



# BSIS AND MOIS SOLUTIONS

1 forward facing camera  
1 dual-lens side camera



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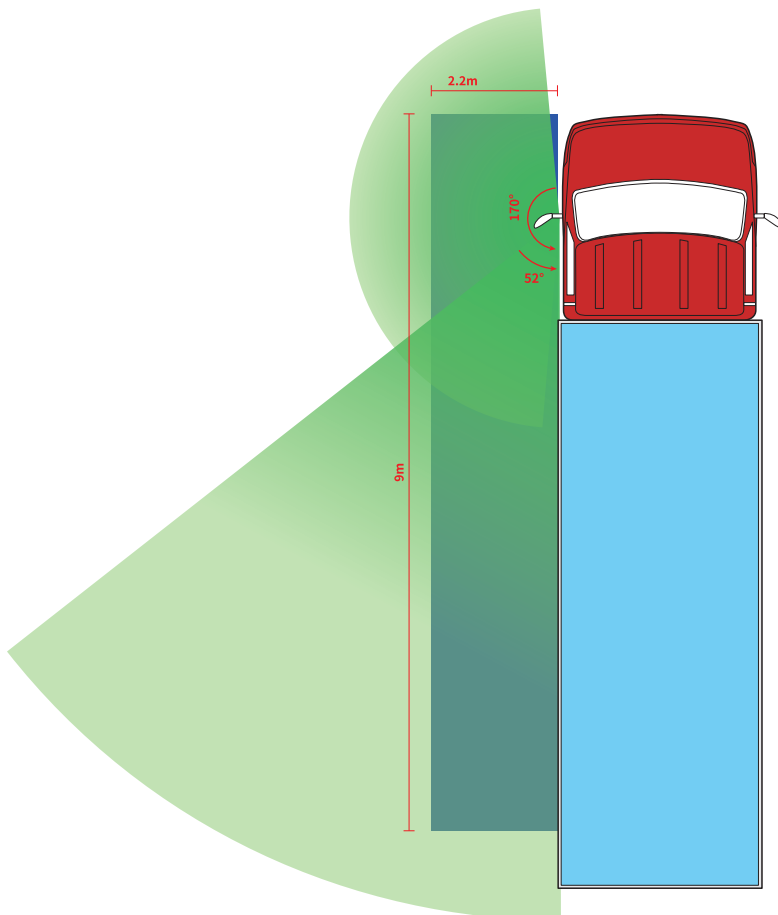
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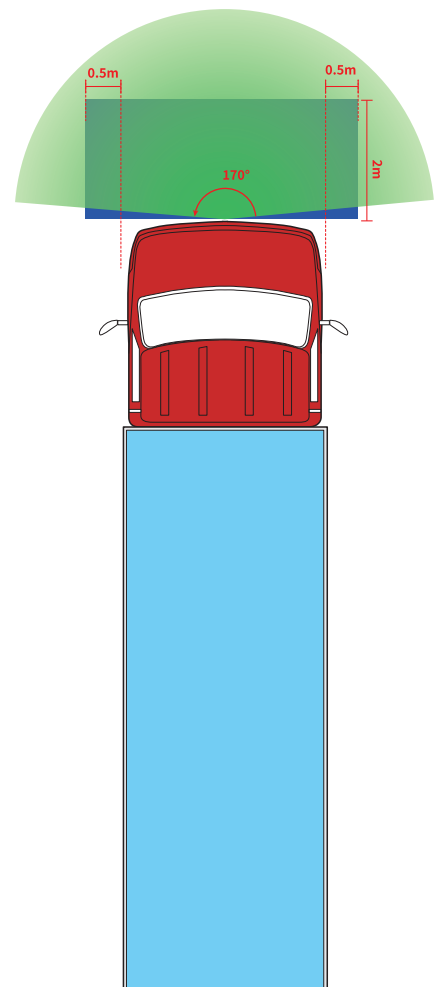
The Direct Vision Standard (2024 Update) implemented by Transport for London (TFL) is a legislation aimed at increasing the safety of HGVs (Heavy Goods Vehicles) weighing over 12 tonnes operating within Greater London.

From October 2024, this will be raised to a minimum 3-star rating. MOIS and BSIS systems are must required.

