

VisionAI Hub Installation Guide

Dual and single-facing cameras

Dashcam reference: VT-230 & VT-130

Learn how to install VisionAI Hub dash cams in your fleet vehicles with the Unity Install app, a user-friendly tool for device activation. Follow this guide to know more about the device specifications, detailed installation instructions, and camera alignment to ensure smooth setup and optimal camera functionality.

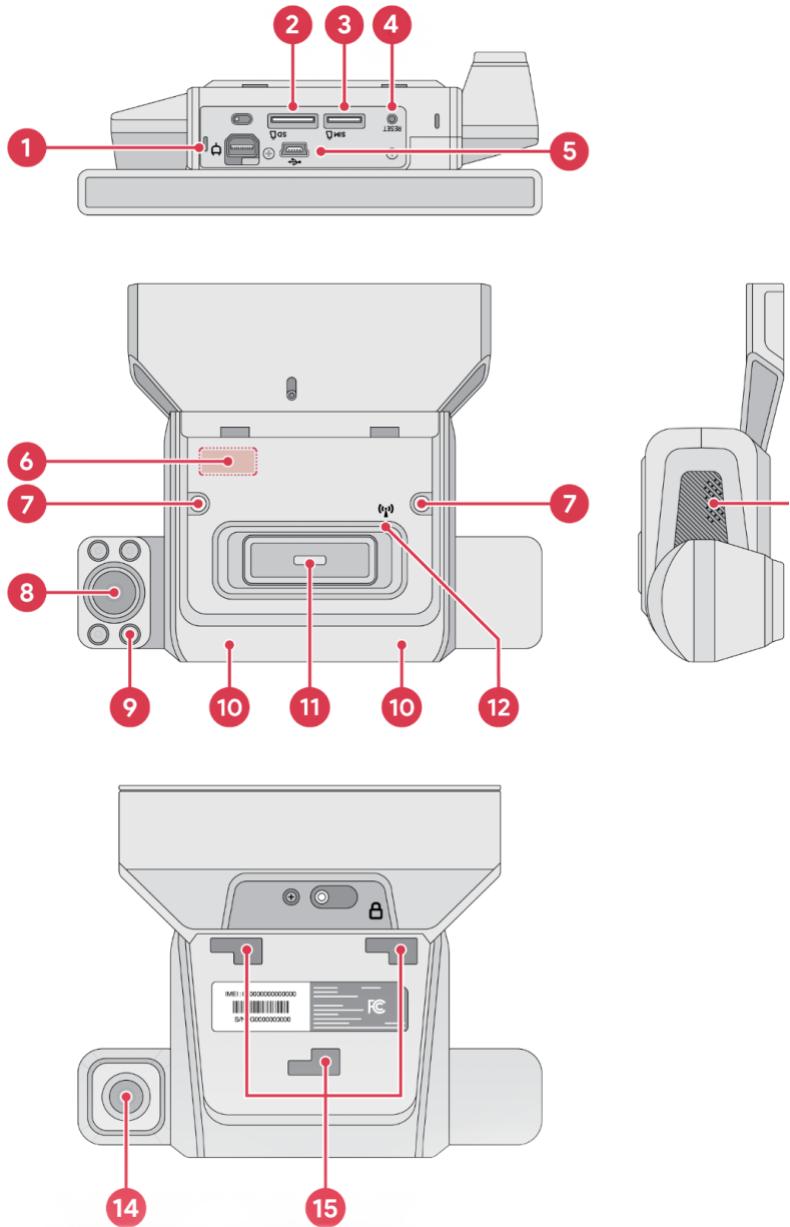
Table of Contents

Table of Contents.....	2
Learn about your new VisionAI Hub camera.....	3
Dashcam Specifications	3
What's inside the Box?	4
Installing VisionAI Hub dash camera with	
Install mobile app.....	5
1. Download the Unity Install App.....	5
2. Login	5
3. Important Install tabs	6
4. Tasks module: My Tasks	6
5. New Task: Get Started	6
6. Type or scan the IMEI of the device	7
7. Verify asset details.....	8
8. Camera mounting and adjusting your camera lens	8
9. VT-230 & VT-130 Cables Guide - Sold Separately.....	15
10. Health Check	16
11. Camera Preview and Alignment.....	16
12. LED Indicators	17
13. Complete the Task and Submit	18

