



# EROAD

## Clarity Edge Install Guide



### Technical support

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## Overview

**EROAD Clarity Edge** (“the unit”) is a camera using artificial intelligence analysis to deliver traffic and driver performance insights and in-cab alerts. To work correctly, the unit must be mounted precisely. The basic steps are:

1. If applicable, load approved miniSD card(s) and SIM cards and remove the protective films.
2. (Optional) Mount extra camera, remote button and/or other attachments.
3. Align and stick the unit’s mount to the windshield – center, level and clear.
4. Accurately measure the unit’s placement: height from ground, width of cab, distance from left wheel, distance to front of vehicle.
5. Attach cabling, run it under the cab’s trim, under the dash, to vehicle power and relevant devices.
6. Use : app to calibrate and configure camera.
7. Troubleshoot where necessary.
8. Tidy cables and cab; photo-document the install.



## Parts

1



**Dashcam**

2



**Standard power cable**

3



**Fused power loom**

4



**Allen key**

5



**Mount**

6



**Mount bolt**

7



**Crowbar**

8



**Desiccant**

9



**IPA wipe**

- Regulatory card
- Window sticker
- Lens cover

### Optional extras

- Standard-to-OBDII connector kit (comes with Y-splitter to allow additional OBD device)
- Fatigue Camera kit (Optional)
- Remote button kit (Optional)



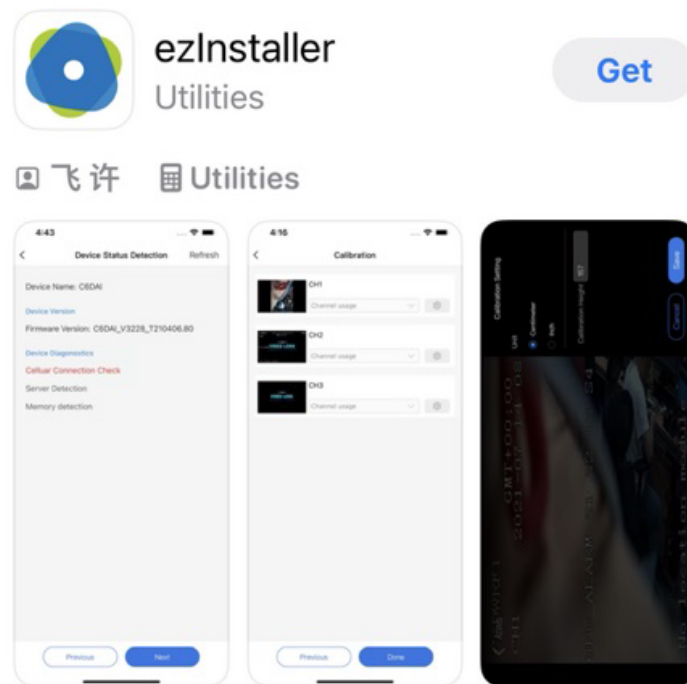


## Pre-install instructions

**⚠ Deviations from these instructions may result in a re-installation callout at the Installer's expense.**

Following this guide means the mounting location will comply with local regulations.

1. Park the vehicle on HORIZONTAL ground and shut down the engine.
2. Download the ezInstaller App from the App Store or Google Play.



## Cable Running

Tuck all cabling out of sight along the windshield, and/or behind the roof and A-Pillar trim.

- Extra cable is **tidied securely behind the dash**.
- Extra Fatigue camera cable should be **tidied securely behind the roof trim**, close to the Clarity Edge camera.

EROAD recommends following standard OEM cable routing practices. Cable tie the Edge cable at regular intervals.

**i** In some vehicles (eg. late model Scania) there is a cable-tidy shroud for use within the passenger-side A-Pillar.



## Mounting Clarity Edge

Clarity Edge is an AI-assisted dashcam that **requires cm/inch-level precision** on its mount location, to detect driving-related issues accurately.

The mount sticks to:

- the middle of the front windshield
- around the rearview mirror area
- above the horizontal midline.

On flat ground, installers could use a spirit level or reliable digital app for alignment assistance.

## Site position

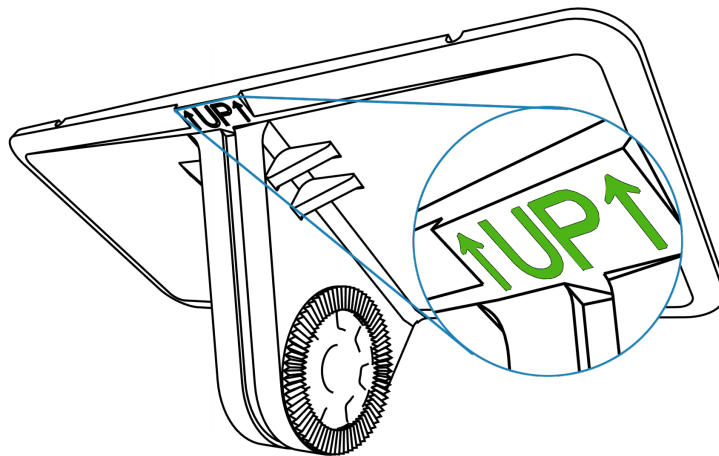
The optimum site position is:

- HORIZONTAL: Within 50 mm (2 in) of the windshield's midline. (Within 150 mm (6 in) is supported.)
- VERTICAL: Approximately 20 cm (8 in) below the topmost sweep-edge of the windshield wipers, OR windshield tint visor, whichever is lowest
- PROXIMITY: Ideally, within 116 cm (46 in) from the driver's face.

Avoid installing other electronic devices around the unit, like intelligent rearview mirrors or electronic tags.



**Accurate placement and positioning measurements are crucial, or the unit could generate inaccurate lane departure warnings or similar.**



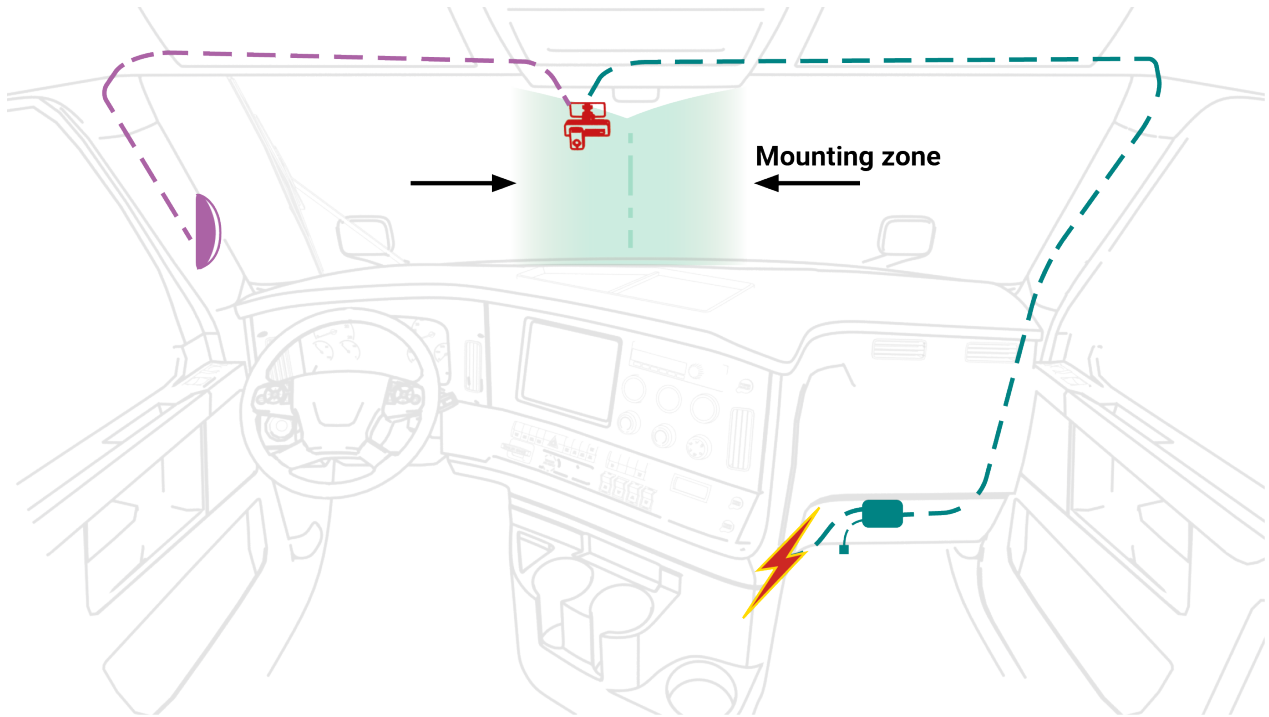
*Mount orientation*

1. Clean the intended installation area with the IPA wipe.
2. Rewipe with a clean cloth, to remove any IPA residue.
3. Remove the 3M adhesive backing tape.
4. Align the long 'UP' edge horizontally, and press the bracket into the windshield for 10s such that no air bubbles are trapped between the windshield and bracket.
5. Connect the unit to the bracket with the front side facing inward (teeth on the right side of the bracket engaged with those on the right inner side of the unit).
6. Orient the unit so its top is level. Tighten the bracket stud with a PH2 Phillips screwdriver.

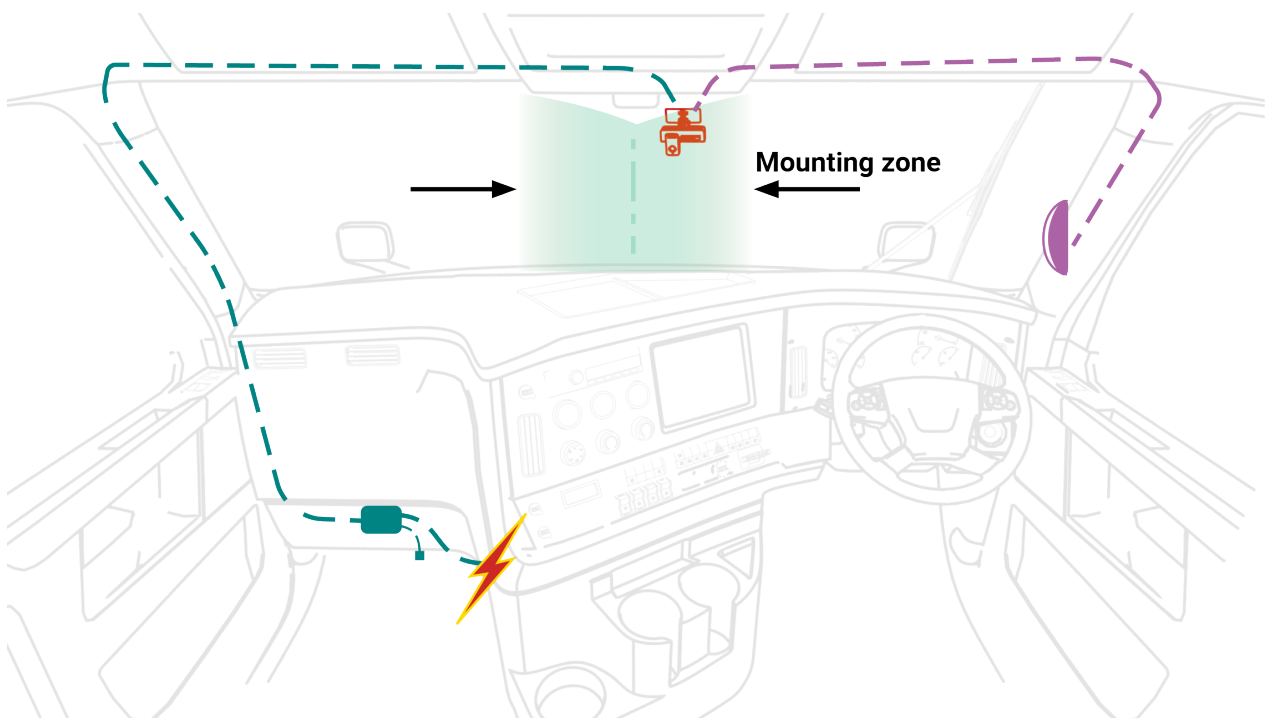


## Cable routing

The following image shows the basic route of the unit's loom from the **mounting location, under the roof and passenger-side A-pillar trim, to behind the dash**. It also shows the basic cable routing of the optional **fatigue camera, up behind the opposite A-pillar trim to the unit**, and the optional button for remote triggering a recorded clip, mounted on a dash blank.



