AI-14 dash cam installation guide

September 8, 2025

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SAFETY INSTRUCTIONS AND WARNINGS

WARNING

THE DEVICE SHOULD BE INSTALLED AND MAINTAINED BY QUALIFIED TECHNICIANS. Only a properly qualified technician should install and maintain the Surfsight powered by Lytx dash cam device(s). Any electrical work should be performed only by a suitably trained and qualified automotive technician with qualification applicable to your country/ region/ state; and with an expertise in installing and troubleshooting advanced onboard components, including multiplexed circuits. Lytx, Inc. disclaims all responsibility for any damages arising from improper installation and maintenance of the Surfsight device(s).This guide is protected as confidential and proprietary information of Lytx, Inc. Copying and use of this guide for any purpose other than installing Surfsight Device(s) in vehicles of Lytx, Inc.'s customers is expressly prohibited. Information contained in this guide was in effect as of the date set forth above and is subject to change without notice or liability. Lytx, Inc. reserves the right to revise the information presented or to discontinue the production of parts described at any time.

WARNING

Any electrical work should be performed only by a suitably trained and qualified automotive technician with qualification applicable to your country/ region/ state; and with an expertise in installing and troubleshooting advanced onboard components, including multiplexed circuits. Lytx, Inc. disclaims all responsibility for any damages arising from improper installation and maintenance of the device(s).

Read and follow the instructions and precautions in this guide and all documents referenced in this guide when installing the device(s). Always refer to the vehicle manufacturer's service manual for proper installation and wiring of any aftermarket devices, including the Lytx device. Failure to do so may result in property damage and/or personal injury.

WARNING

The device(s) interfaces with the vehicle's electrical systems. However, it should not interfere with any of the vehicle's electrical or operating systems. Lytx, Inc. disclaims all responsibility for any damages arising from improper installation and maintenance of the device(s).

WARNING

Park the vehicle on a level surface before beginning any maintenance or installation. Block the wheels to prevent the vehicle from moving. Never work under a vehicle supported only by jacks as jacks can slip and fall over.

WARNING

All wires that carry electrical current to the Lytx device(s) must be fused. Failure to fuse the constant power & Ignition wire can lead to serious personal injury and/or property damage. If any wire or cables containing fuse/fuse box need to be cut or otherwise shortened or extended, always be certain to replace such fuses/fuse box or install new ones. Failure to fuse the constant and Ignition wire can lead to serious personal injury and /or property damage

WARNING

Only approved wire connection methods are recommended. Refer to the vehicle manufacturer's service manual to determine if sealing crimp connections, Add-A-Circuit, sealing butt connections, or OEM connections to open connection ports are approved. Never use plier tap products such as insulation displacement connectors (i.e., Scotchloc connectors) when installing the Surfsight device(s) (unless mandated by the vehicle manufacture i.e., **BMW).**

WARNING

Wire Protection: Take all necessary measures to protect all wire runs through a metal surface with a grommet or other device and all wire runs outside the vehicle cab with a loom. Always protect against wire fatigue and harness abrasion by properly attaching wires at closely spaced intervals, while avoiding contact with sharp edges or doing anything else that might result in exposed wires. All wires should be secured with tie wraps at least every one foot (30 cm/300 mm) or less. Do not over-tighten any tie wraps.

DANGER

EXPLOSION HAZARD: Do not disconnect equipment unless power has been removed and the area is known to be non-hazardous. Comply with all EV/ non-ICE vehicle health and safety requirements. Do not disconnect equipment unless power has been removed and the area is known to be non-hazardous. Comply with all Electrically propelled/ non-Internal Combustion Engine vehicle(s). Health and Safety regulation within countries/regions/jurisdictions. Any electrical work on Electrically propelled vehicle(s) should be performed only by a suitably trained and qualified automotive technician to international level 1 EV qualification applicable to your country/ region/ state. Lytx, Inc. disclaims all responsibility for any damages arising from improper installation and maintenance of the Surfsight device(s).

WARNING

Do not disconnect equipment unless power has been removed and the area is known to be non-hazardous. Comply with all Electrically propelled/ non-Internal Combustion Engine vehicle(s). Health and Safety regulation within countries/regions/jurisdictions. Any electrical work on Electrically propelled vehicle(s) should be performed only by a suitably trained and qualified automotive technician to international level 1 EV qualification applicable to your country/ region/ state. Lytx, Inc. disclaims all responsibility for any damages arising from improper installation and maintenance of the Surfsight device(s).

WARNING

Substituting or supplementing components may impair suitability and performance. If you are missing any components contact Lytx Technical Support Center at 925.732.4246 or email support@lytx.com.

WARNING

Use of correct Personal Protective Equipment to comply with any countries/ regions/jurisdictions/ local company Health and Safety regulation for the installation site and type of installation being completed, to prevent serious injury, is the responsibility of the Installer and Installation partner. Wear safe eye protection to prevent serious eye injury when you perform vehicle maintenance or service.

WELCOME AND THANK YOU!

Follow these steps to install your dash cam:

1. Prepare and unbox the AI-14 dash cam (page 8)
2. Get familiar with the AI-14 dash cam (page 13)
3. Hardwiring and Mounting Overview (page 18)

The Surfsight team

Visit the Surfsight Help Center (https://kb.surfsight.net/hc/en-us) for more detailed information, to learn about our features, and to get started in the cloud.

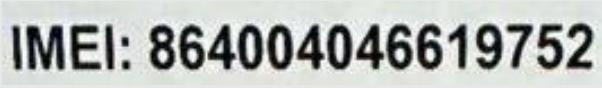
PREPARE AND UNBOX THE AI-14 DASH CAM

This section outlines the steps to prepare and unbox your AI-14 dash cam. Please make sure you have all the necessary components before proceeding with the installation.

You will find the following items in the AI-14 dash cam box: The AI-14 dash cam, with the pre-installed SIM and Micro-SD cards, the mounting bracket, the QR code to access the installation instructions, a T6 Torx Wrench, alcohol wipes, and the notification window sticker.

NOTE

Before proceeding, locate the International Mobile Equipment Identity (IMEI) number for your AI-14 Dashcam. This number is crucial for device setup and for receiving technical support. You can find the IMEI number on a sticker directly on the dashcam unit and on the back of the dashcam's packaging box.



Additional Items Not Included in the Kit

The following items are necessary for the installation and operation of your AI-14 dash cam. You can purchase them using the Lytx Surfsight AI-14 Standard Price List order form.

- AI-14 Standard Power Cable (Hardwire)
  This power cable is used to hardwire the dash cam directly into your vehicle's power source.

- OBD II/Power Only Y-cable, AI-14

  This cable connects the dash cam to your vehicle's On-Board Diagnostics (OBD) port, while leaving the port open for other functions.

- IOX/AI-14 IOX

  This cable connects the IOX port on a Geotab Go device to the AI-14 Molex connector.

NOTE

The AI-14 requires a 12 V or 24 V power source.

Required Tools

Before you begin installation, make sure you have reviewed all guides and have the following tools on hand:

Wire Cutter	Electric tape
Wire Crimper	Assorted Self-Sealing Crimp Connectors
Voltmeter or MultiMeter	Tape measure (5 Meter/ 16 ft)
Vehicle panel removal tool	Marking pen
Screwdriver set	T-8 security Torx bit
Flat-blade screwdriver	T-8 security Torx bit
Cable ties	Micro USB cable
Zip/Cable Ties	Vehicle manufacturer recommended tools
Phillips screwdriver	Mobile device with access to the Internet
Cloth Tape	

NOTE

Refer to the manufacturer's manual to find any special tools or parts required for maintenance, service, installation, or diagnostics.

Optional Tools

The following tools are not required for installation, but they may improve efficiency and ease of use.

Cordless driver	Utility knife
Add-a-circuits or vehicle-specific connectors	Vehicle-specific panel clips
Grommets and looms	Heating torch
Flashlight	Heat shrink
Paper towels/shop towel	Self-amalgamating tape

Identify Your Mounting Bracket

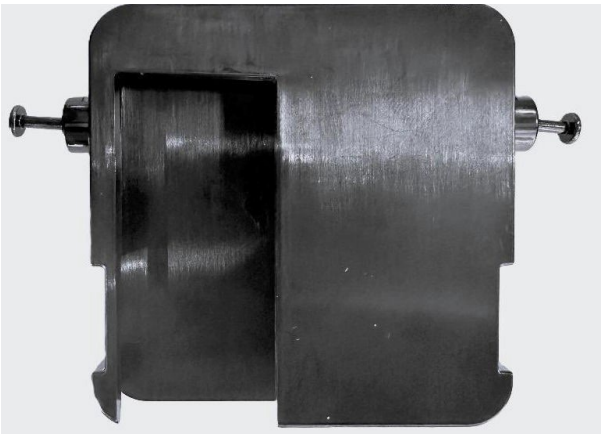
Your AI-14 dash cam kit includes either an AI-14 Mounting Bracket V1 or an AI-14 Mounting Bracket V2. Identify which bracket you have and follow the installation steps designed for the specific bracket. To determine your bracket type, examine the mounting bracket included in your box:

- AI-14 Mounting Bracket V1

The dash cam slides into this mounting bracket from the right side and locks into place with two locating tabs.

Click here for the installation instructions: **AI-14 Mounting Bracket V1 (page 34)**

- AI-14 Mounting Bracket V2:



The dash cam slides into this mounting bracket vertically and uses two Torx T6 screws to secure it in place.

