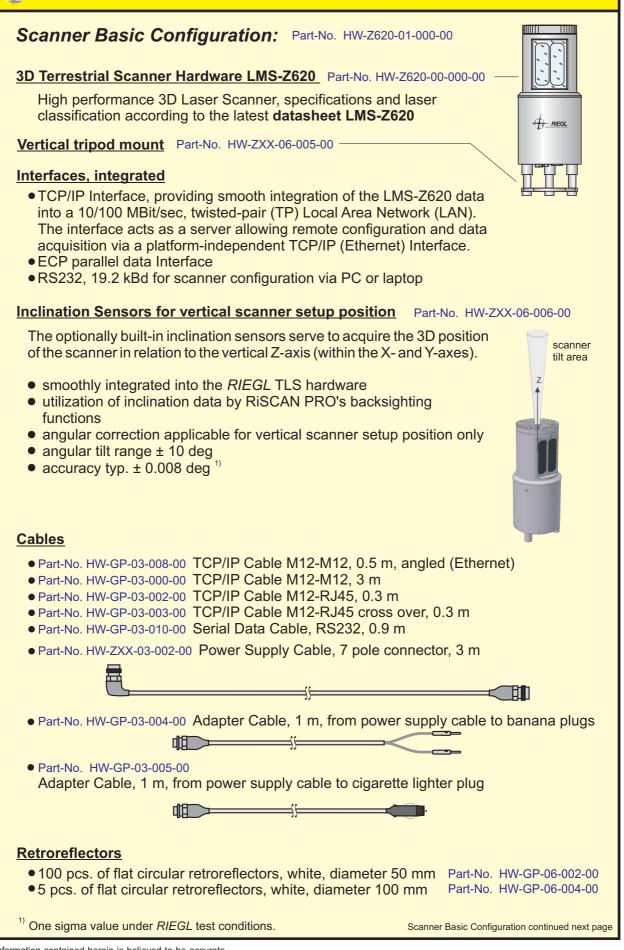


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# **RIEGL** SYSTEM CONFIGURATION 3D TERRESTRIAL SCANNER LMS-Z620



# **RiSCAN PRO Viewer, Acquisition & Processing Software** Part-No. SW-GP-07-000-00

For detailed description of main functions see RiSCAN PRO datasheet.

- The companion software package to the *RIEGL* Terrestrial Laser Scanner products
- Using a well-documented tree structure for comfortable access and clarity
- Project oriented, XML file format
- For operating systems WINDOWS XP (recommended), WINDOWS 2000 SP2 or above

#### includes:

- RiSCAN PRO Viewer License for visualizing of already acquired RiSCAN PRO projects and simple data evaluation
- RiSCAN PRO Acquisition License for *RIEGL* scanner configuration and data acquisition, global scan data registration, viewing and export of merged, filtered pointclouds
- RiSCAN PRO Processing Single User License (Dongle) for advanced data processing and evaluation of already acquired RiSCAN PRO projects

## RiScanLib OFFLINE Scan Library Part-No. SW-GP-07-002-00

- The basic version of the RiScanLib allows the software developer the <u>offline scan data</u> <u>decoding from a 3dd file</u>. This library will assist the software developer in writing an own software application. Since the RiScanLib is based on COM technology it can be used in many programming languages. It consists of several DLL's for scan data decoding.
- "Visual C++" example and full documentation is included
- For operating systems WINDOWS XP (recommended), WINDOWS 2000 SP2 or above

#### RiPORT Driver Part-No. SW-GP-07-001-00

(included within RiSCAN PRO Acquisition License)

- Low-level data acquisition via ECP on PC platform
- Code examples for C++
- For operating systems WINDOWS XP (recommended), WINDOWS 2000 SP2 or above

#### Firmware maintenance for 12 months Part-No. FW-Z620-12-000-00

• Free firmware updates

#### RiSCAN PRO Software maintenance for 12 months Part-No. ST-GP-06-000-00

- Free software updates
- E-mail and telephone support

#### User's Manual (in English language)

"Technical Documentation & User's Instructions" including, between other things, instructions for: Safety, Installation, Operation, etc.

