

Clarity Edge install guide







CONTENTS

- Contents
- · Workflow overview
- Parts
- · Pre-install instructions
 - Mounting Clarity Edge
- · Vehicle power (standard) install
 - Clarity Edge mounting measurements
- Mounting the optional Fatigue Camera
- · Installing the EROAD Seat Shaker
 - Parts
- · Full process diagram
- Setup & Calibration: Clarity Edge Installer app
 - Setup
- Fatigue camera calibration
- · Windshield Installation
 - Aligning the Fatigue camera
- Remote record button install (Kit HR003107A) Optional
- Troubleshooting
 - LED indicators
 - Hardware faults
 - Camera cards
- Technical info
 - Standard power connection
 - · Standard power cable pinouts
- Specifications



WORKFLOW OVERVIEW

To work correctly, **EROAD Clarity Edge** ("the unit") must be mounted and calibrated, but mounting the unit and its optional accessories can affect the calibration. To combat this potential 'chicken and egg' scenario, EROAD mandates this general workflow:

- 1. If applicable, load approved miniSD card(s) and SIM cards and remove the protective lens films.
- 2. Mount the unit in the position indicated by the following instructions.
- 3. Roughly position optional accessories into their likely positions, and connect them together.
- 4. Connect the system to power, and calibrate the system's components with the Clarity Edge Installer app. The app generates video feedback to see camera views, so you may firm up the position of optional cameras.
- 5. Troubleshoot where necessary.
- 6. Tidy cables and cab; photo-document the install.



PARTS



- 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

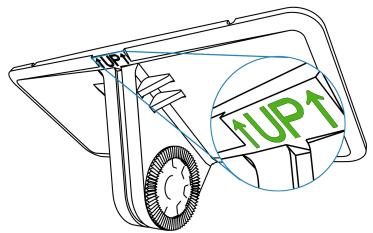
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Deviations from these instructions may result in a re-installation callout at the Installer's expense.

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

Mounting Clarity Edge

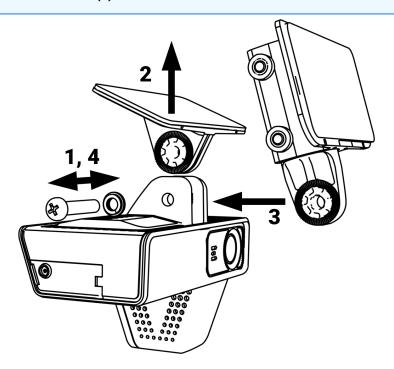
The Clarity Edge unit comes with the Standard mount bracket. This bracket allows for up to 80° of tilt in common raked windshields.



Also available is a Swivel mount bracket. This bracket allows for up to 15° of twist in split-angled windshields to aim the road-facing camera directly forward.



To change out the brackets, remove the pivot bolt and washer (1), swap the brackets out (2-3) and replace the washer-bolt (4).



The mount sticks to:

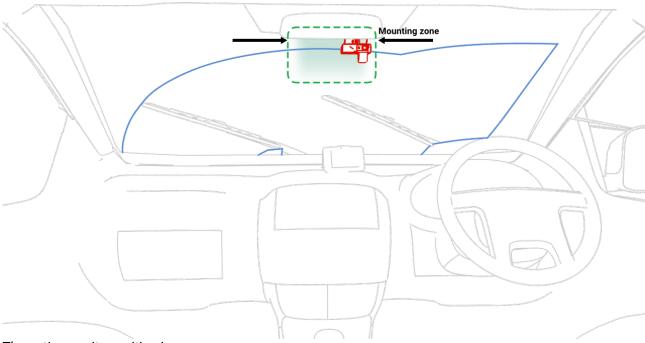
· the middle of the front windshield



- · 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.
- 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

