



## Clarity Edge Windshield replacement guide



This document covers the installation of the Clarity Edge 1.0 system, including the optional Fatigue camera, and optional Seatshaker.

The 1.0 system includes the Power module v1.0, and the Seatshaker's Datahub.

### Technical support

<b>North America</b>	1-855-503-7623	<a href="mailto:support@eroad.com">support@eroad.com</a>
<b>Australia</b>	1800 437 623	<a href="mailto:support@eroad.com.au">support@eroad.com.au</a>
<b>New Zealand</b>	0800 437 623	<a href="mailto:support@eroad.co.nz">support@eroad.co.nz</a>



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## Overview

Windshield replacement often means remounting industrial appliances attached to that windshield.

Re-mounting EROAD's Clarity Edge, and/or EROAD's Fatigue camera, requires:

- removing the mount(s) from the old glass
- completely replacing the mounts to the existing cameras (if still operational)
- identifying and cleaning the mounting location(s)
- using the Clarity Edge installer app to ensure the cameras are correctly aligned and positioned.



EROAD windshield mounts come with a single-use approved adhesive tape that should not be altered, removed, or otherwise compromised. **New glass requires new mounts**, to ensure the equipment performs to specification.

**Recycling old mounts with new adhesive tape is not supported, and risks endangering drivers and equipment.**



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

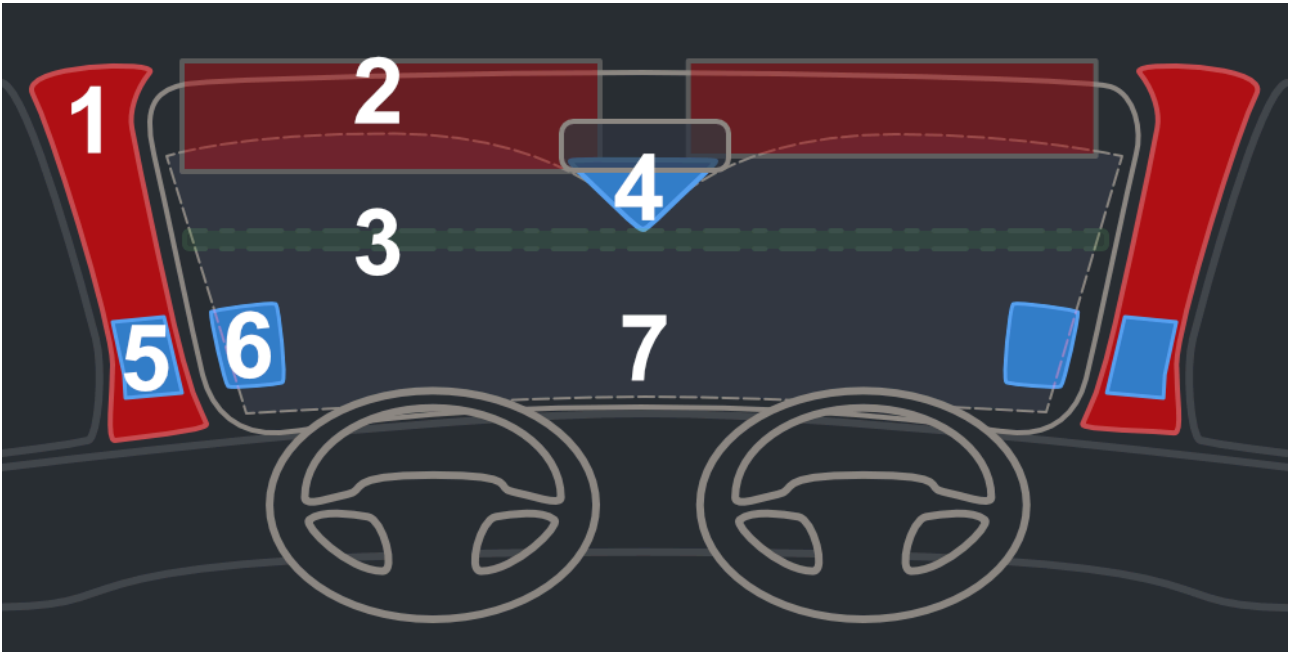
## Parts / kit contents

- Mounts
- IPA cleaning kit



## Mounting locations

- !** The vehicle must be parked on level ground to calibrate the unit.  
The vehicle must also be in cellular cover, to operate the Clarity Edge app.