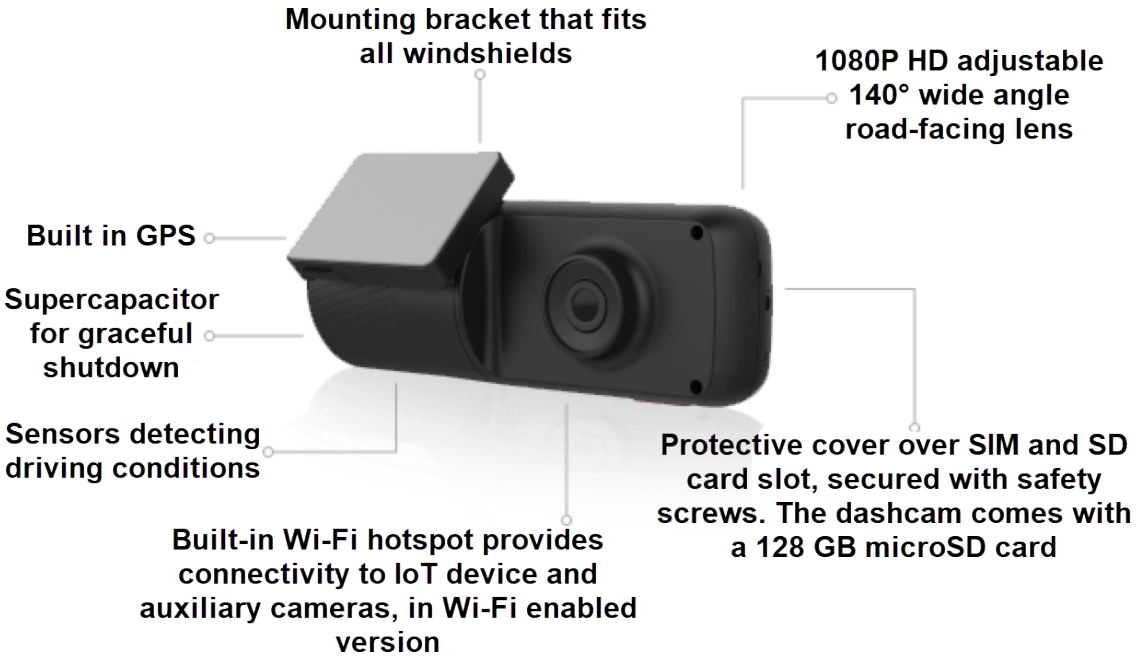
Click here for the installation instructions: **AI-14 Mounting Bracket V2 (page 37)**

GET FAMILIAR WITH THE AI-14 DASH CAM

Here are two dash cam components:

- Road-facing lens (page 13)
- In-cabin lens (page 14)

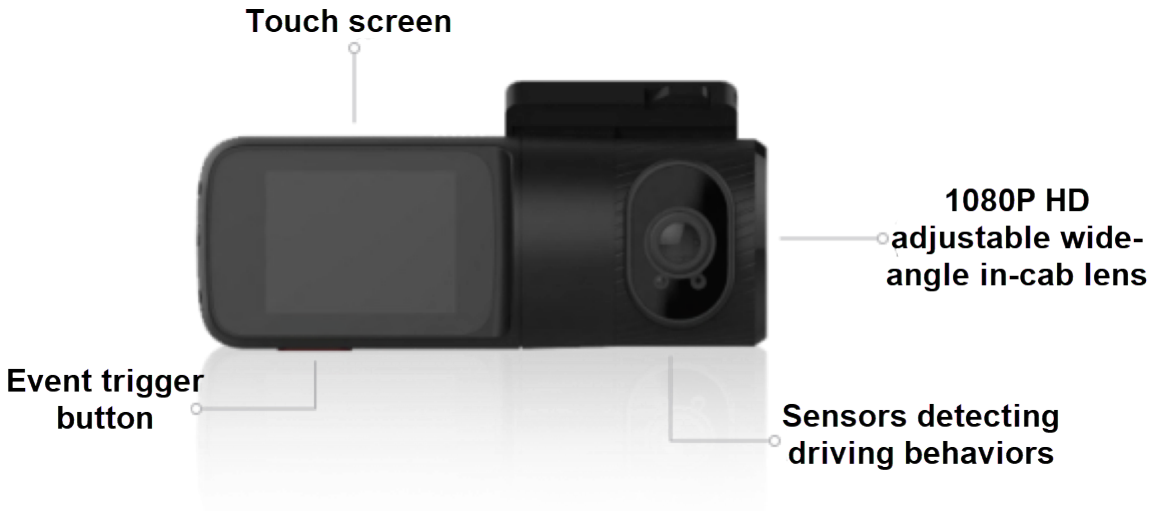
Road-facing lens



Here are the main features of the road-facing lens:

- Broad vehicle support
- Built-in GPS
- A supercapacitor for graceful shutdown

In-cabin lens



Here are the main features of the in-cabin lens:

- Connectivity: Built-in-Wi-Fi hotspot
- Positioning: Rotates and locks to set lens positions
- Advanced Functionality: Lens-as-a-sensor enables detection of distracted driving behaviors without video.

PRE-INSTALLATION CHECKLIST

Take these steps before installing the dash cam.

1. Turn on the vehicle and confirm that no Malfunction Indicator Lights (MILs), error codes, or warnings are present on any displays. Cycle through the messages if needed.
2. If any warnings appear, identify and resolve the issue before installation.
3. Inspect the windshield for cracks or chips. Get client/end-user confirmation before proceeding if damage exists.
4. Check the vehicle's exterior for damage and report any findings before starting.
5. Please inspect the vehicle's interior for any damage or cleanliness issues. Report issues before starting work.
6. For OBD-II connections, ensure no other third-party devices are connected to the OBD-II port before proceeding.
7. Report any faults or damage to the site contact and/or partner/manager before continuing.

Please see the best practices flowchart below.

INSTALLATION STEPS

Take these steps to install the dash cam.

Initial Assessment:

1. Check the vehicle for any pre-existing electrical problems or damage and report findings to the owner.
2. Locate the hardwire or OBDII connection point for the power cable.

Mounting:

1. Choose a mounting location that does not obstruct your view or interfere with vehicle controls.
2. Verify the dash cam's view and its ease of removal before marking its final position on the windshield.
3. Clean the marked area, attach the mount, and allow it to dry.

Device Installation:

1. Turn off the dash cam.
2. Route the power cable safely from the power source to the mount, hiding it behind the plastic trim.
3. Plug the power cable into the dash cam
4. Place the dash cam on its mounting bracket.

Final Checks:

1. Turn on the dash cam and confirm the live video view is correct.
2. Tighten all screws and verify that the power cable and dash cam are securely in place.
3. Ensure the vehicle is operating normally, with no new warnings or changes in performance.

HARDWIRING AND MOUNTING OVERVIEW

Follow these steps to hardwire and mount the dash cam on the windshield.

1. Connect the dash cam to a power source, by hardwiring the dash cam (page 19) to the vehicle fuse box or with an OBDII cable (page 26).
2. Set the road-facing and in-cabin viewing angles. (page 29)
3. Mount the dash cam to your windshield. (page 34)
4. ADAS calibration from the dash cam.

WARNING

Prior to installation, review the safety warnings and guidelines (page 3).

HARDWIRE THE AI-14 DASH CAM TO THE VEHICLE FUSE BOX

Connect the dash cam to the following:

- Constant 12 V or 24 V minimum 2 A power source
- Vehicle ignition-switched power source providing at least 1 A
- Vehicle ground/earth point

NOTE

You will need a self-sealing ring terminal which is not included in the kit.

- A red wire (VBATT & Fused) to connect the dash cam to constant power via a 2 Amp fuse
- A brown wire (IGNITION & Fused) to connect the dash cam to ignition power via a 1 Amp fuse
- A black wire to connect the dash cam to the vehicle ground/ earth point.

NOTE

The hardwire kit includes a dashcam connector, a black ground wire for a metal ground bolt, a brown wire to connect the dash cam to ignition power, and a cable with a Molex connector to connect to the dashcam.

WARNING

This installation must be performed by a qualified professional. Working with your vehicle's power system can be dangerous. Consult a professional for guidance.

NOTE

Make sure you are using the appropriate add-a-fuse for the vehicle's specific fuse box.

NOTE

You can purchase an Add-A-Fuse circuit tap from our order form.

Hardwiring the AI-14 dash cam

IMPORTANT

Only a properly qualified technician should install and maintain the Surfsight powered by Lytx dashcam. Any electrical work should be performed only by a suitably trained and qualified automotive technician with qualification applicable to your country/ region/ state; and with an expertise in installing and troubleshooting advanced onboard components, including multiplexed circuits. Lytx, Inc. disclaims all responsibility for any damages arising from improper installation and maintenance of the Surfsight device.

IMPORTANT

Make sure that the wiring cables and installation activities do not interfere with any airbag-related mechanisms or normal vehicle operations. Make sure the wiring cables are clear of any sharp edges, moving parts, and can't get pinched in the door jamb. The cables should be tucked away and secured behind panels wherever possible. Use cable ties at least every foot/ 30.48 cm, or as necessary, along the route of any cables to secure them in place.