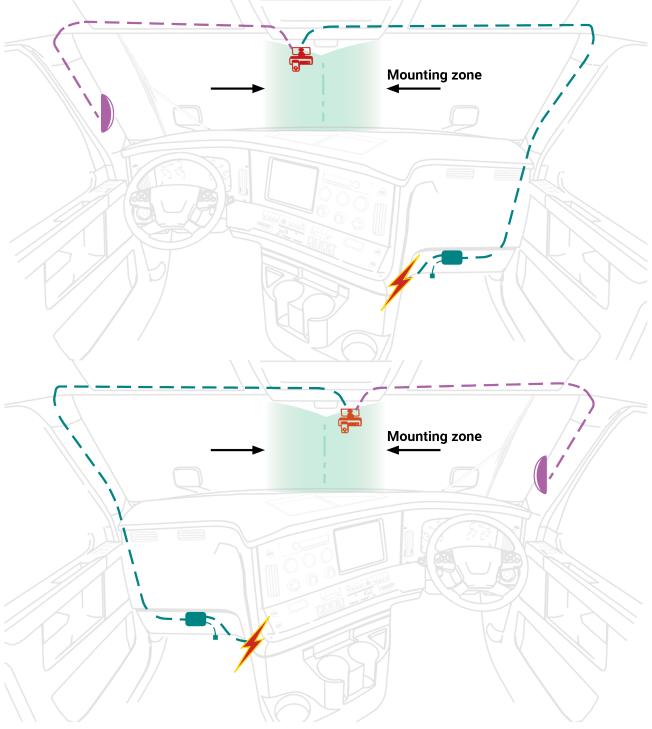
EROAD recommends following standard OEM cable routing practices. Cable tie the unit's cable at regular intervals.

- 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.



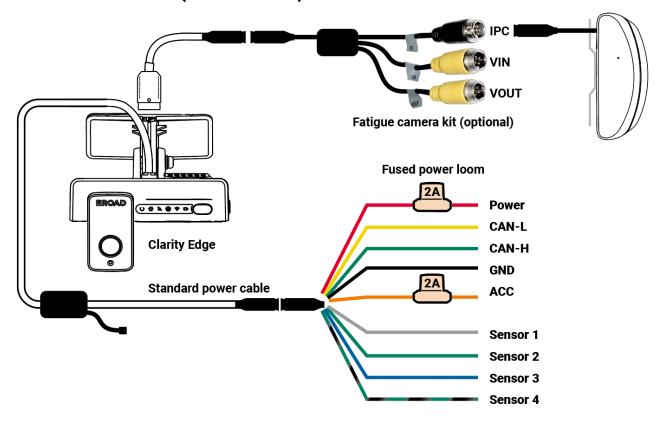
- In future installs, cable routing for the fatigue camera will likely run down inside the A-pillar trim to under the dash.
- In some vehicles (eg. late model Scanias) there is a cable-tidy shroud for use within the passenger-side A-Pillar.

The basic route of the unit's loom runs 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.



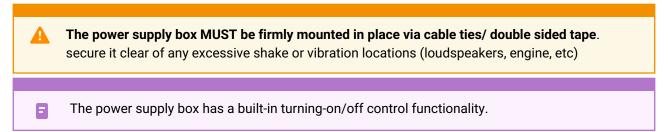


VEHICLE POWER (STANDARD) INSTALL



Standard cable run with optional Fatigue camera

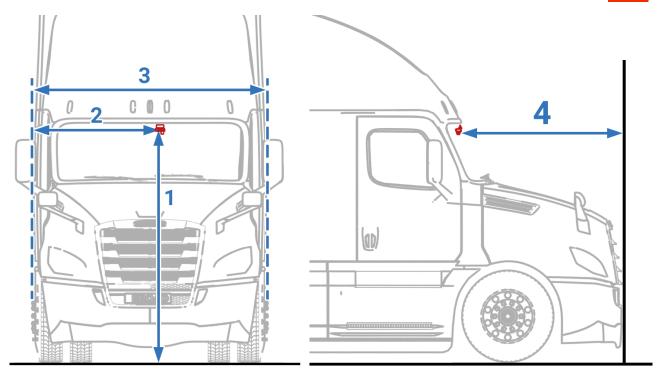
- 1. Connect the unit to the standard power supply cable.
- 2. Run the cable as illustrated behind the dash. Avoid loops and pinches in the cable.
- 3. Connect the fused power loom to the standard cable.
- 4. Connect **Power** (fused), **ACC** (Ignition, fused) and **GND** to the corresponding correct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



Clarity Edge mounting measurements

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





- 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.
 - 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 frontmost point of the vehicle.



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.

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



Video

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

Each Fatigue camera will come with the ordered mounting option: 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.

Check the vehicle for side-curtain airbags. If present, the Fatigue camera MUST NOT be fitted to the A-Pillar frame or trim.

