

LIDAR Control System



Components:

- Ruggedized embedded fanless computer designed for mobile applications
- 8.4" high-brightness touchscreen TFT operator monitor
- External AC power adaptors
- Cables
- User's Manual
- LIDAR Capture software installed

Description:

The *LIDAR Control* system provides a control interface to Riegl LMS-Q140/160/240/280 laser-scanners and captures and stores measurement data from these laserscanners. It is designed to be used in ground or airborne vehicles for continuous data acquisition in connection with a GPS/IMU system (not included). It directly interfaces with the laserscanner and the GPS receiver to record both lidar and GPS time synchronization data. The included *LIDAR Capture* software provides an easy-to-use operator interface for controlling operation of the laserscanners and for storing measurement data in flight. Important system parameters and measurement values are displayed and updated numerically and graphically to ensure reliable operation at all times. In case of missing signals or questionable data quality the user is alerted to avoid undetected data loss during survey flights. The storage capacity exceeds 30 hours of continuous data recording so that no flight interruptions for data downloads are necessary.

After the survey data may be downloaded from the *LIDAR Control* unit via 10/100 MB ethernet, or external USB or Firewire storage devices.

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Features and Specs:

▪ CPU

- Interfaces directly to Rieggl LMS-Q140/160/240/280 series laserscanners and GPS receiver via ECP and RS-232
- Records laserscanner data, GPS timetags, and GPS PPS
- Storage capacity \geq 30 h continuous recording
- Internal rechargeable buffer battery to bridge power supply variations and outages up to 15 minutes
- Dimensions: 320 x 160 x 66 mm (L X W x H), 3.9 kg
- Power supply: 8 - 30 VDC (typ. 1.5 A @ 24 VCD)
or 100 - 240 VAC (external adaptor)
- Protection: IP-54

Operating conditions:

- temperature: 0°C to 50°C
- rel. humidity: 5 - 90% non-condensing
- altitude: up to 4500 m MSL

▪ Display:

- 8.4" TFT touchscreen, 800 x 600 pixels
- High brightness: up to 650 cd/m²
- DVI + USB interface
- Dimensions 218 x 182 x 39 mm, 1 kg
- Power supply: 8 - 32 VDC (typ. 1.0 A @ 24 VCD)
or 100 - 240 VAC (external adaptor)