

Product Specification



Direct Vision Standard Kit



PRODUCT OVERVIEW

Transport for London (TfL) have presented changes to the Direct Vision Standard (DVS) that come into effect in October 2024. From October, operators with vehicles weighing over 12 tonnes need to have a new DVS HGV Safety Permit to be able to operate within London. TfL will start to accept applications for the new permits from June 2024. All HGVs need to apply for a permit to avoid facing fines. Depending on the DVS star rating of the vehicle will dictate if additional safety equipment is required to be installed.

Vehicles with a star rating below three will require the installation of additional safety equipment. Existing safety equipment from the original DVS **will not meet** the new criteria or the Progressive Safe System (PSS) set out by TfL. Existing DVS permits will remain valid until their expiry date. Applying for a licence is free of charge. Using the TfL website, a vehicle can be checked for its star rating: <https://tfl.gov.uk/modes/driving/dvs-safety-permit-application/>

DVS measures how much a HGV driver can see directly through their cab windows. The visibility from the driver's position indicates the level of risk to vulnerable road users.

The system that we have developed to reduce risk and to be compliant with the new DVS Progressive Safe System has evolved with the new forms of AI powered technology now available. Our AI Pedestrian Detection Cameras are the foundation of the solution that we have developed. The AI cameras are positioned on the front and the side of the vehicle and are configured to detect within the required parameters of PSS.

FOR MORE INFORMATION, CONTACT OUR SALES TEAM.

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Product Testing & Approval

Our extensive trials and thousands of miles of driving data ensure that the detection of vulnerable road users (VRUs) is at its optimal level. The introduction of the PSS largely focuses on the reduction of false positives generated by sensors, which detect street side objects (like traffic cones and parked cars) as well as VRUs. Alternatively, our AI cameras accurately detect VRUs, reducing false positives and thus creating a better experience for the driver.

The AI Cameras act as an extra pair of eyes on the road for the driver, alerting them of any VRUs within the vehicle blind spot and camera detection zone.

Documentation of the installation and calibration of the AI cameras on each vehicle fitted will be required by TfL for the June 2024 permit application process. Positioning of the equipment and detailed technical specification must align with the guidance set out by TfL in the 2023 documentation.