WARNING

Locate your fuse box Always refer to the vehicle manufacturer's service manual/ up-fitter (body builder) sites for proper installation and wiring of any aftermarket devices, including the Surfsight A1-14. Check the owner's manual of the vehicle to find the fuse box, which may be in different places depending on the vehicle model. Remove the plastic panel to access the fuse box. Open the fuse box by lifting a tab and pulling it toward you or with a trimming tool.

WARNING

All wires that carry electrical current to the Lytx device(s) must be fused. Failure to fuse the constant power wire can lead to serious personal injury and/or property damage. If any wires or cables containing fuses/fuse boxes need to be cut or otherwise shortened or extended, always be certain to replace such fuses/fuse boxes or install new ones.

WARNING

Never wire the Surfsight device(s) in a manner that shares a connection with another aftermarket product in the vehicle. Independent connections should always be used.

WARNING

Only approved wire connection methods are recommended. Refer to the vehicle manufacturer's service manual to determine if sealing crimp connections, Add-A-Fuse (Add-A-Circuit), sealing butt connections, or OEM connections to open connection ports are approved. Never use plier tap products such as insulation displacement connectors (i.e., Scotchloc connectors) when installing the Surfsight device(s) (unless mandated by the vehicle manufacture i.e., BMW).

NOTE

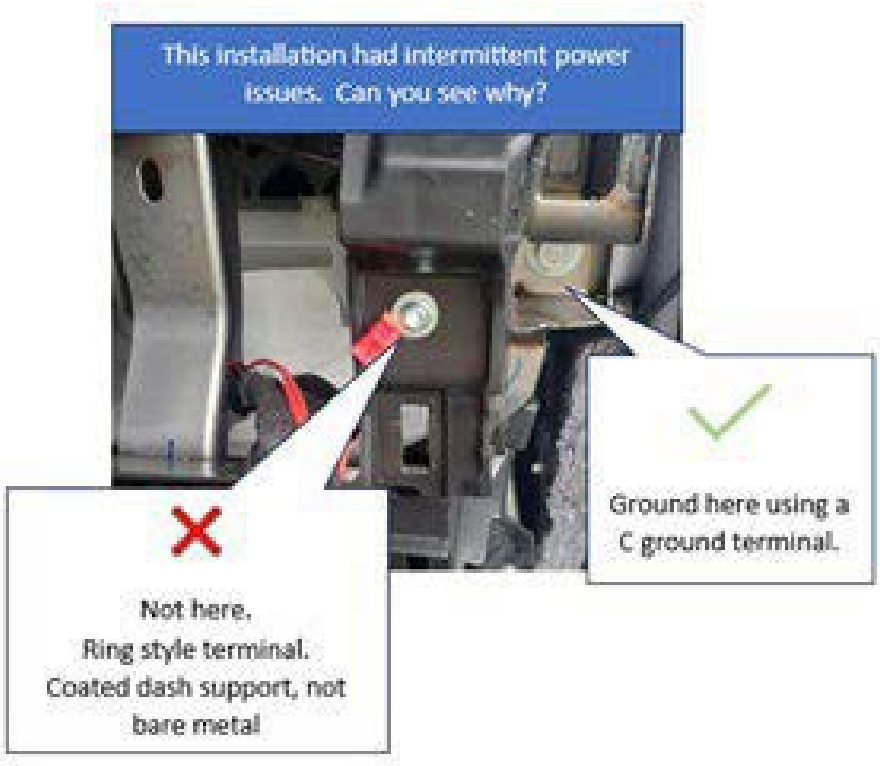
A loose ground wire can result in power issues for your dash cam.

NOTE

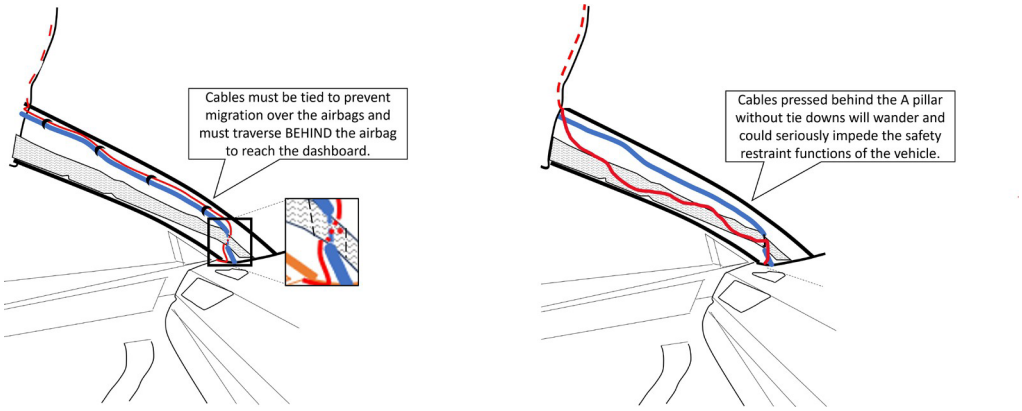
Before installing, check the vehicle manufacturer's resources to locate airbag sensors and system components. Ensure that the installation and wiring do not affect the airbags or their deployment.

To hardwire the dash cam:

1. Locate the vehicle fuse box
2. Use a MultiMeter to confirm which fuse is constant power.
3. To identify a constant power fuse (a fuse that remains on even when the car is off), you can test it by checking it while the car doors are open, closed, and locked. This process also helps ensure that the add-a-fuse you are using is compatible with your vehicle's fuse board.
4. To find an ignition power fuse (a fuse that's only live when the car is on), use a multimeter. Place one probe on a bare metal ground point on the vehicle's chassis and use the other probe to test the metal contact points on the fuses. The fuse will show power when the ignition is turned on and when the engine is running, but not when the car is off. This method also helps confirm that your add-a-fuse is the correct type for your vehicle's fuse board.
5. Attach the ground wire to a clean, bare metal part of the vehicle's chassis, which acts as a grounding point. For a secure connection, use a self-sealing crimp ring terminal (not included) to terminate the wire.



6. Run the power cable from the car's fuse board up the A-pillar and along the headliner to the dash cam mount. Make sure the connected Molex plug is accessible for future maintenance.



Please see **Set the AI-14 dash cam viewing angles (page 29)**

7. Make sure to run the wires away from any sharp edges or moving parts. Do not route them where they could get pinched, such as in a door jamb.

8. Secure cables with cable ties at regular intervals along their route. Make sure to space the cables every 12 inches (30 cm) so that the cables are held firmly in place without sagging.

9. You must determine if your vehicle has a Supplemental Restraint System (SRS), which includes airbags. During installation, route all wiring to avoid interfering with airbags and other vehicle functions.

10. Route the power cable carefully to avoid any SRS (Supplemental Restraint System) components like airbags. Secure the cable with ties approximately every 12 inches (30 cm), making sure the wiring does not interfere with the SRS.

11. Start your vehicle to test the dash cam.

12. Make sure the AI-14 is in the correct spot on the windshield.

13. Run the power cable through the top slot in the mount and behind the plastic trim.

14. Finish the installation and test it.

15. After completing the installation, confirm that the vehicle is operating normally and that no unintended changes have occurred.

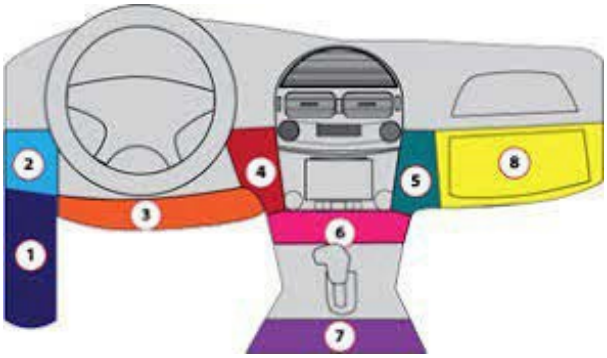
CAUTION

You may need to route the cable behind the window and door trim, which is held in place by snap-fit clips. In vehicles with side or curtain airbags, these clips are often single-use and will need to be replaced. Always check your vehicle's service manual for the proper removal and replacement steps.

CONNECT THE AI-14 DASH CAM TO AN OBDII PORT FOR POWER

To use all features of the AI-14 dash cam, such as Standby mode, you must connect it to a constant 12 V or 24 V power source with a minimum of 2 A. This can be achieved by connecting the provided cables to the vehicle's OBDII port.

Look for the OBDII port in the driver's compartment. It is usually located under the dashboard, near the driver's knees, or behind a small access panel.



NOTE

Some vehicle manufacturers now require an open OBD port. This can be achieved by using an OBD Y interface cable, which is not included in your kit.

WARNING

This installation must be performed by a qualified professional. Working with your vehicle's power system can be dangerous. Consult a professional for guidance.

NOTE

While in standby, you can retrieve recordings from the dash cam.

To connect your dash cam to an OBDII port:

1. Locate the on-board diagnostic port.

   The port is usually found in the driver area, at or below knee level.

2. Align the connector end of the OBDII cable with the engine diagnostic port. Connectors can vary by vehicle. If a different one is needed, contact your authorized reseller.

