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Direct Vision Standard 2024 Update

A guide on the updated Direct Vision Standard requirements and the new Progressive Safe System (PSS) that will replace the Safe System from October 2024.

KEEP YOUR VEHICLES COMPLIANT



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Heavy goods vehicles (HGVs) over 12 tonnes require a safety permit to operate in London. This guide explains what that means for your vehicle.

The Direct Vision Standard, implemented by Transport for London (TfL), is a legislation aimed at increasing the safety of HGVs (Heavy Goods Vehicles), and is designed to minimise the risk to vulnerable road users caused by poor driver vision.

Since the DVS was launched in 2019, the minimum DVS star rating for HGVs to operate in London has been one star. Vehicles that were zero star or unrated had to fit additional safety measures, which were known as the Safe System, to operate in London.

The DVS star rating scale

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

From 28th October 2024, the minimum DVS rating required will be three stars. This means that HGVs over 12 tonnes that are rated two stars or below will need to fit the new Progressive Safety System (PSS) to operate in Greater London.



VisionTrack's Progressive Safe Systems (PSS)

Our front and side pedestrian detection AI cameras provide added visibility and increased protection on the road in the congested urban environment. Our automatic detection systems give audible and visual alerts, warning the driver of nearby cyclists, pedestrians and other vulnerable road users, especially in vehicle blind spots.

This technology includes the Blind Spot Information System (BSIS) and Moving Off Information System (MOIS), systems that are now required in the Direct Vision Standard 2024 update issued by Transport for London and can be used as a stand-alone or integrated solution, as well as connected to our IoT cloud-based platform for advanced monitoring.



Vulnerable Road User Detection



Autonomise.ai Connectivity*



Audible & Visual Warning Alerts



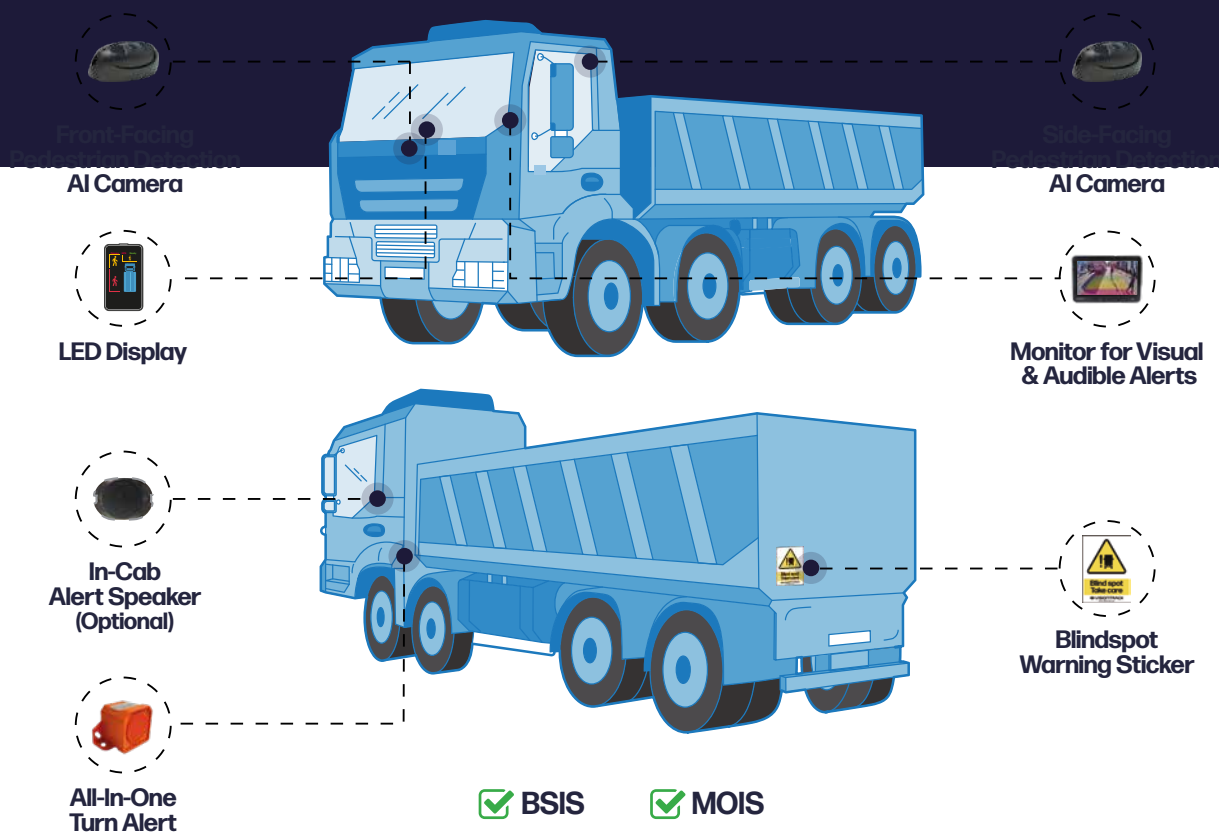
1080P Full HD



Wide-Viewing 150° Angle



IP69K Rating



*Optional with connected MDVR.