## BSIS



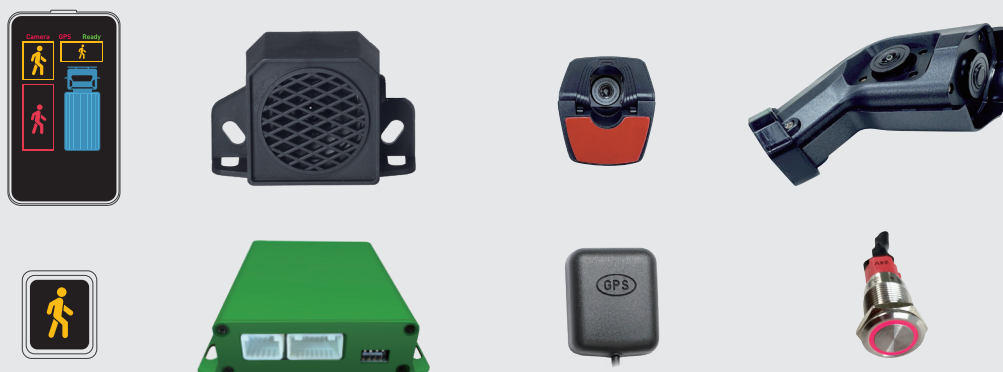
## MOIS





# COMMERCIAL VEHICLE AI CAMERA






BAT1001



## Working Conditions

- The BSIS camera work when speed under 30km/h, still working but not gives the alarm when speed is over 30km/h.
- The MOIS camera gives the alarm when speed is 0~5km/h, still working but not gives the alarm when speed is over 5km/h.

## Product Feature

-  GPS with gyroscope to detect speed more accurate
-  Led and Audio Warning
-  Easy to Install
-  Perfect for Safety Driving
-  Algorithm ECU