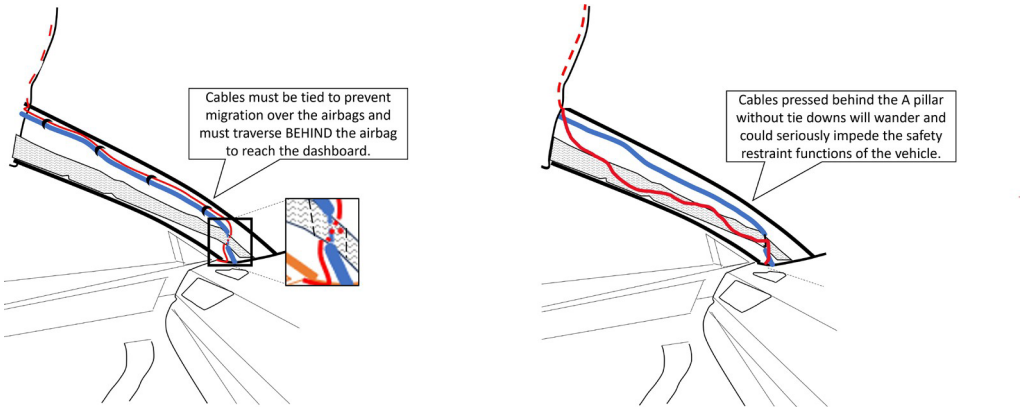
3. Push the connector into the port.

> **NOTE**
>
> Verify the OBDII cable is securely connected to the port.

4. Connect the OBDII cable to the dash cam.

5. Start your vehicle to test the dash cam.

6. After you have tested the dash cam, route the power cable from the power source up the A-pillar and along the headliner to the dash cam mount. As you do this, ensure the Molex plug is positioned in an easily accessible location for future servicing.



NOTE

Ensure that all wiring and installation steps do not interfere with any airbag systems or the vehicle's normal operation.

7. Make sure to run the wires away from any sharp edges or moving parts. Do not route them where they could get pinched, such as in a door jamb.
8. Secure cables with cable ties at regular intervals along their route. Make sure to space the cables every 12 inches (30 cm) so that the cables are held firmly in place without sagging.
9. You must determine if your vehicle has a Supplemental Restraint System (SRS), which includes airbags. During installation, route all wiring to avoid interfering with airbags and other vehicle functions.
10. Route the power cable carefully to avoid any SRS (Supplemental Restraint System) components like airbags. Secure the cable with ties approximately every 12 inches (30 cm), making sure the wiring does not interfere with the SRS.
11. Start your vehicle to test the dash cam.
12. Make sure the AI-14 is in the correct spot on the windshield.
13. Run the power cable through the top slot in the mount and behind the plastic trim.
14. Finish the installation and test it.
15. After completing the installation, confirm that the vehicle is operating normally and that no unintended changes have occurred.

SET THE AI-14 DASH CAM VIEWING ANGLES

Adjust the viewing angles for both the front and interior views together. Separate lens adjustments are not supported.

Mount the AI-14 dash cam on the windshield in a way that allows both front and in-cab lenses to rotate freely together. This positioning is crucial for capturing optimal footage from both directions without limiting either lens's view. Ensure the field of view is also set correctly for comprehensive recording.

WARNING

Some countries/regions/jurisdictions have adopted, or may in the future adopt, laws that prohibit objects from being mounted on a vehicle's windshield or other locations in a vehicle. Always refer to any applicable laws that concern mounting devices on vehicle windshields before choosing a mounting location. You are responsible for complying with such laws, as Lytx, Inc. does not accept responsibility for your failure to do so.

NOTE

The dashcam can be positioned on the passenger side or centrally below the rearview mirror, considering the vehicle's design and the driver's adjusted view. Always ensure your chosen placement complies with all local windshield obstruction laws and regulations.

IMPORTANT

Install the dashcam at least 1 meter (39.3 inches) from the ground to ensure proper operation of the road-facing ADAS capabilities.

NOTE

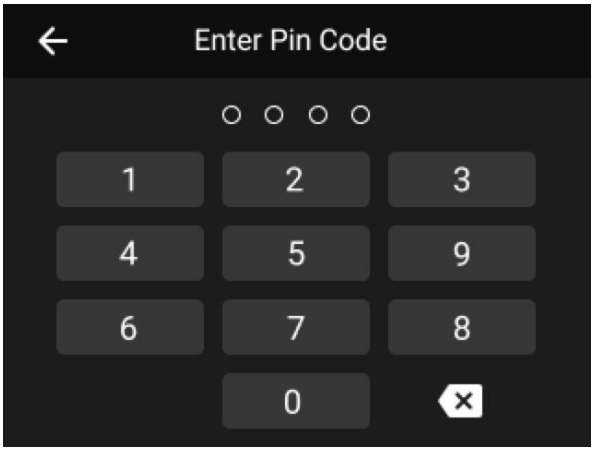
Make sure your vehicle is parked, with the parking brake on, the ignition on, and the door closed.

To set the view angles:

Now that the AI-14 dash cam has power, sit in the driver's seat to identify the best mounting location. Operate the sun visors, rearview mirrors, and any other movable accessories. Ensure the dash cam's placement does not obstruct your view of the road and provides a clear, unobstructed view of both the road ahead and the driver, as per our guidelines.

1. Use the Torx wrench to loosen the Torx T6 screw where the mounting bracket meets the dash cam body.

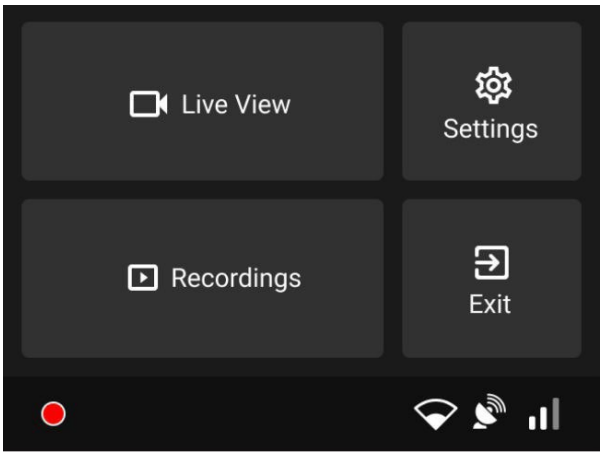
2. Press the touchscreen of the dash cam to view the PIN screen.
3. Enter the default PIN 3333 to unlock the dash cam for the first time, or your own PIN subsequently.



NOTE

See Set and manage your dash cam PIN *in the knowledge base* if you need help with your PIN.

4. Press **Live View**.



Use the arrow keys to toggle between the road-facing and in-cab views.

5. Position the dash cam and bracket on the windshield to check the view, without peeling off the mounting tape.

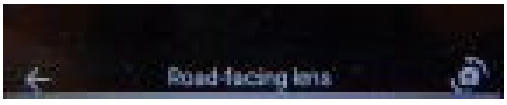
NOTE

Configure the virtual ignition in the AI-14 dashcam. Virtual ignition offers two approaches to activating the AI-14 dashcam:

Movement – When the virtual ignition feature is enabled, the dash cam is activated when it detects movement.

- **Ignition -** When virtual ignition is turned off, the dashcam relies solely on true ignition for activation. This means the AI-14 dashcam will only turn on when the ignition key is turned, overriding the movement-based activation.

6. Use **Live View** to view the position of both the road-facing and in-cab lenses, in each direction. Use the arrow keys to toggle between the views.

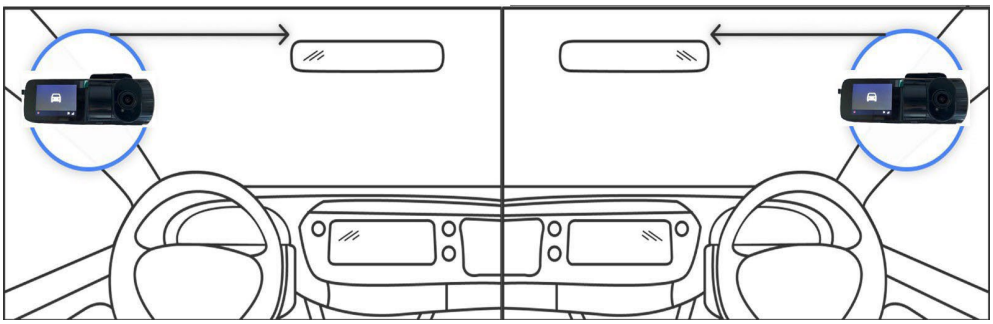


You can adjust the viewing angles of both lenses by rotating the body of the dash cam.

When positioning the dash cam, place it as high as possible.

IMPORTANT

The dashcam must be installed at least 1 meter (39.3 inches) above the ground for road-facing ADAS.



CAUTION

Some countries/regions/jurisdictions have adopted, or may in the future adopt, laws that prohibit objects from being mounted on a vehicle's windshield or other locations in a vehicle. Always refer to any applicable laws that concern mounting devices on vehicle windshields before choosing a mounting location. You are responsible for complying with such laws, as Lytx, Inc. does not accept responsibility for your failure to do so.

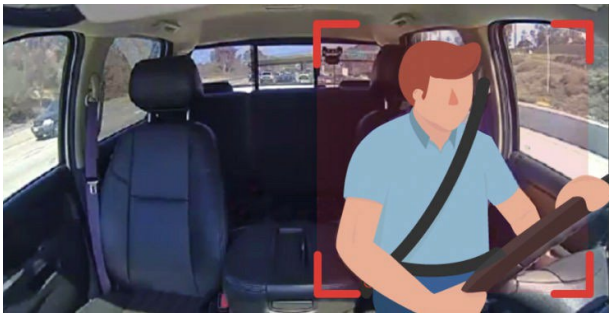
Ensure that:

- There is a clear view of the driver's upper body

NOTE

When using MV+AI, the driver's upper body must be in view of the in-cab lens.

