

HGV Blind-Spot Detection System Specification Checklist

Use this checklist when evaluating, specifying, or verifying a blind-spot detection system for HGV or commercial vehicle fitment — covering DVS 2024 compliance, technology assessment, and ongoing maintenance.

1. Vehicle Assessment

☐ Vehicle weight and type confirmed

DVS 2024 applies to HGVs over 12 tonnes operating in Greater London — confirm whether vehicle is in scope

☐ All four blind spot zones identified on vehicle

Front (2m), nearside (full length), rear (up to 3m), offside — map which zones need coverage

☐ Current star rating confirmed

Three-star or above = no Progressive Safe System required. Below three stars = BSIS and MOIS required

☐ Existing sensor/camera equipment audited

Confirm which zones are already covered and what gaps need to be filled

☐ Operational profile noted

Urban/low-speed vs motorway use affects system specification — BSIS/MOIS is for 0-30 km/h

2. System Specification — DVS 2024 Compliance

☐ BSIS specification confirmed with supplier

Must detect and distinguish moving VRUs from stationary objects — not just presence/distance

☐ MOIS specification confirmed with supplier

Monitors front of vehicle at moment of moving off — active 0-30 km/h, active at all times regardless of indicators

☐ System has been independently tested against DVS 2024 (not DVS 2020)

Ask supplier for test certification against the 2024 specification — important distinction

☐ Ultrasonic-only systems not relied upon for BSIS compliance

Ultrasonic cannot distinguish moving from stationary — does not meet DVS 2024 BSIS requirement

☐ Detection zone confirmed: 2.2m nearside, 9m rear, 2m height band

TfL specified zone — confirm supplier's system covers the full zone, not just part of it

3. Technology Evaluation

☐ Technology type confirmed (radar / AI camera / combination)

Radar: all-weather, low maintenance. Camera: visual confirmation, footage record. Both can meet BSIS

☐ False alert rate in comparable operating environment assessed

Ask for operational data from fleets in similar urban/yard environments — high false alert rate = driver ignores system

☐ In-cab alert type confirmed (audible + visual)

Both audible and visual alerts required — confirm what the driver sees/hears when detection occurs

☐ Camera integration confirmed if required

Best practice: detection alert + camera feed so driver can see what triggered the alert

☐ **Performance in adverse conditions assessed**

Radar is unaffected by lighting. Camera systems affected by lens fogging/direct sun — assess for operating environment

4. Installation and Commissioning

☐ **Installer is qualified and familiar with BSIS/MOIS fitment**

Ask for previous DVS 2024 installations — documentation requirements are specific

☐ **Post-installation calibration confirmed**

All sensors calibrated to detection zone spec after fitting — not just connected and switched on

☐ **Detection test performed with person in each zone**

Walk test: confirm alert fires when person enters each monitored zone, does not fire for stationary objects

☐ **TfL permit application documentation prepared**

Record system make/model, installation date, sensor positions — needed for permit application

☐ **Permit submitted and approved before vehicle enters Greater London**

Permit must be in place before operation — cannot be applied for retrospectively after enforcement notice

5. Ongoing Maintenance

☐ **Monthly detection test scheduled**

Walk test each sensor zone monthly — confirms system is working before an incident reveals it is not

☐ **Camera lenses cleaned (if camera-based system)**

Mud, road film, lens fogging reduce detection reliability — include in vehicle pre-trip check

☐ **Radar sensor faces checked for physical damage**

Minor impacts in yards can misalign radar sensors — check for damage at each service

☐ **Annual permit renewal date calendared**

DVS Safe System permit must be renewed annually — note expiry date and set advance reminder

☐ **Firmware/software updates checked with supplier**

BSIS systems with AI classification may receive performance updates — confirm supplier's update process