Learn about your new VisionAI Hub camera

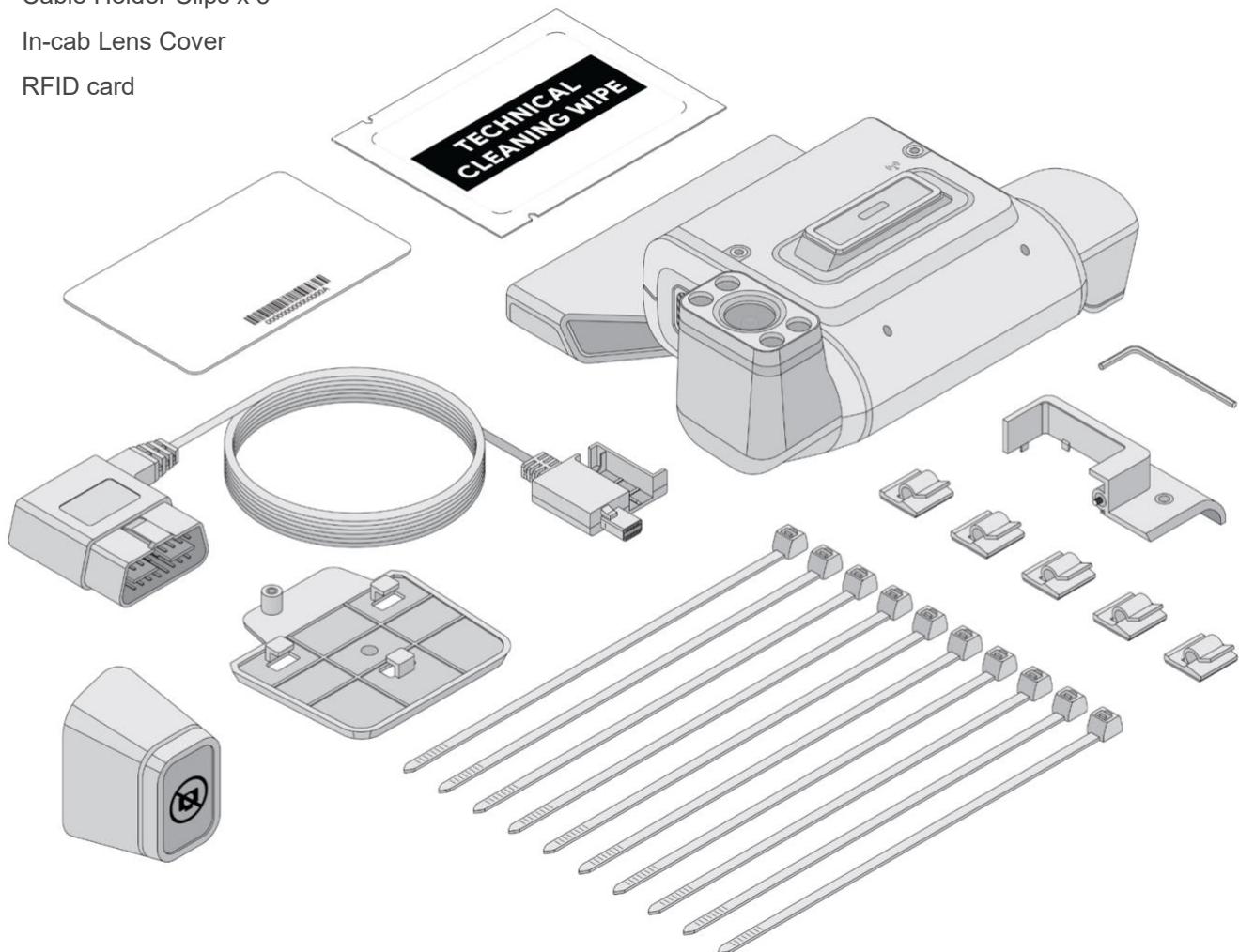
Dashcam Specifications

1. Charging/Data port
2. MicroSD slot
3. SIM card slot
4. Reset button
5. Rear camera connector
6. NFC sensor
7. Camera locking screw
8. Driver facing camera
9. Infrared illuminator
10. Microphone
11. Emergency recording indicator/button
12. Wi-Fi/mobile broadband indicator
13. Speaker
14. Road facing camera
15. Mounting slot (x3)



What's inside the Box?

- VT-230 (dual) or VT-130 (single) Camera
- VisionAI Hub Dash Cam Standard Cable
- Allen Key
- Mounting Plate
- Protective Peripheral Cover
- NFC Key Card
- Technical Wipe
- Technical Cleaning Wipe
- Cable Ties (Zip Ties) x 10
- Cable Holder Clips x 5
- In-cab Lens Cover
- RFID card



Installing VisionAI Hub dash camera with Unity Install mobile app

1. Download the Unity Install App

Download the free Unity Install mobile app from your mobile device's Android or iOS app store.

Download Links:

[Google Play Store](#)

[Apple App Store](#)



2. Login

If you have an account in Unity and have created a password using the invitation email, please sign into Install using your Unity credentials.

- From the device's home screen, select the Unity Install App icon.
- Select the "Sign in" button.
- Sign in using the same credentials as Unity.



3. Important Unity Install tabs

 Tasks	My Tasks: Provides a list of to-do Installs and Device Swaps assigned by an Administrator from the Unity web application. Completed tasks can be viewed in the History tab.
 New Tasks	New Task: Allows for New Device Installs and Device Swaps. The in-app Health Check process identifies if the device has been connected successfully.
 Profile	Profile Module: Provides access to Troubleshooting documents, and allows password changes and logging out of the app.

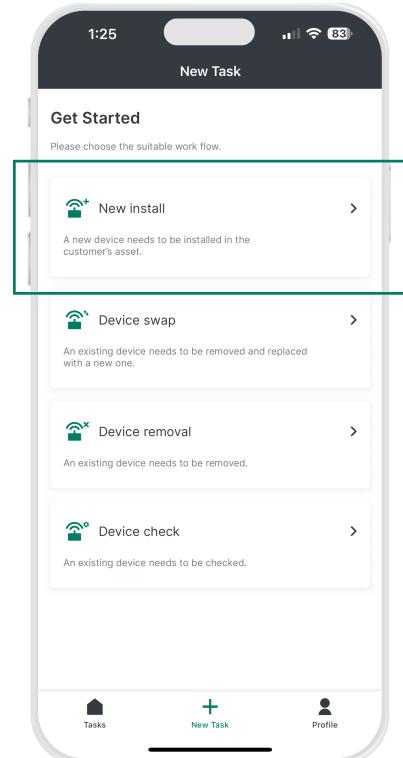
4. Tasks module: My Tasks

The “My Tasks” tab may contain a list of Tasks that have been assigned to you by the administrator from the Unity Web application. Tasks are sorted by date in ascending order.