Red zones - DO NOT MOUNT HERE. 4. Optimum **Clarity Edge** mounting location  
Blue zones - Optimum **Fatigue camera** mounting positions

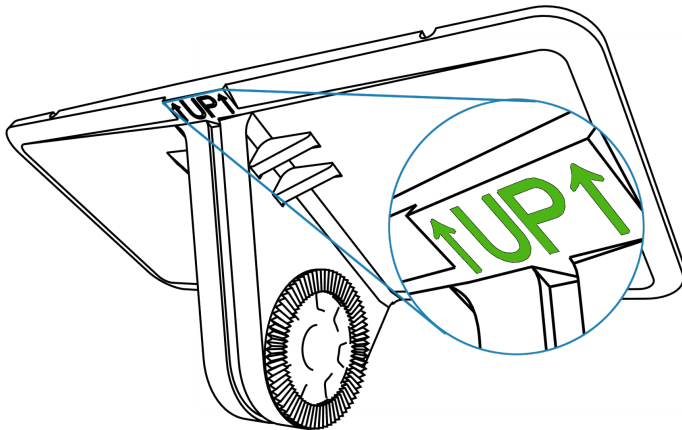
1. A-Pillar trim
2. Sun visor
3. Estimated driver eye level
4. Optimum **Clarity Edge** mounting location
5. Optimum **Fatigue camera** A-Pillar mount (Left for Left-hand drive, Right for Right-hand drive), OR;
6. Optimum **Fatigue camera** windshield mount (Left for Left-hand drive, Right for Right-hand drive)
7. Windshield wiper region



## Clarity Edge re-mounting

### Location considerations

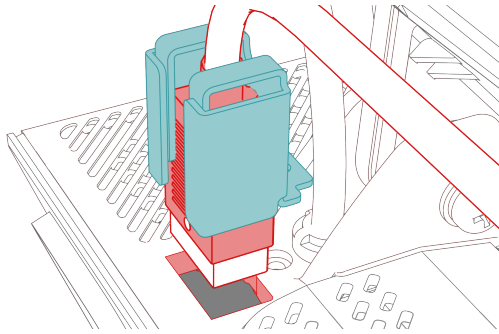
- **High:**
  - Just above the driver's head, avoiding sightlines to the road and side views
  - Avoiding sun visor overlays or pull-downs, and obstructions to the cab-facing camera by rear vision mirrors or other appliances
  - Ideally, the road-facing camera positioned inside the wiper sweep
- **Central:**
  - Within 15 cm of the windshield midline (ideally, within about a meter of the driver's face)
- **Level:**
  - Use a spirit level, digital level or similar to align the top or bottom edge of the mount level.
  - Align the long 'UP' edge horizontally.



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

### Site preparation

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 on the mount.
4. 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 edge is level. Tighten the bracket stud with a PH2 Phillips screwdriver.
7. There will be one or two cables hanging from the roof trim, or around the A-Pillar(s).
  - a. Re-plug the Edge cable into its extension harness.
  - b. If a cable with an appropriate rectangular plug for the Fatigue camera is also present, insert that into the top of the Clarity Edge unit. If available, secure this plug into the unit with the Fatigue camera cable clamp.

