

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.

Aftermarket fit



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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 be able 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



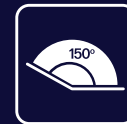
Autonomise.ai Connectivity
(Optional with MDVR)



Audible & Visual Warning Alerts



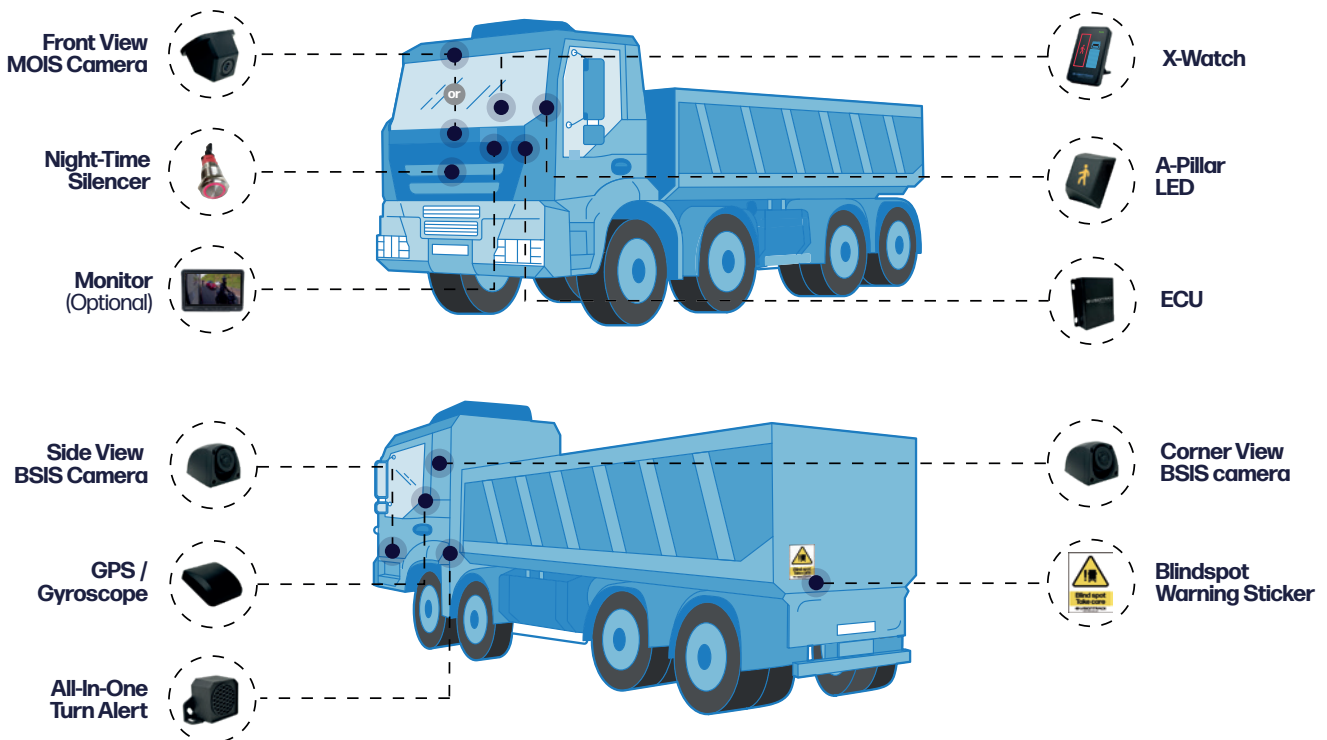
1080P Full HD



Wide-Viewing 150° Angle



IP69K Rating



✓ BSIS ✓ MOIS

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DVS-Compliant AI Camera Kits for Commercial Vehicle Fleets

Part code: VT-DVS24-PSS

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



**AHD 7-inch 4CH
Monitor (Optional)**



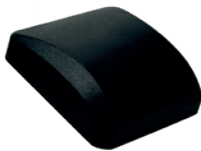
**Corner and Side View
BSIS Cameras**



**All-In-One
Turn Alert**



**Front View
MOIS Camera**



**GPS /
Gyroscope**



X-Watch



A-Pillar LED



ECU



**Night-Time
Silencer***



**Blindspot Warning
Stickers (large & small)**

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 records, only with an optional MDVR, but without audible alerts.