If you don't have any assigned tasks yet, you can move to the next step [New Task: Get Started](#)

If you have assigned tasks, please follow the next steps:

1. Log in to the Unity Install app.
2. Tap the **Tasks** module.
3. Tap the **My Tasks** tab.
4. From the list of assigned tasks, tap the desired Task.
5. View the **Task Details** which include task name, due date/time, status, description, and location.



5. New Task: Get Started

The New Task button contains multiple workflows that users can choose from.

- **New Install** — a new device needs to be installed in a vehicle.
- **Device swap** — allows you to replace an existing device with a new one and keep the existing device to vehicle association.
- **Device removal** — an existing device needs to be removed without a replacement.
- **Device (health) check** — allows you to perform a device health check without changing the device to vehicle association. Can transition into a device swap if required.

After selecting the appropriate workflow, the step-by-step process is similar for all workflows.

To install a *brand-new device*, please select the first option, **New Install**.

For more details on the other available tasks, please refer to the [Unity Install Mobile support page](#).

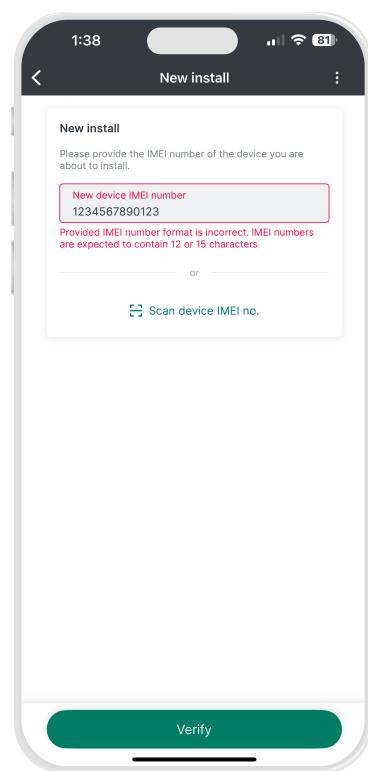
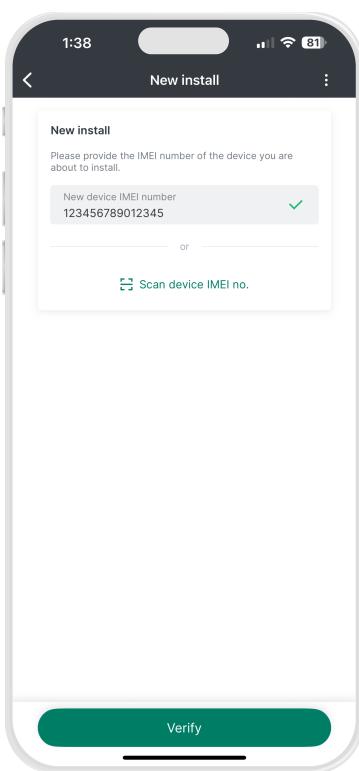
6. Type or scan the IMEI of the device



IMEI: 123456789012345



The IMEI is a 15-digit number located on the back of the camera.



Option 1:

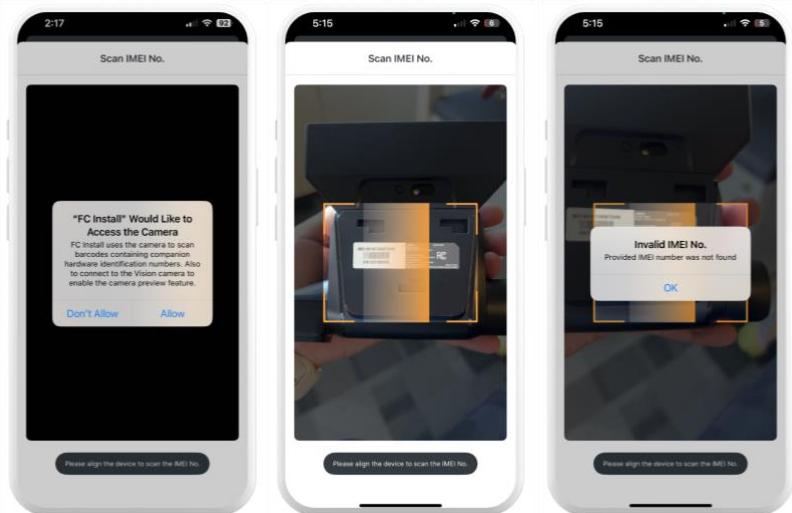
1. Type in the **IMEI number**.
2. Tap the **Verify** button.

Option 2:

Tap **Scan device IMEI no.** If the sticker does not scan, type in the number manually.

* Some iPhone models may not support the scanning feature.

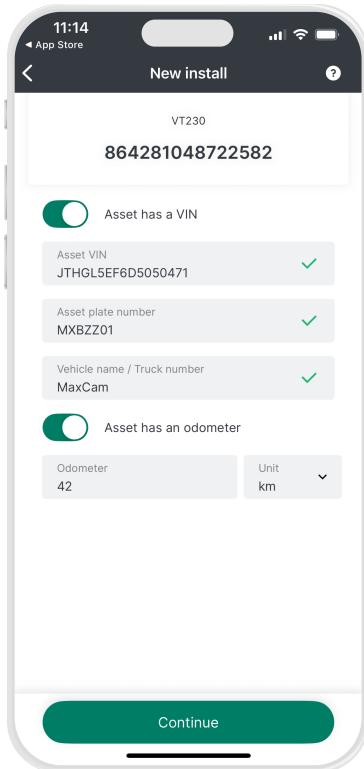
To allow Install to access the device's camera, tap **Allow**.