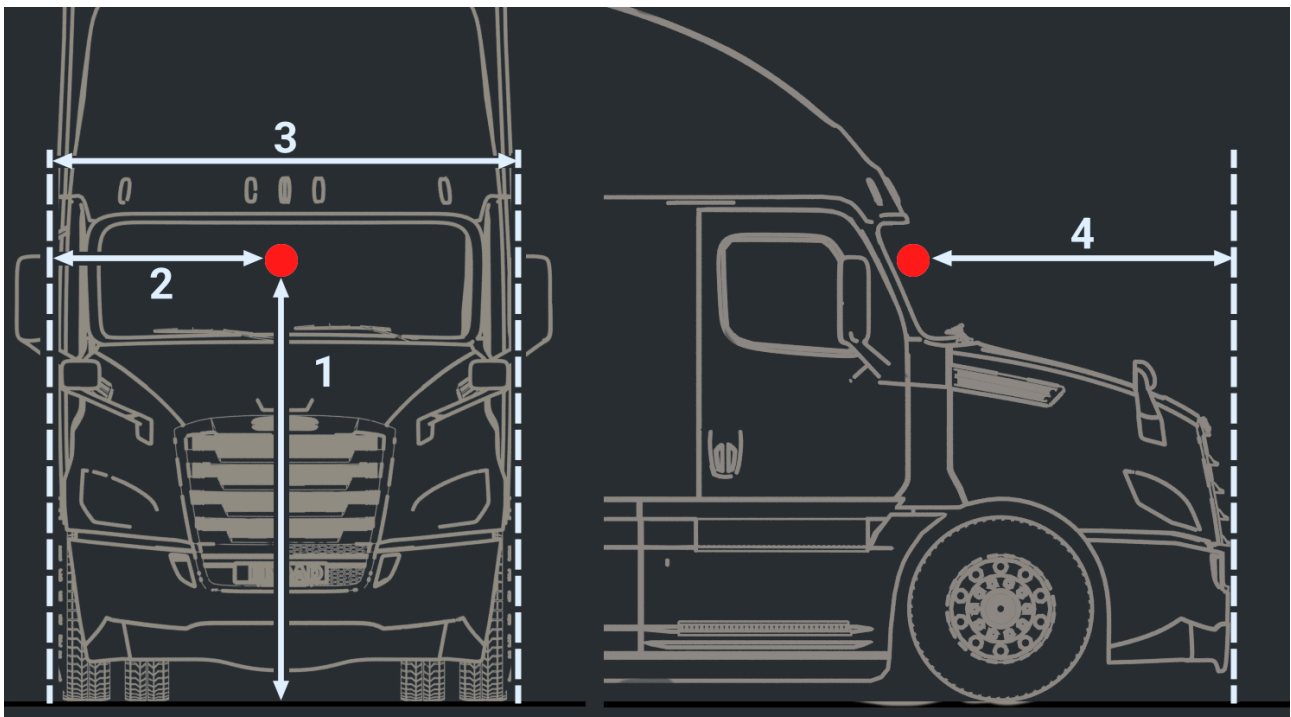


*Fatigue camera cable clamp (sea-green)*

## Clarity Edge location metrics

Accurate AI detections and driver assistance relies on the Clarity Edge knowing where it is in relation to the vehicle.

To calibrate the road-facing camera, **you need to first accurately measure** the following distances from the road-facing camera lens position. You will need to enter these measurements in the appropriate fields when you run the Clarity Installer app.



*Height to Camera (1); Distance from camera lens to left of truck excluding wing mirrors (2); Width of truck, excluding wing mirrors (3); Distance from frontmost bumper/grill to camera (4)*

1. **HEIGHT:** the vertical height (accurate to cm/inch) from the ground to the lens with a tower ruler or tape. This is the ADAS lens installation height.
2. **LEFT MARGIN:** the horizontal distance from the lens to the outermost edge of the LEFT tire.
3. **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.



4. **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.)
5. **FRONT LENGTH:** the horizontal distance from the camera lens to the frontmost point of the vehicle.



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



**Accurate measurements are crucial, or the unit could generate false lane departure warnings or similar.**

## 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.



## Fatigue camera re-mounting

### Location considerations

**i** These instructions only pertain to **windshield-mounted** Fatigue cameras. A-Pillar mounted Fatigue cameras can be left as-is.

1. The Fatigue camera should be mounted on the windshield lower than a driver's chin height.
  - a. That location must allow 100% adhesion on the mount base
  - b. No equipment (like the steering wheel, dash, dash-mounted gear, etc.) can obscure the camera's view to the driver's face and shoulders.
  - c. The curved side of the Fatigue camera points inwards.
  - d. Between 50-100cm from common Driver-position face.



2. Clean the intended installation area with the IPA wipe.
3. Rewipe with a clean cloth, to remove any IPA residue.
4. Remove the adhesive tape backing from the mount.
5. Press the bracket into the windshield for 10s such that no air bubbles are trapped between the windshield and bracket. Replace the ENTIRE MOUNT of the Fatigue camera. **Do NOT attempt to replace just the adhesive tape.**



*Windshield mount*


6. Slightly loosen the two mount grub screws with an Allen key. Sit in the common driver position, orient the Fatigue camera such that you can see your own face in the shiny side, without obstructions, and tighten the mount into position.
7. Tidy any excess cable under the vehicle trim.



Running the Clarity Edge installer app later will provide a better view of camera alignment.