For more information, see Position the dashcam for MV+AI.



- There is a clear view of the road
- The dash cam doesn't obstruct the driver's field of vision
- The dash cam is in the vehicle's wiper path so the road-facing lens is not obstructed by rain or snow
- Nothing in the cab blocks the in-cab lens, such as sun visors, blinds, or mirrors

NOTE

If the dash cam does not capture the driver's upper body, you can place the dash cam below the rearview mirror, as high as possible without obstructing the dash cam's view of the driver.

CAUTION

Positioning must comply with applicable law for relevant jurisdictions.

WARNING

Some countries/regions/jurisdictions have adopted, or may in the future adopt, laws that prohibit objects from being mounted on a vehicle's windshield or other locations in a vehicle. Always refer to any applicable laws that concern mounting devices on vehicle windshields before choosing a mounting location. You are responsible for complying with such laws, as Lytx, Inc. does not accept responsibility for your failure to do so.

7. Tighten the screw where the mounting bracket meets the dash cam when finished. Once the screw is tightened, the two lenses are locked into place.
8. Mark the edges of the bracket on the windshield with non-permanent marker.

Please see Hardwire the AI-14 dash cam to the vehicle fuse box (page 19)

MOUNT THE AI-14 DASH CAM

NOTE

Before you begin, identify your bracket type (AI-14 Mounting Bracket V1 orAI-14 Mounting Bracket V2) and click the appropriate link:

AI-14 Mounting Bracket V1 Installation (page 34)

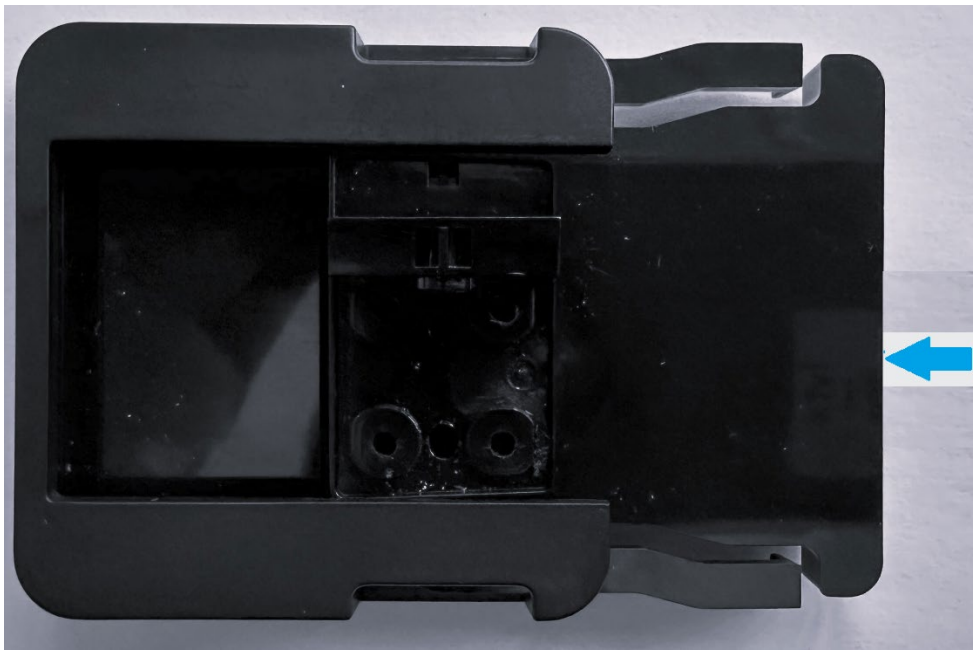
AI-14 Mounting Bracket V2 Installation (page 37)

AI-14 Mounting Bracket V1 Installation

To install your AI-14 dash cam with the AI-14 Mounting Bracket V1, slide the unit into the standard mounting bracket from the right side and until it locks into place with two locating tabs.

IMPORTANT

Leave 12.5 cm (4.9 inches) to the right of the dashcam to allow room to insert it into the bracket.



Installation Instructions

Select and Prepare the AI-14 Mounting Bracket V1 Location:

1. Choose a windshield location that does not obstruct your view, vehicle controls, or the Supplemental Restraint System Deployment (SRS).
2. Temporarily position the dash cam to confirm clear views, then mark the spot.
3. Clean the marked area thoroughly with the alcohol wipe and let it dry completely.

Attach the AI-14 Mounting Bracket V1:

1. Peel off the adhesive cover.
2. Carefully align the mounting bracket with your marked spot and apply even pressure, rolling it onto the windshield from top to bottom.
3. Smooth out any large air bubbles by applying more pressure. If necessary, use a small pin to release trapped air.
4. Allow the mounting bracket to cure for at least 10 minutes before attaching the dash cam.

Secure and Verify the dash cam:

1. Power off the dash cam.
2. Slide the AI-14 dash cam body into the mounting bracket from the right until it clicks into place.
3. Power on the dash cam, access "Live View," and verify clear in-cabin and road lens views.
4. Secure the Torx T6 where the mounting bracket meets the dash cam body to lock the views.

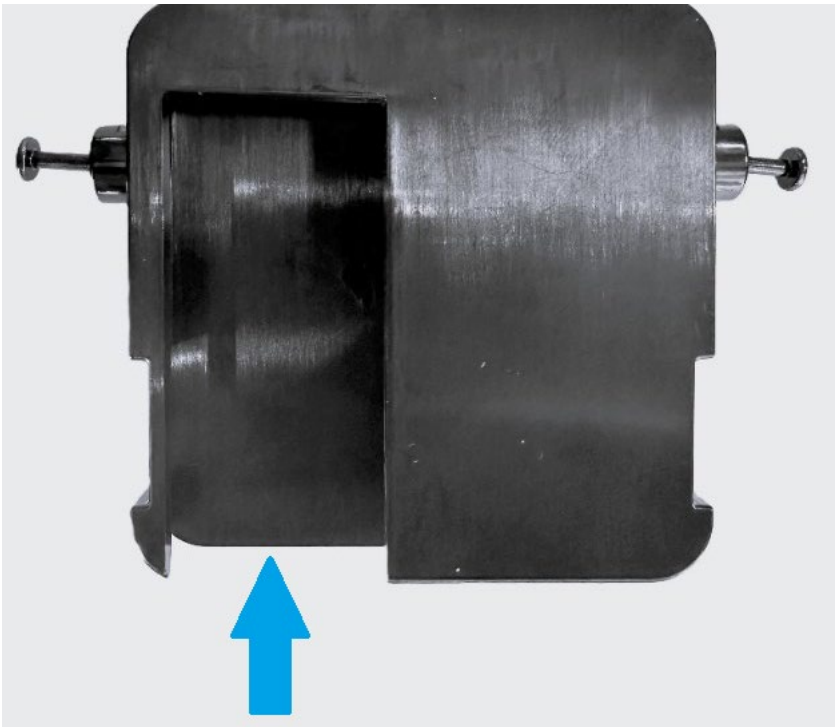
NOTE

Do not overtighten. The T6 has a torque specification of 0.8 Nm.

Click here (page 8) to return to the unboxing section.

AI-14 Mounting Bracket V2 Installation

To install your AI-14 dash cam with the AI-14 Mounting Bracket V2, insert the unit vertically and secure it via two locating tabs and two Torx T6 screws.



Installation Instructions

Prepare and Attach the AI-14 Mounting Bracket V2:

1. Unscrew the two T6 mount screws to free the windshield mount.
2. Release the AI-14 Mounting Bracket V2 mounting.
3. Press in the two locking tabs.
4. Slide the AI-14 body and mounting foot down from the windshield mount.
5. Choose a windshield location that avoids obstructing your view, vehicle controls, or the Supplemental Restraint System (SRS).
6. Clean the marked area thoroughly with an alcohol wipe and let it dry.
7. Remove the adhesive cover. Align the mounting bracket and apply pressure with a plastic trim tool, rolling it onto the windshield. Smooth out any air bubbles.

8. Allow the mounting bracket to cure for at least 10 minutes before proceeding.

Secure and Verify the dash cam:

1. Power off your AI-14 dash cam.
2. Slide the dash cam body upwards into the universal mounting bracket until the locating tabs click.
3. Tighten both the left and right Torx T6 screws (0.8 Nm torque specification) to secure the dash cam.
4. Power on the AI-14, access "Live View," and confirm clear in-cabin and road lens views.
5. Secure the Torx T6 where the mounting bracket meets the dash cam body to lock the views.

NOTE

Do not overtighten. The T6 has a torque specification of 0.8 Nm.

Click here (page 8) to return to the unboxing section.