7. Verify asset details

- When a device is validated, the app will check if there is an asset associated with this device in the Unity web application. If an asset is found, details will be populated automatically.
- If there is no associated asset or some details are missing, the corresponding fields will be empty; please input the information manually.
- Enter the **Asset VIN** number using capital letters, as this field is case sensitive. VIN numbers in lowercase will not register successfully.
- All three fields are required to ensure the device is connected to the right vehicle.
- Click **Continue**.

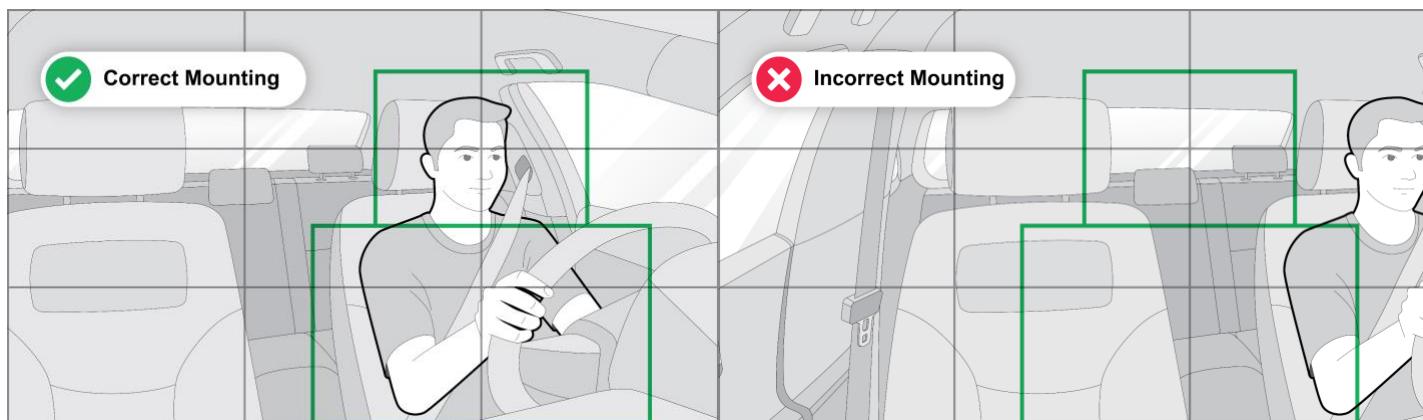
Before starting the Health Check, set your phone aside and mount the camera as detailed next in [Step 8. Camera Mounting and adjusting your camera lens](#).



8. Camera mounting and adjusting your camera lens

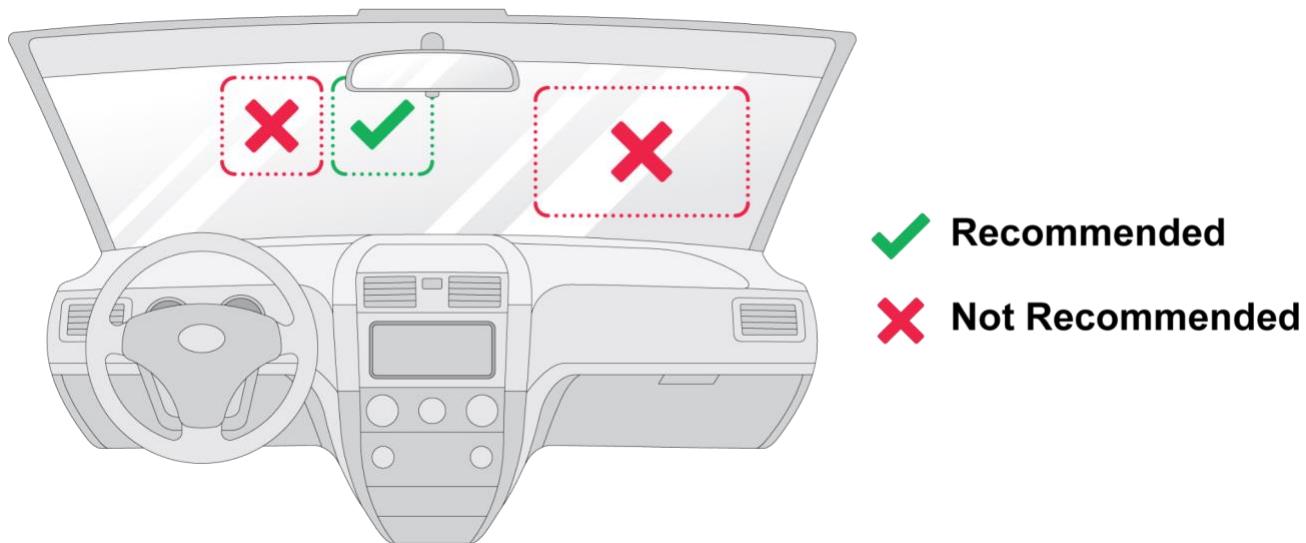
For optimal driver monitoring:

- Mount the camera on the driver's side. Positioning it closer to the passenger seat can compromise its in-cabin functionality.
- Ensure the driver-facing lens is positioned vertically for the best in cabin view. The vertical positioning depends on the vehicle's windshield angle.