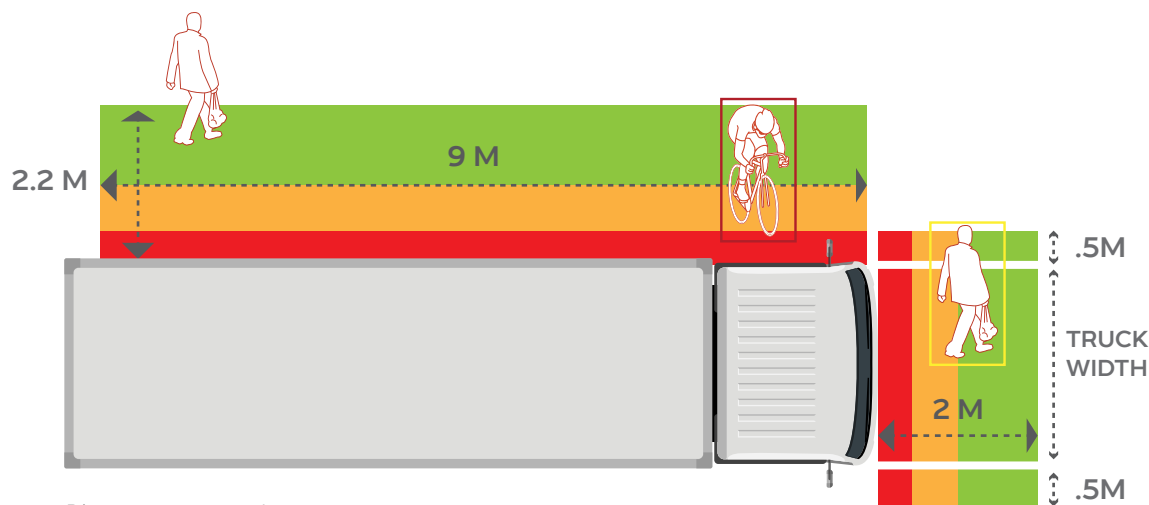


Diagram not to scale

Our Solution

- Camera Monitoring Systems (CMS) / Blind Spot Information System (BSIS) – A side AI camera on the near side of the vehicle aimed down to eliminate the blind spot, combined with a monitor situated on the near side pillar. Operational at all times under 20MPH.
- Moving Off Information Systems (MOIS) – Another AI camera is fitted to the front of the vehicle to allow detection of VRUs for safe moving off.
- Left Turn Alarm – Activated when the left turn signal is on. An additional button is also installed on the dash to stop the sounder activating at night.
- Warning Signage - Prominently displayed on the vehicle.

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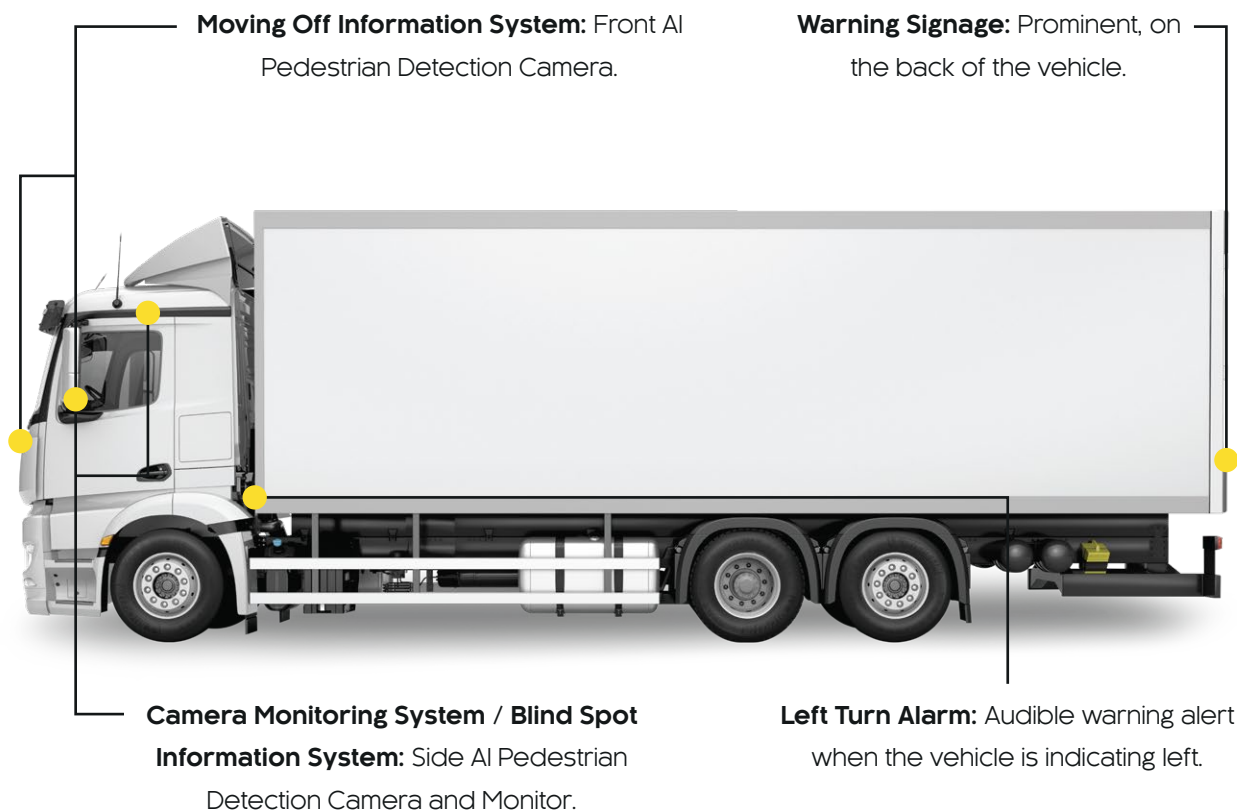
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Solution Diagram



Please note: The required Class V and VI mirrors, and side under-run protection are not supplied as part of this solution.