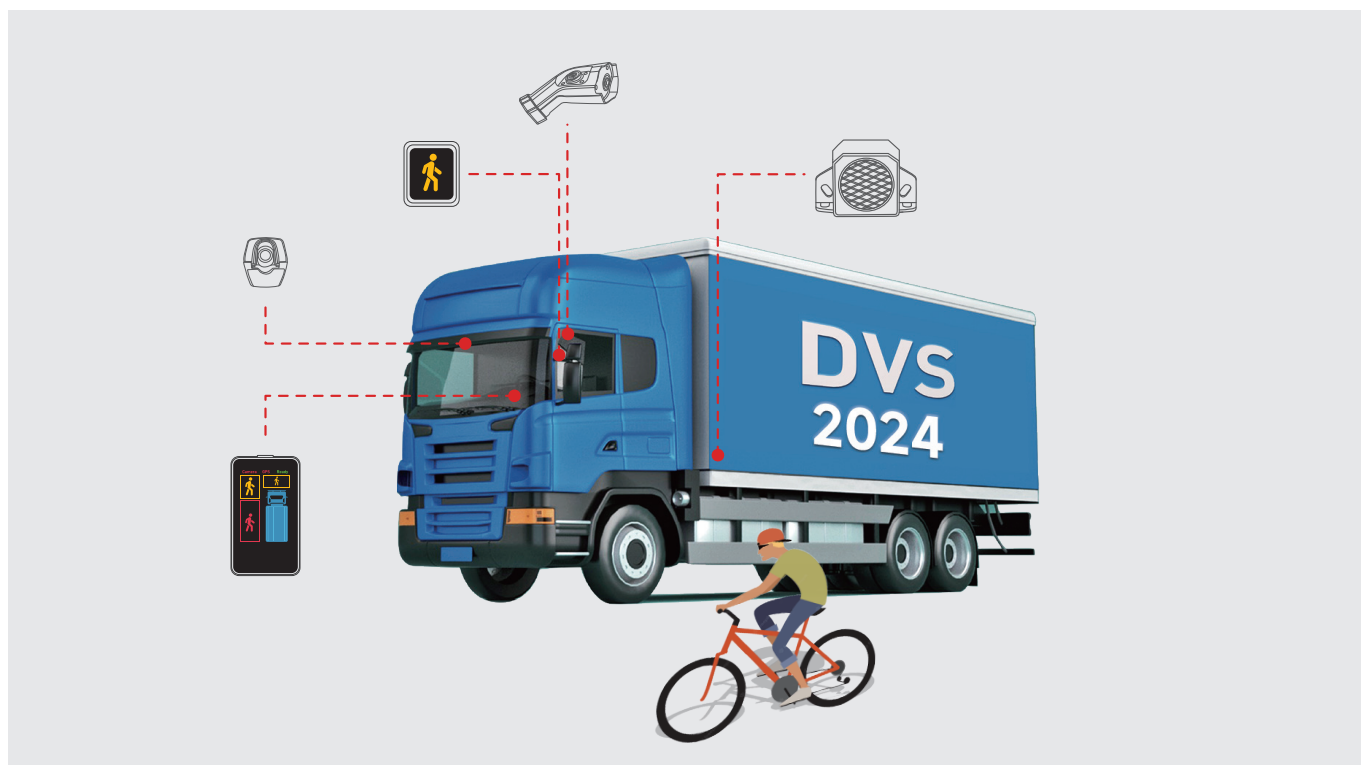
## AI Camera Specification

Working Voltage:	12~36V
Working Current:	<500mA
Operating Temperature:	-40~85 degrees
Camera Angle:	MOIS front camera: 170 degrees BSIS near side camera : 140 degree BSIS rear view camera : 90 degree
Clarity:	1080P 30fps
Detection Range:	Front 2 meters (l) * 3 meters (W) Side 9 meters (l) * 2.2 meters (W)

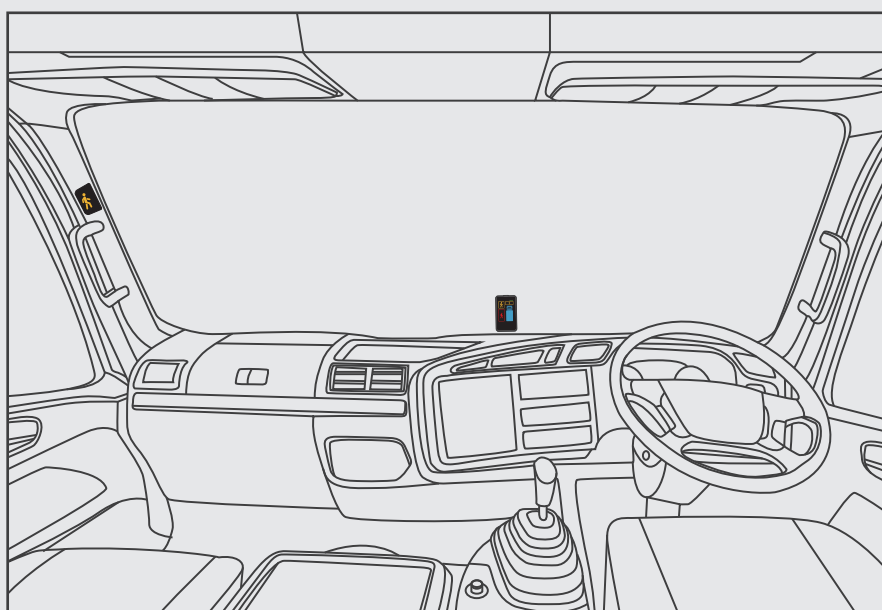
## External Alarm Specification

Rated Voltage:	DC 12 / 24V
Working Voltage:	12 ~ 36V
Working Current:	< 500mA@24V
Operating Temperature:	- 40 ~ 85°C
Storage Temperature:	- 40 ~ 85°C
Sound Frequency:	500Hz ~ 7KHz
Duty Cycle:	3.0S/T(Vocal Reverse Warning) 3.3S/T(Vocal Left Turn Warning) 3.3S/T(Vocal Right Turn Warning)
Waterproof IP Rating:	IP69
Volume:	80~85 dB at 1m
Function:	With On/Off switch and mute function, mute time: at 23:30pm and 07:00am
Certification:	CE/E-mark

## Product Diagram



## Led Displays Install In The Cab



# AI Camera



## ← System Working Condition ●

The system starts working when speed is  $< 30\text{km/h}$  (18mph),  
the system stand by when speed is  $> 30\text{km/h}$ ,  
both led display and A pillar indicator show like the picture.