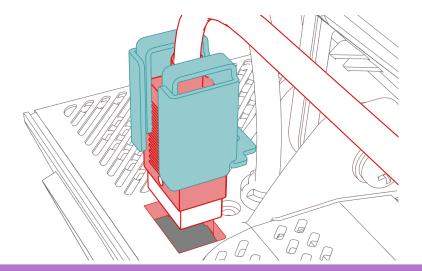




Fatigue camera

- 1. The previous video link showed how to install, including drilling 2 holes for the mount:
 - a. The Fatigue camera should align long-side vertically, curved side facing the cab's windshield, flat-face directly towards the driver.
 - b. Ideally, the Fatigue camera is mounted chin-height to a driver's face, but clear of the steering wheel.
 - c. The distance between the Fatigue camera's flat face and the driver's face should be 50–100 cm (20–40 in)
- 2. Connect the Fatigue camera cable to the IPC connection of the 3-way extension cable.
- 3. Assuming A-Pillar installation is OK, you should be able to tuck the cable under the A-Pillar trim, with no need for an additional drill hole. Run the cable behind the A-Pillar, along the cab roof trim, to the Clarity Edge.
- Thread the Fatigue camera cable through the Fatigue camera cable clamp, such that the white dot faces through the gap, and near the eye end.
- 5. Using the screw near the Clarity Edge's main cable exit, screw in the Fatigue camera cable clamp.





You can rough-adjust the camera to face the driver's head restraint (headrest). The Clarity Installer app will provide more accurate alignment.



INSTALLING THE EROAD SEAT SHAKER

Pre-installation notes

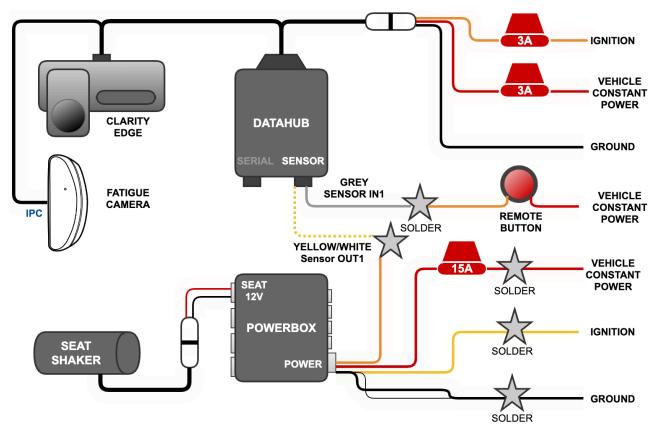
- 1. The EROAD Seat Shaker requires the EROAD Fatigue Camera for operation.
- 2. When installing the Seat Shaker as an independent job item after a Clarity Edge install, Installers are still required to run the Clarity Edge Installer app to ensure connectivity and registration issues are tested and documented.

Parts





FULL PROCESS DIAGRAM



- 1. Using the supplied hose clip, fit the seat shaker securely to the bottom-rear steel frame of the driver's seat. The unit should not touch the driver's seat fabric.
- 2. Connect the Seat Shaker cable and run it under the floor covering to the dash, avoiding chafing or damage.
- 3. Secure the PowerBox and Datahub units under the dash, close to the power source.
- 4. Insert and secure the Seat Shaker power cable to PowerMax input 'SEAT/12V'.
- 5. Solder then heat-shrink/tape the following connections (wires are in the format COLOR / 'LABEL'):
 - a. PowerMax loom ORANGE / 'SEAT CNTL' to Datahub loom YELLOW-WHITE / 'SENSOR OUT 1'
 - b. PowerMax loom RED FUSED / 'DC IN+' to vehicle CONSTANT POWER
 - c. PowerMax loom YELLOW / 'ACC' to vehicle CONSTANT POWER
 - d. PowerMax loom BLACK / 'DC IN-' to vehicle GND
 - e. PowerMax loom BLACK / 'GND' to vehicle GND
 - f. Datahub loom RED / 'VIN' to vehicle CONSTANT POWER
 - a. Datahub loom ORANGE / 'IGN' to vehicle POWER
 - h. Datahub loom BLACK / 'GND' to vehicle GND
 - Remote button (optional): Button ORANGE wire to Datahub loom GREY / 'SENSOR IN1'; Button RED to Vehicle CONSTANT POWER
- 6. Plug looms and cables into their appropriate sockets.
- 7. Wrap and tidy unused wires and excess cabling.