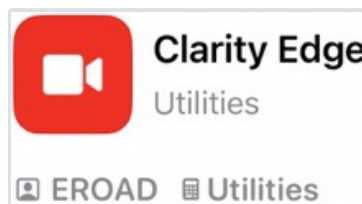
## Calibrating the cameras

 Assemble the unit's WiFi address, QR codes, location measurements ready to enter.

## Download the Clarity Edge installer app

Download and install **Clarity Edge** installer from the Apple store or Google Play.

 There are several apps on the Apple Store or GooglePlay with the words 'Clarity' or 'Edge' in their titles. EROAD mobile apps feature simple red/white icons, and are made by EROAD.



*Click to download to your iOS device*



*Click to download to your Android device*



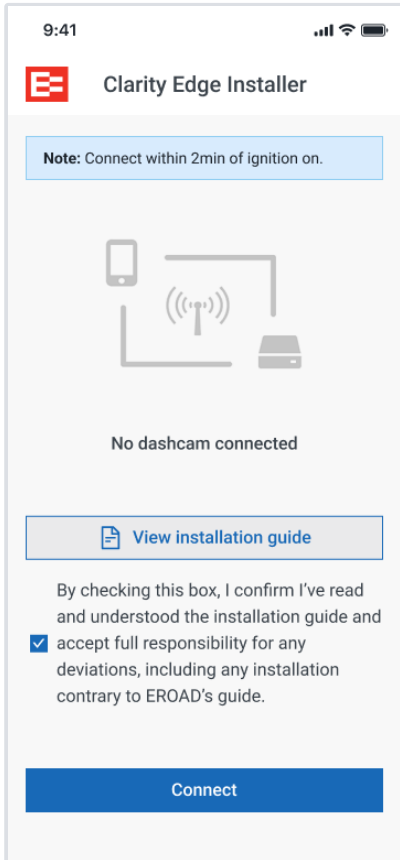
## Configuring the Clarity Edge

- If you haven't already, remove the blue protective film from both camera lenses.
- Assemble the unit's WiFi address, QR codes, or other reference material ready to enter.

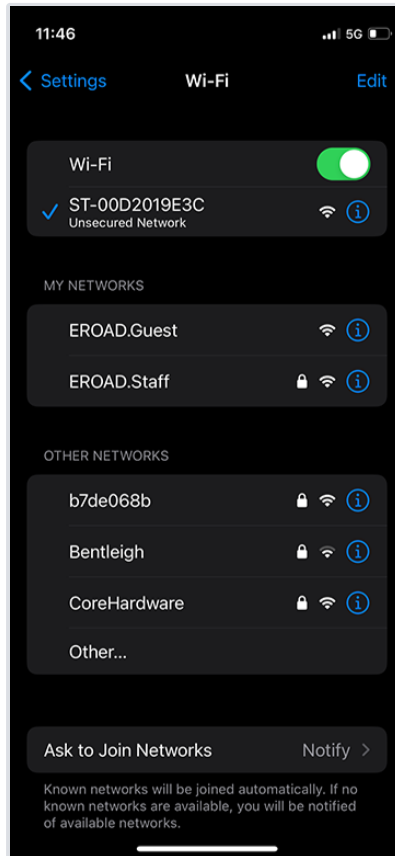
When powered, each unit generates its own WiFi network. You will connect to this network on your device for setup and calibration.



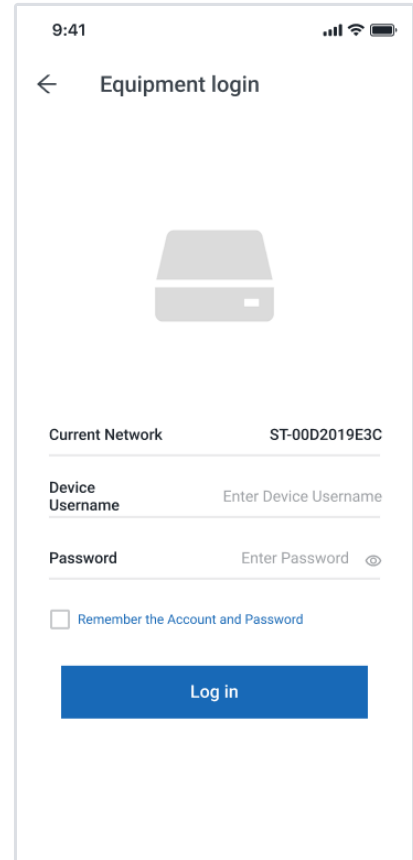
There are minor variations between the iOS and Android versions of Clarity Edge Installer, but they do not affect the process.