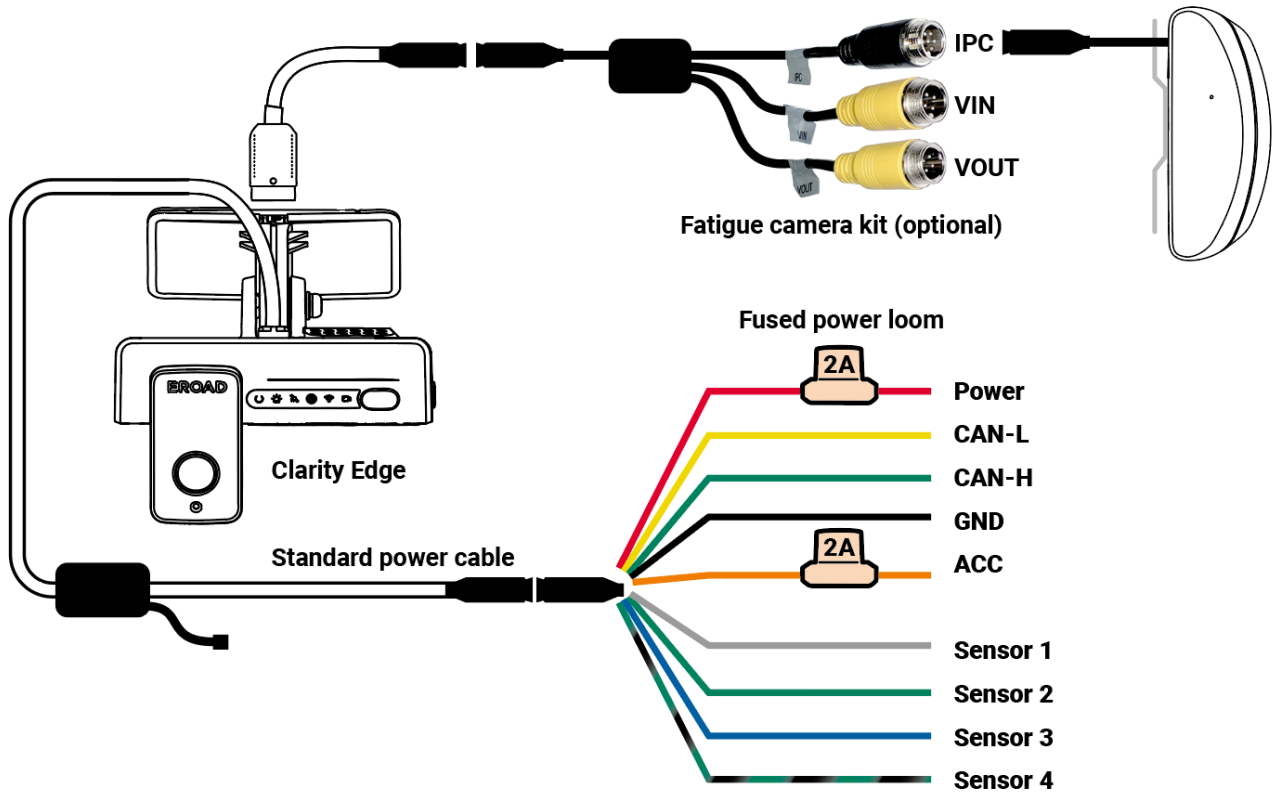
*Left-hand Drive routing*



*Right-hand Drive routing for NZL, AUS, CAN*



## Vehicle power (standard) install



1. Connect the unit to the standard power supply cable.
2. Run the cable as illustrated behind the dash. Avoid loops and pinches in the cable.
3. Connect the fused power loom to the standard cable.
4. Connect **Power** (fused), **ACC** (true idle, ignition, fused) and **GND** to the corresponding correct vehicle connection points for the vehicle.
5. Use the EROAD recommended connection method of solder, tape & cable tie.



- **The power supply box MUST be firmly mounted in place via cable ties/ double sided tape.** secure it clear of any excessive shake or vibration locations (loudspeakers, engine etc)



## OBDII connection install

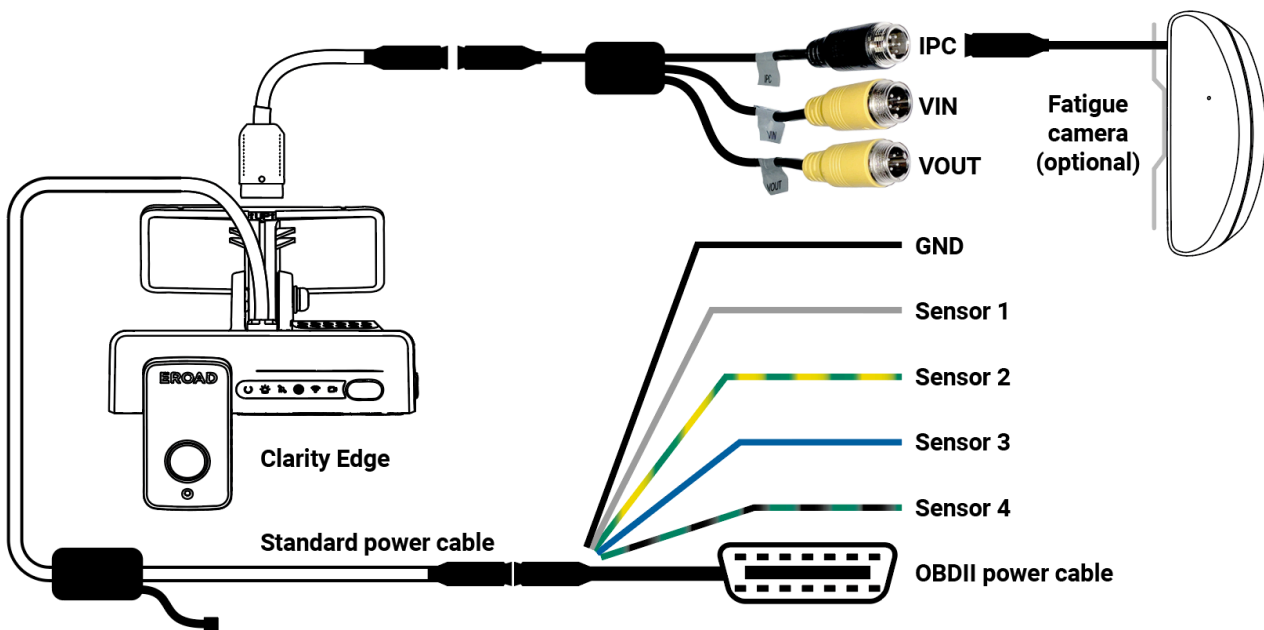
**i** If the OBDII port is already occupied, perform a standard installation.



OBDII power cable



OBDII port.



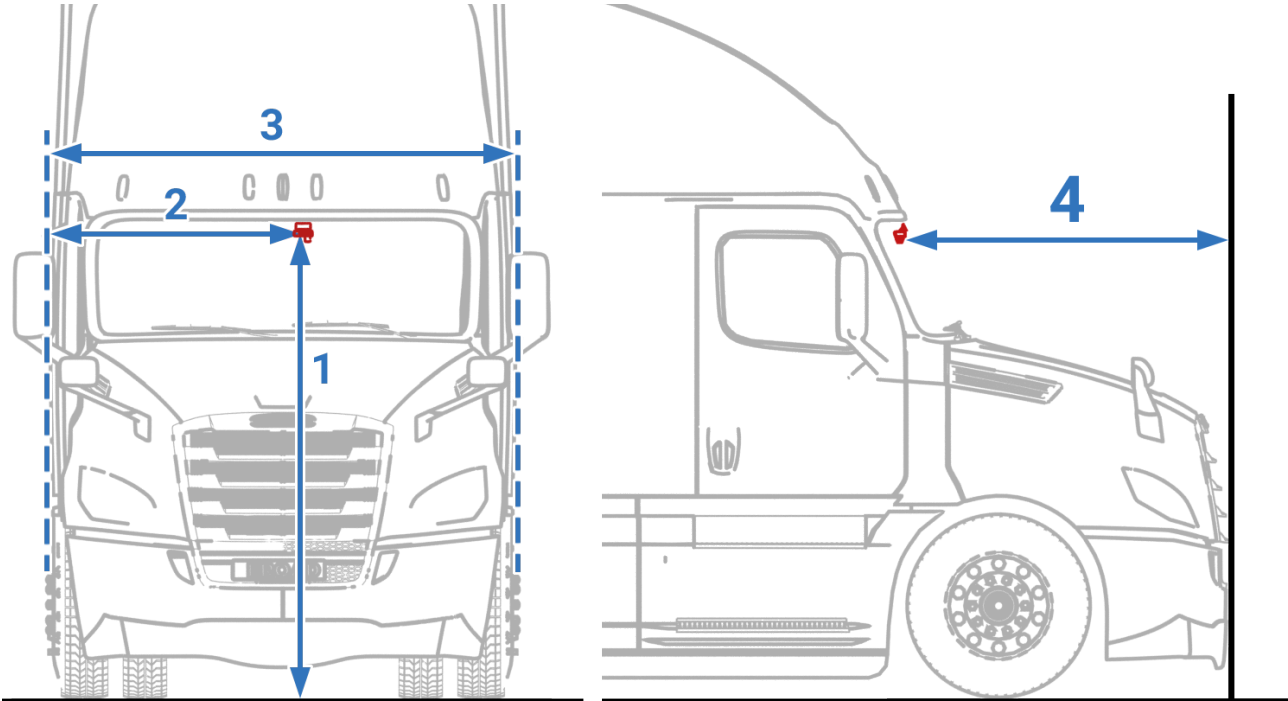
1. Attach the OBDII harness to the unit loom, and plug the OBDII connector into the vehicle's port.

- i**
- The power supply box **MUST** be firmly mounted in place via cable ties/ double sided tape. It needs to be kept clear of any locations with excessive shake or vibration (loudspeakers, engine etc)
  - The power supply box has a built-in turning-on/off control functionality)



## Setting up the Cameras (Road and Driver facing)

To calibrate the forward facing camera, **you need to first accurately measure** the following distances from the road-facing camera lens position and ensure the **ezInstaller App is loaded** onto your phone.



1. **HEIGHT:** the vertical height (accurate to cm/inch) from the ground to the lens for road condition monitoring of Clarity AI with a tower ruler or tape. This is the ADAS lens installation height.
2. **LEFT MARGIN:** the horizontal distance from the lens for road condition monitoring of Clarity AI to the outermost edge of the LEFT tire.

**LEFT is left from viewing the vehicle from the outside, front. Always.** It doesn't matter which side the steering column is: left is from the outside front.

**Side mirrors are NOT considered in measuring width or margin,** even if they extend past the main body sides.

3. **FRONT-END WIDTH:** the distance between the outermost edges of opposite tires. (Side mirrors are NOT appropriate points, even if they extend beyond the cab width.)
4. **FRONT LENGTH:** the horizontal distance from the camera lens to the front most point of the vehicle.

## Tilt angle

The app will allow you to adjust the unit's camera for optimum performance. Once the correct angle is found tighten the mounting bracket screw to lock the position in place.



### Windshield replacement note

The Clarity Edge system may have a Fatigue camera installed on the driver-side A-pillar. Unless the Fatigue camera has been damaged or pulled out of alignment, all that's required is plugging the Fatigue camera back into the Clarity Edge once it's been re-mounted.



## Mounting the optional Fatigue Camera

Each Fatigue camera will have the ordered mounting option presented with it: A-Pillar, Windshield, or bracket (often for dash mounts).



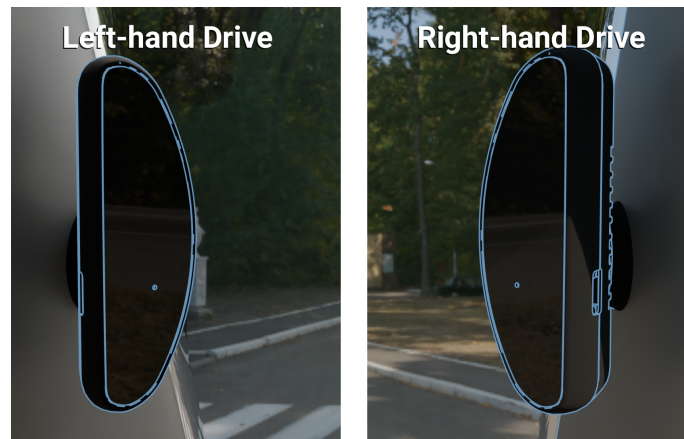
If the customer has ordered mounts that are inappropriate or dangerous for Fatigue camera installation, inform the customer before proceeding.

## A-Pillar Trim Installation

Fatigue Camera install video - <https://vimeo.com/955628260/5b4d861ea3>



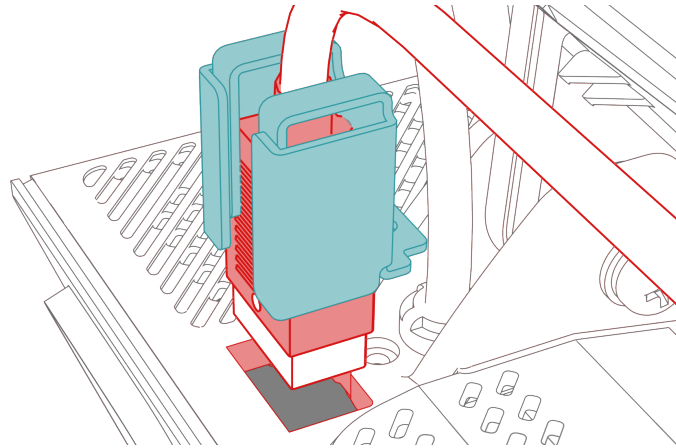
Check the vehicle for side-curtain airbags. If present, the Fatigue camera **MUST NOT** be fitted to the A-Pillar frame, nor the A-Pillar trim.