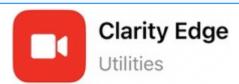


SETUP & CALIBRATION: CLARITY EDGE INSTALLER APP

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

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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.



■ EROAD ■ Utilities

- · 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.

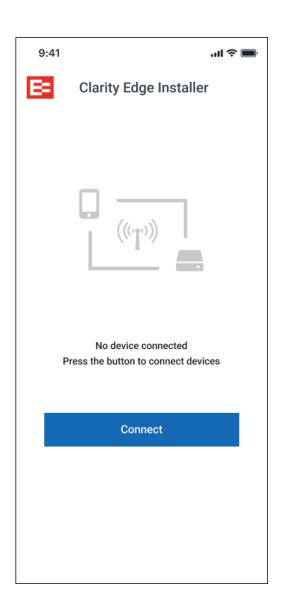


- There are minor variations between the iOS and Android versions of Clarity Edge Installer, but they do not affect the process.
- The setup/calibration process is very linear. If you encounter any problems, notifications and alerts will outline what's needed to get to the next step.

Setup

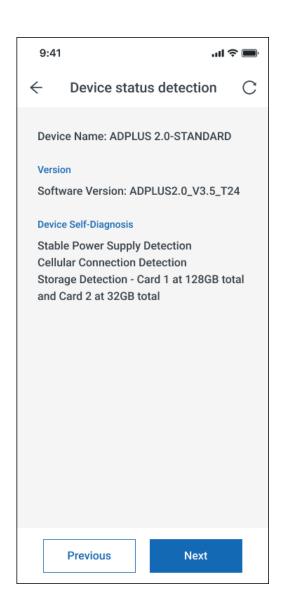
- 1. Run the app. The red launch screen appears. Seconds later...
- 2. Connect. You'll be taken to your device's WiFi preferences.





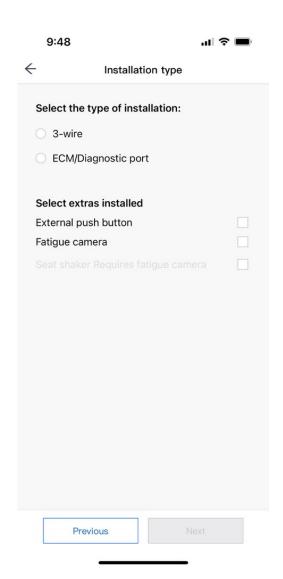
- 3. **Select the unit's WiFi address**. The mobile device will connect to the unit's network. Navigate back to Clarity Edge Installer app.
- 4. Enter credentials. Login: admin Password: admin
- 5. **Log in**. The Device status detection screen appears, listing critical data.





6. Select your installation type, and any accessories. (Selecting an option may trigger additional options or helptext to assist before confirming your choices.) **Next** to continue.





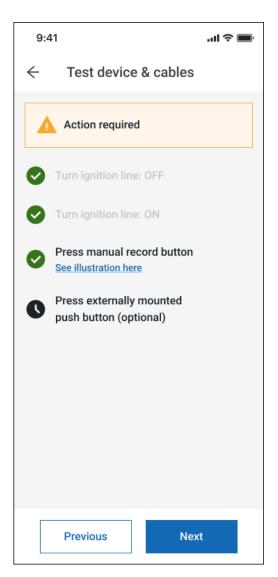
- 7. Calibration. Operating cameras will generate a thumbnail feed to the mobile device.
 - a. Road-facing camera: Tap :cog_settings: for settings.
 - i. Use the live view for positioning checks.
 - ii. Tap :page: to see an explanation of the camera positional dimensions needed for entry.
 - iii. Tap:cog_settings: to enter the dimensions for the camera's position.





- b. **Driver-facing camera**. Tap :cog_settings: for settings.
 - i. Use the live view for positioning checks.
- c. Fatigue camera (if installed):
 - i. ONLY install the Fatigue camera on CHANNEL 4 (CH4, DMS). The Fatigue camera will not work on any other channel.
 - ii. Use the live view for positioning checks.
 - iii. Tap :page: for a guide on where/ how the fatigue view should be situated.
 - iv. Tap:cog_settings: to enter the camera's position.
- 8. **Testing**. Depending on the options for this installation, a number of connectivity checks will be prompted, tested and evaluated. The app will suggest remedial actions where possible. Tap **Next** where appropriate.





