The NEW *RIEGL* LMS-Q1560

ALS

4700m | 800kHz

World Premiere at *RIEGL* LIDAR 2013

The new 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 two channel scanner makes use of a powerful laser source, multiple-time-around (MTA) processing, echo digitization and waveform analysis. This combination allows the operation at various flight altitudes and is therefore ideally suited for aerial survey of ultra wide areas as well as of complex urban environments.

The NEW Dual 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

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RIEGL®
LASER MEASUREMENT SYSTEMS

RIEGL LMS GmbH, Austria | *RIEGL USA Inc.* | *RIEGL Japan Ltd.*

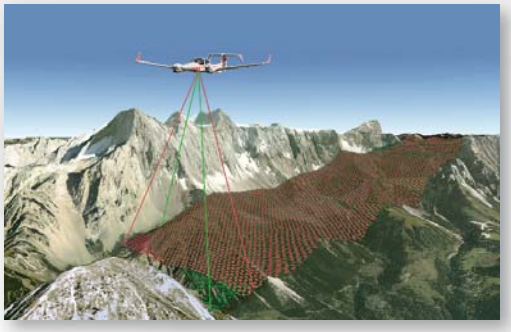
RIEGL LMS-Q1560 Preliminary Technical Data

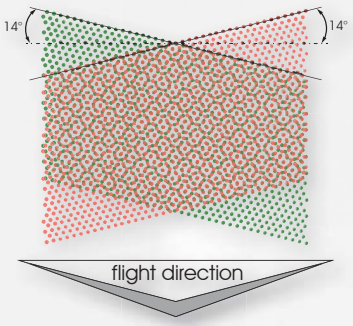
- max. operating flight altitude AGL
- pulse repetition rate PRR (peak)
- waveform data output
- full waveform analysis
- multiple target capability
- not intrinsically eye safe

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 (FOV)	up to 60°
Max. Operating Flight Altitude AGL	4,700 m / 15,500 ft

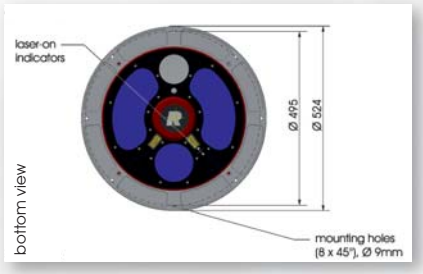
*Class 3B Laser Product according to IEC60825-1:2007

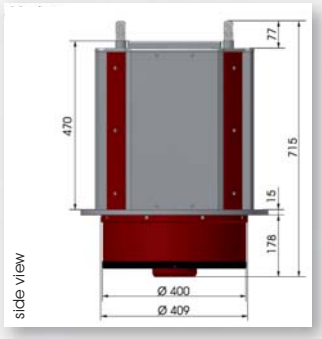
RIEGL LMS-Q1560 Scan Pattern





Main Dimension





Main Features

- High laser pulse repetition rate up to 800 kHz
- Innovative forward/backward looking capability
- Digitization electronics for full waveform data
- Single multifaceted polygon mirror for beam deflection
- Integrated multi-megapixel aerial medium format camera
- Integrated secondary camera (e.g. IR-camera)
- Integrated inertial navigation system and GNSS receiver
- Fiber coupled high speed data interface to single *RIEGL* Data Recorder

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**

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