

# AXLELIGHT<sup>®</sup>

LASER AXLE SENSOR

## Vehicle Data Collection

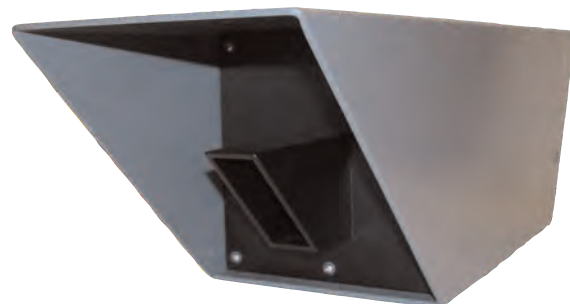
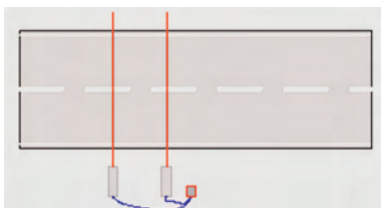
The AxleLight™ laser sensor from Peek Traffic is the newest type of device available for vehicle data collection. It is a laser axle sensor for use with the feature-rich line of existing ADR Plus traffic recorders from Peek Traffic. The AxleLight sensor allows users to perform challenging traffic studies without venturing into or crossing a hazardous roadway to install road tubes or reflectors. Its non-invasive operation reduces installation time and eliminates the need to expose field personnel to unsafe work conditions.

The AxleLight sensor is mounted close to the ground for easy access rather than high on a pole, as are radar or video detection products.



Using the AxleLight sensor with an ADR-1000 Plus™, field personnel can configure the laser to detect axles in 1 to 4 lanes. By using two AxleLight sensors, users can perform volume counts in 8 lanes.

Two AxleLight sensors with parallel beams 6 ft apart can perform complex vehicle classification studies in up to 4 lanes, all without needing a laptop or PDA, and without anyone having to cross the roadway.



All data types are available including one or more combinations of per-vehicle records, per-lane data, binned vehicle classification by axle, speed, wheelbase length, gap or headway. Vehicles may be classified according to the FHWA Scheme "F" or a user-defined custom classification scheme.

With the increasing cost of accessories, fuel, wages, repeat studies and lane closures, the AxleLight sensor is more cost effective to use than the commonly used road tube for portable traffic data collection. Increasing traffic volumes make it more important than ever for employers to keep their field staff out of harms way. The AxleLight sensor keeps your people out of the road (it doesn't even require a reflector) and at the same time reduces the cost per study.

## Features

- Laser Axle Sensor (non-visible)
- Improves personnel safety - nothing required in or across the roadway
- No reflector required on far roadside
- Portable
- Universal mounting bracket
- Quick & easy to set up (no laptop or PDA required)
- Weatherproof housing
- Low Power consumption
- Compatible with ADR Plus units

## Interface and Communications

- RS 232
- Contact Closure Output

## Physical Description

The AxleLight sensor is packaged in a self-contained weatherproof housing. All controls and cable connections are on the back of the unit for easy access. All interconnection cables for use with Peek Traffic ADR Plus line of data collectors are provided.

A separate Battery Box is provided to house a 3.6V or 12V DC power source capable of powering the laser for up to 72 hours, or an optional battery for longer studies up to 7 days.

The AxleLight sensor is capable of operating in harsh environments from -40 to +165 F. Environmental chamber testing and inspecting is based on ISO9000 standards of operation enabling Peek Traffic to provide a high quality product.

## Two Year Limited Warranty

Peek Traffic warrants this product against manufacturing defects in materials and workmanship for two years from date of shipment from Peek Traffic. Specific contracts and regional laws may vary or alter these terms.

## Specifications

Property	Description
Housing	Rugged weatherproof housing
Finish	Electro statically applied powder coat
Weight	Laser 12 lbs (5 kg) Battery 25 lbs (11 kg)
Size	6.5"H x 6.5"W x 17"L (165 mm x 165 mm x 432 mm)
Temperature	-40 F to +165F (-40 C to +74 C)
Display	6 LEDs Power Laser On 4 Output Status indicators (1 for each lane)
Inputs	RS 232
Power Requirements	3.6V 96 AH 3-day study 3.6W 3.6V 192 AH 7-day study 3.6W 12V 28 AH 3-day study 4.2W 12V 1.5 W in shutdown 3.6V 1.2 W in shutdown
Approvals	FDA Type 1 Eye Safe



*AxleLight Back Panel Controls*



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