disk	typically 2 x 12 h
RAID 0 (striped disks)	typically 24 h
RAID 1 (mirrored disks)	typically 12 h
¹ Removable hard disk in mounting frame with SATA interface on up to date PC	
² 100 kHz pulse repetition frequency of the LMS-Q560 scanner, 2 targets (200 Bytes / measurement), 45° scan angle	
Data Interfaces	
Input interface	High speed serial data link
Output interface	SATA on removable drive carrier
General technical data	
Power supply	18 - 32 VDC
Current consumption	approx. 2.2A @ 24 VDC
Main dimension (L x W x H)	306 x 276 x 112 mm
Weight	approx. 6.4 kg (2 hard disks included)
Altitude	up to 10 000 ft (3048 m) ³
Temperature Range	
Operation	0°C up to +40°C
Storage	-10°C up to +50°C
³ At standard atmospheric conditions (1013.2 hPa pressure at sea level)	



Key Features:

- Removable disks
- Storage capacity up to 1000 Gbyte
- Up to 24 hours airborne data logging capacity
- Input data rates up to 80 MByte/sec
- Supports RAID 0 (striped disks) and RAID 1 (mirrored disks)

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