

DVS COMPLIANCE

Progressive Safe Systems [Solutions](#)

FONIX[®]
T E L E M A T I C S

“Fatal collisions where poor vision is a contributing factor have **fallen 75%** since the introduction of the DVS in 2019.”

Direct Vision Standard: Guidance for operators
Transport For London



DVS

WHAT IS IT?

The Direct Vision Standard (DVS) was introduced by TFL in 2019 aimed at reducing the number of serious injuries and collisions between HGVs, pedestrians and cyclists on London's roads.

The DVS measures a driver's direct view through the windows of an HGV cab for all HGVs weighing over 12 tonnes. A star rating between one and five is then given to the view, from zero for a poor view, to five for an excellent view, indicating the risk to those walking or cycling close to the vehicle in question.

The DVS star rating scale

0	★ ★ ★ ★ ★	Limited direct version
1	★ ★ ★ ★ ★	
2	★ ★ ★ ★ ★	
3	★ ★ ★ ★ ★	Minimum from Oct. 2024
4	★ ★ ★ ★ ★	
5	★ ★ ★ ★ ★	Good direct version

For those at the lower end of the star rating scale, TFL have refined measures to improve the driver's vision and help reduce the likelihood of collisions.

From 28th October 2024, DVS requirements changed.

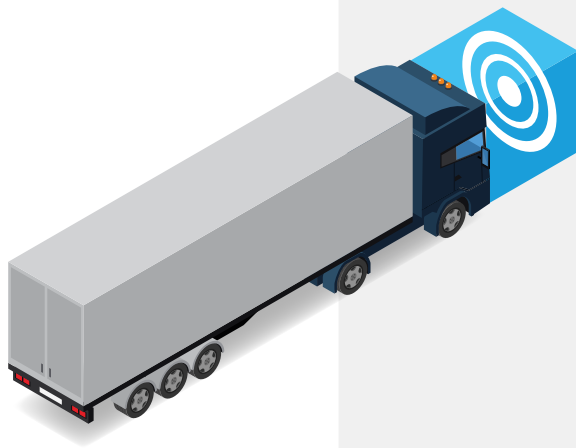
Since the DVS was launched, the minimum DVS star rating for HGVs to operate in London had been one star.

From October 2024, these requirements were enhanced, and the minimum DVS rating required became three stars. This meant that vehicles rated two or below on the DVS star rating scale, including unrated vehicles, needed to have the new Progressive Safe System (PSS) fitted.

DVS Phase 2 permit applications opened from 24th June 2024, and once granted, these were valid until 2030.

WHAT DO YOU NEED TO BE DVS COMPLIANT

To ensure your fleet is compliant for an HGV safety permit, you will need to install a new Progressive Safety System. The requirements are as follows:



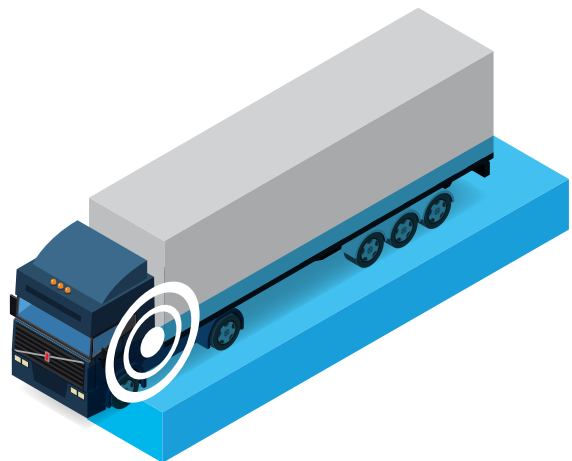
Moving Off System (MOIS)

Vehicles must have a front sensor system that activates a proximity information signal to the driver, detecting pedestrians or cyclists entering the critical blind spot area in front of the vehicle when the subject vehicle is stationary with the brakes applied. This signal must be escalated to a collision warning if the driver begins to prepare the vehicle to move off from a resting position.



Blind Spot Information System (BSIS)

Blind spot information systems must be fitted to the vehicle to ensure full coverage down the nearside of the vehicle. Sensors must not activate in response to roadside furniture or stationary vehicles where a collision is imminent.





✓ Audible Vehicle Manoeuvring

Vehicles must be fitted with audible warning equipment to make nearby pedestrians, cyclists and other road users aware that the vehicle intends to carry out a turning manoeuvre. The volume of the audible warning, measured at one metre from the sounder, should be between 65 and 88 decibels/dB(A).

✓ Camera Monitoring System

Class V and VI mirrors, alongside a camera monitoring system, should be fitted to the vehicle: Class V at the nearside and Class VI to the front. Completely eliminating all remaining nearside blind spots.



✓ Side Under-run Protection

Vehicles must be fitted with appropriate side under-run protection to minimise the severity of under-run collisions. This must be provided on both sides of the vehicle unless it would be demonstrably impractical on one side. Operators should consider improved sideguard design, such as flat panel sideguard protection.

✓ External Blind Spot Stickers

Warning signage must be displayed on the rear of the rigid vehicle and any trailer unit in use, not the front tractor unit. This must be designed to warn people walking and cycling of the hazards posed when near the vehicle.