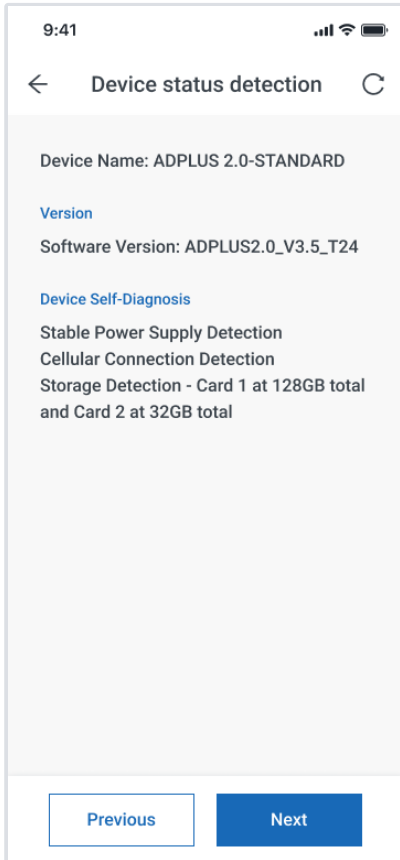
1. The start screen requires you confirm you have read and understood the process found in this guide.



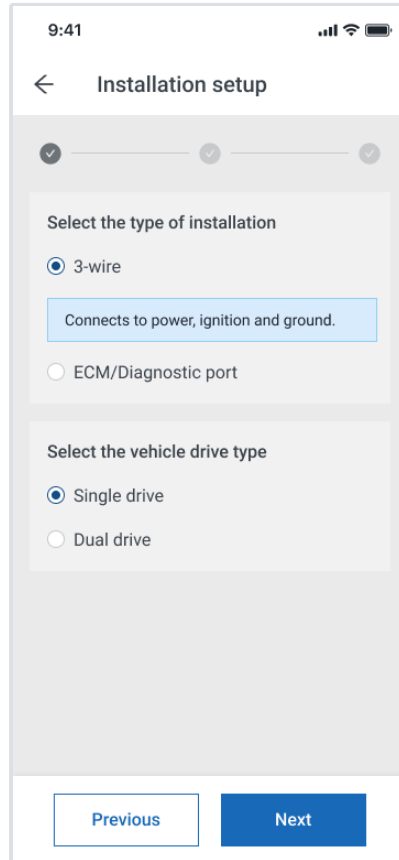
2. Select the unit's WiFi ID. This is found on the Clarity Edge sticker.



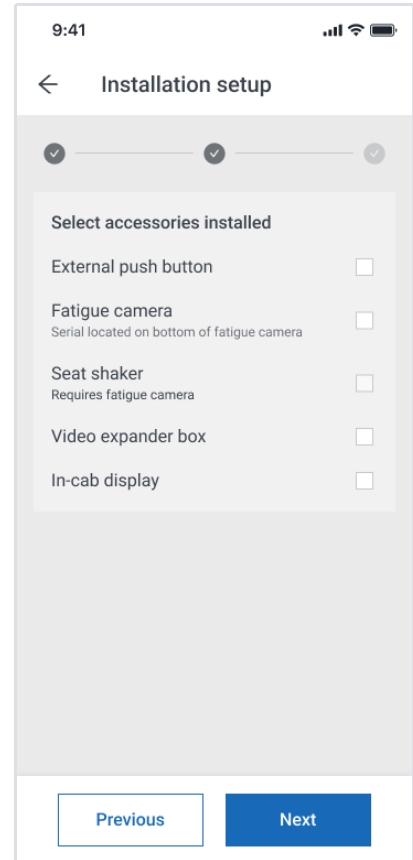
3. Contact your EROAD representative for the Device Username and Password.