Led Display



A Pillar LED Indicator

## ← BSIS Working Method ●

- ① If there are no VRU detected by left AI camera, there will be no visual and audio alarm.



- ② When VRU are detected, detection distance is from 1m to 2.2m, the display shows a yellow icon in the corresponding obstacle direction, and left A-Pillar led indicator shows a yellow icon warning, and no audio warning.



- ③ When VRU are detected, detection distance is from 1m to 2.2m, and left turn signal are turned on, the display shows a yellow icon in the corresponding obstacle direction, and left A-Pillar led indicator gives a yellow flashing and audio warning.

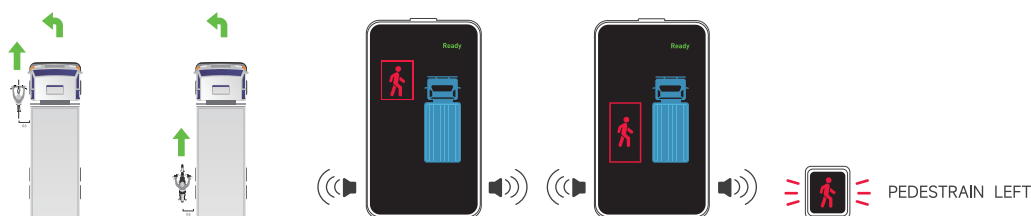


## BSIS Working Method

- ④ When VRU are detected, detection distance is less than 1m, led display shows a red icon and A pillar led indicator shows a red warning.



- ⑤ When VRU are detected, detection distance is less than 1m, and left turn signal are turned on, the led display shows a red icon and audio warning, A pillar LED gives a red flashing warning .

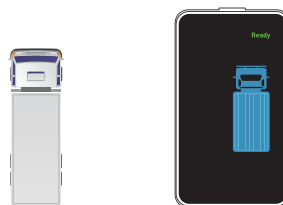


## MOIS Working Method

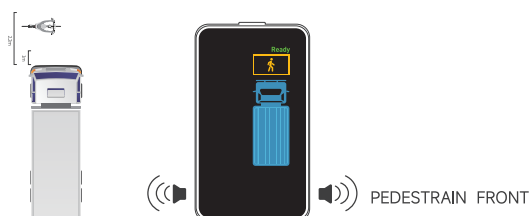
### System Working Condition

The MOIS camera gives the alarm when speed is 0~5km/h, the MOIS camera still working but not gives the alarm when speed is >5km/h.

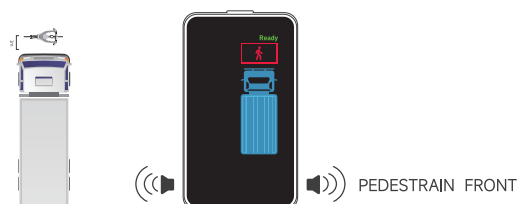
- ① When no vru are detected in front, led display shows like picture.



- ② When vru are detected in front of the vehicle, and detection distance is 1-2.2m. Led display gives a yellow warning and audio warning.



- ③ When vru are detected in front of the vehicle, and detection distance is less than 1m. Led display gives a red warning and audio warning.