Scanner Basic Configuration Package Part-No. HW-Z620-01-000-00

# **RIEGL** SYSTEM CONFIGURATION 3D TERRESTRIAL SCANNER LMS-Z620

# Scanner Software Options:

Free software updates and e-mail/telephone support for 12 months included.

#### **RiSCAN PRO Processing Network Server License**

Part-No. SW-GP-02-003-00

Includes 10 licenses for RiSCAN PRO Processing, administrated by a network server program. Licenses can be allocated to single processing computers in the same network. Checking out of single licenses to a USB dongle is possible. 2 dongles added to scope of delivery.

Single User License mandatory.

#### License RiSCAN PRO Plugin Camera Module Part-No. SW-GP-02-000-00

Enables automatic acquisition of calibrated and orientated images via USB or IEEE 1394 "firewire".

#### License RiSCAN PRO Plugin Multi Station Adjustment Module

Part-No. SW-GP-02-001-00

- Advanced registration based on overlapping pointclouds
- Advanced registration and adjustment based on tiepoints, controlpoints
- Advanced registration and adjustment based on additional plane information

#### License RiScanLib ONLINE Scan Library Part-No. SW-GP-02-002-00

The online version of the RiScanLib library assists the software developer in writing an own software application for an LMS-Zxxx scanner, i.e. to <u>control the scanner and to acquire scan data online</u> via TCP/IP or parallel port.

Since the RiScanLib is based on COM technology it can be used in many programming languages. It consists of separate DLL's for scanner configuration, reflector extraction, and scan data decoding.

"Visual C++" example and full documentation is included.

For operating systems WINDOWS XP (recommended), WINDOWS 2000 SP2 or above.

# Scanner Hardware Options:

## Internal Sync Timer for GPS-synchronized time stamping of scan data

#### Internal Sync Timer Part-No. HW-GP-02-000-00

The scanner optionally offers a time-stamping mechanism to add real-time-clock information to each laser range measurement. Taking full advantage of this feature needs, e.g.

- a GPS synchronization output line, sending SYNC pulses in periods of 1 second (1PPS), permanently connected to a scanner input line (Trigger input).
- the GPS serial RS232 port connected to a PC controlling the scanner for time synchronization purposes (by means of the *RIEGL* software tool RiSYNC) prior to scan data acquisition or for synchronization checks.

Both SYNC pulse as well as RS232 interface are standard for GPS receivers.

#### RiSYNC Single User License Part-No. SW-GP-02-005-00

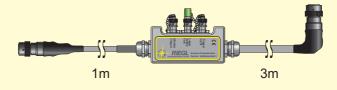
Software tool to synchronize the scanner's time with the time gained by the Global Positioning System (GPS)

RiSYNC License Scope of Delivery:

- CD coming with software setup and online help-manual
- License Certificate including License Code related to serial number of *RIEGL* scanner in use
- User's manual in printed form
- E-Mail and telephone support for 12 months from delivery
- Software updates within 12 months from delivery

## Special Power Supply Cable Part-No. HW-ZXX-03-014-00

Special power supply cable for external connection and reset of the internal sync timer, length approx. 4 m.



# Services:

## Two-day training Part-No. ST-GP-11-000-00

Regarding the hardware as well as the operating software RiSCAN PRO. The training will be held either at our site in Horn, Austria, or at your site (travelling and accommodation expenses to be added).