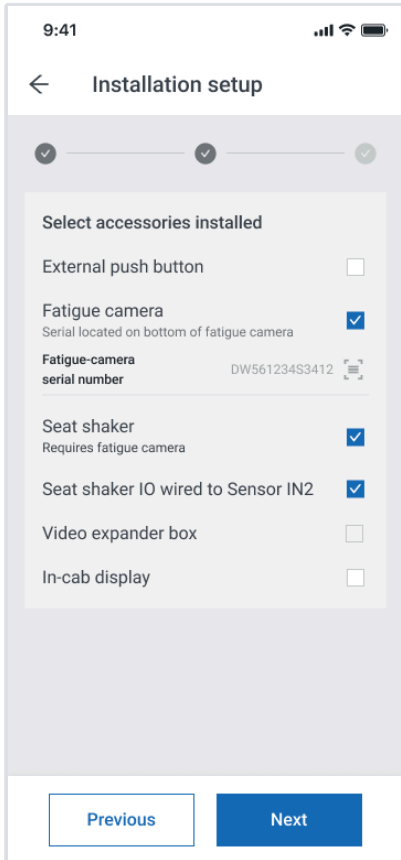
4. Review and confirm connection statuses



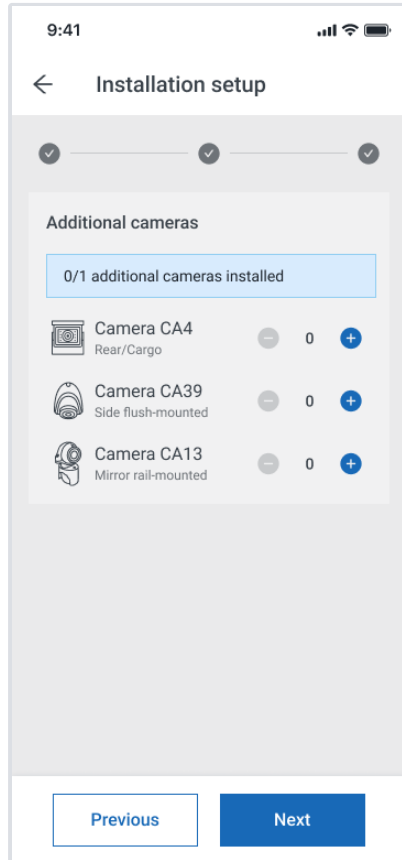
5. A 3-wire single drive install is common; Dual drive for twin steering setups.



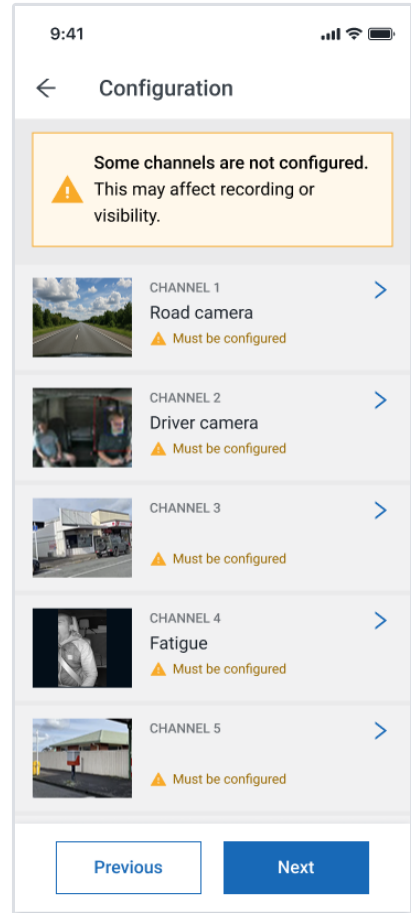
6. Accessories. For Edge + Fatigue + Seatshaker installs, the expander and display options are not required.



7. Select the gear to be installed. Selecting 'Fatigue' enables the serial# scanner for its barcode. The Shaker IO wire will be connected to the Powerbox v1.1 SENSOR IN2 wire.

