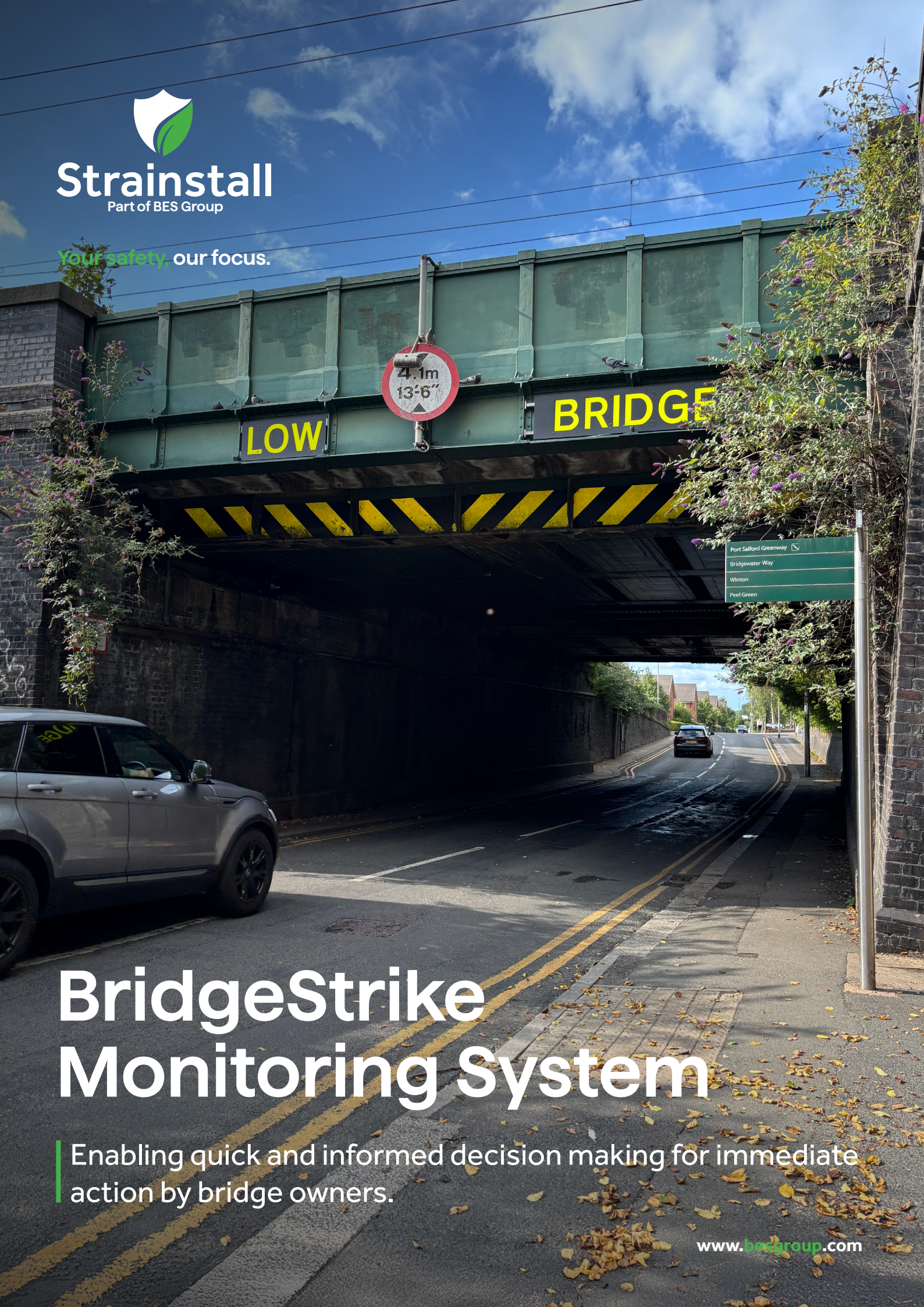




Strainstall
Part of BES Group

Your safety, our focus.



BridgeStrike Monitoring System

Enabling quick and informed decision making for immediate action by bridge owners.

www.besgroup.com

Introducing the **BridgeStrike** Monitoring System

Bridge strikes cause severe disruption with road and railway line closures, leading to significant costs, delays and congestion. This negatively impacts business, commuters, bridge owners and the wider economy. Safety is critical and bridge owners need to be able to respond effectively to an incident in order to minimise the risk to road and rail users, staff and transport operators.

The problem is prevalent for both road and rail operators and it is estimated that up to 10 bridges strikes occur every day in the UK. Network Rail estimates that bridge strikes cost around £23m in repairs, compensation and delays annually. These incidents are not isolated events and often problem structures are struck multiple times. According to Network Rail, over 350 bridges have been hit on more than one occasion.