*Mounted on the left A-pillar trim for left-hand drive vehicles; Right A-pillar trim for right-hand drive vehicles.*

1. The fatigue camera should align long-side vertically, curved side facing the cab's windshield, flat-face directly towards the driver.
2. The height must be lower than that of the driver's face, but clear of the steering wheel.
3. The distance between the camera's flat face and the driver's face should be 50–100 cm (20–40 in).
4. Follow the above video on how to install including drilling of two holes for the mount.
5. Connect the fatigue camera cable to the IPC connection of the 3-way extension cable.
6. You should be able to tuck the cable under the A-Pillar trim, so no need for an additional hole to be drilled.
7. Tuck and fit the cable behind the A-Pillar, run it up and along the cab roof trim, to the Clarity Edge unit.
8. Thread the fatigue cable through the fatigue cable clamp, such that the white dot faces through the gap, and near the eye end.
9. Using the screw near the unit's main cable exit, screw in the fatigue cable clamp.





*Attach the cable clamp (white dot faces out); insert the plug; screw in the clamp.*



In the driver's position, you can rough-adjust the angle to see your nose in the reflection of the flat plate. The ezInstaller app will provide more accurate alignment.

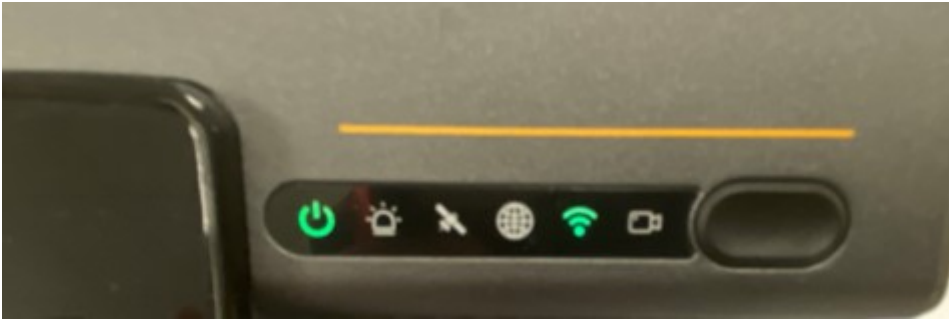


## Setup & Calibration: ezInstaller App





### For Clarity Edge

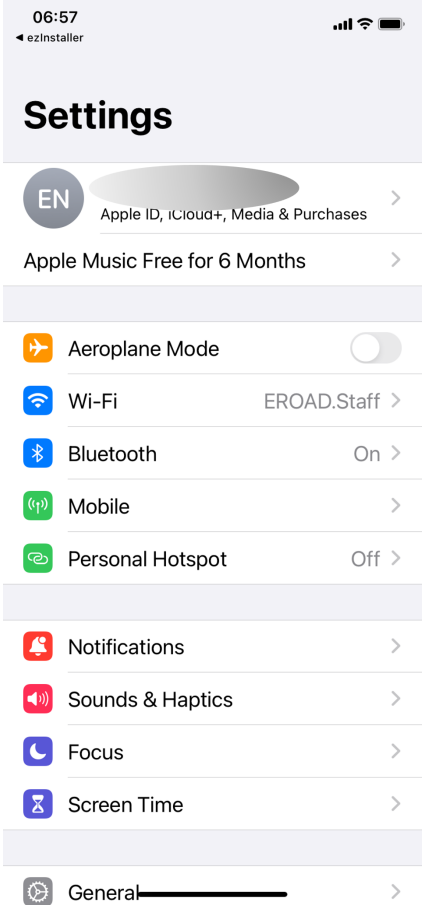
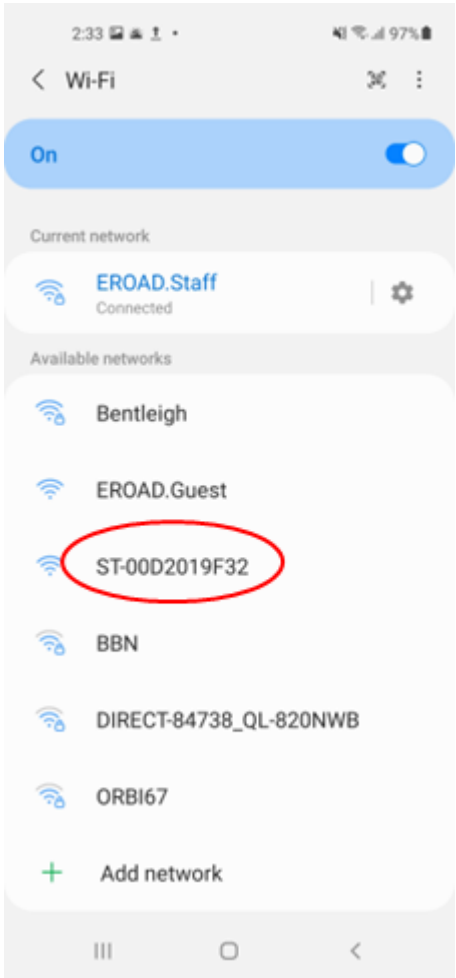
The blue protective film must be removed from both camera lenses.

iOS	Android
<p>Power up the Edge camera once it is installed (and the fatigue camera if fitted) As the camera is powering up, open the ezInstaller App As the camera powers the LEDs will flash, wait until the Wi-Fi LED goes green - this indicates the camera Wi-Fi is on.</p> 	
<p><b>Opening ezInstaller App screen</b> <b>Click on Connecting Device / Connect Button</b></p>	

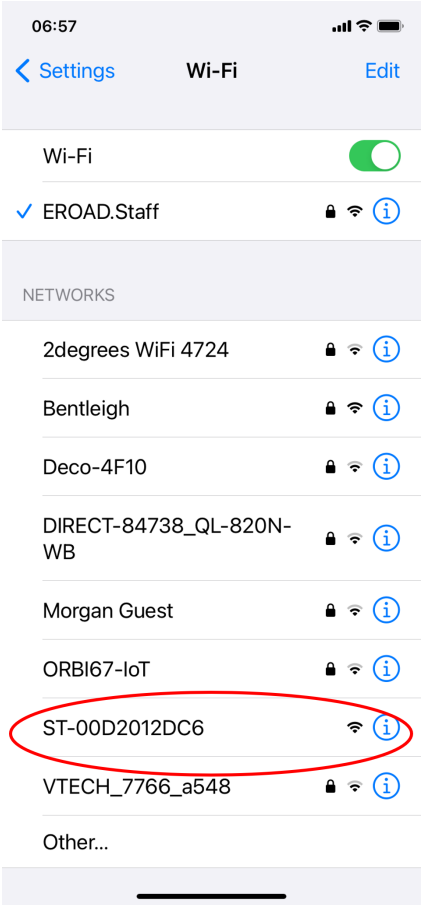


iOS	Android
<p data-bbox="256 333 316 356">06:56</p> <p data-bbox="619 333 703 356">[Signal] [Wi-Fi] [Battery]</p>  <p data-bbox="308 940 643 983">No device connected Press the button below to connect devices</p> <p data-bbox="395 1088 555 1111">Connecting device</p> <p data-bbox="260 1288 687 1335">By logging in, you agree to our <a href="#">Service Agreement</a> and <a href="#">Privacy Statement</a></p> <hr data-bbox="384 1375 564 1384"/>	<p data-bbox="949 333 1062 356">2:32 [Signal] [Wi-Fi] [Battery]</p> <p data-bbox="1230 333 1337 356">[Signal] [Wi-Fi] [Battery] 97%</p>  <p data-bbox="920 996 1318 1046">No device is connected. Press the button below to connect the device.</p> <p data-bbox="1078 1146 1158 1169">Connect</p> <p data-bbox="975 1227 1262 1272">By logging in, you agree to our <a href="#">Service Agreement</a> and <a href="#">Privacy Policy</a></p> <p data-bbox="970 1312 1262 1335">[Menu] [Home] [Back]</p>

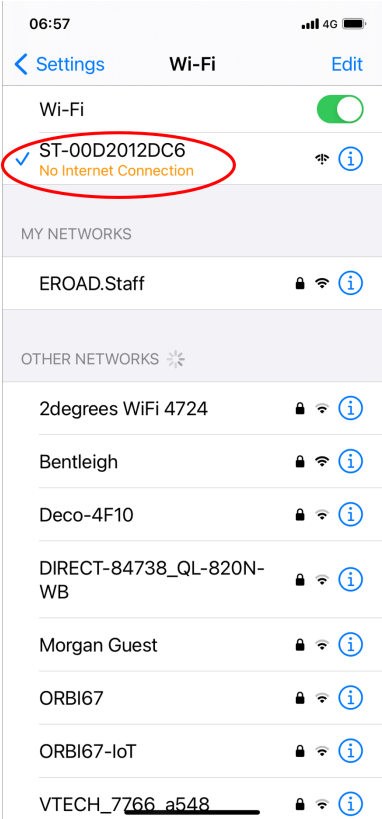
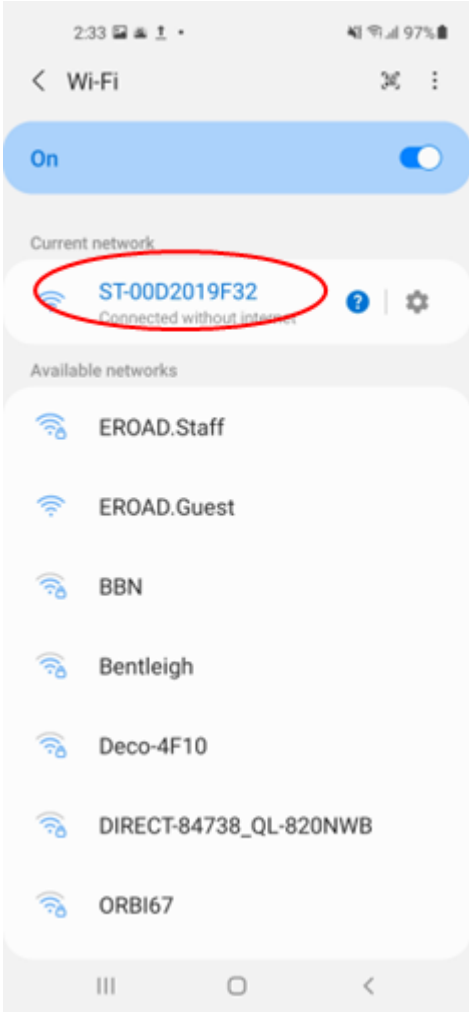


iOS	Android
<p><b>You will be taken to your phones setting page</b></p>  <p>The screenshot shows the iOS Settings app. The 'Settings' title is at the top. Below it, the user's name 'EN' and 'Apple ID, iCloud+, Media &amp; Purchases' are visible. The 'Wi-Fi' option is selected and highlighted in blue, with the network name 'EROAD.Staff' shown to its right. Other options like 'Aeroplane Mode', 'Bluetooth', 'Mobile', 'Personal Hotspot', 'Notifications', 'Sounds &amp; Haptics', 'Focus', 'Screen Time', and 'General' are also visible.</p>	<p><b>You will be taken to your phones setting page</b></p> <p>Select the Wi-Fi network of the camera which is identified by the camera serial number (example below).</p> <p>If the camera network does not come on, toggle the Wi-Fi button on and off every 10 - 15 seconds until it comes up.</p>  <p>The screenshot shows the Android Wi-Fi settings page. The 'Wi-Fi' toggle is turned 'On'. Under 'Current network', 'EROAD.Staff' is connected. Under 'Available networks', the network 'ST-00D2019F32' is circled in red. Other available networks include 'Bentleigh', 'EROAD.Guest', 'BBN', 'DIRECT-84738_QL-820NWB', and 'ORBI67'. There is also an 'Add network' option at the bottom.</p>



iOS	Android
<p><b>Select Wi-Fi to be taken to the next screen</b></p> <p>Select the Wi-Fi network of the camera which is identified by the camera serial number (example below).</p> <p>If the camera network does not come on, toggle the Wi-Fi button on and off every 10 - 15 seconds until it comes up.</p>  <p>The screenshot shows the iOS Settings app, specifically the Wi-Fi page. The Wi-Fi toggle is turned on. A list of networks is shown, with 'ST-00D2012DC6' selected and circled in red. Other networks include EROAD.Staff, 2degrees WiFi 4724, Bentleigh, Deco-4F10, DIRECT-84738_QL-820N-WB, Morgan Guest, ORBI67-IoT, and VTECH_7766_a548.</p>	
<p><b>Wait until you see your phone connect to the Camera Wi-Fi</b></p>	



iOS	Android
	

Return to the ezInstaller App on your phone (it will still be open). The screen has changed to show that the app is connected to Camera Wi-Fi network