PREPARE FOR DASH CAM ROAD-FACING ADAS CALIBRATION (OPTIONAL)

The dash cam can gather information about the road ahead and detect events such as critical distance with road-facing Advanced Driver Assistance Systems (ADAS). To enable road-facing ADAS, you must take a few measurements. Record these measurements in either centimeters or inches:

- The dash cam height from the ground
- The width of the front axle from the outer edges of each tire.
- The dash cam offset from the center of the windshield, measured from inside the cabin (road-facing view)
  - When the dash cam is to the **right** of the center of the windshield - enter a **negative** measurement
  - When the dash cam is to the **left** of the center of the windshield - enter a **positive** measurement

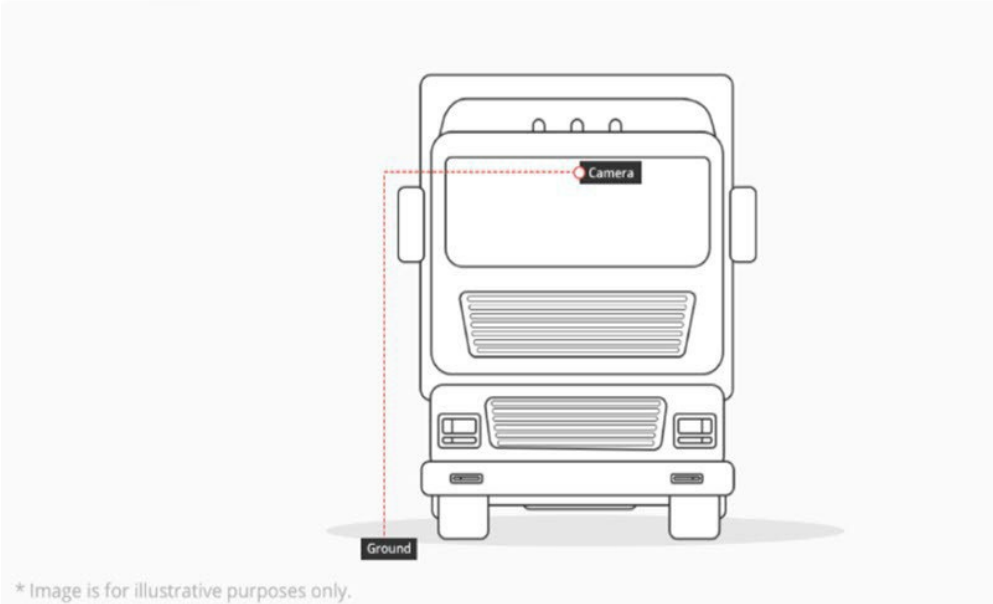
IMPORTANT

Install the dashcam at least 1 meter (39.3 inches) from the ground to ensure proper operation of the road-facing ADAS capabilities.

The dash cam height from the ground

Enter the camera height, from the ground, in cm or inches.

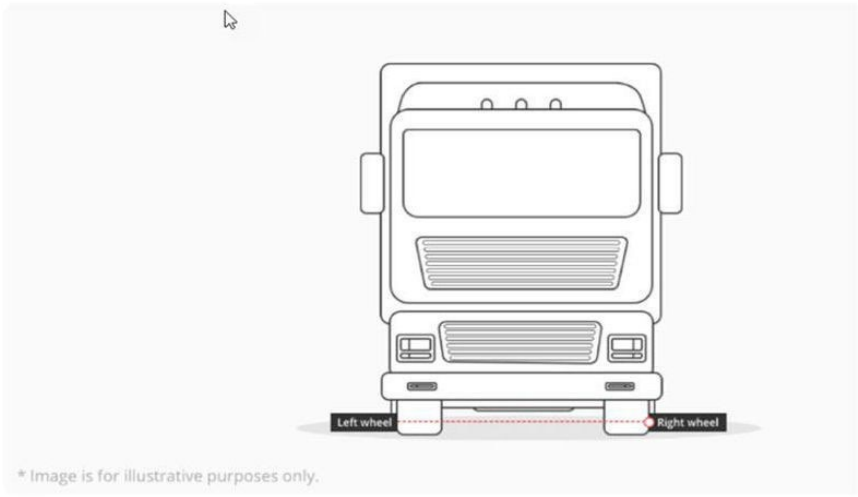
0 cm



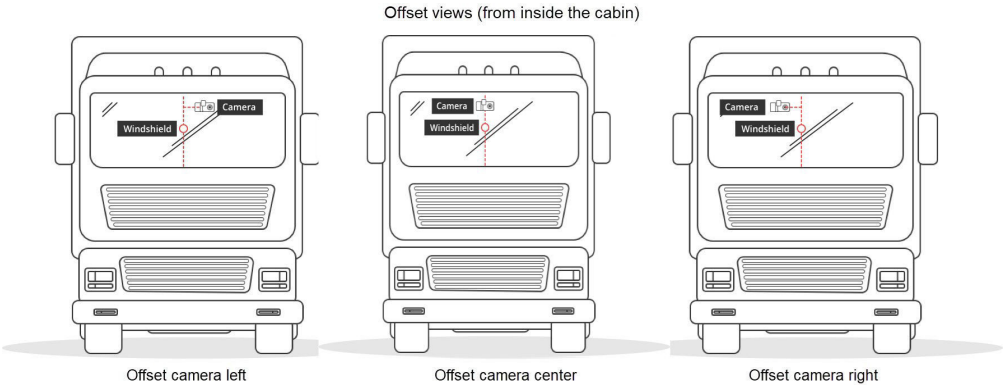
Rear axle width from the outer edges of each tire

Enter the rear axle width, from the outer edges of each tire, in cm or inches.

160 cm



Dash cam offset from the center of the windshield



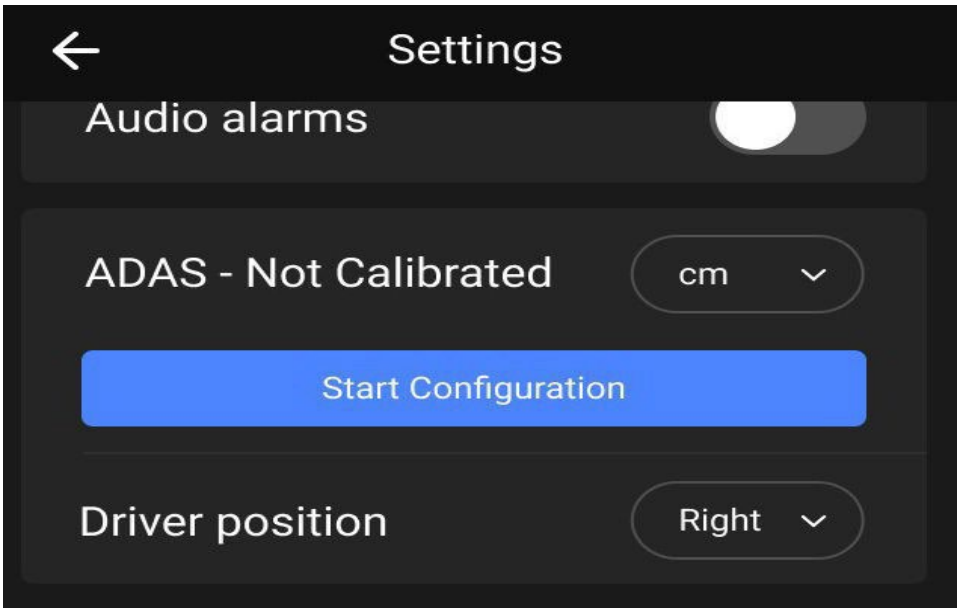
You can enter ADAS measurements directly on the AI-14 touchscreen or provide them to a reselling partner. This section covers the touchscreen method.

Step 1: Accessing the ADAS Settings

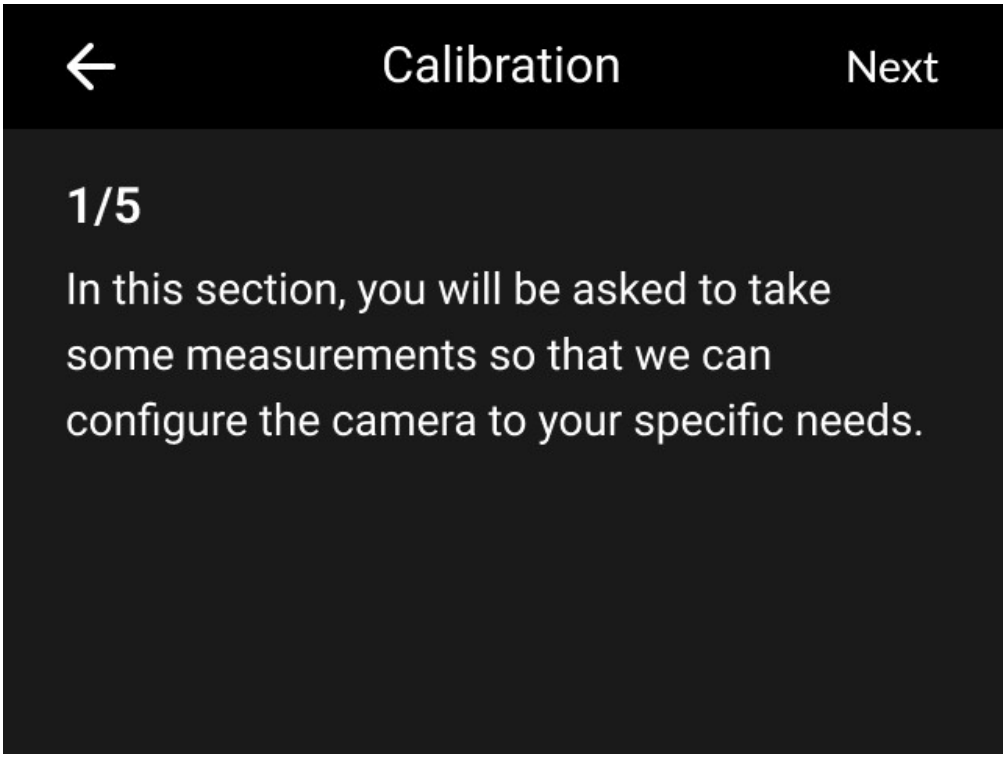
1. Unlock the dash cam: Enter the PIN to unlock the device. The default PIN is 3333.
2. Enter the default PIN 3333 to unlock the dash cam for the first time, or your own PIN subsequently.
3. Navigate to Settings: Select Settings from the main menu.
4. Adjust Units and Driver Position: Scroll through the settings to ensure the Speed Units are set to your preference (km/h or mph) and the Driver Position is correct (Left or right).