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DVS-Compliant AI Camera Kits for Commercial Vehicle Fleets



LED Display

VT-DVS-24 X-Watch



All-In-One
Turn Alert

VT-ALERT



Front & Side-Facing Pedestrian
Detection AI Cameras

VT650-AI



Blindspot
Warning Sticker

VT-WARNING STICKER BLINDSPOT



AHD 7-inch 4CH Monitor

VT-M4-7-AHD



Logic Control Box

VT-DVS-24 ECU



GPS/Gyro

VT-DVS-24 GPS/GYRO



Night-Time Silencer*

VT-TIMER CUT OUT

Optional



5-Channel MDVR

VT5500-C



Side-Scan Interface**

VT-CAN-M8

*Manual override for external speaker with auto-reset on ignition.

**Needed for vehicles without pre-wiring for turn signals and speed.

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How it works:

- ✔ **The Blind Spot Information System (BSIS)** camera works at speeds under 30km/h (18mph), alerting the driver of vulnerable road users such as pedestrians, cyclists, motorcyclists and other objects. At speeds over 30km/h (18mph) the camera still continues to record, only with an optional MDVR, but without audible alerts.
- ✔ **The Moving Off Information System (MOIS)** camera alerts the driver when the speed is 0~5km/h (0~3mph). At speeds over 5km/h (3mph) the camera still record, only with an optional MDVR, but without audible alerts.

Kit features:



GPS with Gyroscope to Detect Speed Accurately



LED and Audio Alerts

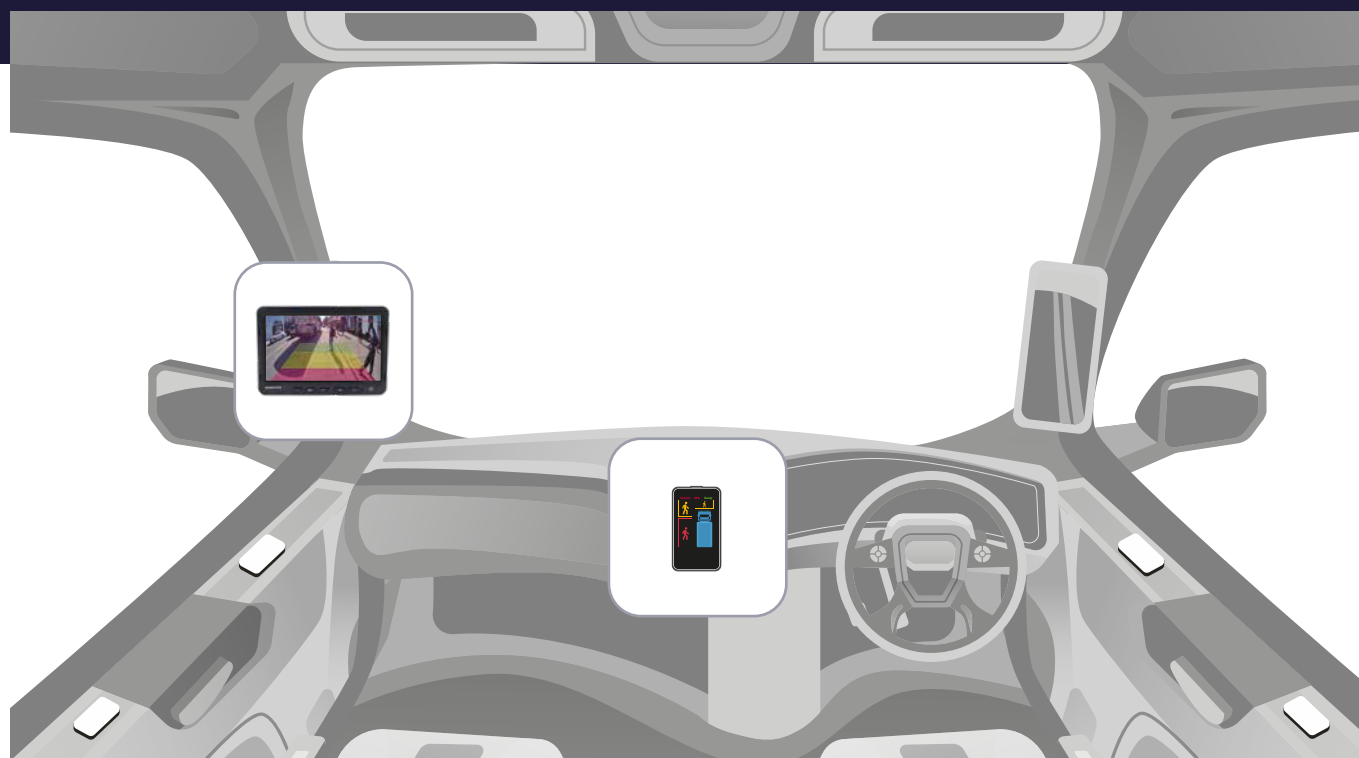


Easy to Install



Improves Road Safety

In-Cab LED Display & Monitor Install Locations



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How the BSIS works

System working conditions

The system starts working when the speed is <30km/h (18mph), at speeds >30km/h (18mph) the system will be in standby mode as shown by the LED Display picture.

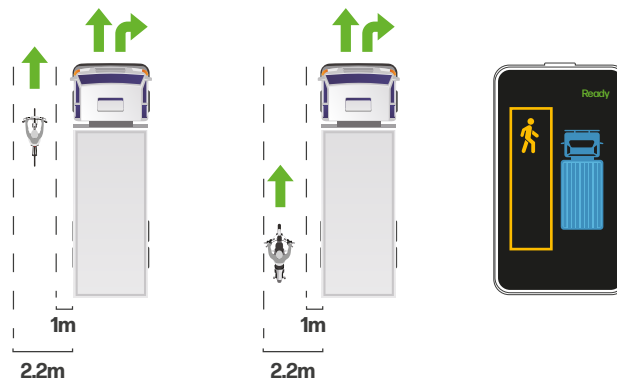


LED Display

- 1 If there are no vulnerable road users (VRUs) detected by the AI camera on the left hand side (driver's blind spot), there will be no visual or audio alarm.



- 2 When VRUs are detected and the detection distance is from 1m to 2.2m, the display shows a yellow icon in the corresponding obstacle direction.

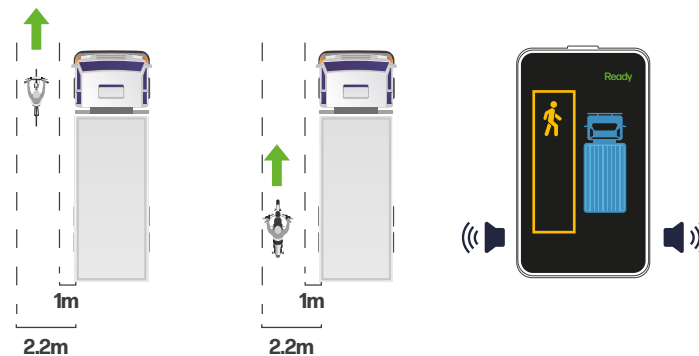


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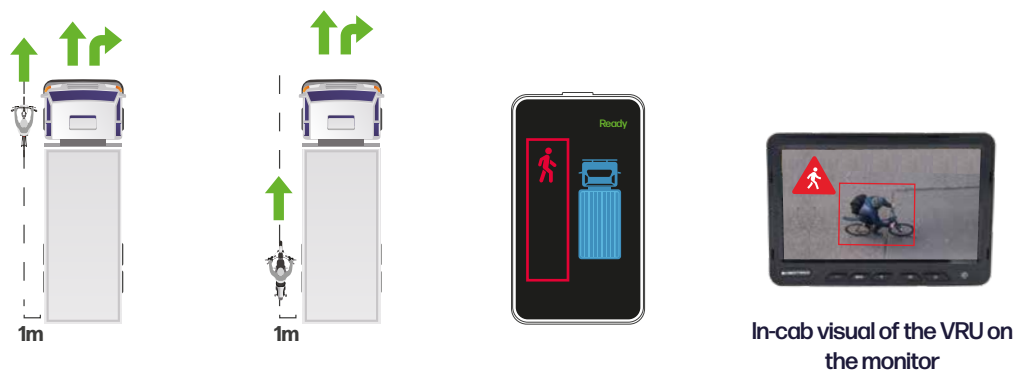
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How the BSIS works