Whilst a range of initiatives such as driver education, better signage, and improved route planning tools can help; bridge owners and operators need to be able to manage the response to an incident effectively and where necessary, recover costs from the vehicle owner.



*BridgeStrike ensures **public safety and minimises disruption** by informing operators immediately in the event of a collision.*

Real-time bridge strike monitoring

BridgeStrike provides an effective and reliable means to monitor bridges remotely, offering 24/7 surveillance and instant notification when a strike occurs.

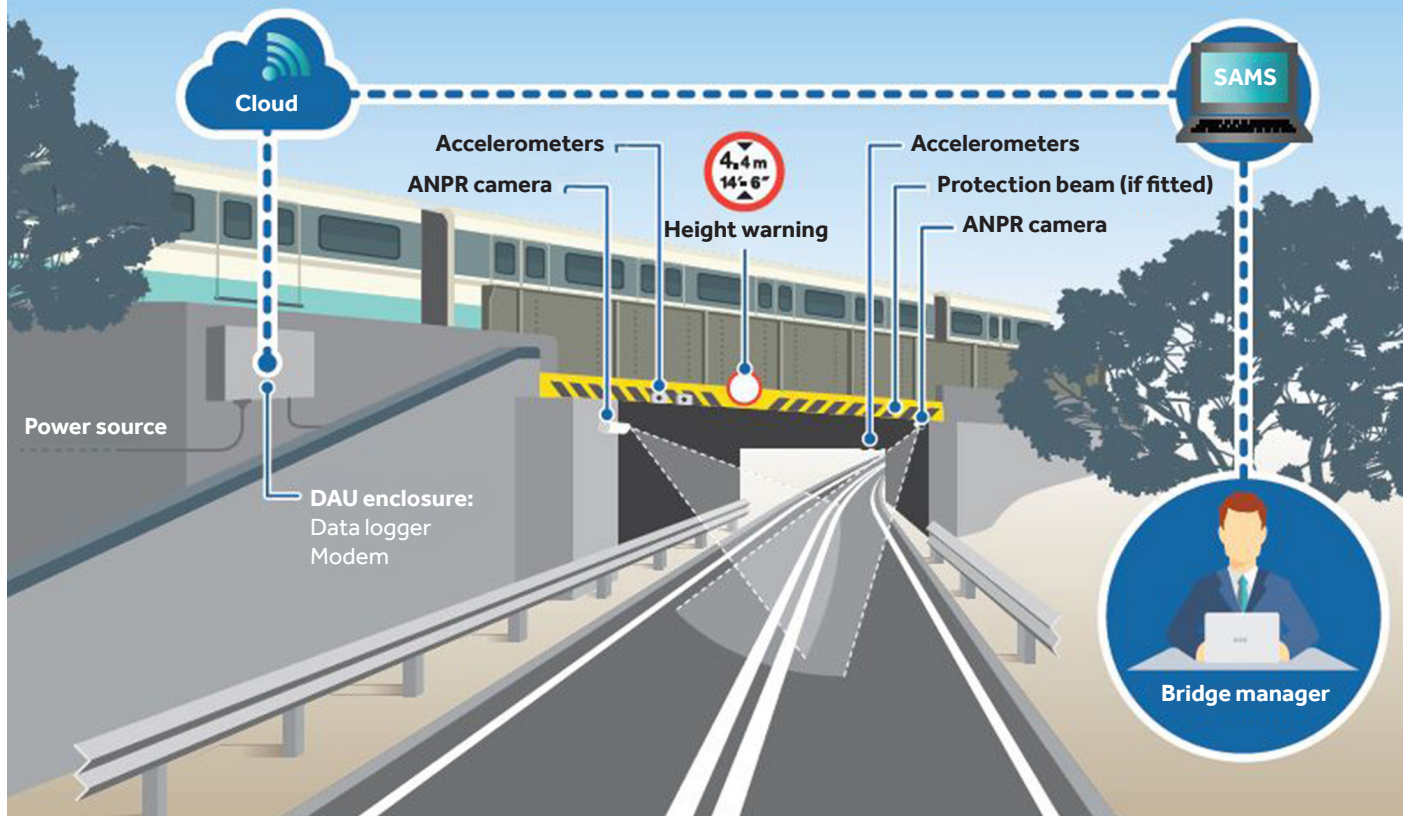
Our BridgeStrike monitoring solution has been devised to be cost effective for widespread installation, without compromising on accuracy and performance.