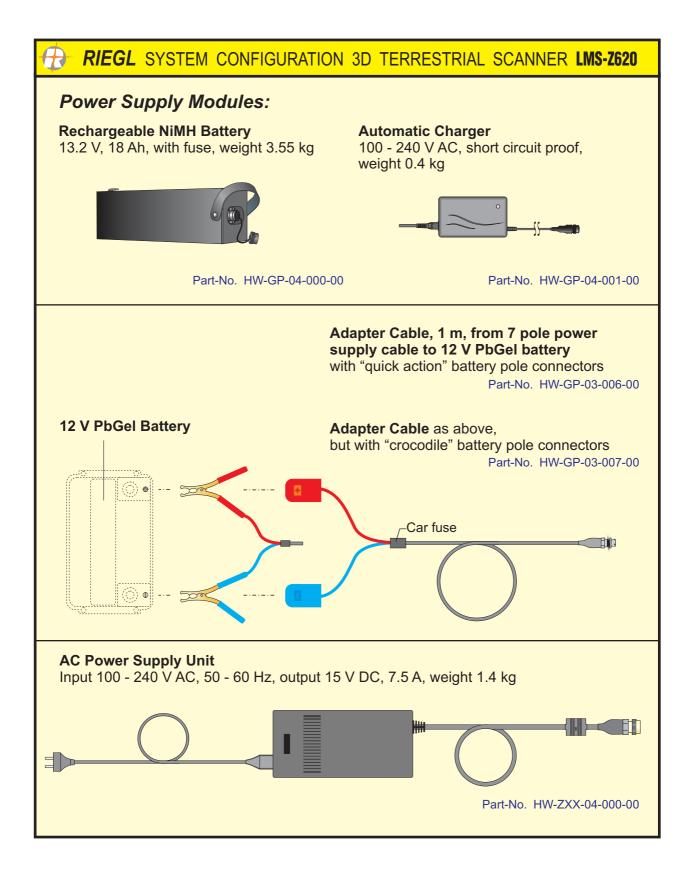
#### Intensified additional training Part-No. ST-GP-11-001-00

Covers advanced working with the scanner hardware as well as processing of the acquired data with RiSCAN PRO. Price per 8 hours working day (travelling expenses to be added).

## Digital Camera Calibration Service for up to three camera lenses

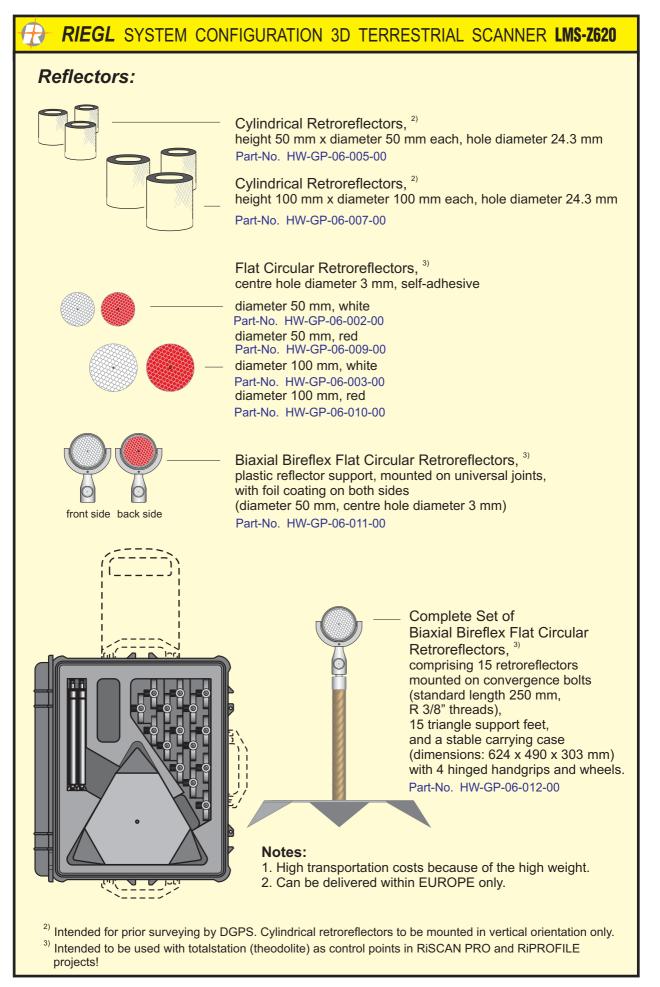
Part-No. ST-GP-11-002-00

Provides complete set of camera calibration parameters for use in RiSCAN PRO including internal calibration, lens distortion parameters and mounting calibration parameters. Parameters are delivered within a RiSCAN PRO project. Calibration statistics included (available for camera-lens combinations as recommended by *RIEGL* LMS).