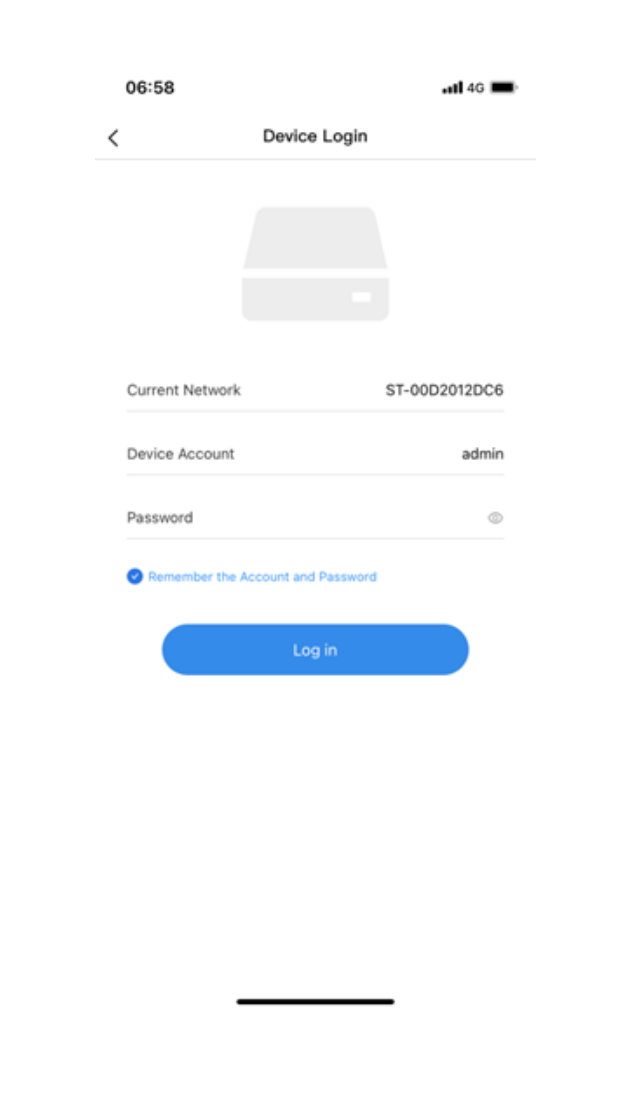
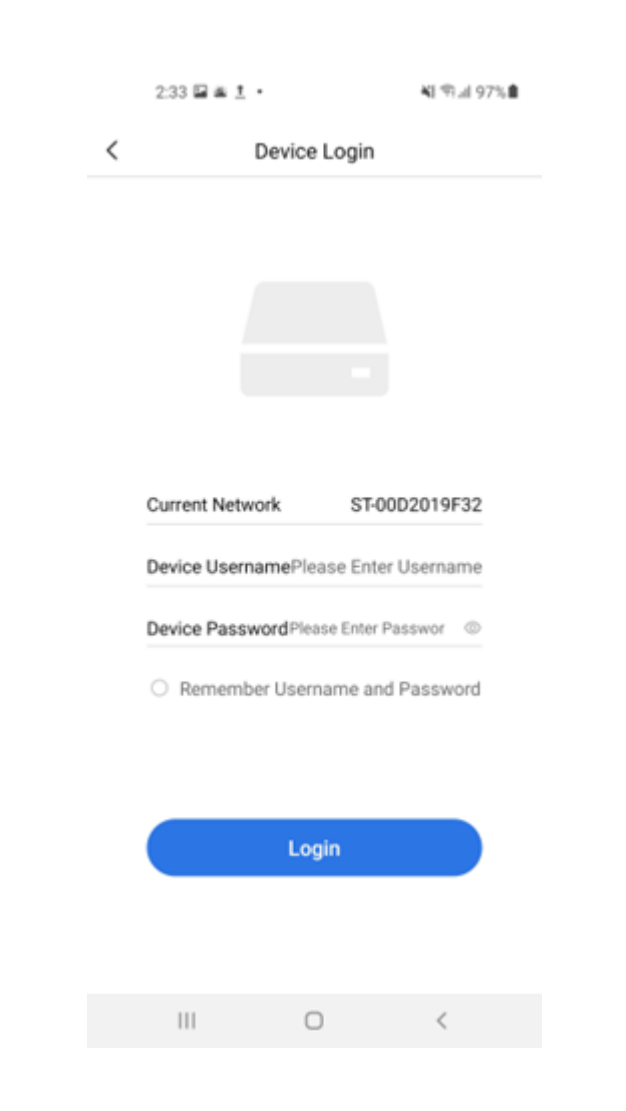
Device Account = **admin**

Password = **admin**

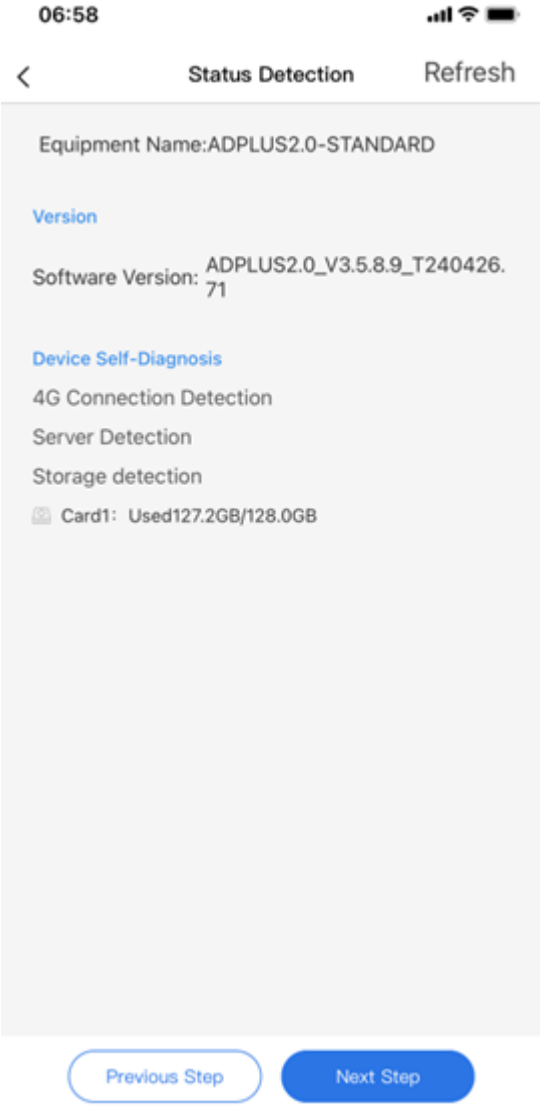
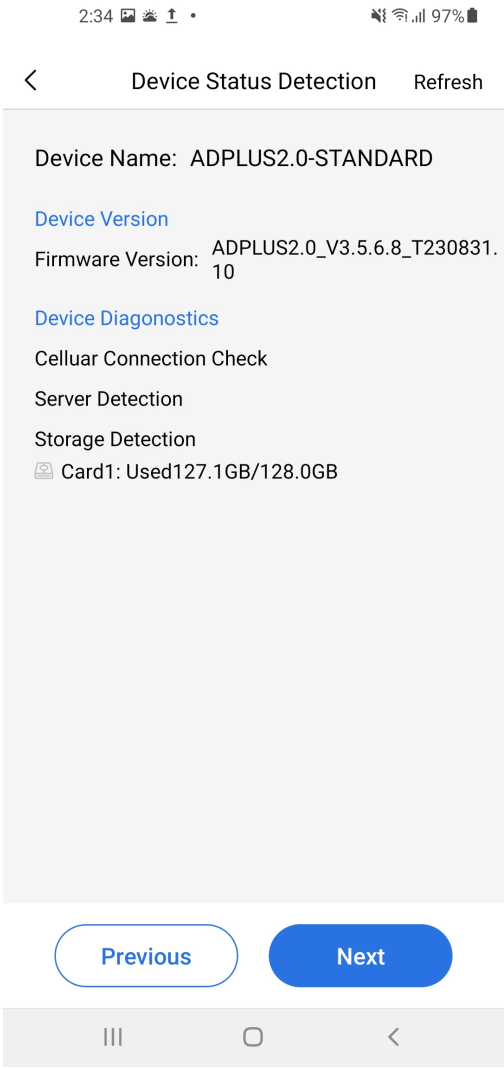
Entries are case sensitive.

If correct select **Log in**



iOS	Android
 <p>The screenshot shows the iOS 'Device Login' screen. At the top, the time is 06:58 and the signal strength is 4G. Below the title 'Device Login' is a device icon. The form contains three fields: 'Current Network' with the value 'ST-00D2012DC6', 'Device Account' with the value 'admin', and 'Password'. There is a checked checkbox for 'Remember the Account and Password' and a blue 'Log in' button at the bottom.</p>	 <p>The screenshot shows the Android 'Device Login' screen. At the top, the time is 2:33 and the battery level is 97%. Below the title 'Device Login' is a device icon. The form contains three fields: 'Current Network' with the value 'ST-00D2019F32', 'Device Username' with the placeholder 'Please Enter Username', and 'Device Password' with the placeholder 'Please Enter Passwor' and a password icon. There is an unchecked checkbox for 'Remember Username and Password' and a blue 'Login' button at the bottom.</p>
<p>This is the status screen - select <b>Next Step / Next</b> button</p>	

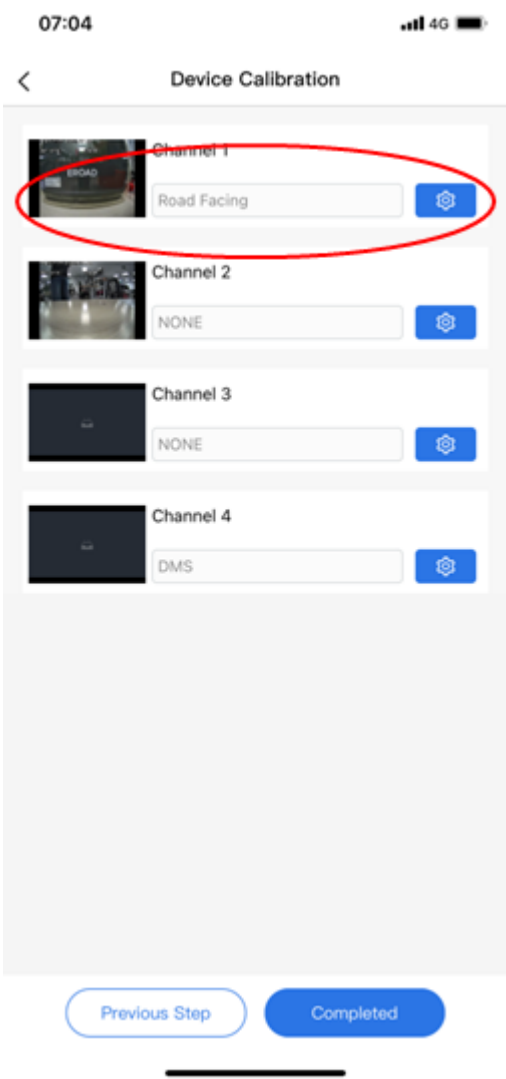
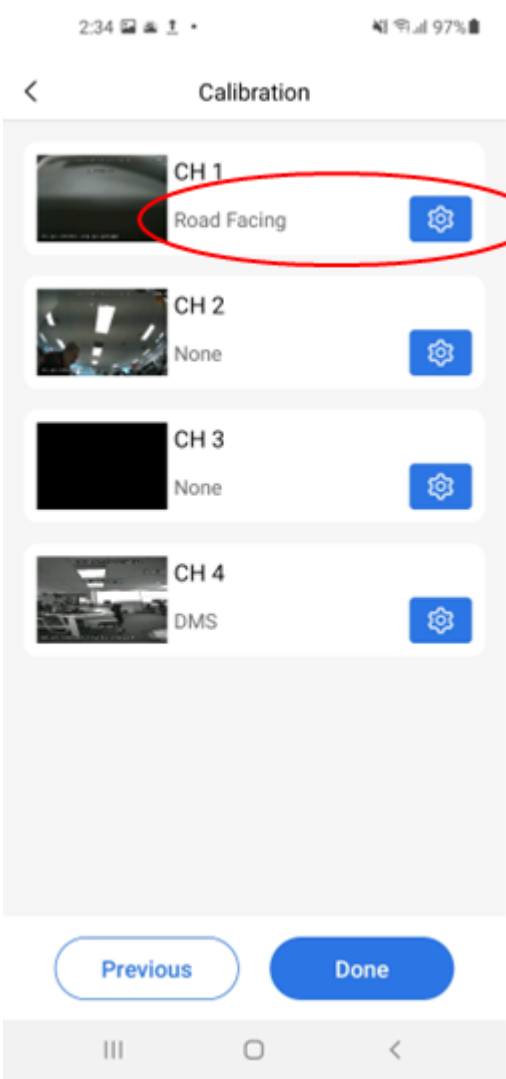


iOS	Android
 <p>The screenshot shows the iOS 'Status Detection' screen. At the top, the time is 06:58. The title is 'Status Detection' with a back arrow on the left and a 'Refresh' button on the right. The main content area is a light gray box containing the following text: 'Equipment Name:ADPLUS2.0-STANDARD', a blue link 'Version', 'Software Version: ADPLUS2.0_V3.5.8.9_T240426.71', a blue link 'Device Self-Diagnosis', and a list of items: '4G Connection Detection', 'Server Detection', 'Storage detection', and 'Card1: Used127.2GB/128.0GB'. At the bottom, there are two buttons: 'Previous Step' and 'Next Step'.</p>	 <p>The screenshot shows the Android 'Device Status Detection' screen. At the top, the time is 2:34 and the battery is at 97%. The title is 'Device Status Detection' with a back arrow on the left and a 'Refresh' button on the right. The main content area is a light gray box containing the following text: 'Device Name: ADPLUS2.0-STANDARD', a blue link 'Device Version', 'Firmware Version: ADPLUS2.0_V3.5.6.8_T230831.10', a blue link 'Device Diagnostics', and a list of items: 'Celluar Connection Check', 'Server Detection', 'Storage Detection', and 'Card1: Used127.1GB/128.0GB'. At the bottom, there are two buttons: 'Previous' and 'Next'. Below the buttons is a navigation bar with three icons: a vertical bar, a circle, and a left arrow.</p>


