RIACQUIRE

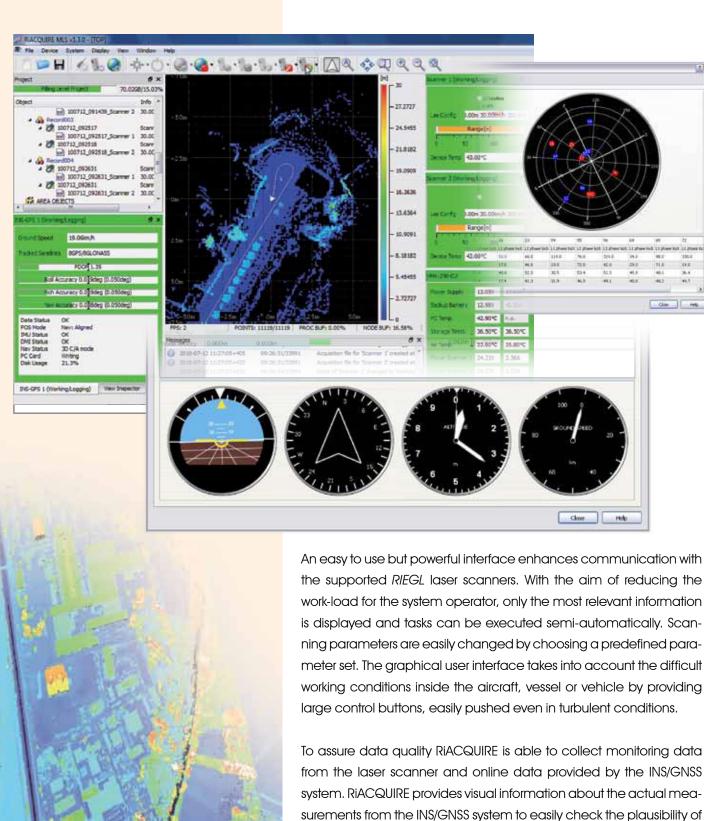
for RIEGL Airborne & Mobile Scanner Systems

- project-oriented scandata acquisition and scanner control
- online visualization of geo-referenced monitoring data during acquisition
- quality assurance with detailed history of events, system parameters and operator's interactions
- status feedback for fast recognition by the operator
- use of flight plan information for automated acquisition (ALS)

RiACQUIRE covers a wide variety of tasks present in *RIEGL*'s mobile and airborne laser scanning systems. Both, mobile and airborne systems comprise at least one laser scanner, a position and attitude measurement system, and an operator's work station. Many systems further comprise camera sub-systems, additional laser scanners, mass data storage devices, and mechanical subassemblies.

The tasks covered by RiACQUIRE are allocated to the phases of system integration, system verification & testing, and operational data acquisition.





To assure data quality RiACQUIRE is able to collect monitoring data from the laser scanner and online data provided by the INS/GNSS system. RiACQUIRE provides visual information about the actual measurements from the INS/GNSS system to easily check the plausibility of the results. A continuous recording of system status, INS/GNSS attitude and position, and all the interactions of the operator with RiACQUIRE,

RIACQUIRE now also supports information from flight guidance software solutions for the automatic data collection according to a predefined flight plan.

provides a detailed history of the survey mission, which is stored for

analysis and documentation later on.

System	Verification	Operational
Integration	Testing	Data Acquisition
 identification of system components definition of interfaces and protocols configuration of system components 	 verification of cabling and communication verification of configuration logging of warning and error messages logging of communication checking of consistency of project data prior to survey 	 acquisition and storage of data automatic acquisition according to flight plan management of mass data storage visualization of system status and navigation information analysis and visualization of on-line data

RIACQUIRE Key Features



RIACQUIRE System Requirements

Tested operating systems: Microsoft Windows Vista, Microsoft Windows 7 & 8

Linux Ubuntu/Kubuntu (tested with version 14.04)

other Linux distributions or versions may also work but have not

been tested

Memory requirements: 4 GB RAM minimum

Disk space requirements: approx. 40 MB on Windows and

approx. 215 MB on Linux free disk space for the program

Interfaces: Network interface (ethernet, LAN) with 1 GBit

Serial interface RS232 (for some INS-GPS or camera trigger)

Graphics requirements: Screen resolution at least 1280 by 1024 pixels

64 MB Memory minimum, 128 MB or more recommended

OpenGL driver 1.4 or higher

Peripherals: Pointing device like a mouse, touchpad,

trackball or touchscreen, standard keyboard

RIACQUIRE Download Information

RiACQUIRE is available for download in the members' area of www.riegl.com

In order to download RiACQUIRE, it is necessary to be registered. After registration and activation, you will be able to download the current version. Subsequently, you will be kept updated in case of later software version releases.



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