FONIX PSS SYSTEM SPECIFICATIONS

PSS Warning Area

A PSS (Progressive Safe System) is what TFL have called the new safety elements. This includes the BSIS Radar and MOIS Radar.



Immediate Danger Zone

MOIS - Width of vehicle + 500mm
either side / depth 2000mm

BSIS - Length 10m / depth 2.5m



Monitored Zones



PSS Smart Display

The Fonix in cab display will warn the driver of imminent collisions at the front and side blind spot via visual and audible alerting on the in cab PSS Smart Display.

Features:

- Crystal clear LED Display
- Visual and Audible alerting
- High and Low level Alerting
- Dual Radar functionality
- VRU Location Alerting
- Night Mode
- Self Fault Diagnosis
- Built in GPS



FONIX®

MOIS Radar

The Fonix Moving Off Information System (MOIS) will warn the driver of imminent collisions at the frontal blind spot zone when a vehicle moves off from rest.

Features:

- Operational up to 15 km/h
- VRU (Cyclist/pedestrian) Identification
- Time To Collision TTC Algorithm
- Customisable Radar Range
- No false alerts from street Furniture
- Self learning



BSIS Radar

The Fonix Blind Spot Information System (BSIS) will warn the vehicles driver of an imminent collision between the moving vehicle and a VRU in close proximity to the nearside of the vehicle.

Features:

- Operational up to 30 km/h
- VRU (Cyclist/pedestrian) Identification
- Time To Collision TTC Algorithm
- Radar range 15m (as standard)
- Self diagnosis - Fault Checking
- No false alerts from street Furniture
- Self learning

What can be used from your Existing DVS kit?



Near Side Camera



Monitor



Left Turn Alarm

FONIX PSS PACKAGES

We have a range of packages to bring your fleet inline with the latest DVS standards. From operators looking to upgrade from a 1 or 2 star system to kitting out a brand-new truck we have everything you need.

DVS Upgrade Kit

We have designed a simple, cost effective upgrade kit which allows you to utilise the equipment from your existing DVS kit. This kit is versatile and can be installed on any type of truck and works in conjunction with kit from any other supplier.

- ✓ MOIS Radar
- ✓ BSIS Radar
- ✓ In Cab Display



DVS Kit

A full DVS kit is required for vehicles that do not have a safety system installed on them. This is the minimum spec you will need to obtain your DVS permit.

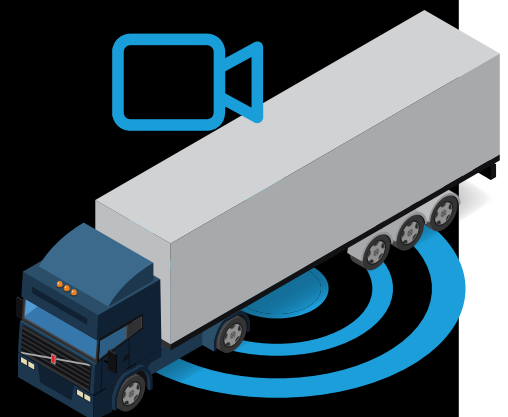
- ✓ MOIS & BSIS Radar
- ✓ In Cab Display
- ✓ Left Turn Audible Alarm
- ✓ Monitor
- ✓ AHD Near Side Camera
- ✓ Safety Sticker



DVS Kit with DVR

We have a range of Camera Packages to complement our DVS solution. Our most popular kits are the 3 & 4 camera systems which will protect your vehicles and drivers from the dangers of the other road users.

- ✓ MOIS & BSIS Radar
- ✓ In Cab Display
- ✓ 4 Channel AHD DVR
- ✓ Fwd, Near, Off and Rear Cameras
- ✓ Left Turn Audible Alarm
- ✓ Monitor
- ✓ Safety Sticker



WHY BUY THE FONIX DVS KIT



Simplicity

There are only 3 parts to our PSS systems, a front radar, side radar and a display.



Versatility

Our kit can be used on any vehicle and with any existing (Phase 1) DVS system.



Functionality

The radar technology we use is of the highest standard. This guarantees exceptional performance.



Quick Installation

Installation time is under two hours per kit, which allows kits to be installed when vehicles go in for their regular service. This very important as it increases efficiencies and decreases vehicle downtime.



Price point

Our kits are at a fantastic price point. This coupled with low install time, it allows us to offer a very cost effective safety solution.



Design & Customisation

We have kept our design in line with the truck manufacturer styling, The radars can also be colour coded to complement personalised livery.

It's all about attention to detail, our kit will not:



Invalidate Warranties

Drilling holes in the cab potentially invalidates the trucks (cabin) warranty.



Compromise DVSA compliance

Fit any cameras that impede visibility of the wing mirrors causing implications for DVSA compliance.



Reduce Brand Awareness

Fit safety solutions to the vehicle over prime livery locations.



"5 stars, that's all I can say.
The cameras, the software, the
install – it's all been brilliant."

Nigel Shuttleworth
Fleet Manager – BEW Electrical



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