This is the Device Calibration screen. Channel 1 is the Road Facing camera and the 4 measurements you recorded earlier will need to be entered.  
Select the blue 'gear' icon as pictured





iOS	Android
 <p>The iOS 'Device Calibration' screen shows four channels. Channel 1 is selected with 'Road Facing' and a gear icon, circled in red. Channel 2 is 'NONE', Channel 3 is 'NONE', and Channel 4 is 'DMS'. At the bottom are 'Previous Step' and 'Completed' buttons.</p>	 <p>The Android 'Calibration' screen shows four channels. Channel 1 is selected with 'Road Facing' and a gear icon, circled in red. Channel 2 is 'None', Channel 3 is 'None', and Channel 4 is 'DMS'. At the bottom are 'Previous' and 'Done' buttons.</p>

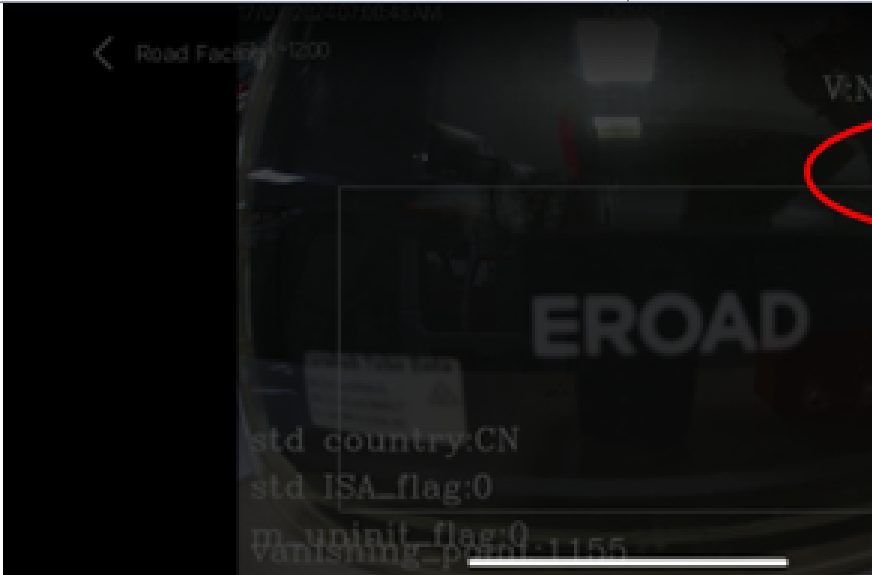
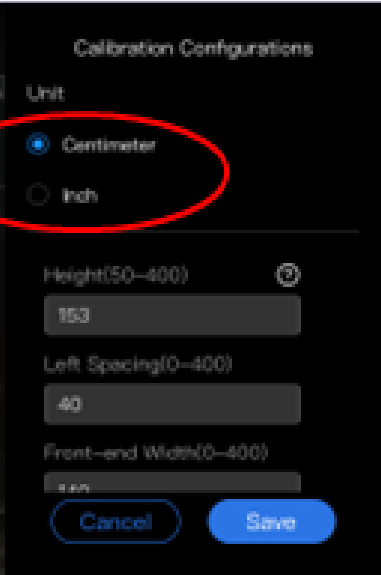
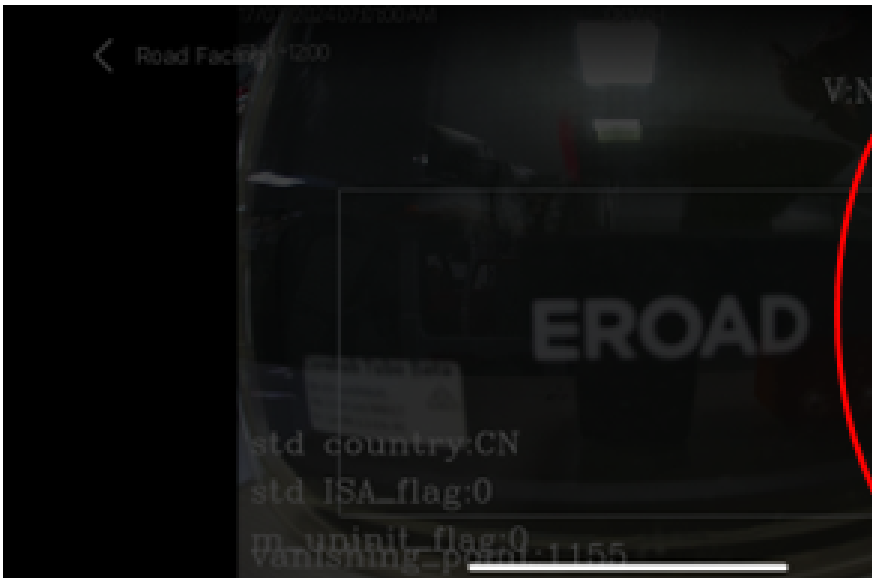
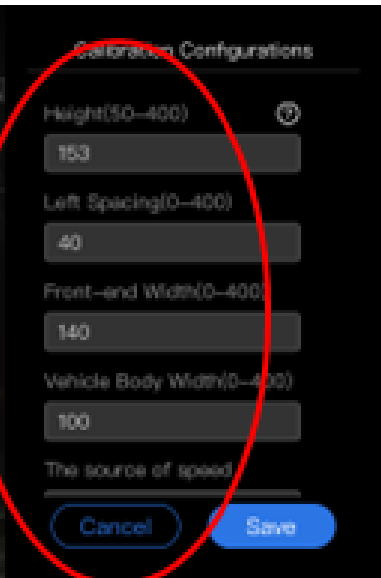
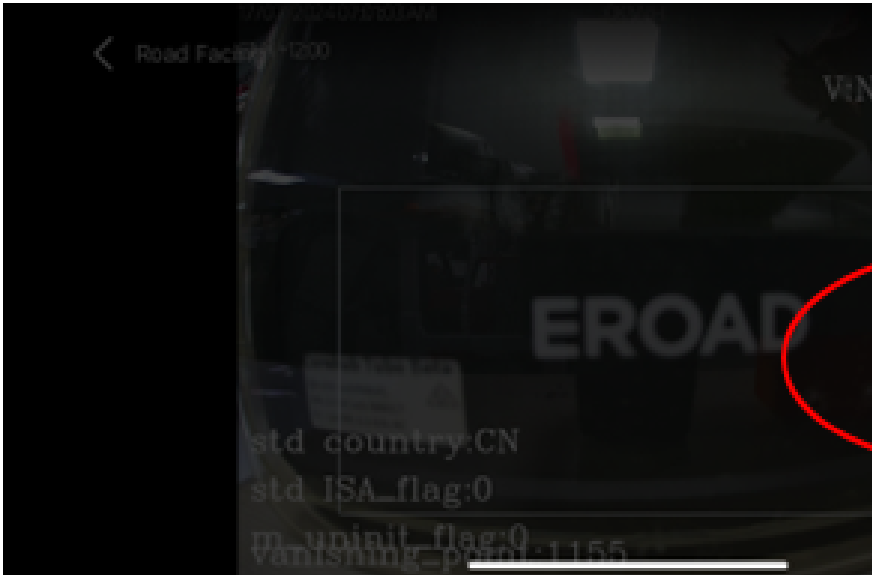
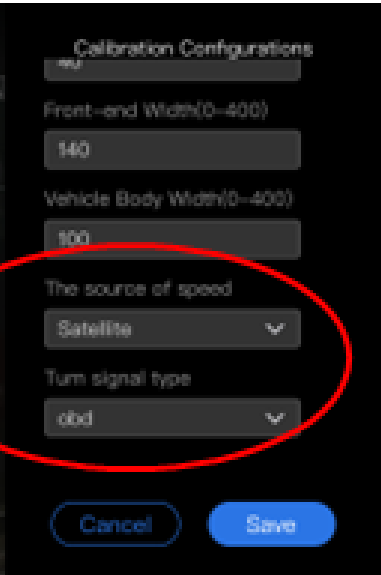


iOS	Android
<p data-bbox="197 327 1398 389">This is the road facing camera view. You can adjust the angle of the camera to ensure you get a good view of the road.</p> <p data-bbox="488 405 1107 434">For calibration - select the white gear icon (pictured)</p>  <p>The screenshot shows a mobile application interface for a road-facing camera. At the top left, there is a timestamp '17/07/2024 07:00:40 AM' and a back arrow next to the text 'Road Facing'. The main view is a fisheye camera feed of a road. The word 'EROAD' is printed in large white letters across the middle of the road. On the right side of the screen, there is a small white gear icon, which is circled in red. At the bottom of the screen, there is a white horizontal bar.</p>	

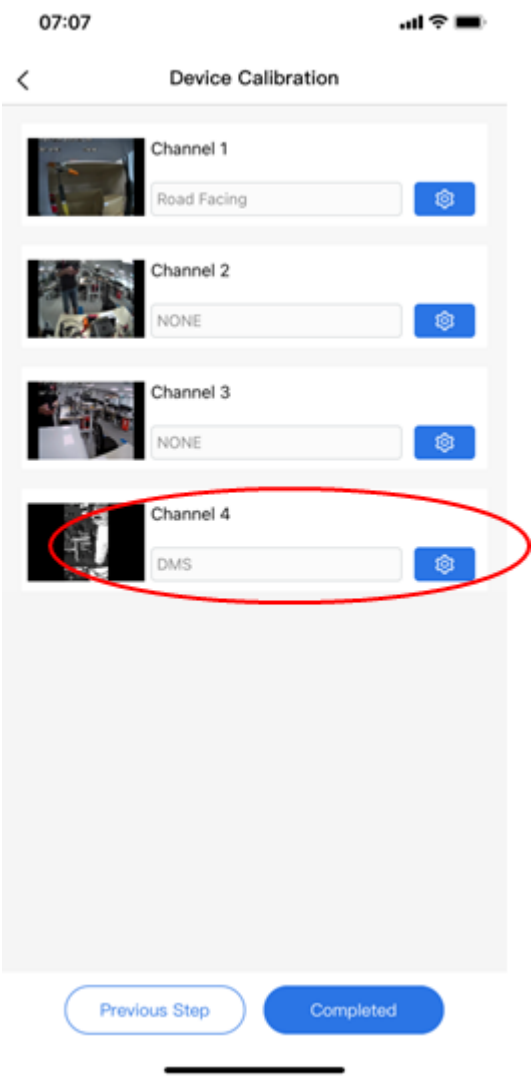
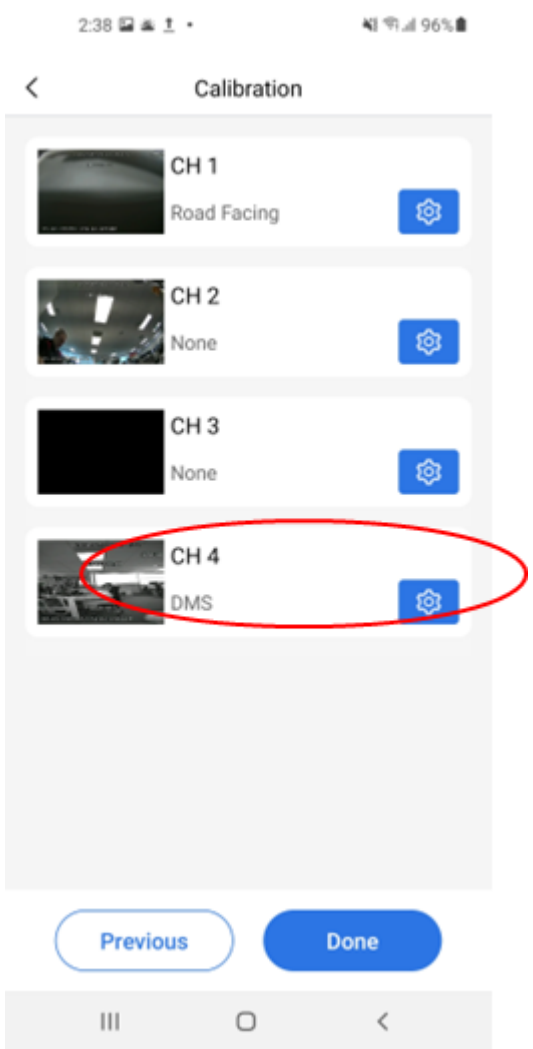


iOS	Android
<p>These 3 images are the main calibration entry screen on the app - you scroll down on your phone to view it fully.</p> <ul style="list-style-type: none"><li>• Select Unit of measure (Imperial or Metric)</li><li>• Enter each of the 4 measurements you have taken already - please note these must be accurate to the nearest inch/ cm</li><li>• do not change the source of speed or turn signal selections</li><li>• select save to lock in values.</li></ul>	



iOS	Android
	
	
	

