



Brigade

You're safer with us

Direct Vision Standard Progressive Safe System



What is the Direct Vision Standard?

Introduced in 2020, the Direct Vision Standard (DVS) is a legislation that requires all goods vehicles weighing more than 12 tonnes to possess a permit to drive in Greater London.

Enforced by Transport for London (TfL), the permit is based on a vehicle's 'star rating', indicating how much a driver can see from the cab in relation to other road users. The rating (0-5) is given on how the vehicle left the production line and will not take into account any aftermarket safety systems that have been fitted.

HGVs that do not meet the minimum star rating have to be equipped with a series of vehicle safety measures to improve and aid the driver's indirect vision prior to applying for the permit. Non-compliant HGVs are banned from entering Greater London, with daily fines for both operators and drivers without permits.

The Safe System is evolving



The minimum star rating requirement for the Direct Vision Standard will increase from one to three stars in October 2024. This means that vehicles that fall short of the star rating will need to be equipped with extra safety equipment to obtain a permit.

Previously, the permit for extra equipment was called a Safe Permit, but from October 2024 that will change and be known as the Progressive Safe System (PSS). The PSS requires the latest advancements in technology and will mean that some operators will need to replace their existing equipment with new technology.

Pre-October 2024

Vehicles Affected?

0 Star rated vehicles.

Requirements?

Fit a DVS Safe System in order to qualify for a permit.

Post October 2024

Vehicles Affected?

0, 1 and 2 star rated vehicles.

Requirements?

Fit a Progressive Safe System to qualify for a permit.

The Progressive Safe System includes new additions:

1. Active Side Sensor Systems that can:



Differentiate between moving and stationary objects.



Predict collisions based on the trajectories of the vehicle and the vulnerable road user (VRU) to calculate if a collision is imminent.



Provide a specified alarm strategy to warn of the severity of the situation.

2. Front detection system or Moving Off Information System (MOIS) that requires:



Two alarms: one when the driver detects a VRU when preparing to move off, and one when the vehicle detects a VRU as it has begun its forward manoeuvre.



When the vehicle is stationary, the system must provide a signal to inform the driver of any VRUs who are in or about to enter the critical blind spot in front of vehicle.



The collision warning must be a combination of at least two modes from an optical signal, acoustic or haptic.

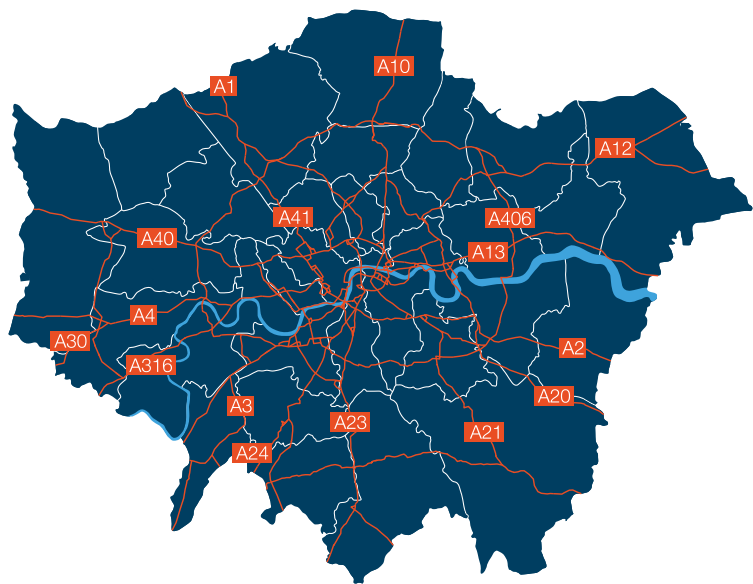
The DVS enforcement zone covers all of Greater London

How long will the permit last?

Vehicle Star Rating	Permit Expiry	Certificate
0, 1 & 2 (applying before June 2024)	27th Oct 2024	Will need to comply with the PSS requirements and re-apply
0, 1 & 2 (applying from 24th June 2024)	28th Oct 2030	Will need to comply with the PSS requirements
3, 4 & 5	28th Oct 2030	Can automatically apply

Enforcement

The scheme will be implemented by a decriminalised Traffic Regulation Order, meaning a Penalty Charge Notice (PCN) can be issued. Automatic Number Plate Recognition (ANPR) cameras will detect a vehicle and cross-check it against TFL's permit database. All vehicles must have a permit, regardless of star rating. **Operators/hauliers without a permit may be issued a PCN of £550 and £130 for the driver**, even if the vehicle is five star rated.



