



# BRIDGE STRIKE PREVENTION

TECHNOLOGY FOR SMARTER HIGHWAYS



**VPS**  
HIGHWAYS  
SOLUTIONS

[www.vpsgroup.com](http://www.vpsgroup.com)  
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# OVER HEIGHT DETECTION

A pair of 'Electronic Goal Posts' mounted onto VPS Smart Towers, detect over height vehicles on diversion route near any potential bridge strike locations. Variable Messaging Signs are automatically triggered, displaying **Warning Low Bridge - STOP**

## Over Height Vehicle (Bridge Strike Detection)

- Installation of 2 sets of electronic goal posts
- VMS warning signage when over height vehicle detected
- Easily deployed by Traffic Management Operatives (TMO's)
- TMO's can receive an alert via SMS upon a trigger with the appropriate over height vehicle direction
- On site TM team will control a set of temporary traffic lights to prevent strike and turn vehicle around

## Features & Benefits

- Easily deployed using the VPS Smart Tower
- Mounted & Powered using the VPS Smart Tower
- Messages displayed on our VMS units
- Bridge strike incidents can cause death or serious injury to road and rail users and are financially costly to the vehicle owner and the railway

## Applications Include

- Bridge Strike Detection
  - Traffic management diversion protection
- Work Zone structure protection



# OVER HEIGHT DETECTION SPECIFICATION

Benefit from the added protection with over-height vehicle detection. The Over-Height Vehicle Detection System (OVDS) offers a proactive solution for owner / operators that want to actively monitor traffic on routes where overhead obstructions pose a strike risk, and provide strike warnings to drivers of vehicles that are too large.

The system uses laser sensors to monitor traffic on approach to obstructions such as tunnel entrances, low overpasses and bridges. If a vehicle is too large to pass safely, it is detected, triggering a remote warning sign placed further along the route and an audible alarm that instructs the driver to alter their course or stop before they reach the obstruction.

## Smart Tower Specification

Power options - Mains (90-305V AC), 24VDC, battery, hydrogen, fuel cell or generator  
Operating power - 135W  
Backup power (UPS) - Up to 15 hours  
UPS charge time - Less than 7 hours via mains  
Tower weight - 295kg  
Base size - 1m x 1.1m  
Base size with stabilisers - 1.5m x 1.5m  
Tower height delivered 3.2m  
Tower height operational - 7.5m Max  
Operating temperature range - -10°C to +40°C  
IP rating - IP65  
Wind loading - 110mph

## Low Speed VMS Specification

Operating Height	3490mm Max
Travel Height	2387mm (+/- 12mm)
Length	2067/2626mm
Width	1600mm
Weight	750

## High Speed VMS Specification

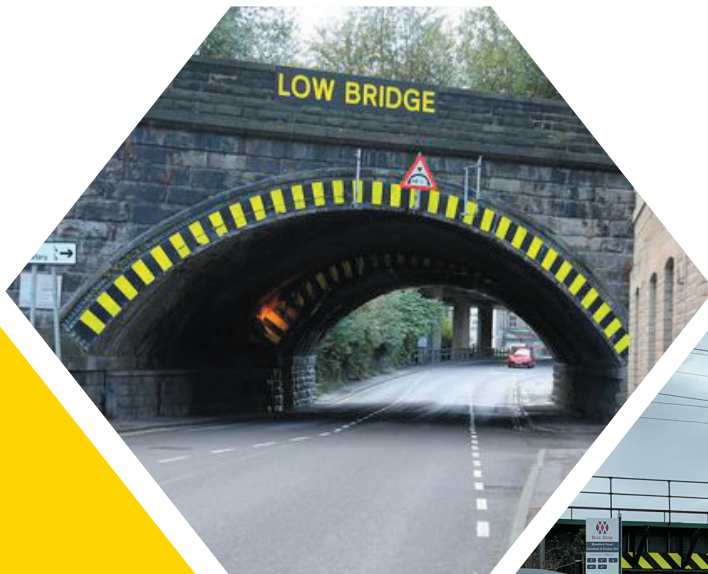
Operating Height	4130mm Max
Travel Height	1855.91mm
Length	4490.46mm
Width	2019.30mm
Weight	1800kg

## VMS Display

Can display 5 lines of up to 16 characters







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