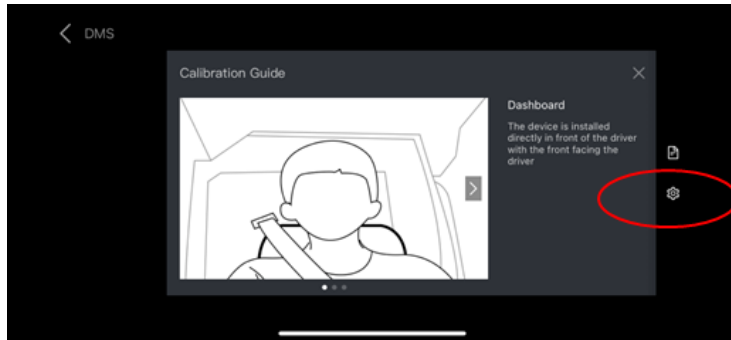


iOS	Android
<p><b>Fatigue Cameras</b></p> <p>You must ensure the Fatigue camera is mounted correctly and calibrated.</p> <p>Video link for troubleshooting: <a href="https://vimeo.com/955628260/5b4d861ea3">https://vimeo.com/955628260/5b4d861ea3</a></p> <p>Select the Channel 4 blue 'gear' icon as pictured next:</p>	
 <p>The screenshot shows the 'Device Calibration' screen on an iOS device. It lists four channels: Channel 1 (Road Facing), Channel 2 (NONE), Channel 3 (NONE), and Channel 4 (DMS). The Channel 4 entry is circled in red, and its blue gear icon is also circled in red. At the bottom, there are 'Previous Step' and 'Completed' buttons.</p>	 <p>The screenshot shows the 'Calibration' screen on an Android device. It lists four channels: CH 1 (Road Facing), CH 2 (None), CH 3 (None), and CH 4 (DMS). The Channel 4 entry is circled in red, and its blue gear icon is also circled in red. At the bottom, there are 'Previous' and 'Done' buttons.</p>
<p>Align the camera so the driver's head in the center of the screen.</p> <p>Select the page icon for details</p>	



iOS	Android

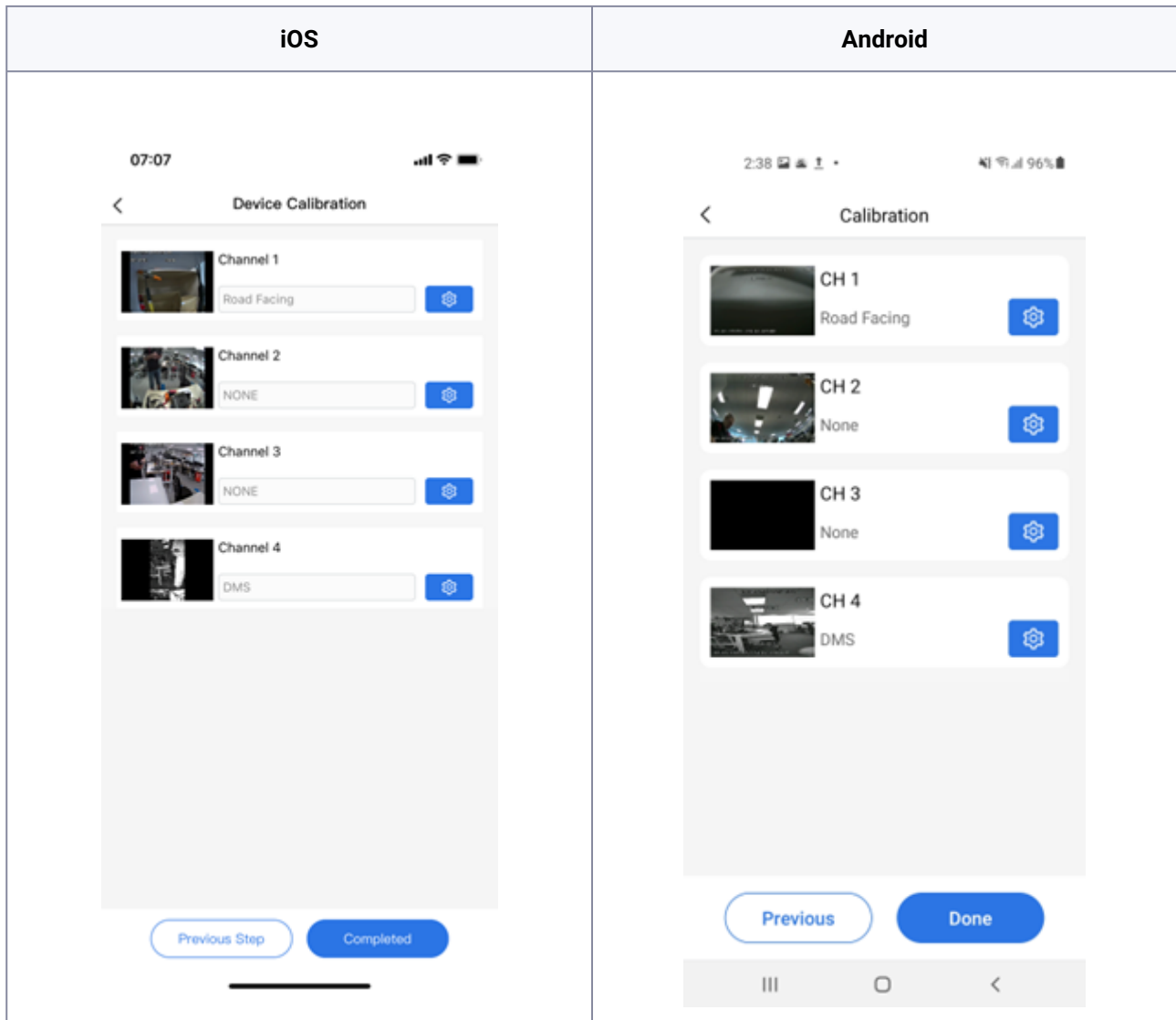
This is a reminder of what is required.  
 Select the gear icon to set calibration value



Select the correct mounting position for the Fatigue camera. If fitted to the windscreen use the A-Pillar/Column options  
 Press save when completed.

--	--

When all calibration values are saved, select **Completed/ Done**.



Close the app when finished.



## For Fatigue cameras

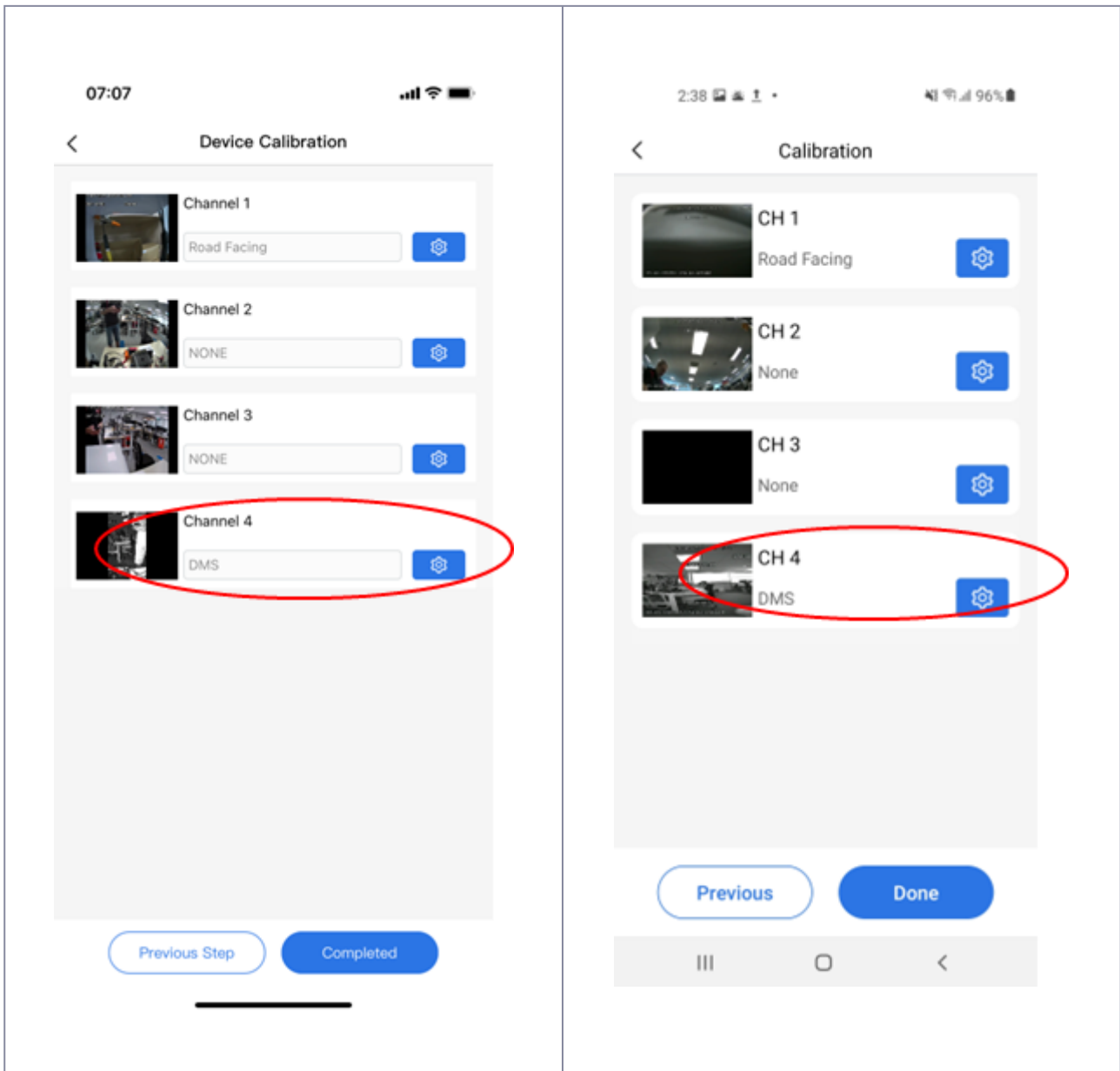
### ✔ IMPORTANT

Because the ezInstaller app provides you with a live feed of the Fatigue camera, use the app to position the camera in an ideal position BEFORE permanently mounting it.

Video link for troubleshooting:

<https://vimeo.com/955628260/5b4d861ea3>

Select the Channel 4 blue 'gear' icon as pictured next:



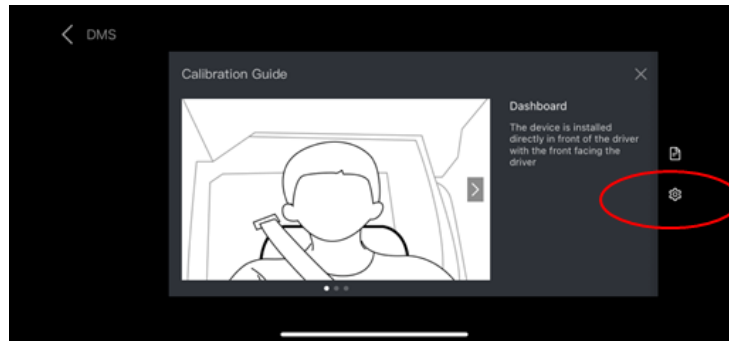
Align the camera so the driver's head in the center of the screen.

