

## Laser and GPS Data Capture



The data capture application provides data collection of GPS and object distance information on a standard Windows computer. A time-of-flight laser or a line laser as well as a GPS tracking device is provided with USB interface hardware and cables. The data is logged in a time-stamped .csv file as well as displayed in real-time on the computer.

Data	
Current GPS Data	
205625.0: Long W122 19.8974, Lat N37 59.2798, 0 mph, 11 satellites	
Current Time Stamp	
13/10/2015,13:56:27:4792	Current Laser Data
	D 1.89 m (74.4 in = 6 ft, 2.4 in), I 38
Log File Name:	
Log-2015-10-13 (13-33-30-2315).csv	

The Acuity AR1000 or AR2500 laser is appropriate for indoor or outdoor use and can be mounted to a vehicle. The laser can be configured to locate objects either vertically above or below the vehicle or horizontally away from the vehicle. The application can be used to map objects that provide vertical or horizontal obstructions. It can also be used to measure heights of object piles. The Acuity AP820 line laser can be used with the data capture application to build more precise 3D models of mapped objects.



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## DATA CAPTURE PACKAGE

- Acuity AR1000, AR2500 or AP820 laser
- GlobalSat BU-353-S4 GPS sensor
- Laser power supply and power cable
- USB cables
- USB to RS-232 serial adapter
- Data capture application software for Windows

## PC REQUIREMENTS

- Windows 7, 8, or 10 operating system
- Minimum 1 USB port

## OPTIONAL CONFIGURATION

- Minimum or maximum distance thresholds or minimum light intensity level to filter out unwanted data
- Operator notes to store alongside recognized objects in the log file
- Laser optical configurations
- Object graphical maps

## APPLICATIONS

- Transportation
- Agriculture
- Mining
- Energy
- Facilities
- Mapping