Kit features:



GPS to Detect
Speed Accurately



Visual and Audio
Alerts



Easy
to Install



Improves
Road Safety

Monitor and Switch Install Locations



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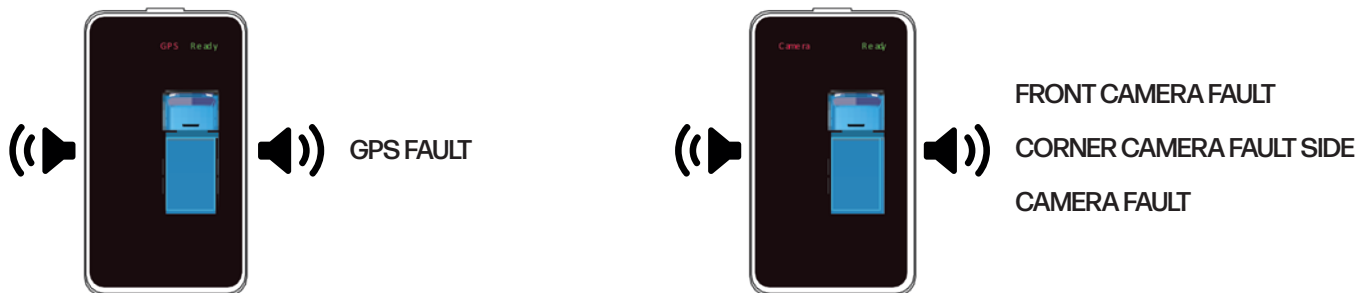
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System Functions

Self-Test

When the system detects the camera is blocked by an object, damaged, or has a poor connection, the LED display will show the red camera character and give a voice alert to remind the driver which camera is malfunctioning.

After self-test is complete, the main display shows the “Ready” symbol if there are no faults. Each time system starts, the self-test function also starts. GPS/Gyro and each connected camera are checked. For each problem, the system plays the audio message twice. Then it does not play any faulty messages again until next time system starts.



System Working Condition

MOIS works from 0.1-5km/h. BSIS works from 0.1-30km/h. MOIS stops alarms above 5km/h. BSIS stops alarms above 30km/h. Both the X-Watch LED display and the A-Pillar LED indicators display as shown below.



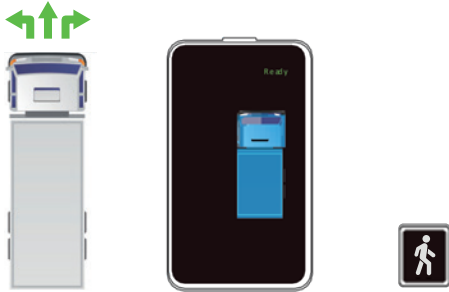
X-WATCH LED DISPLAY



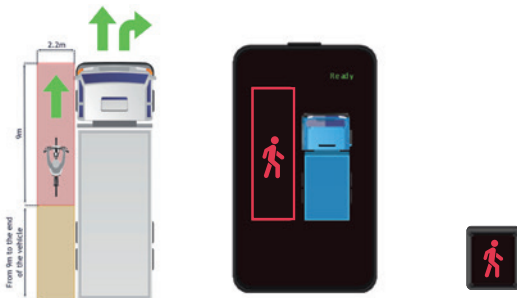
A-PILLAR LED INDICATOR

BSIS Working Method

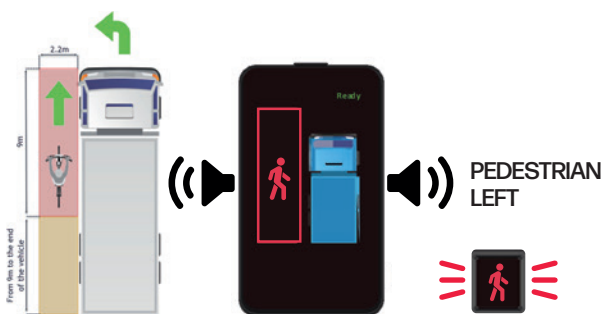
- 1 If there is no VRU detected by the BSIS camera, there will be no visual or audio alarm.



