NEW RIEGL VZ-400i

The *RIEGL* VZ-400i is the latest advancement in 3D laser scanning technology based on its new, innovative processing architecture – an extremely fast field-to-office Terrestrial Laser Scanning Solution, setting the benchmark in 3D Laser Scanning, again!

Ultra high laser pulse repetition rates, long measurement ranges, survey-grade accuracy, and a user-friendly workflow allow extremely fast acquisition of highly informative measurement data in the field. With its advanced processing technology, data acquisition and simultaneous geo-referencing, filtering and analysis will become real-time[1].

1) Functionalities under development, fully available approx. end of 2016.

NEW RIEGL VZ-400i

Ultra High Performance 3D Laser Scanner

Redefining Productivity!

Typical Applications

• Architecture & Facade Measurements • As-Built Surveying • Archeology & Cultural Heritage Documentation • City Modeling • Civil Engineering • Building Infrastructure Management (BIM) • Forensics & Crash Scene Investigation • Emergency Management • Tunnel Surveying • Forestry • Research • Monitoring

www.riegl.com

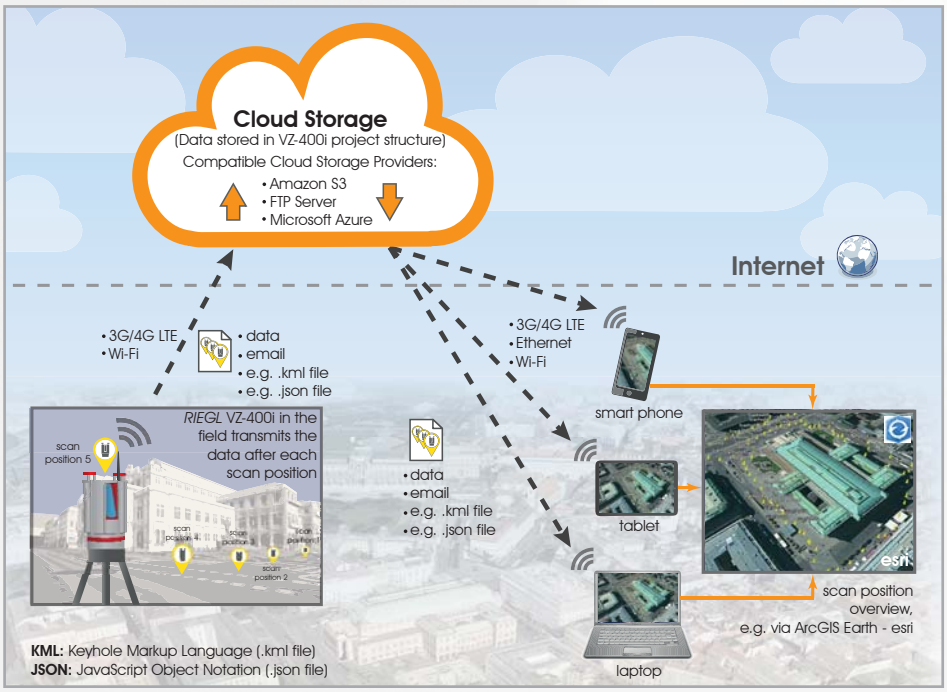
RIEGL®

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

RIEGL VZ-400i Main Features

- ultra high speed data acquisition with up to 500,000 meas./sec, survey-grade accuracy ≤ 5 mm, up to 800 m measurement range
- easy to use / easy to train: user-friendly touchscreen interface, single touch operation, etc.
- MEMS IMU for pose estimation
- advanced flexibility through support for external peripherals and accessories, e.g. external Bluetooth GNSS receiver on top
- cloud connectivity via Wi-Fi and 3G/4G LTE
- RiSCAN PRO standard processing software (included), RiSOLVE for automatic 3D digital scene capture (optional)

Cloud Connectivity *RIEGL* VZ-400i



KML: Keyhole Markup Language (.kml file)
JSON: JavaScript Object Notation (.json file)

RIEGL VZ-400i Technical Data

800m max. measurement range

1.2MHz pulse repetition rate PRR

full waveform processing

Wi-Fi and 3G/4G LTE

optional camera

multiple target capability

Laser Class 1

Laser Pulse Repetition Rate PRR (peak)	**100 kHz**	**300 kHz**	**600 kHz**	**1,200 kHz**
Max. Effective Measurement Rate (meas./sec)	42,000	125,000	250,000	500,000
Max. Measurement Range (ρ ≥ 90 %)	800 m	480 m	350 m	250 m
Max. Measurement Range (ρ ≥ 20 %)	400 m	230 m	160 m	120 m
Minimum Range	1.5 m	1.2 m	0.5 m	0.5 m
Accuracy / Precision	5 mm / 3 mm			
Field of View (FOV)	100° vertical / 360° horizontal			
Eye Safety Class	Laser Class 1 (eyesafe)			
Main Dimensions (width x height) / **Weight**	206 mm x 308 mm / 9.7 kg			

Further details to be found on the current *RIEGL* VZ-400i Data Sheet.

RIEGL VZ-400i Data Sheet

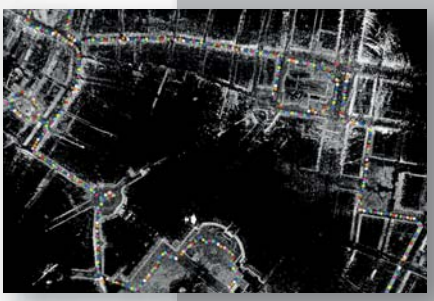
Watch our videos! **youtube.com/rieglms**

www.riegl.com

VZ-400i Field Experience:

One of the fastest scanners on the market: **500+ scans** (50 mdeg) **within 8 hours**, **handled by one operator**!

RIEGL VZ-400i night scan in Vienna



scan positions' overview

scan data detail, reflectance scaled

Further Application Examples:

construction site monitoring

forensics & investigation

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