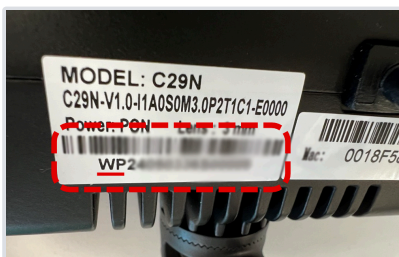


8. Unless there is an additional camera to install, this screen may be skipped.

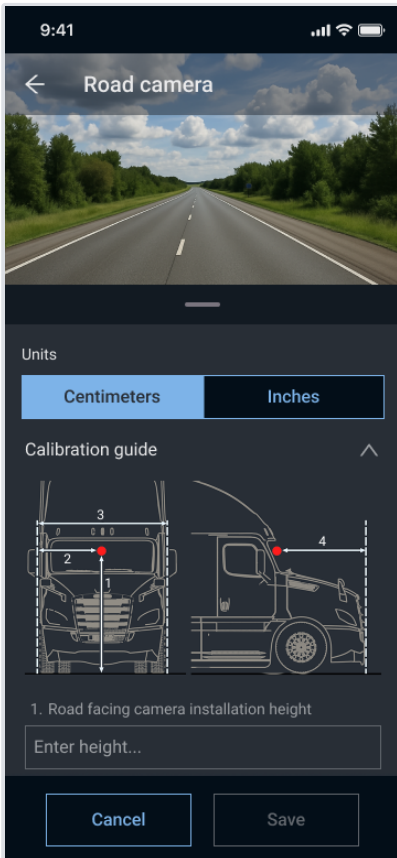


9. Go through each camera to configure. (For Dual Drive, Channel 4 will have 2 Fatigue cameras to configure.)

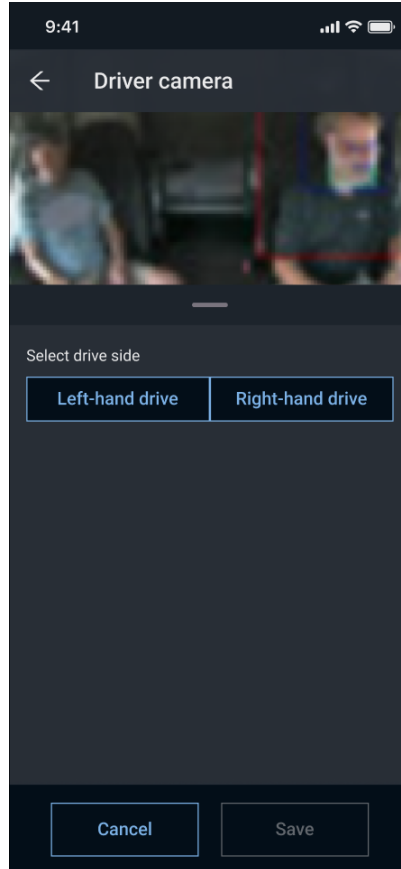
Channel 4 must ALWAYS be the Fatigue camera, if installed.



Fatigue camera serial#.

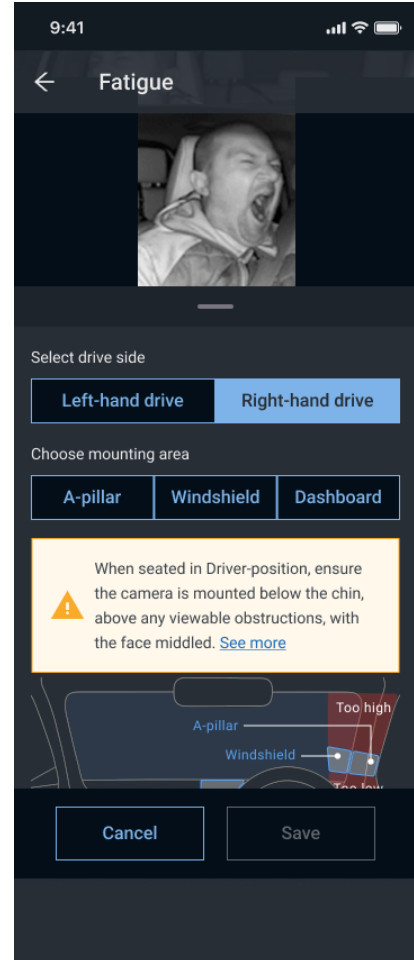


10. Road cam config. Measurements must be within 2 cm precision to mitigate false lane departure alerts. Camera view must be level with the horizon.