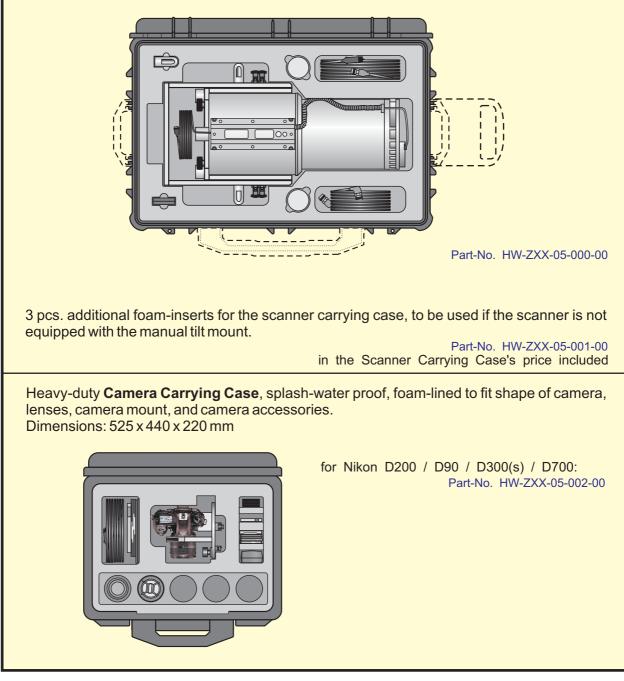
(12/11/2010)

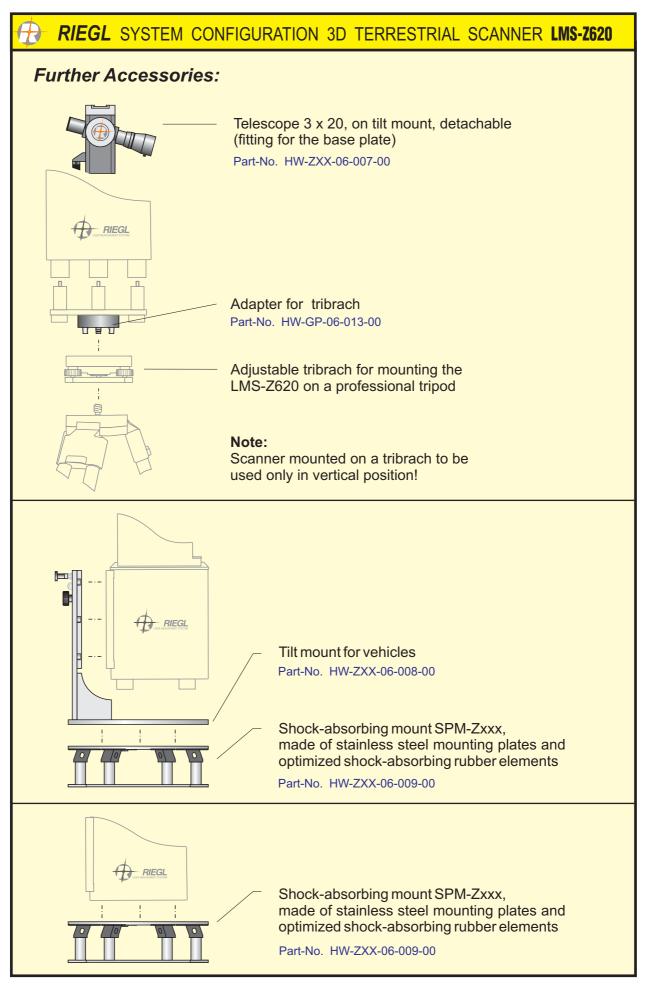
21/12/2010



# Carrying Cases:

Heavy-duty **Scanner Carrying Case CC-Z620** with 4 hinged handgrips and wheels, splashwater proof, foam-lined to fit shape of LMS-Z620, mount for manual tilt and cables. Dimensions: 785 x 520 x 295 mm





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