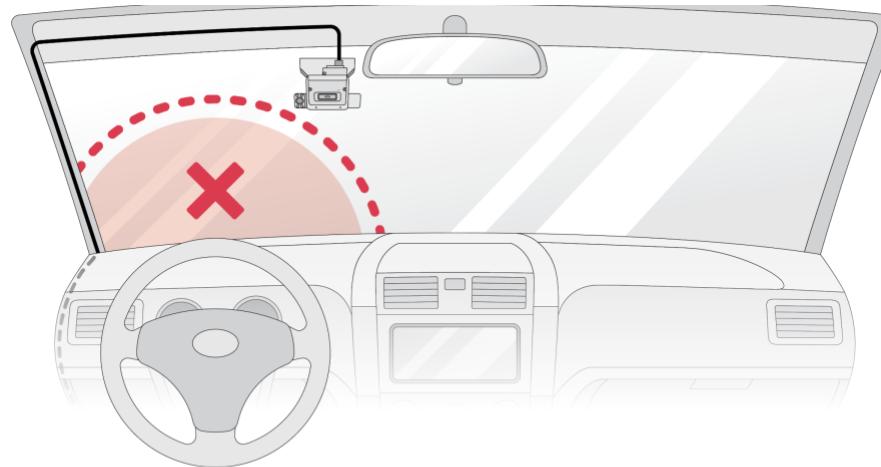


- Mounting the camera also depends on the windshield size. Camera should be mounted as high on the windscreen as possible
- Make sure the driver's side sun visor does not obstruct the driver-facing lens.
- Ensure the camera placement does not obstruct or reduce the driver's clear view through the windshield.

Below is a diagram of recommended mounting points:



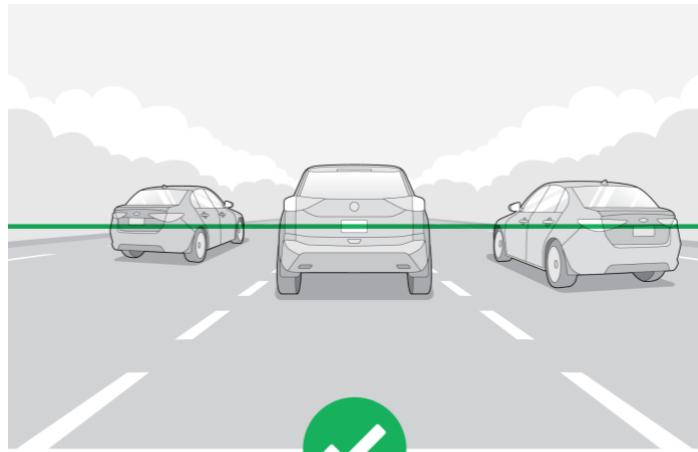
*Image is for reference only. Camera mounting location may vary by vehicle type and must adhere to local regulations.



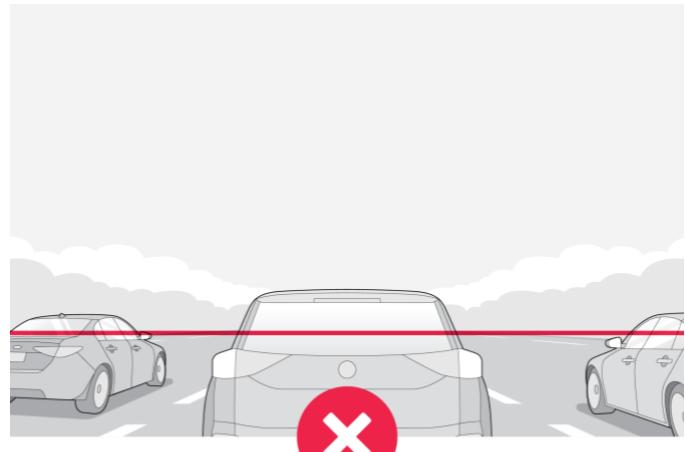
✗ Incorrect Mounting Location

Road View Horizon line Denotation:

Position the horizon line in the middle or upper half of the image to ensure the camera captures sufficient road visibility and minimizes the focus on the sky.



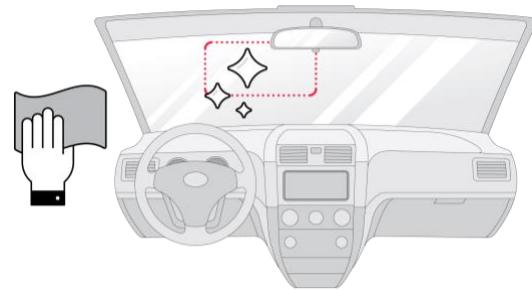
Recommended



Not Recommended (too much sky)

Step 1: Thoroughly cleanse the windshield area using a clean microfiber cloth along with a mixture of water and IPA (Isopropyl Alcohol) in a 30/70 ratio. Make certain that the surface is entirely dry and free of any residue before proceeding.

*For an effective adhesive bond, it is essential to maintain a minimum temperature of 10°C (50°F) for the vehicle's passenger compartment, windshield, and camera mount plate. However, for the best adhesion results, a temperature of 18°C (64°F) or above is recommended.



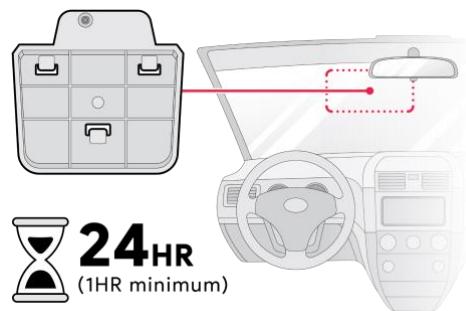
Step 2: To have a reference on the optimal position for your camera on the windshield, use the camera alignment feature in the Unity Install app. Ensure the camera is connected to the OBD port as described below in Step 9. Then, navigate to the [Camera Preview and Alignment section](#).

Note: The camera preview is optional and does not impact the device's main functionality. You can adjust the lens at a later time. When ready, peel the protective film from the back of the rear plate.