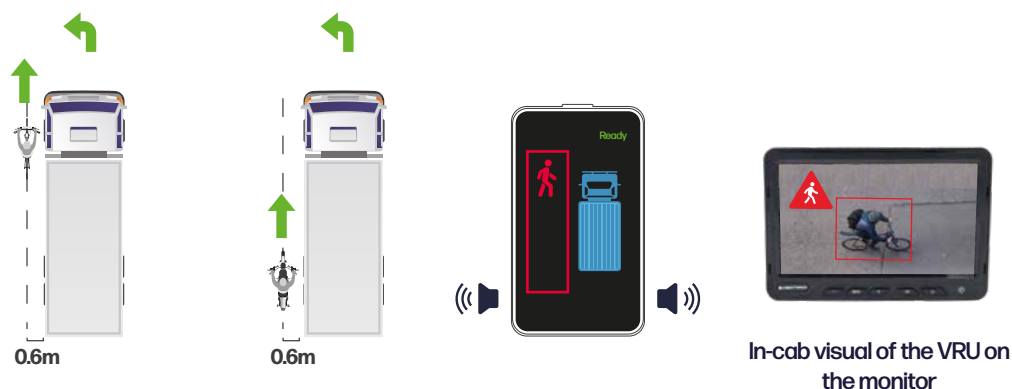
- 3** When VRUs are detected and the detection distance is from 1m to 2.2m, and the left turn indicator is turned on, the display shows a yellow icon in the corresponding obstacle direction and an audible warning sounds.



- 4** When VRUs are detected and the detection distance is less than 1m, the LED display shows a red icon and the in-cab monitor displays a visual of the VRU.



- 5** When VRUs are detected, the detection distance is less than 1m, and the left turn signal is turned on, the LED display shows a red icon, sounds an audible warning and in-cab monitor displays a visual of the VRU.



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How the MOIS works

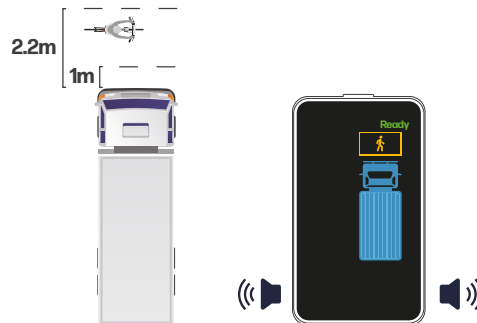
System working conditions

The MOIS camera system sounds an alarm when the speed is 0~5km/h (0~3mph), at speeds >5km/h (3mph) the camera continues to work but does not sound an alarm.

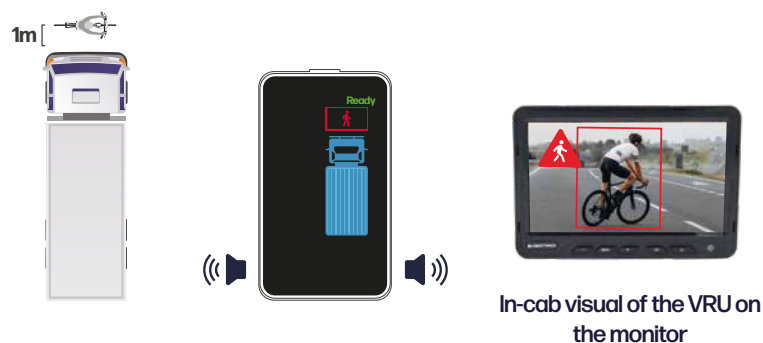
- 1 When no VRUs are detected at the front of the vehicle, the LED display will look like this:



- 2 When VRUs are detected in front of the vehicle and the detection distance is 1 to 2.2m, the LED display shows a yellow icon and sounds an audible warning.



- 3 When VRUs are detected in front of the vehicle and the detection distance is less than 1m, the LED display shows a red icon, sounds an audible warning and the in-cab monitor displays a visual of the VRU.



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FAQs

If I already have a DVS systems do I need to upgrade?

If your DVS star rating is below 3 stars, you will have to upgrade your system to comply with new safety regulations and avoid penalties when operating in Greater London.

How do I check my HGV's DVS star rating?

1. Obtain your HGV's 'out-of-factory' star rating from your vehicle's manufacturer by providing the chassis number (CN) to TFL.
2. Alternatively, check your vehicle's rating by providing your registration number through the TFL website's contact form.
3. Contact us at sales@communicatebetter.co.uk, and we'll handle all the necessary checks for you.

Please Note:

The star rating does not take into account any additional safety equipment installed on the vehicle. Permits are issued on a per HGV vehicle basis, not for an entire fleet.

How do I apply for a DVS permit?

To achieve DVS 2024 compliance, simply input your vehicle information on the TFL platform (tfl.gov.uk/modes/driving/dvs-safety-permit-application). Once completed, your vehicle will be DVS-compliant for the next decade after installing a PSS Kit.

What are the penalty charges if I don't comply?

Failure to comply with DVS in Greater London results in a daily penalty of £550, which can be reduced to £275 if paid within two weeks.

Please note:

The fines are anticipated to increase in 2024 with TFL's heightened safety standards.



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