- 9. **Summary**. Once the checks are done, the Summary screen can be emailed to the customer so they can finish provisioning the unit.
 - a. Check any relevant optional acessories
 - b. Enter relevant serial numbers (tap :scan: to scan S/Ns into the entry field) and registration plate/ VIN number.
 - c. Enter the customer email address. Tap :plus_blue: to add more email address as required.
 - d. **Send**. Normally you'll get a Success screen, tap **Done**, and roll into the **Connect** screen for the next install. If any errors arise, you'll be prompted to correct them before continuing.



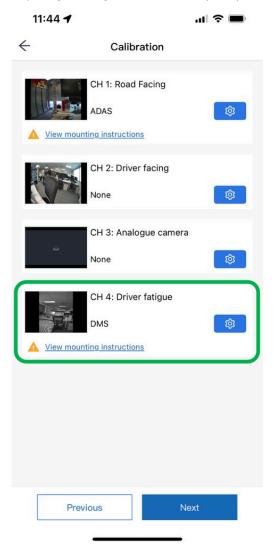
FATIGUE CAMERA CALIBRATION



IMPORTANT

Because the Clarity Edge Installer 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.

1. Tap :cog_settings: on Channel 4 (CH 4). The Live view appears.



- 2. Adjust the angle (up, down, left, and right) of the Fatigue camera such that the driver head restraint (headrest) falls within the alignment lines. If you require more info, tap :page:.
- 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 seat belt features.
- 4. Lock the final position of the camera with the supplied Allen key.





- 5. Secure the mount location. **Save**.
- 6. Completed / Done.



WINDSHIELD INSTALLATION

1. Ensure you have used the Clarity Edge Installer to determine the best position, and use a black marker to mark that location. That location must allow 100% adhesion of the double sided tape on the base.



- 2. Ensure two grub screws are tightened fully, one as pictured above and one on the rear of the mount.
- 3. Connect the Fatigue camera cable to the IPC connection of the 3-way extension cable.
- 4. You should be able to tuck the cable under the A-Pillar trim without having to drill an extra hole.
- 5. Tuck and fit the cable behind the A-Pillar, run it up and along the cab roof trim, to the Clarity Edge unit.

Aligning the Fatigue camera

After the device is powered on, perform the adjustment with the assistance of Clarity Edge Installer's real-time preview screen.

- 1. Adjust the angle (up, down, left, and right) of the Fatigue camera so 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. in the FATIGUE video feed, no object (for example, the steering wheel) should obstruct the driver's face or seat belt features.
- 3. Lock the final position of the camera with the supplied Allen key.



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

LED indicators

During normal operation all the unit's status lights are off, except the Power icon (Green).

Power	Off: The unit is not powered on
(h)	Green: The unit is powered normally
Alarm	Off: The unit is operating properly
\ <u>'</u>	Red flashes x3: The unit generates an alarm
	The fault indicator of the OBD port blinks twice every second until the fault is removed
GPS	Off: GPS is operating properly
	Red: The unit is out of coverage; module fault
**	Red, flashing: The unit has poor coverage
Network	Off: The unit is connected to the server properly
ADA.	Red : The unit is connecting intermittently, or through unverified hotspots
	Red, flashing: The unit is in Flight mode (operating properly, but offline)
WiFi	Off: No WiFi connection.
	Green: Ready for WiFi connection.
•	WiFi connection is only used for unit configuration.
Record	Off: No triggered recording in operation.
	Red: Recording/ SD Card error: unable to read/write.

Hardware faults

Device startup failure

• Check that the power cable is well connected, the fuse intact and is 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 condition of the SIM card.

Device Recording Failure after Startup

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

Camera cards



Cards can be inserted incorrectly, yet feel correct.

The trimmed corner edge always goes in first, but:

- · Topmost MiniSD card: gold contacts face DOWN
- Bottommost MiniSD card and SIM card: Gold contacts face UP



MiniSD cards



Clarity Edge units are shipped with MiniSD 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.