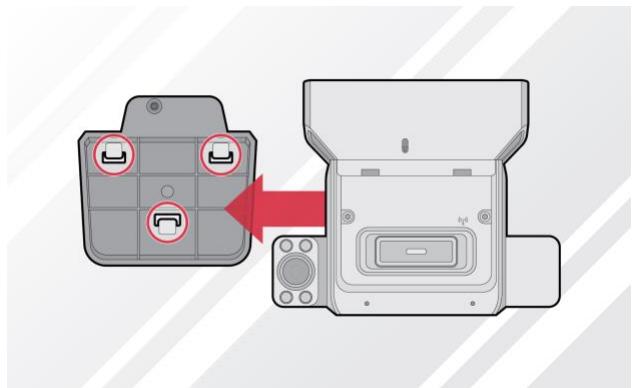


Step 3: Place the mounting plate onto the windshield.* Press on the plate for approximately 60 seconds applying firm and even pressure over the entire surface.

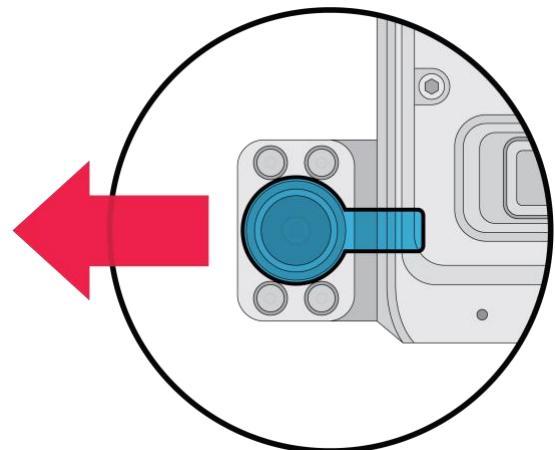
*It is highly advised to delay the attachment of the dashcam for at least 24 hours. Otherwise, a minimum of 1 hour is required. In conditions where the temperature is below 18°C (64°F), extending the wait time to 72 hours is advisable for achieving a strong adhesive bond.



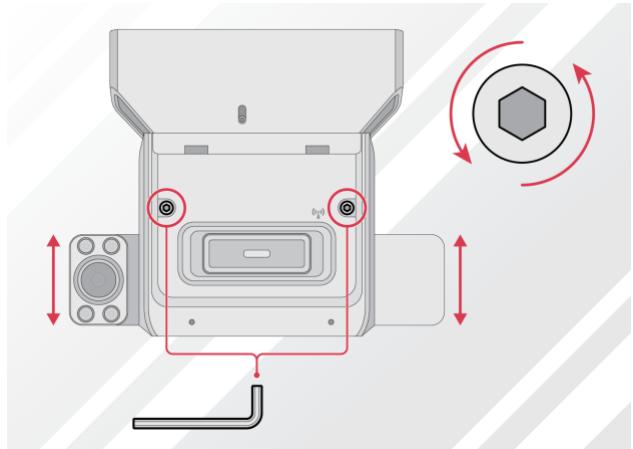
Step 4: Attach the camera to the rear plate by matching the positions of the three mounting holes on the back of the camera with the hooks on the rear plate. Slide the camera to the left to lock it in place.

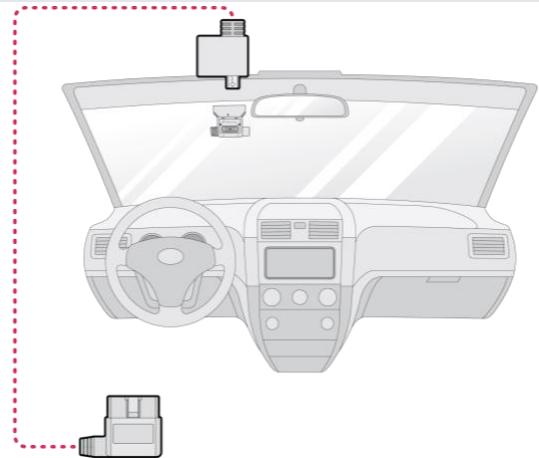


Step 5: Peel the blue film from the driver facing camera lens and road facing camera lens.



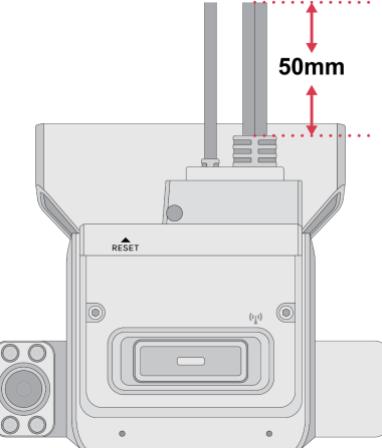
Step 6: Using the Allen key, loosen the camera lens screws so you can adjust your lens positioning. Fasten your screws once you have completed the Vision Camera Alignment (please refer to [Camera preview & alignment](#) section).



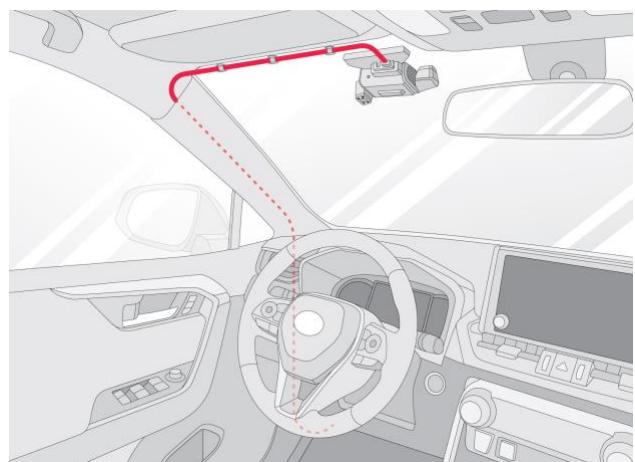


Step 7: Route the cable inside the vehicle, leaving the main connector exposed to where the VT-230 Camera is to be installed on the windscreens, and the other end going toward the vehicle's diagnostic/OBD port.

