

RIEGL LMS-Q1560



The high performance, fully integrated long-range airborne laser scanner system RIEGL LMS-Q1560 is a cutting-edge tool for a variety of airborne surveying missions. The dual channel scanner makes use of powerful laser sources, Multiple-Time-Around (MTA) processing, echo digitization and waveform analysis. That allows operation at various flight altitudes and is therefore ideally suited for aerial survey of ultra wide areas as well as of complex urban environments.



Dual LiDAR Channel Airborne Laser Scanning System

Typical Applications

- Ultra Wide Area / High Altitude Mapping
- Mapping of Complex Urban Environments
- City Modeling
- Glacier & Snowfield Mapping
- Mapping of Lakesides & River Banks
- Agriculture & Forestry
- Corridor Mapping









Scan this QR code with your smartphone to get further information about the RIEGL LMS-Q1560.

www.riegl.com



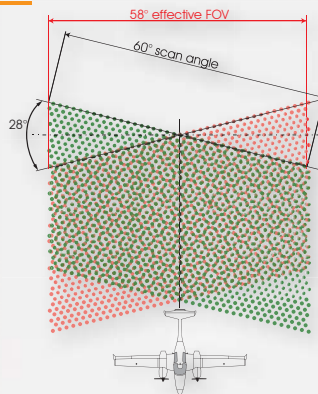
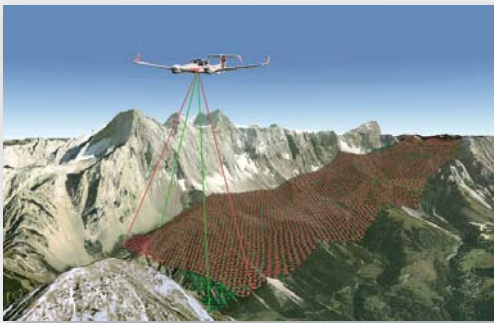
RIEGL LMS-Q1560 Technical Data

-  max. operating flight altitude AGL
-  pulse repetition rate PRR (burst)
-  waveform data output
-  full waveform analysis
-  multiple target capability
-  not intrinsically eye safe

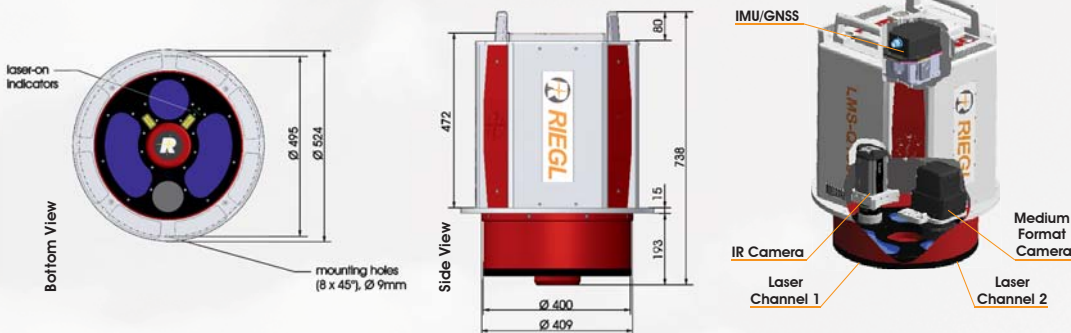
eye safety class	Laser Class 3B*
max. range @ target reflectivity 60%	5,800 m
max. range @ target reflectivity 20%	4,100 m
minimum range	50 m
accuracy	20 mm
effective measurement rate	up to 532,000 meas./sec
field of view / scan angle	58° / 60°
max. operating flight altitude AGL	4,700 m / 15,500 ft

*Class 3B Laser Product according to IEC60825-1:2007

RIEGL LMS-Q1560 Scan Pattern



Mechanical Drawings



Main Features

- high laser pulse repetition rate up to 800 kHz (burst)
- unrivaled scan pattern for best point spacing on the ground
- innovative forward/backward looking capability for collecting data of vertical structures
- digitization electronics for full waveform data
- multiple-time-around-processing for resolving range ambiguities automatically
- straightforward flight planning and increased flight safety
- integrated inertial navigation system and GNSS receiver
- fiber coupled high speed data interface to single RIEGL Data Recorder
- integrated multi-megapixel aerial medium format camera
- integrated secondary camera (e.g. IR-camera)

RIEGL LMS-Q1560 Installation Examples



RIEGL LMS-Q1560 installed in the nose pod of fixed-wing aircraft **DIAMOND DA42 MPP**



RIEGL LMS-Q1560 installed on GSM-3000 stabilized platform in the fixed-wing aircraft **TECNAM MMA**



RIEGL LMS-Q1560 installed on GSM-3000 stabilized platform in the fixed-wing aircraft **A-VIATOR AP68PT-600**