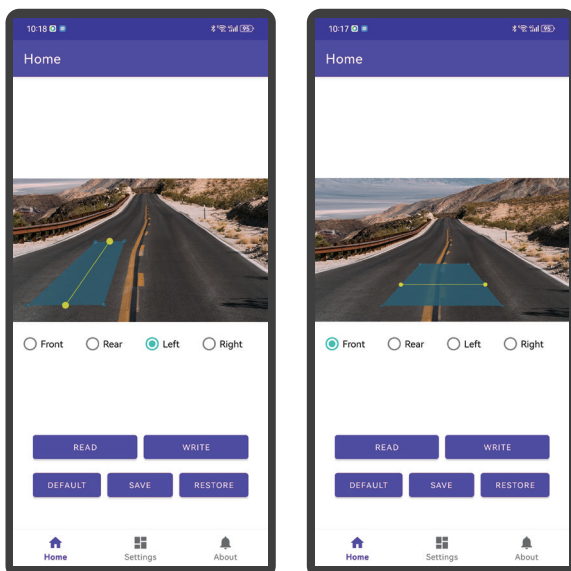






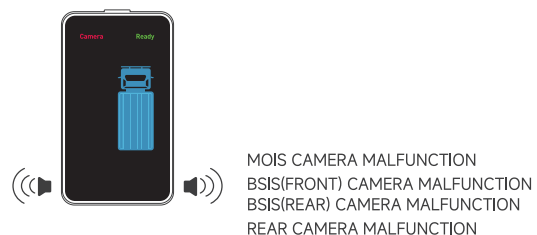
## ← Ai Camera Calibration

- ① Connect the camera with the calibration tool and turn on the power.
- ② Connect WIFI signal, WIFI signal name: XFD\_ai camera calibration.
- ③ Select the corresponding camera to be calibrated: front, back, left, right.
- ④ Mark the alarm area on the ground.
- ⑤ Move the ruler line on the mobile app to coincide with the ground marking.
- ⑥ After clicking **WRITE**, check whether the ruler line on the test monitor is consistent with the position on the application app.
- ⑦ If consistent, the calibration is completed.

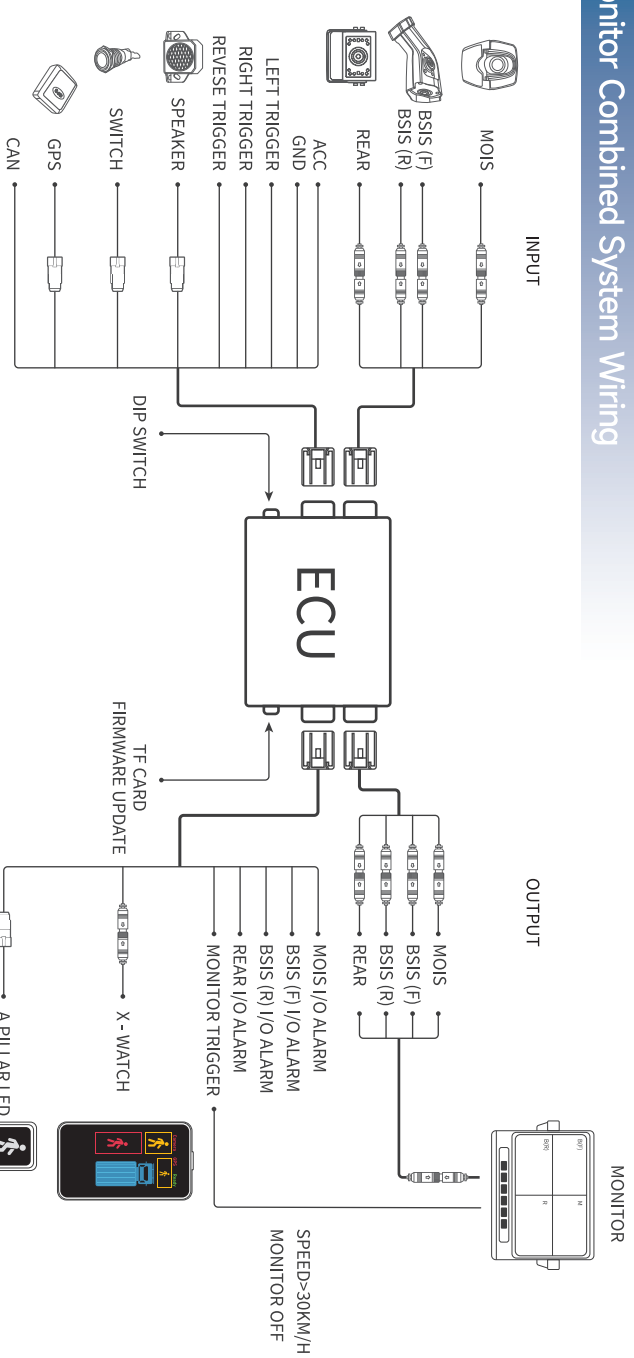


## ← Self Test

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



## Monitor Combined System Wiring



## Mdvr Combined System Wiring