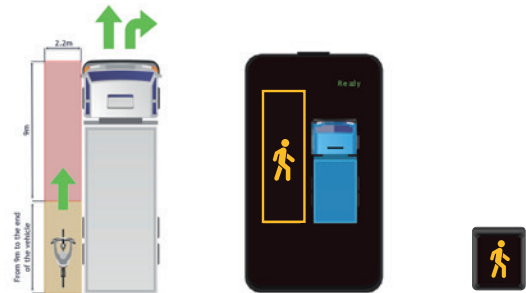
- 2 When a VRU is detected within 2.2m vertical and 9m horizontal distance from the nearside, and the vehicle is going straight or turning right, the X-Watch shows a red icon and the A-Pillar LED indicator shows a red warning. There is no audio warning.



- 3 When a VRU is detected within 2.2m vertical and 9m horizontal distance from the nearside, and the vehicle is turning left (with or without indicator), the X-Watch shows a red icon and sounds the audio alarm. The A-Pillar LED flashes a red warning.



- 4 When a VRU is detected within 2.2m vertical and past 9m horizontal distance from the nearside, the X-Watch shows a yellow icon and the left A-Pillar LED indicator displays a yellow icon warning. There is no audio warning.



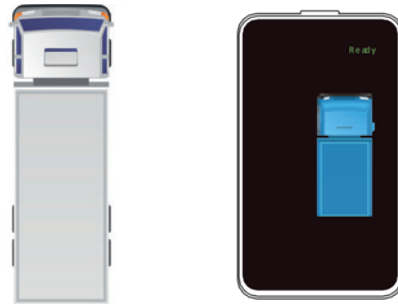
- 5 When a VRU is detected within 2.2m vertical and past 9m horizontal distance from the nearside, and the vehicle is turning left (with or without indicator), the X-Watch shows a yellow icon and the left A-Pillar LED indicator flashes a yellow warning. There is no audio warning.



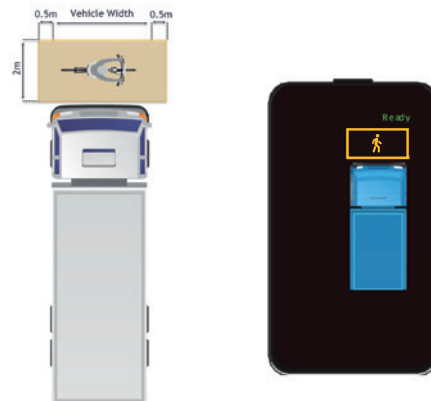
MOIS Working Method

The MOIS camera sounds an alarm when the speed is 0-5km/h. The MOIS camera is still working, but does not sound an alarm when the speed is >5km/h.

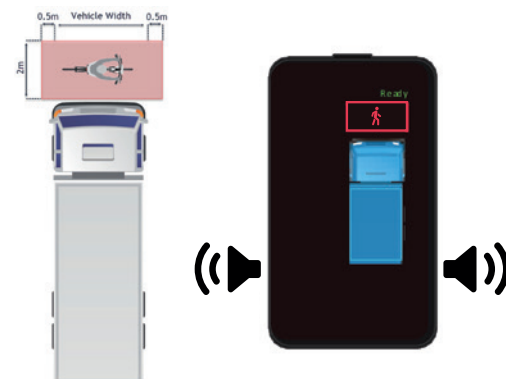
- 1 When a VRU is not detected in front of the vehicle, the X-Watch shows this display.



- 2 At 0km, if a VRU is detected in front of the vehicle, the X-Watch will display a yellow icon. There is no audio warning.



- 3 At 0-5km, if a VRU is detected in front of the vehicle, the X-Watch will display a red icon and sound an audio warning.



*Monitor view can be configured at the time of installation.

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FAQs

If I already have a DVS system, 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. You can 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 contact form.
3. Contact us at info@visiontrack.com 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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