The system can be installed at any point in a bridge's operational life and applies to a range of different structures of all sizes and configurations, covering both road and rail.

Key benefits

- Fully automated operation, logging and reporting of incidents
- Easily integrated into existing bridge structures
- Indicates severity of strike which allows operator to respond efficiently
- Allows remote monitoring of structures in isolated locations
- Reliable and easy to maintain
- Modular system enables additional sensors and functions to be added when required
- Helps to minimise unnecessary closures and restrictions as the severity of incident is immediately known
- Demonstrates due diligence for owners and operators
- Improves public safety
- Enables bridge owners to identify offending vehicles' owners to recover costs

BridgeStrike Monitoring System



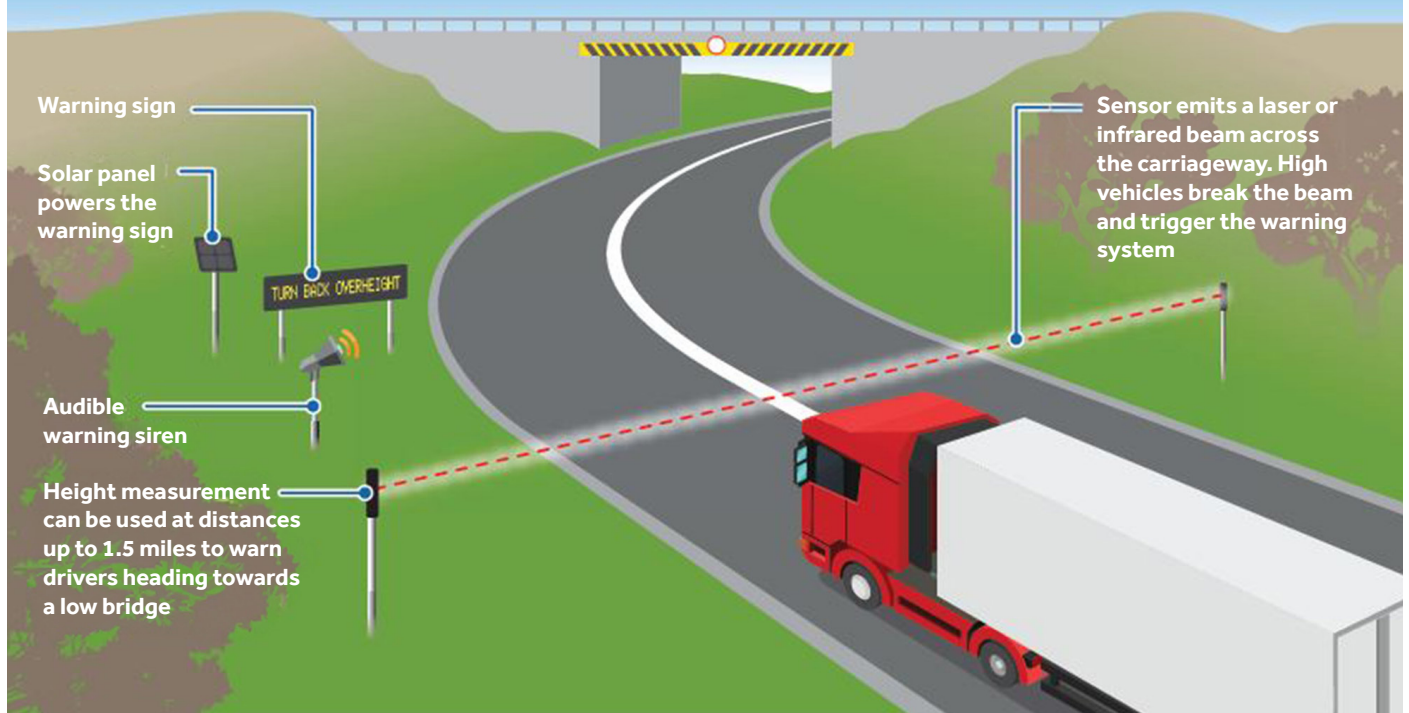
Features

- IP66 rated ANPR cameras
- Accelerometers
- Signal conditioning
- Modem (typically fixed IP 4G)
- Configured industrial PC system
- Software with access to live data
- Automatic email alerts
- Stainless steel locked enclosure
- 110V/230V UPS / solar / hybrid power source options

Options

- Over-height vehicle detection system using laser sensors
- IR (infrared) illuminators
- Audible alarm signalling
- Temperature sensors
- Bridge deck movement sensors

Further 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 warn drivers of specific vehicles that are too large of an impending collision.

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 before they reach the obstruction.

**Your safety,
our focus.**

For more information:
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