Select the page icon for details

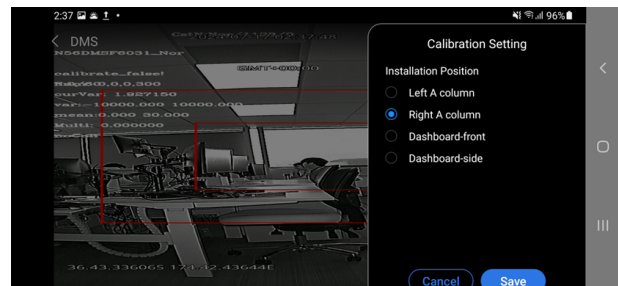
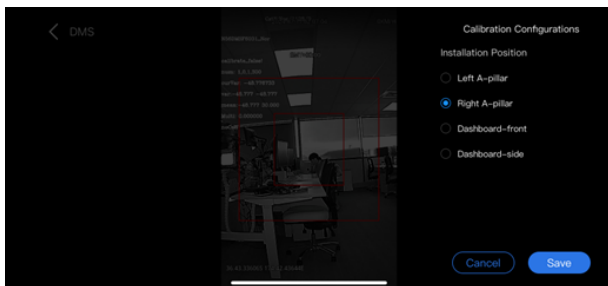




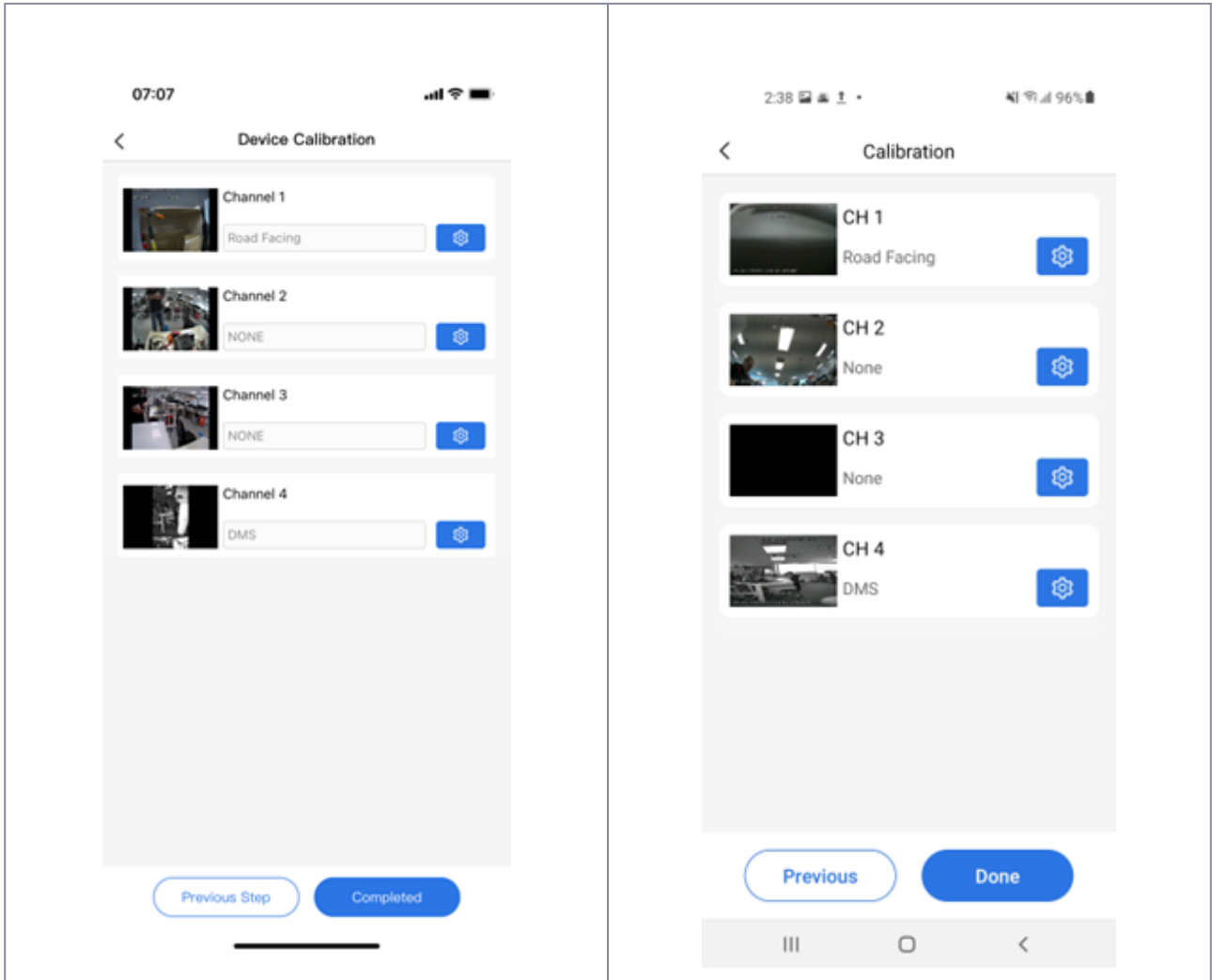
This is a reminder of what is required.  
Select the gear icon to set calibration value



Select the correct mounting position for the Fatigue camera.  
If fitted to the windscreen use the A-Pillar/ Column options  
Press save when completed.

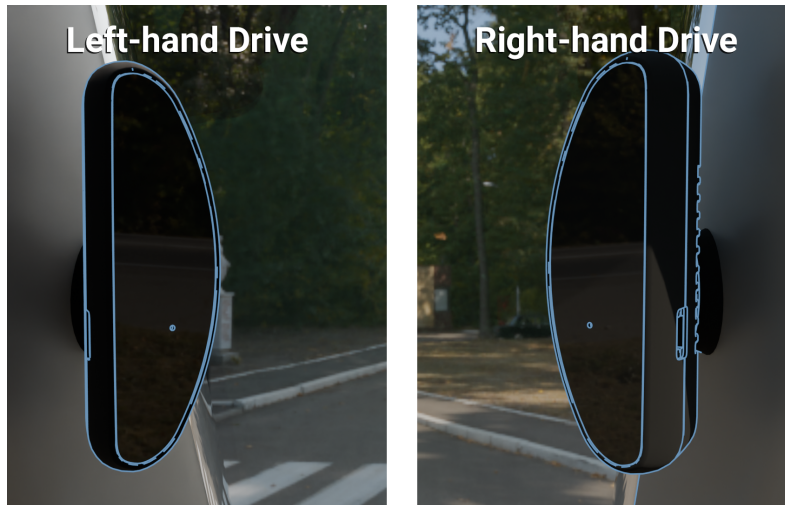


When all calibration values are saved, select **Completed/ Done**.





## Windshield installation



*Tuck the base of the windscreen mount as close to the A-Pillar trim as possible without impacting its line of sight to the driver.*

1. The fatigue camera should align long-side vertically, curved side facing the cab's windshield, flat-face directly towards the driver.
2. The height must be lower than that of the driver's face, but clear of the steering wheel.
3. The distance between the camera's flat face and the driver's face should be 50–100 cm (20–40 in).
4. **Before sticking the camera to the windshield ensure you have used the EZInstaller app to determine the best position and use a black marker to note the install position of the base. Also ensure the position will allow 100% adhesion of the double sided tape on the base.**



*Note that the slot in the base is facing upwards.*

5. **Ensure two grub screws are tightened fully, one as pictured above and one on the rear of the mount.**
6. Connect the fatigue camera cable to the IPC connection of the 3-way extension cable.
7. You should be able to tuck the cable under the A-Pillar trim, so no need for an additional hole to be drilled.
8. Tuck and fit the cable behind the A-Pillar, run it up and along the cab roof trim, to the Clarity Edge unit.



In the driver's position, you can rough-adjust the angle to see your nose in the reflection of the flat plate. The ezInstaller app will provide more accurate alignment.

## Aligning the Fatigue camera

After the device is powered on, perform the adjustment with the assistance of ezInstaller App's real-time preview screen. It is allowed to turn on the auxiliary line to facilitate positioning.

1. Adjust the angle (up, down, left, and right) of the FATIGUE camera to ensure that the driver's face appears in the middle of the video screen, the driver's face and body are vertical on the video screen, and the lower edge of the screen is below the driver's chest.
2. Make sure that the fill light of the Fatigue camera illuminates the driver's face (fill light illuminating the seat belt is not allowed; otherwise, it will lead to overexposure of video).
3. Make sure that there is no other object (for example, the steering wheel) in the FATIGUE video screen that will obstruct the driver's face and the seat belt features.
4. Lock the final position of the camera with the allen key supplied.



## Remote record button install (Kit HR003107A) - Optional

The remote record button provides a more conveniently-placed way to trigger a manual record event on the Clarity Edge, if the unit is out of reach, or if tapping the unit's button risks knocking the camera out of alignment.

1. Drill a 14 mm (0.55 in) diameter hole into a dashblank (or similar site within comfortable reach of the driver).
2. Ensure the O-ring remains near the head of the button-thread while removing the nut and washer.
3. Thread the wires through the washer and nut.
4. Wire in the fuseholder with a 2A fuse on the RED wire.
5. Wire in the remote button **ORANGE** wire to **SENSOR IN 1 (Grey)**.
6. Tighten the nut and washer.
7. Heatshrink the join, use cable ties to coil and tie away any excess cable.








Ensure there is a constant 12-24 V when the key is inserted, with the engine running, and also when the key is not inserted and the engine is off.



## Troubleshooting

During normal operation all the unit's status lights are off, except the Power icon (Green), and occasionally the Recording icon (Red) when recording a clip.

### LED indicators

<p><b>Power</b></p> 	<p><b>Off:</b> The unit is not powered on  <b>Green:</b> The unit is powered normally</p>
<p><b>Alarm</b></p> 	<p><b>Off:</b> The unit is operating properly  <b>Red flashes x3:</b> The unit generates an alarm  The fault indicator of the OBD port blinks twice every second until the fault is removed</p>
<p><b>GPS</b></p> 	<p><b>Off:</b> GPS is operating properly  <b>Red:</b> The unit is out of coverage; module fault  <b>Red, flashing:</b> The unit has poor coverage</p>
<p><b>Network</b></p> 	<p><b>Off:</b> The unit is connected to the server properly  <b>Red:</b> The unit is connecting intermittently, or through unverified hotspots  <b>Red, flashing:</b> The unit is in Flight mode (operating properly, but offline)</p>
<p><b>WiFi</b></p> 	<p><b>Off:</b> No WiFi connection.  <b>Green:</b> Ready for WiFi connection.</p> <div style="border: 1px solid green; padding: 5px; margin-top: 10px;"> <p> WiFi connection is only used for unit configuration.</p> </div>
<p><b>Record</b></p> 	<p><b>Off:</b> No triggered recording in operation.  <b>Red:</b> Recording a video clip to internal memory.</p>

### Device startup failure

- Check that the power cable is well connected, and the fuse is intact and fully inserted.



- According to the power supply logic designed for the system, when the device is powered by OBD, it is powered when the vehicle is moving (G-sensor acceleration value > 10 g). If the OBD is installed under normal power supply, shake the power box slightly.

## Device Networking Failure after Startup

Make sure that the SIM card is inserted before device startup. If it is inserted after device startup, please power off and restart the device.

- Check whether the SIM card is installed correctly.
- Check whether the network signal at the current position is good.
- Check the traffic condition of the SIM card.

## Device Recording Failure after Startup

- Make sure that the SD card is inserted before device startup. If it is inserted after device startup, please power off and restart the device.
- Check whether the SD card is installed correctly.
- After the SD card is inserted into the device, format it before use.

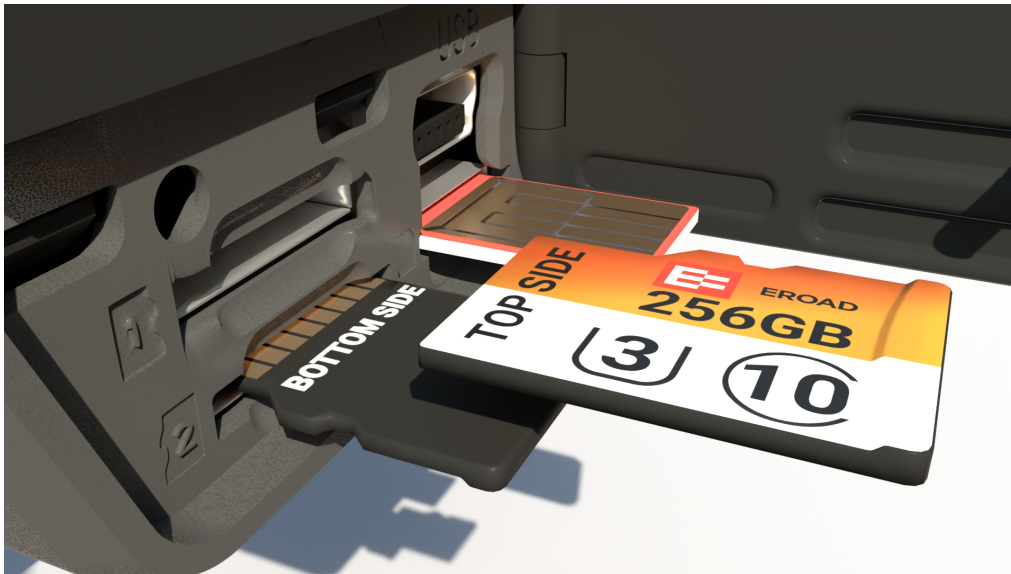


## Camera cards

### SIM cards

**⚠** SIM cards can be inserted incorrectly, yet feel correct.

Gold-side up, trimmed corner edge inserted first.



*Bottom cards: gold contacts up.*

### MiniSD cards

**i** Usually, Clarity Edge units are shipped with SD cards pre-installed.

Slot 1 MiniSD cards are for day-to-day writing/recording of trips. Typically, these cards are 128 GB or greater.

Slot 2 MiniSD cards are for low-res backups of requested or triggered/archived video. These cards are typically smaller - between 32–128 GB.