Ensure that the wire is at least straight (slack) for 50mm at the point of connection.



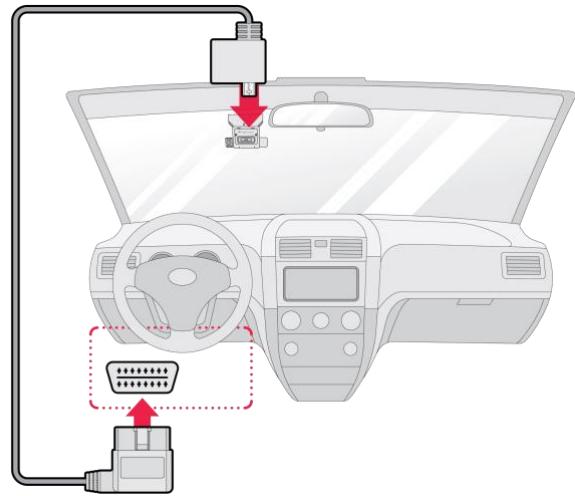
Step 8: Route the cable along your windshield frame, ensuring the cable is tucked alongside existing wires of the pillar and behind the pillar airbag.

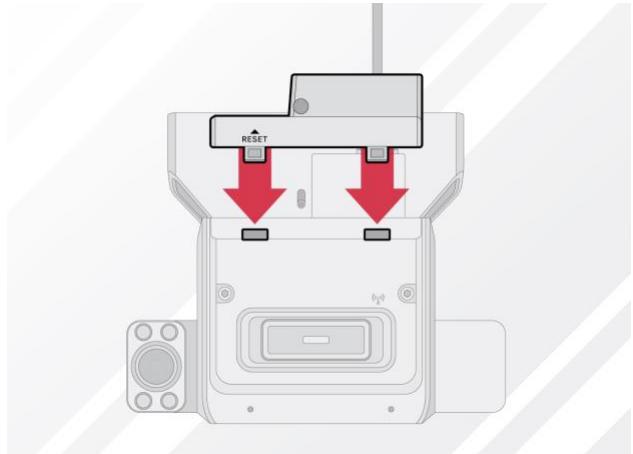


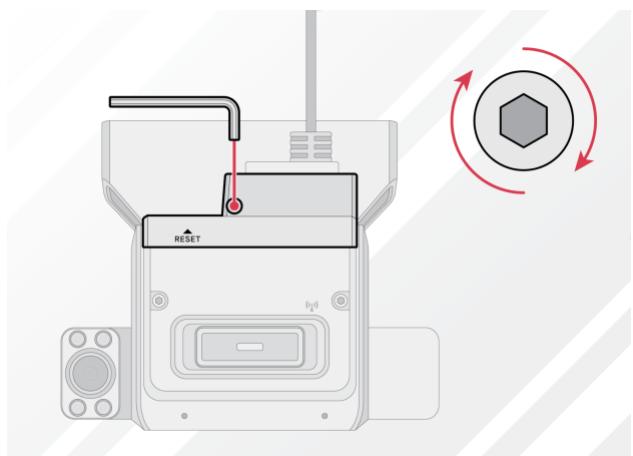
Step 9: Power up the camera

If you are connecting only the dashcam, please connect it to the OBD port and continue to [Camera Health Check](#).

If you are connecting a camera and a fleet tracker, please follow the [VT-230 & VT-130 Cables Guide](#) below.



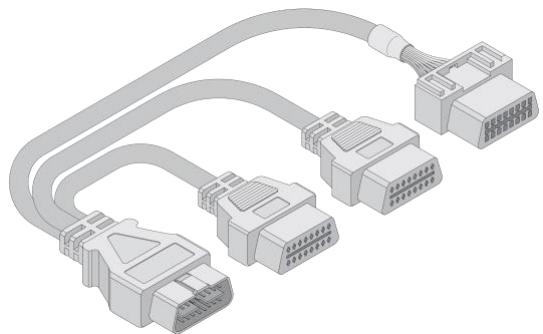
Step 10: Complete your installation by attaching the protective peripheral cover to the device.

Step 11: Screw in the peripheral cover with the Allen key provided to prevent damage.

9. VT-230 & VT-130 Cables Guide – Sold Separately

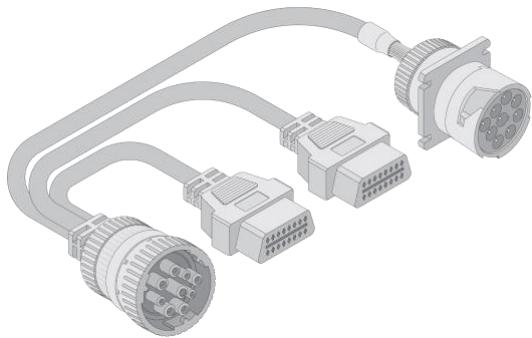
Connect Dash Cam with Fleet Tracker in Light Duty Vehicle

If you have another OBD accessory or you have a fleet tracker, you will need the Light-Duty Vehicle Extension Cable. Take the male end of the VisionAI Hub Dash Cam Standard Cable and insert into the OBD connector on your light-duty extension cable. Connect your fleet tracker to the “3rd female OBD end” leaving the other female OBD end available for other accessories. Please Note: Light-Duty Vehicle Extension Cable is sold separately. Please contact your sales representative to place an order.