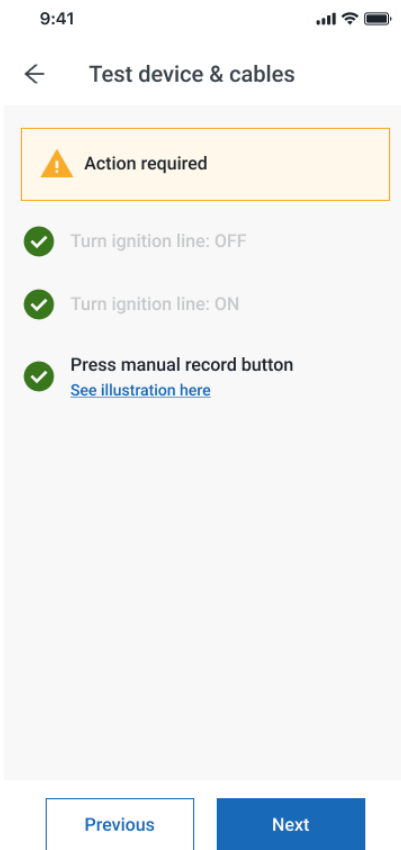


11. Driver cam config (Single drive only). This sets US/ ANZ driving sides. (Dual Drive installs will skip this screen.)

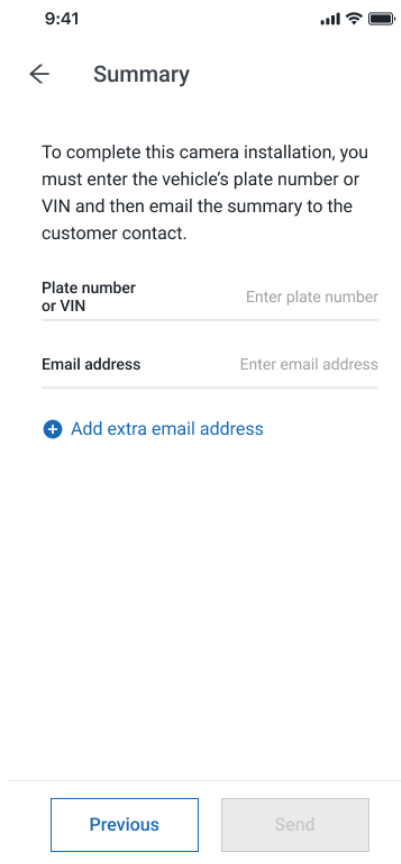
You may need to adjust the tilt of the Clarity Edge to see the driver-position properly.



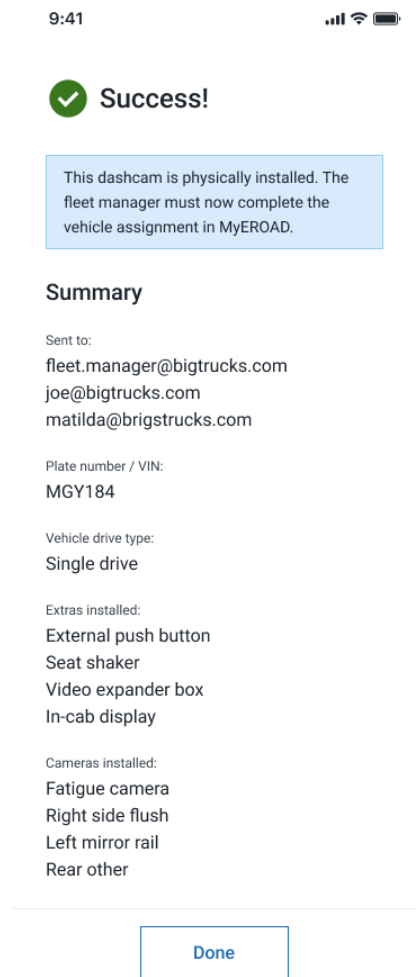
12. Fatigue cam config (Single drive selected). If installing Dual fatigue, this screen will have a second positioning option and a mirrored positioning diagram. 'See more...' provides a side-on diagram and detailed descriptions to position the Fatigue camera.



13. Testing. The app will lead you through a multi-staged connectivity test, with recommendations if a test fails.



14. Enter the vehicle's VIN and customer email.



15. Success summary. Done.



## Indemnity

### 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 and 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.

Avoid working under suspended loads – held aloft with slings, hoists, or jacks – but if necessary, secondary controls should be in place.

When working at heights, ensure relevant equipment is secured to prevent collapse or falls. A ladder should be used when working at heights up to 2 m (7 ft). For heights above this, such as reaching the top of a freight trailer, the use of a scissor-lift, forklift basket, or similar stable, load-bearing platform is recommended.

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 disclaimer

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