Step 2: Entering Measurements

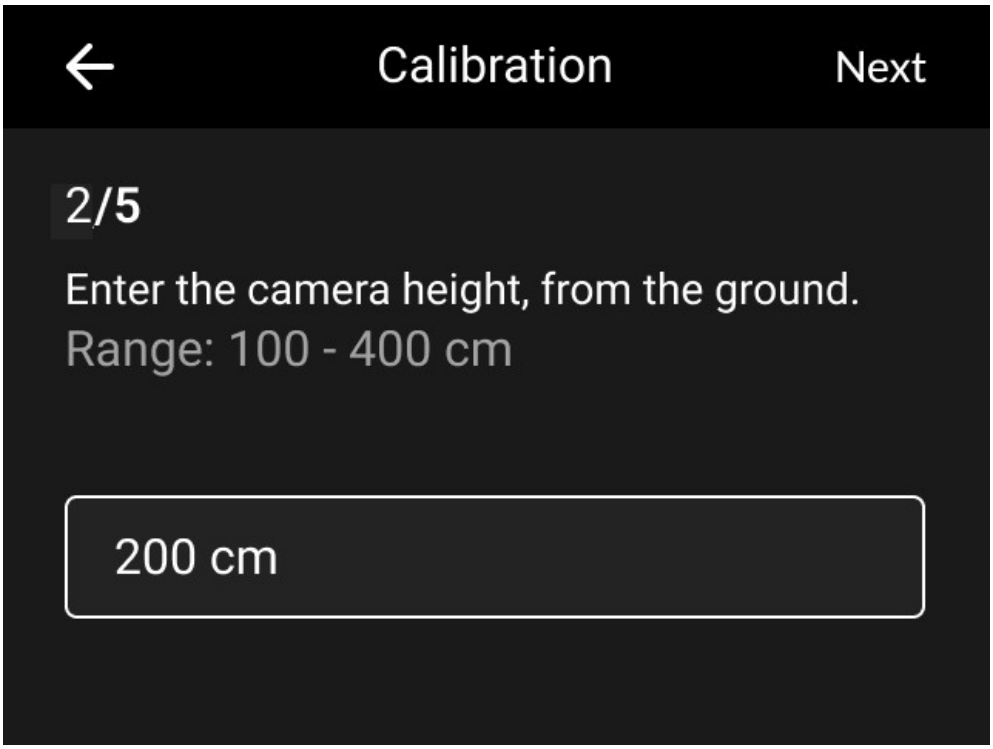
1. Select ADAS Calibration: Scroll to and select **ADAS - Not calibrated**



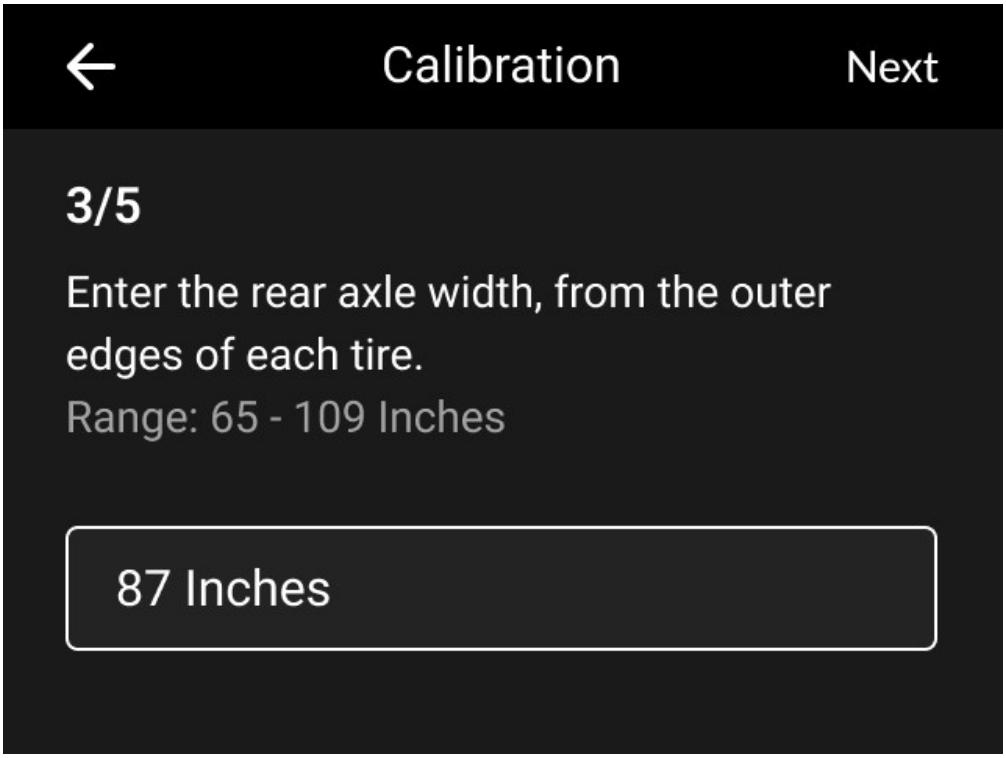
2. Select the units from the drop-down menu: Inches or centimeters.



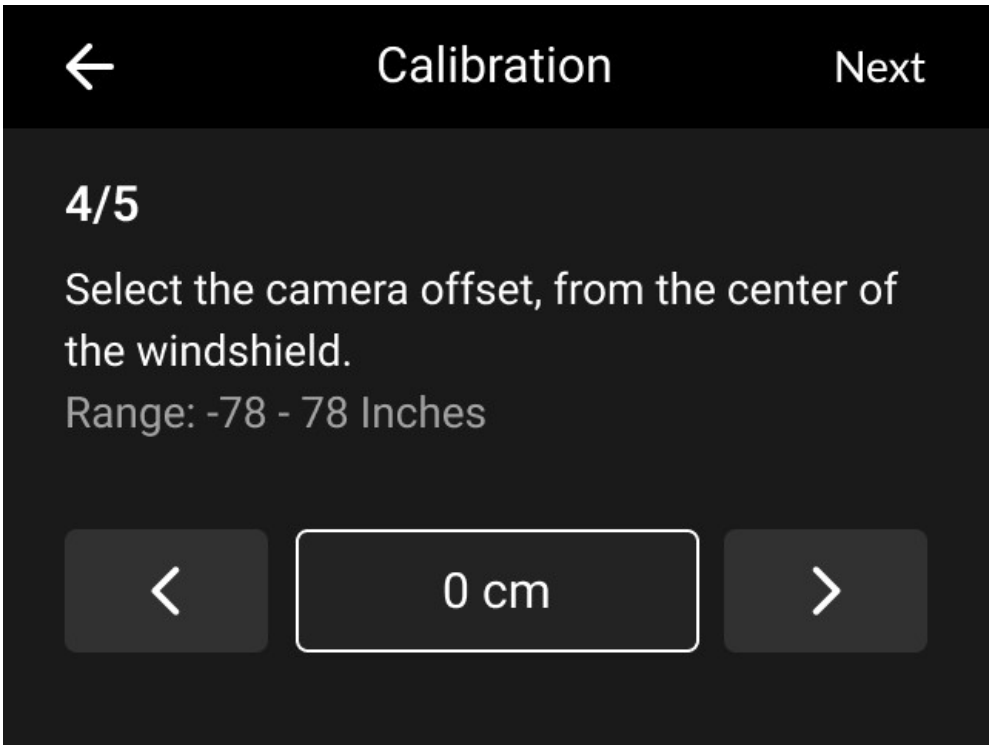
3. Adjust measurements: Tap the measurement bar, enter the height, and tap Next.