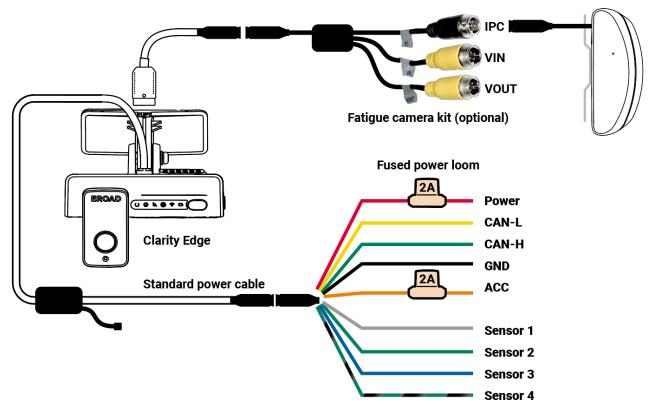
If EROAD-approved cards are not present, cards must be:

- 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.



TECHNICAL INFO

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)



Signal	Color	10-pin DIN male
GND	Black	10



SPECIFICATIONS

Clarity Edge

Input voltage	12 / 24V
Power consumption	Standby: 13.5 V @ 5.67 mA, 27 V @ 3.39 mA
	• Sleep: 13.5 V @ 62~124 mA, 27 V @ 32~61 mA
	Between 7-12 W, depending on Camera/SD/SIM/sensor load.
Camera resolution	Front-facing: 1080p@25fps; Driver-facing: 720p@20fps
Field of view	Front horizontal: 123°
	Front vertical: 65°
	• Driver: 140°
Audio	Built-in mic (default OFF)
	Speaker power: 3W, with adjustable volume
Status lights	Power: Green On/ Off
	Alarm: Triple-Flash Red (Alarm)/ Off
	GPS: Red (Abnormal)/ Red flash (Poor positioning)/Off (normal)
	Network: Red (Abnormal/ Off (Normal)
	Wi-Fi: Green (AP mode)/ Red (Abnormal)/ Off (Normal)
	Camera: Red (Fault, Privacy mode fail)/ Off (Normal)
Storage	MicroSD card×2 (SDXC 256GB), Class 10 or above
Recording time	Dependent on MicroSD card size and additional cameras (eg. Fatigue camera)
Sensors	6-axis IMU for acceleration/rotation
	ambient light for day/night switching
Ports	USB Mini, MP2 SIM Card x2, RS232, I/O, CAN
GPS	GPS L1, GALILEO, GLONASS, SBAS: WAAS, EGNOS, MSAS, GAGAN



Cellular networks	 USA: AT&T, T-Mobile, Cincinnati Bell, Immix, CommNet Wireless CAN: Bell Mobility, Telus, Videotron, SaskTel MEX: Telcel, IUSACell AUS: Telstra NZL: Vodafone GDSP
Dimensions	113.0 × 67.8 × 88.2 mm (4.5 x 2.7 x 3.5 in), excluding bracket
Weight	300 g (10.5 oz)
Ingress Protection	IP30 (Not waterproof)
Operating temp.	-40°C ~ +70°C (-40°F ~ +158°F)

Powerbox

Power Input	9-36 V
12V Power Out *3	12 V @1 A
12V Power Out *2	12 V @1.5 A
'SEAT' port	12 V @3 A (Only seat vibrator. It can control the switch through the control line)
24 V Power Out*2	24 V @1.25 A
IN	PIN9-M16
OUT	PIN4-M12, PIN6-M12
Dimension	149 x 99 x 43.3 mm
Operating Temperature	-30°C − +70°C

Datahub

Input voltage	9-36 V
Standby current	2 mA



Power output	5 V @500 mA, 12 V @ 500 mA
RS232	2 channels
RS485	2 channels
Alarm input	8 channels
Alarm output	2 channels
CAN	1 channel
Operating temp.	-20 ~ +70°C

EROAD Fatigue camera

Input voltage	PON (DC9-16V)
Consumption	~ < 2.4 W
Dimensions	98H x 30W x 43D mm (excluding mounting options)
Weight	230 g
Resolution	800 x 1280 px @20 fps
Network port	10M/100M Adaptive Ethernet Port (Six core aviation head and car connector head optionally)
Infrared lighting	940 nm
Ingress Protection	IP53
Operating temp	-40°C - +70°C

EROAD Seat shaker

Input voltage	12 V
Dimensions	132 x 60 x 78 mm (inc. molded mounting plate)



Resolution	600x800 px @20fps
Weight	580 g
Ingress Protection	IP54



RESPONSIBILITIES

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.