How to apply for a permit

The permit is free of charge and there is no requirement to display anything in the vehicle. To apply for a permit, you need to access the TfL online application form. The pre-registration period for HGV safety permits under the Progressive Safe System will open in June 2024.

Step 1

Find out your vehicle's direct vision star rating by visiting tfl.gov.uk/direct-vision-permit

- If it is **below three stars**, see step 2
- If it is **three to five stars**, see step 3

Step 2

For vehicles rated 0, 1 & 2 stars, you must ensure the PSS is fitted. You must attach:

- Visual evidence
- Sensor functionality statement
- Fitter statement

Step 3

For vehicles rated 3, 4 & 5 stars, you can apply online. tfl.gov.uk/direct-vision-permit

You will need to enter your vehicle details, operator details and your contact details. If you own multiple vehicles, you can submit this information in a spreadsheet template.



The European Union is introducing the General Safety Regulation (GSR), which is a set of safety standards and requirements that apply to heavy-duty vehicles.

Evidence needed to comply with the PSS

Provide two photographs to show you have fitted the PSS equipment:

1. One photo must show the front and nearside of the HGV, showing the front number plate.



2. The second photo must show the rear and nearside of the vehicle, including the rear number plate.



Sensor Functionality Statement

The PSS sets out specific test procedures and it is the responsibility of the DVS equipment manufacturer to confirm that products meet the requirements via a 'sensor functionality statement.' This should include details of how the products link with other systems and confirmation that they do not adversely affect any safety critical aspects or performance of the vehicle. If a product has an E-mark it will meet these requirements.

The document will need to be uploaded by the operator. If there are any non-compliance issues identified at a later date, it will be easily identified from the manufacturer used. Please visit the Brigade website to obtain the sensor functionality statement.

Fitters will also need to confirm that the sensors fitted to the vehicle are active and fitted in compliance with the technical PSS specification.

How Brigade can help

Brigade Electronics works closely with road safety associations and participates in working groups across the globe to provide expert advice on legislation and standards. Interpreting various specifications and understanding the terminology can be a minefield for operators. Brigade can advise and guide operators to make permit applications seamless.

If you are unsure what your star rating is or whether you comply, Brigade offers a free service to obtain that information for you. Simply provide us with the following details and let Brigade take care of the rest: vehicle manufacturer, vehicle type, registration and chassis number.

Brigade's products are independently tested to confirm they meet the test requirements of the PSS, and also have E-mark certification.

Brigade Service Partners are professional auto electricians who are trained and approved, so you can be assured of both quality product and fitment.

Visit **brigade-electronics.com** for further details



Scan the QR code to find out your vehicle's star rating

DVS requirements and Brigade's solutions



An active sensor system fitted to the nearside of the vehicle to alert the driver to the presence of a vulnerable road user.

1 Sidescan® Predict

Suitable for rigid vehicles

Instantly alerts the driver to potential dangers via a multi-stage in-cab visual and audible warning system, according to the urgency of the situation – therefore minimising the number of audible alerts and reducing false alarms.



2 Radar Predict

Suitable for both rigid and articulated vehicles

An award-winning advanced collision prediction system that differentiates between static and moving objects, ensuring the driver is only alerted when an impact with a cyclist is likely.



A fully operational camera monitoring system must be fitted to the nearside of the vehicle to eliminate the remaining blind spot.

3 Backeye Camera Monitor System

Suitable for both rigid and articulated vehicles

Brigade's CMS range helps drivers to see blind spots by delivering a live feed on the monitor of everything in the camera view, including people, cyclists and obstacles.



External pictorial stickers and markings shall be displayed on vehicles to warn vulnerable road users of the hazards around the vehicle.

4 Blind Spot Sticker

Suitable for both rigid and articulated vehicles





A front sensory system that detects pedestrians or cyclists in the blind spot area in front of the vehicle. The sensor system must also be reactive and not provide false alarms.

5 Front Radar

Suitable for both rigid and articulated vehicles

An advanced dual-radar collision prediction system with a 180° detection angle in front of the vehicle, that alerts drivers through visual and audible signals if a vulnerable road user is detected in close proximity.



An audible vehicle manoeuvring warning must be fitted to provide an adequate audible warning to VRUs when a vehicle is turning left.

6 Side Turn Speaking Alarm or Side Turn White Sound Alarm

Suitable for both rigid and articulated vehicles

Side turn warning alarms for cyclists/pedestrians.
Activate on left turn indication.



Brigade

Brigade House, The Mills, Station Road,
South Darenth, Kent, DA4 9BD, United Kingdom



+44 (0)1322 420 300



hello@brigade-electronics.com



brigade-electronics.com



Scan for more
information

