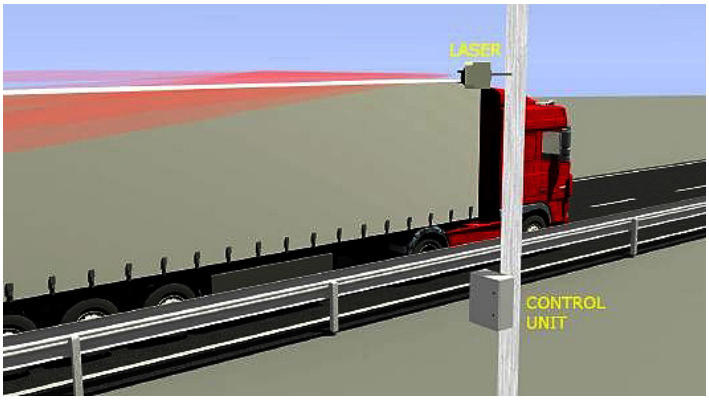
OVER-HEIGHT DETECTION SYSTEM

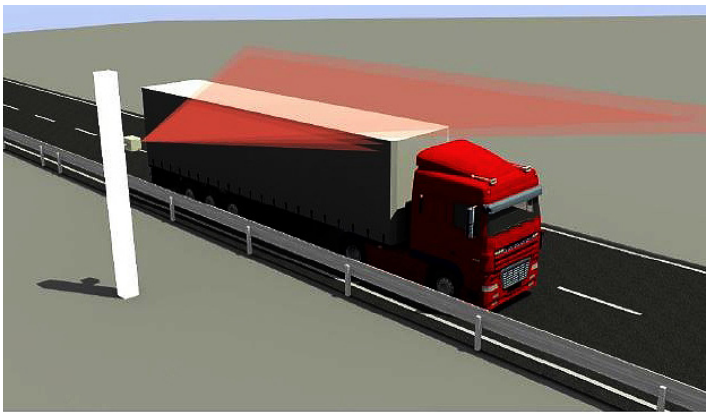
i:TS Overheight Vehicle Detection System

An overheight detection system monitors a vehicles height and gives drivers or Road Management Authorities advanced warning if the vehicle exceeds the maximum height for an approaching overhead structure.

The system can help prevent high value assets such as bridges and tunnels from being struck by overheight vehicles. The solution saves time, money and also many unseen downstream effects that may impact business, insurance and the community in general. In most cases it only takes the prevention of one significant impact to pay for an entire overheight detection system making return on investment extremely fast.

At Intelligent Traffic Systems we can design, develop and install off the shelf and bespoke solutions for overheight vehicle detection. The system consist of a laser scanner detector combined with a control unit to trigger an electronic warning sign.





System Features

Overheight Detection System:
- Laser scanner technology sensors
- Electronic warning signs with flashing LED beacons
- Uninterruptable power supplies (optional)

Overheight Detectors
- Laser scanner technology
- Reinforced polycarbonate casing
- Weatherproof rating to IP65
- Detection distance: 30m
- Maximum vehicle speed: 150 km/h
- Operating temperature: -20 ° - +50 °

Electronic Warning Signs
- Ultra-bright LED flashing beacons
- Static or variable message sign display
- Solar or mains power connectivity

Optional Extras
- Video
- Traffic counter
- Audible alarm

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Case Study:

Our customer rents excavators and other heavy equipment that is loaded onto a flat deck truck. These loads have the potential to exceed maximum vehicle heights and therefore pose a strike risk to infrastructure such as bridges. To mitigate this risk and to alleviate our customer of the responsibility they required a detection system to alert their despatch office that the vehicle exiting the facility contained a load that was over-height. This enables the carrier to make adjustments to reduce the overall height to a legal height prior to leaving the premises.

Solution:

A pre-calibrated over height laser scanner system with 4 planes of detection, powered by solar panels and batteries was installed on the exit road leading to the gate house. Once an over-height load was detected an audible alarm is triggered combined with a wireless signal sent to an LED enhanced flashing warning sign located at the gate house. This enables both the load driver and gate house staff to be notified the load is over-height preventing the vehicle from exiting the premises.