

■ Sensor & Camera Integration Verification Checklist

Use when installing or auditing an integrated sensor and camera system on a fleet vehicle. Tick each item once confirmed. Retain for FORS/DVS maintenance evidence.

1 — MDVR SETUP

- ☐ MDVR has sufficient camera input channels for all cameras on this vehicle
Typical: 4-channel for rigid HGVs, 6-8 channel for artics with trailer cameras
- ☐ MDVR has trigger input port for sensor controller signal
Confirm with MDVR spec sheet before purchase — not all models support trigger inputs
- ☐ MDVR is mounted in a vibration-damped location within the cab or body
- ☐ MDVR power supply is on a switched ignition circuit — not always-on
Always-on circuits drain the battery during extended parking
- ☐ MDVR firmware is current — check manufacturer site at time of install

2 — CAMERA WIRING TO MDVR

- ☐ All cameras wired to correct MDVR channel and channel labels confirmed in software
- ☐ Reversing camera trigger wire connected to reverse light circuit
This is separate from the sensor trigger — it activates the camera preview on reverse gear
- ☐ Camera feeds confirmed live on MDVR display for all channels
Walk around vehicle and verify each camera angle on screen
- ☐ Camera positions verified: no obstructed lens, correct angle for intended coverage zone
- ☐ Cable runs secured against vibration — no exposed cable at flex points

3 — SENSOR TRIGGER INTEGRATION

- ☐ Sensor controller trigger output wired to MDVR trigger input
Confirm signal voltage compatibility: 12V trigger vs 24V system requires voltage divider
- ☐ MDVR configured to switch to correct camera channel on sensor trigger
e.g. rear sensor → reversing camera; nearside sensor → nearside camera
- ☐ Trigger test: approach sensor zone with test object — confirm MDVR switches camera view
- ☐ Event recording confirmed: sensor trigger causes MDVR to flag clip
Check event recording list in MDVR software after trigger test
- ☐ Zone-to-camera mapping documented and saved in installation record

4 — CAB DISPLAY VERIFICATION

- ☐ Cab display shows camera feed and sensor alert on same screen (split or overlay)
- ☐ Display is positioned in driver's natural sightline — not requiring head turn to check
- ☐ Display brightness is adjustable — confirmed legible in direct sun and at night
- ☐ Sensor zone indicator visible on display alongside camera image
- ☐ Display cable secured — not a trip hazard and not obstructing cab controls

5 — FINAL SYSTEM TEST

- ☐ Walk test completed: all sensor zones trigger correctly and correct camera view appears
- ☐ Yellow zone (2-3m) triggers audible alert and display switch
- ☐ Red zone (0-1.5m) triggers escalated alarm tone
- ☐ MDVR event clips reviewed: timestamp and camera channel correct for each trigger
- ☐ Driver briefed: knows what the integrated alert means and what to do when it triggers
- ☐ Installation documentation filed: wiring diagram, zone-channel mapping, test results