Connect Dash Cam with Fleet Tracker in Heavy Duty Vehicle

Connect your fleet tracker to the OBD female end labeled Fleet Tracker if you have one. Since the M8 receptacle is connected (Step 1), and your OBD cable is connected to your VisionAI Hub Dash Cam Standard Cable, proceed and connect the VT-230 or VT-130 Advanced cable OBD male end to the OBD port of your vehicle. Please Note: Heavy-Duty Vehicle Extension Cable is sold separately. Please contact your sales representative to place an order.



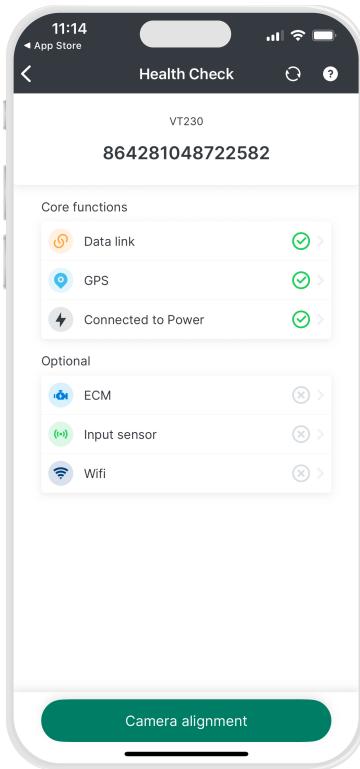
10. Health Check

Grab your phone and complete the health check in the Unity Install app to confirm that the new device is connected successfully.

Turn on the vehicle and tap each core function **one by one** to perform the health check:

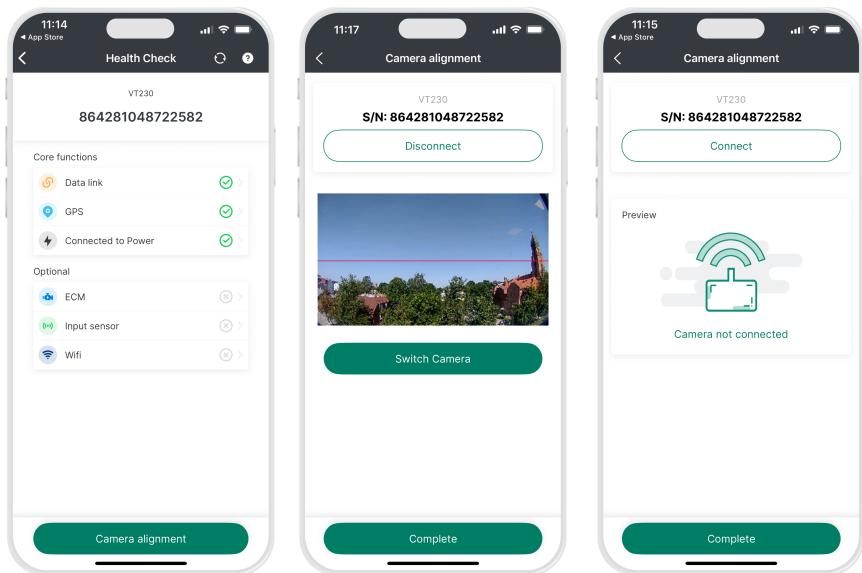
- Data link: displays the date and time stamp.
- GPS: displays the status of the GPS.
- Connected to Power: displays ignition status.

* ECM, Input Sensor and Wi-Fi are optional functions and are not supported by the dashcam.



11. Camera Preview and Alignment

1. Click on the **Camera Alignment** button.
2. Click **Connect**: the application will display a preview of the camera lens.
3. Adjust the lens with the Allen key if required (Step 6 - [Camera mounting](#) section)
4. Click on the **Camera Alignment** button.
5. Click **Connect**.
6. Follow the prompts on the screen to enable the required permissions in your phone.
7. Activate the camera by pressing the driver recording button located next to the driver recording lens. (Refer to point 11 in the [Dashcam specifications](#) section.)



- The application will display a preview of the camera's view.
8. If you are testing the camera position as outlined in the [Camera mounting section \(Step 2\)](#) click **Disconnect** and then return to the main Health Check screen.

Or

9. If you completed the Camera mounting and Health Check, adjust the lens with the Allen key if required (See step 6 – [Camera mounting section](#)).



Step 7 (above)

12. LED Indicators

Color	Frequency	Event
Green	Slow (once every 15 sec)	Ignition ON, device powered and connected to the internet. Trip has started.
Blue	Slow (once every 15 sec)	Ignition ON, device powered but not connected to the internet.
Blue	Fast (twice per second)	Not Provisioned and not connected to the internet. Please contact support to troubleshoot.
Red + Green	Fast (twice per second)	Ignition turned OFF.
Red	Fast (twice per second)	Device about to shutdown.
Light Blue	Slow (once every 15 sec)	Trip started automatically by camera.

Light Blue	Fast (twice per second)	Idle mode - not running a trip. Not provisioned or provisioning not downloaded in the past 10 days or device storage is full.
Light Blue	On system boot-up	Battery voltage is sufficient, and the camera is booting.

13. Complete the Task and Submit

- Select the **Complete** button.
- Optional: Leave notes and select **Submit**.
- The app will indicate that the Task was completed successfully.

When the New Device Install has been completed, the Administrator in the Unity web application will see a newly created asset with the device details information. The device and asset are connected to each other and are visible via: Settings > Assets and Settings > Devices > Device list sections of the Unity web application.