If EROAD-approved cards are not present, cards must be:

1. Type SDXC
  - a. Class 10 / UHS-I / V30
  - b. Of a capacity specified in the job order.
- Use the supplied Torx screwdriver to unscrew the card slot door.
- Seat the cards.
- Close and screw the door closed when finished.
- Remove the protective film on the lenses and the LED panel.





## Photo verification

Installers are encouraged to photo-document their work – through dedicated apps like vWork, bespoke configuration apps, or general cameras – to assist in supporting work order documents. Any digital camera may be used for 2 or 3 images per site, but images must:

- Show the device clearly, mounted in place, oriented appropriately.
- Show connections and wiring secure and tidily managed.
- Indicate the environment in which the device is installed (its position in the cab, or on the asset).
- You may also wish to note the vehicle make/model for future reference.



**Photos are evidence of a compliant install.** They protect EROAD's and the Installer's liability, should a future 3rd party or incident affect compliance integrity.



## Health & Safety

**Installation in or on water-borne equipment is not recommended and is not covered by EROAD's warranty.**

**This device is factory-sealed; tampering will void the warranty.**

EROAD expects installers and contractors to understand and follow all relevant health and safety regulatory requirements.

The Installer must wear appropriate Personal Protective Equipment (PPE) for the install risk and customer requirements. PPE may include safety glasses, safety shoes, work gloves, hard hat, high visibility vest, sun cream, sun hat and coveralls. The Installer must understand and comply with the safety requirements of customers or third parties.

Avoid fitting EROAD-supported equipment in locations that could impede or cause injury to people. This includes potential head strike zones on the windshield or dashboard, airbag deployment locations, seatbelts, and other safety-relevant devices.

The vehicle must be parked and level, with the parking brake engaged.

Before installation, check that other safety-relevant equipment is working properly and report any issues to the customer.

Before the Installer is permitted to work under or around suspended equipment – held aloft with slings, hoists, or jacks – ensure the equipment is secured to prevent collapse or falls. Secondary controls should be in place; working under a suspended load should be avoided.

Avoid running cables close to heat sources, sharp edges, obstacles or safety-relevant devices.

After installation, check that all other safety-relevant equipment continues to work properly.

While EROAD-supported devices are comprehensively tested against corrosion and ingress, devices are not invulnerable to water, fire or impact damage, and certain devices are not able to be environmentally shielded. Do not subject EROAD-supported devices to extreme heat, high-pressure water force or other intense physical forces. Operating temperatures for the equipment related to this guide are found in the specifications.

The Installer must ensure they fully understand these instructions before installing an EROAD-supported device and immediately seek advice from a Regional Installation Manager on any matter that is not understood.



## Legal

The rules and requirements concerning the lawful and compliant installation and operation of electronic driver aids vary, depending on state, country and regulatory authority. You are required to be familiar with the applicable laws of the locations in which the vehicle will be operated. This includes any rules, orders and codes of practice issued by any regulator governing installation of electronic driver aids, or the lawful monitoring, reporting and management of distracted driving and compliance with road rules and requirements for safe driving.

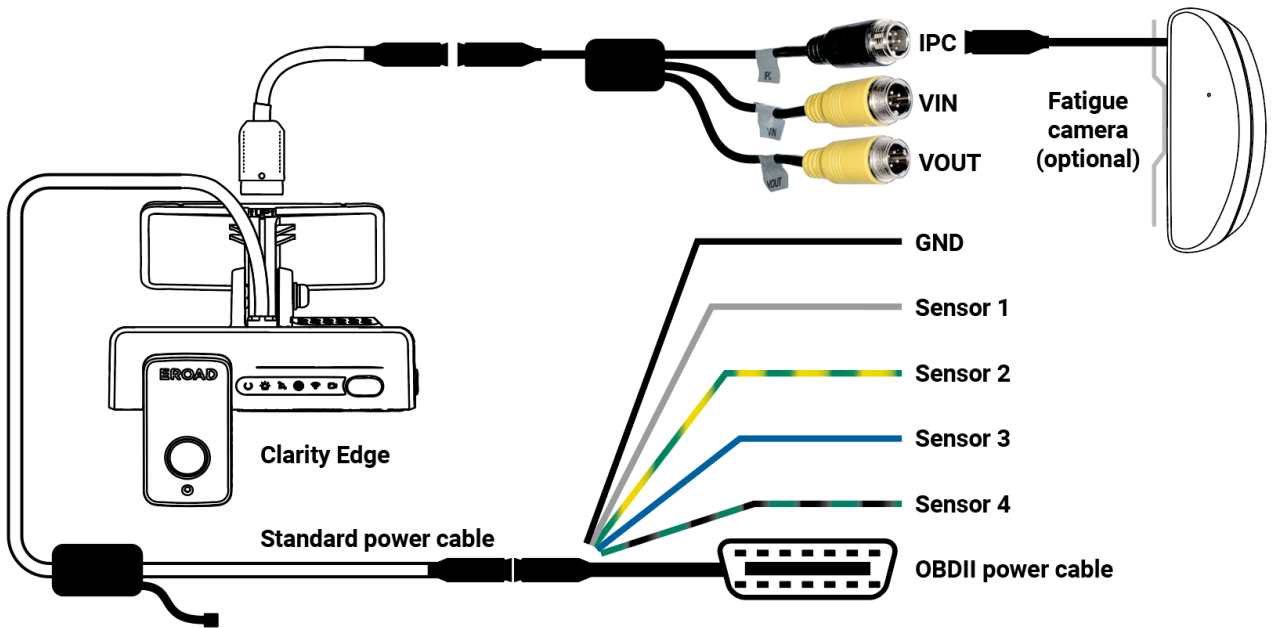
It is your sole responsibility to install and ensure that each vehicle operator uses the devices and accessories that you install in a manner that complies with the law without causing accidents, personal injury or property damage. To the fullest extent permitted by law, EROAD disclaims all liability and excludes all warranties for installation or use of this device and its accessories.

As EROAD is continuously improving its products, EROAD may make changes to this device at any time, which may not be reflected in this document. Please contact your nearest EROAD office if you require any further assistance.

If you think that the installation of this device may have caused your vehicle's performance to be impeded, please contact EROAD Technical Support immediately to resolve the issue. EROAD is not liable for any costs or expenses incurred by engaging a third party to repair the fault without EROAD's prior consent.



## OBDII power connection

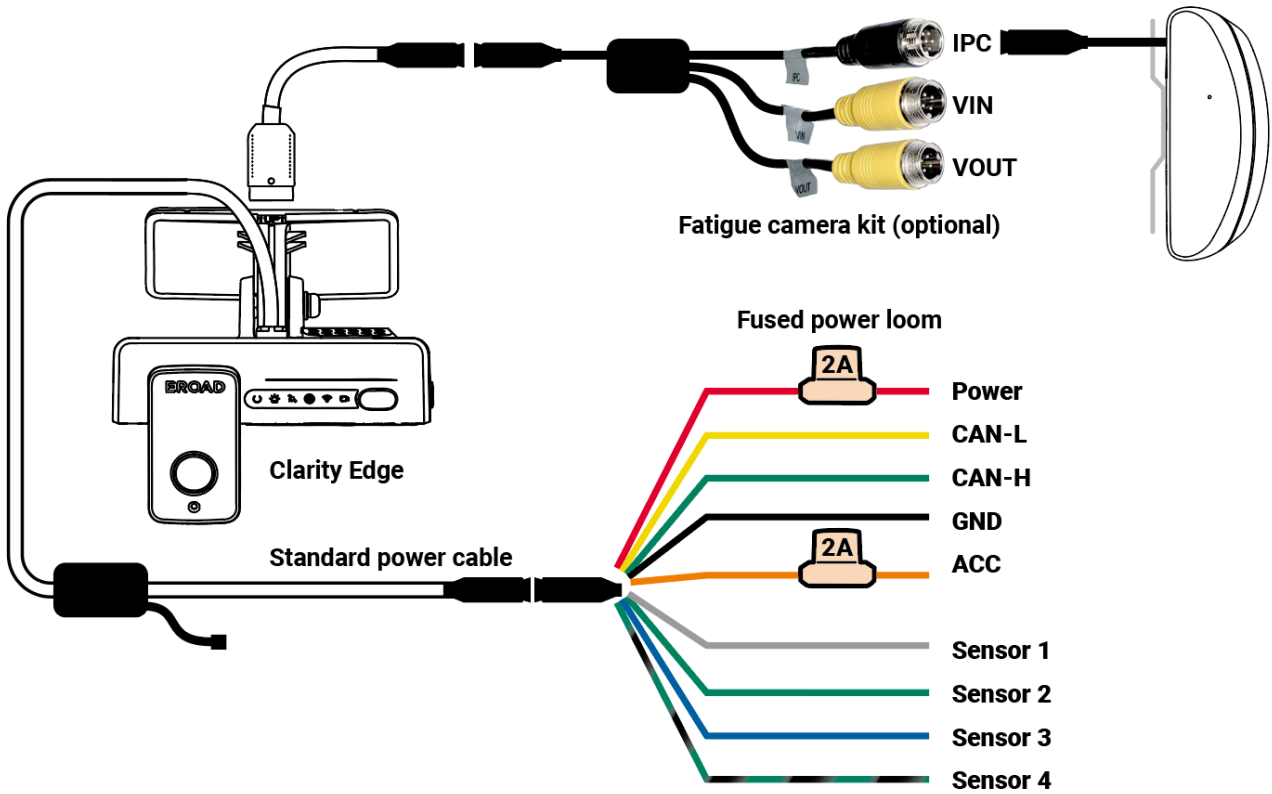


## OBDII cable pinouts

Signal	Color
GND	Black
Sensor IN1	Grey (Remote Trigger)
Sensor IN2	Blue
Sensor IN3	Green-Yellow
Sensor IN4	Green-Black



## Standard power connection



## Standard power cable pinouts

Signal	Color	10-pin DIN male
ACC	Orange	6 (3A fused)
CAN-L	Yellow	1
CAN-H	Green	2
Sensor IN3	Blue	8
Sensor IN2	Green-Yellow	7
Sensor IN1	Grey	5 (Remote Trigger)
Sensor IN4	Green-Black	9
Power	Red	3 (3A fused)
GND	Black	10



## Specifications

<b>Input Voltage</b>	12 / 24V
<b>Power consumption</b>	<ul style="list-style-type: none"> <li>• Standby: 13.5 V @ 5.67 mA, 27 V @ 3.39 mA</li> <li>• Sleep: 13.5 V @ 62~124 mA, 27 V @ 32~61 mA</li> <li>• Between 7-12 W, depending on Camera/SD/SIM/sensor load.</li> </ul>
<b>Camera resolution</b>	Front-facing: 1080p@25fps; Driver-facing: 720p@20fps
<b>Field of view</b>	<ul style="list-style-type: none"> <li>• Front horizontal: 123°</li> <li>• Front vertical: 65°</li> <li>• Driver: 140°</li> </ul>
<b>Audio</b>	<ul style="list-style-type: none"> <li>• Built-in mic (default OFF)</li> <li>• Speaker power: 3W, with adjustable volume</li> </ul>
<b>Status lights</b>	<p>Power: Green On/ Off</p> <p>Alarm: Triple-Flash Red (Alarm)/ Off</p> <p>GPS: Red (Abnormal)/ Red flash (Poor positioning)/Off (normal)</p> <p>Network: Red (Abnormal/ Off (Normal)</p> <p>Wi-Fi: Green (AP mode)/ Red (Abnormal)/ Off (Normal)</p> <p>Camera: Red (Fault, Privacy mode fail)/ Off (Normal)</p>
<b>Storage</b>	MicroSD card×2 (SDXC 256GB), Class 10 or above
<b>Recording time</b>	Dependent on MicroSD card size and additional cameras (eg. Fatigue camera)
<b>Sensors</b>	<ul style="list-style-type: none"> <li>• 6-axis IMU for acceleration/rotation</li> <li>• ambient light for day/night switching</li> </ul>
<b>Ports</b>	USB Mini, MP2 SIM Card x2, RS232, I/O, CAN
<b>GPS</b>	GPS L1, GALILEO, GLONASS, SBAS: WAAS, EGNOS, MSAS, GAGAN
<b>Cellular networks</b>	<ul style="list-style-type: none"> <li>• USA: AT&amp;T, T-Mobile, Cincinnati Bell, Immix, CommNet Wireless</li> <li>• CAN: Bell Mobility, Telus, Videotron, SaskTel</li> <li>• MEX: Telcel, IUSACell</li> <li>• AUS: Telstra</li> <li>• NZL: Vodafone GDSP</li> </ul>



<b>Dimensions</b>	113.0 × 67.8 × 88.2 mm (4.5 x 2.7 x 3.5 in), excluding bracket
<b>Weight</b>	300 g (10.5 oz)
<b>Ingress Protection</b>	IP30 (Not waterproof)
<b>Operating Temp.</b>	-40°C ~ +70°C (-40°F ~ +158°F)

**Generic excerpts**

FCC ID: 2AM6L-ADP2