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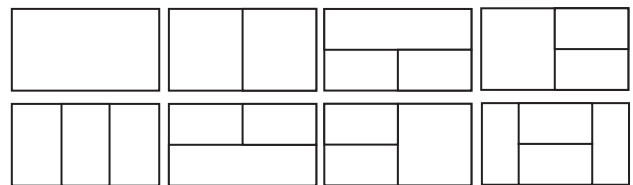
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Product Specification



7" Quad View Monitor



Screen Layout Options

PRODUCT OVERVIEW

7" Quad View Monitor with 4 channel audio and video input with auto dimming function in low light conditions. Built-in speaker outputs the audio from the triggered camera. The monitor is compatible with D1 (CVBS) and AHD 720p / 1080p; can also operate with a mixture of formats. The monitor has various mounting options and features a 30 x 38mm Amps pattern on the rear to accommodate a wide range of mounts.

Benefits

- 7" HD quality digital screen
- Built-in speaker (audio on all channels)
- Monitor powers cameras
- Shows up to 4 images on the screen at the same time
- Each input displayed on screen when triggered
- Button locking feature
- Auto dimming function in low light conditions

SPECIFICATIONS

Digital Panel	7"
Compatible	D1/AHD720/AHD1080 PAL/NTSC 25/30FPS
Aviation Inputs	4 x 4 Pin aviation
Trigger Wires	4 Triggers
Resolution	1024 x 600
Contrast Ratio	500:1
Aspect Ratio	16:9
Brightness	400cd/m ²
Viewing Angle	U: 50° D:70° R/L 70°/70°
Operating Voltage	12V / 24V
Camera Voltage	12V
Dimensions	179mm(W) 25mm(D) 120mm(H)
Adaptor Cable Length	235cm
Various Mounting Options	Horse shoe mount supplied with product. Also compatible with fan brackets

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Product Specification

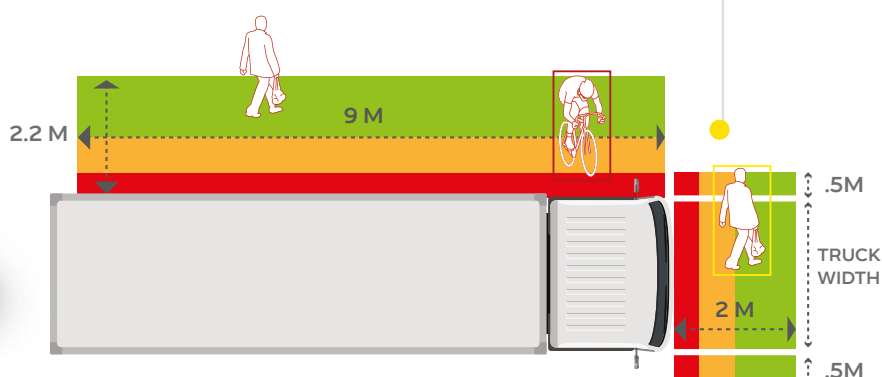


AI Pedestrian Detection Camera

1080P AI Pedestrian Detection Camera



1080P AI Pedestrian Detection Camera Detection Zones



PRODUCT OVERVIEW

- Pedestrian and cyclist detection
- Suitable for Front, Rear and Side View
- Adjustable zones to show detected areas
- Full high-definition video output, can be overlaid with colour zones and pedestrian warning information
- No control box needed, can be directly connected to normal monitors / DVR
- Audio alarm output, external loudspeaker supported
- Calibration via Wi-Fi hotspot with USB dongle
- Waterproof / dustproof rated to IP69K

SPECIFICATIONS

Resolution:	1920 x 1080P
Frame Rate:	25 fps
Video Output:	AHD (1.0Vp-p, 750Ω)
Viewing Angle:	150° Horizontal
Audio Output:	Yes
Communication Interface:	USB 2.0 for software upgrading calibration
Power Supply:	DC 10V-32V
Waterproof Rating:	IP69K
Operating Temperature:	-20~+70°
Storage Temperature:	-30~+80°
Vibration Resistance:	5.9G
Dimensions:	140 x 63 x 54 mm

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