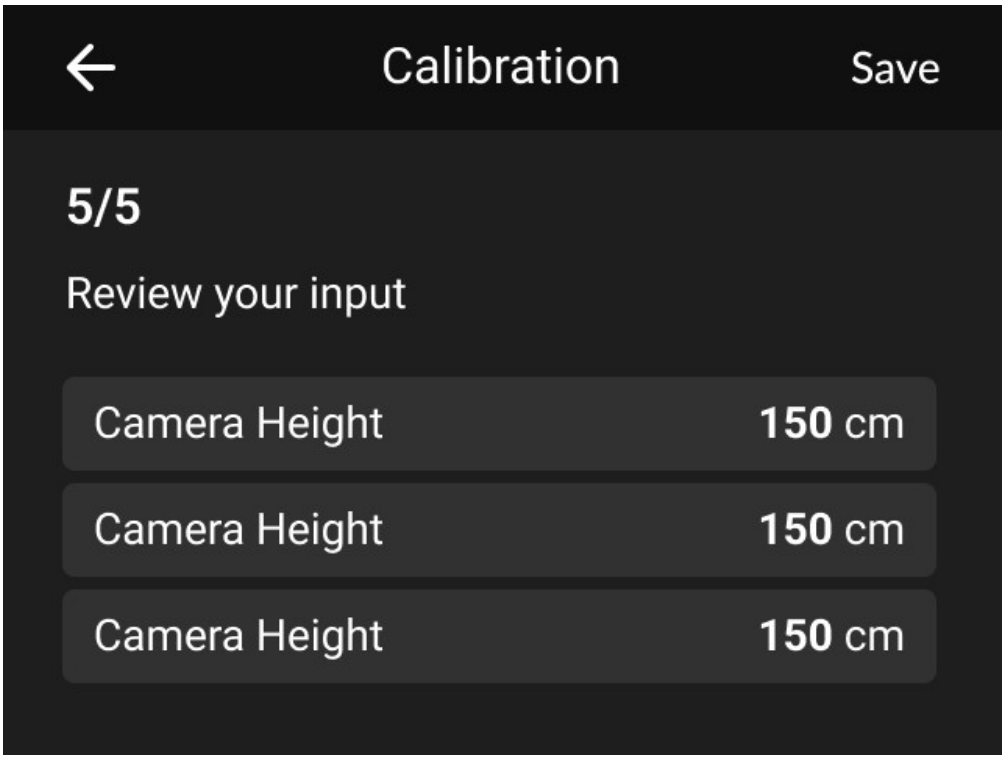
4. Tap the measurement bar, enter the axle width, and tap Next.



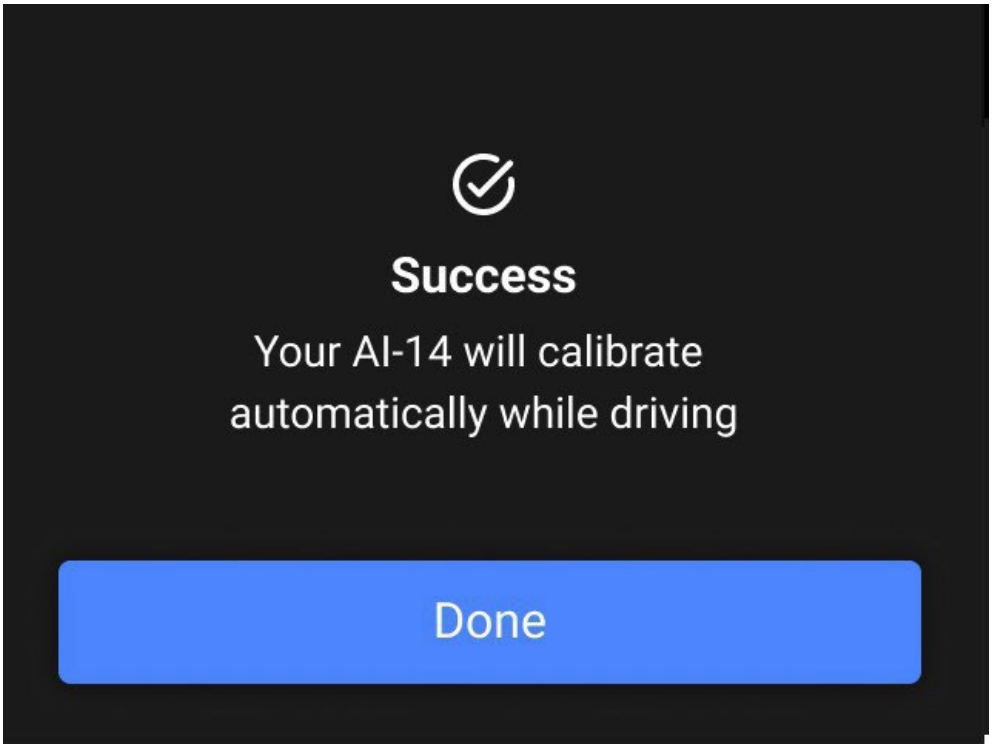
5. Use the arrows to adjust the camera's offset from the center of the windshield. The left arrow decreases the value (up to -200 cm), and the right arrow increases it (up to +200 cm). Tap Next.



6. Review all the entered measurements on the final screen.



7. Tap Save to finalize the measurements. The camera will then begin auto-calibration.



NOTE

If the dashcam is remounted (for instance, after a windshield change), you must recalibrate the dashcam and validate its measurement units.

POST-INSTALLATION CHECKLIST

Once the dash cam is installed and mounted, take the following steps:

Final Checks and Functionality:

1. Secure all cables and correctly reinstall any panels you removed.
2. With the vehicle on, verify the dash cam's live view to ensure it is operational.
3. Test the functionality of lights, power windows, radio, and climate control (A/C and heat).
4. Confirm that the unit has both a cellular connection and GPS by checking the "more info" screen in the settings menu.
5. Check other critical vehicle functions.

Take photographs of the following:

· The dash cam's mounted position on the windshield (with the sun visor open and closed).

· The live view on the dash cam touchscreen for both the road-facing and in-cab lenses.

· The constant power connection point and the fusing used.

· The ground connection point.

· The overall installation and cable routing.

Vehicle and Device Information:

1. Record the IMEI, Vehicle Registration, VIN, and ADAS measurements.
2. Check the inside and outside of the car for any existing damage or lack of cleanliness and report it.

OBD-II Connection (If Applicable):

Ensure the OBD-II port is clear and no other devices are connected.

Final Steps:

1. Start the vehicle to confirm no warning lights are present.
2. If any lights appear, resolve the issue and inform the client and supplier.
3. Return the keys.

FAQs: THE AI-14 DASH CAM

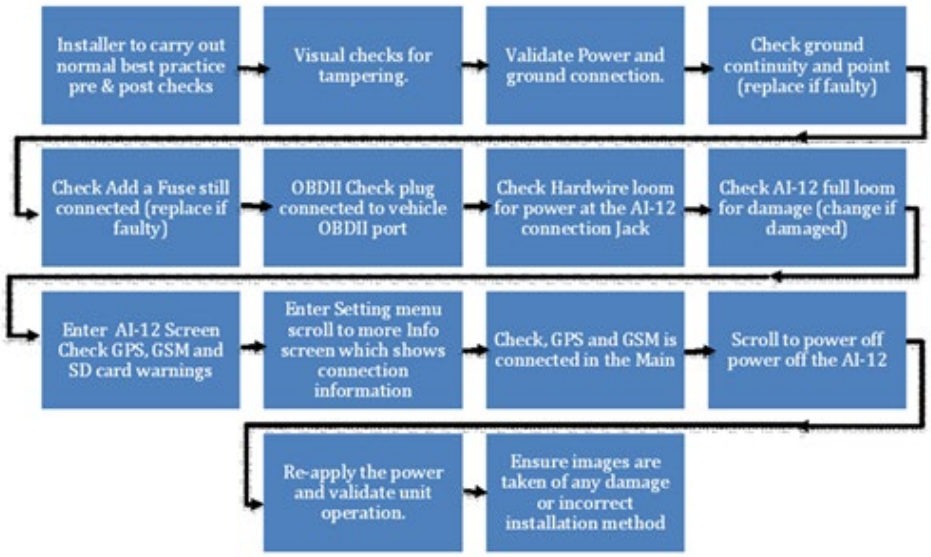
The following are frequently asked questions about the dash cam:

Question	Answer
How do I change the date and time on the dash cam?	The date and time are determined by the mobile network of the dash cam. These details are hard-coded in the software for accuracy and cannot be changed. **NOTE** If a vehicle travels between time zones, the dash cam automatically adjusts to the new local time. You can change the format of the dash cam in the **Settings** menu of the dash cam.
If I turned the vehicle off and left it, how do I know that the dash cam is recording for 10 minutes?	The dash cam records for a minimum of 10 minutes once the ignition is turned off, if it is connected to constant power.
If I turned the vehicle off and left it, how do I know that it is going into stand-by mode?	If the dash cam has a hardwired connection to the ignition, then the green LED will turn off after the selected standby time out. If the hardwire cable ignition feed is not connected, you will need to activate the virtual ignition in the settings menu of the dash cam. If you are connecting via the OBD looms, activate the virtual ignition in the settings menu of the dash cam.
What happens if I power off the dash cam using the power isolation (master) switch?	The AI-14 dash cam has a capacitor to ensure soft shutdown of the dash cam when constant power is disconnected.
What do I do if I forgot my PIN?	Contact your reseller support agent for support.
What measurement units does my dash cam support?	The dash cam can be set to kilometers per hour or miles per hour, from the dash cam settings.
What units of measurement should I collect for ADAS measurements?	If the dash cam is set to kilometers per hour, then use centimeters. If the dash cam is set for miles per hour, then use inches.
We use centimeters but the dash cam defaults to inches. How can we easily calibrate for road-facing ADAS?	You can change the measurement units for each dash cam or convert from centimeters to inches when entering the measurements. From the Partner Portal, you can switch between inches and centimeters at the beginning of the calibration process.
At what speed does road-facing ADAS turn on and create events?	The dash cam begins monitoring events once the vehicle is driving above 5 kilometers per hour.
Can rotating the dash cam lens trigger an event?	If the dash cam lens rotates and the g-force is significant, an event may be triggered. Tighten the lens screws fully when completing the installation to ensure that the dash cam cannot be rotated.

Question	Answer
How do you measure the distance from the dash cam to the ground? What accuracy level is needed to not impact road-facing ADAS performance?	You can measure the distance from the ground to the floor of the vehicle, measure from the floor of the vehicle to the dash cam and add the two measurements. Another option is to measure from the ground to a point parallel in height to the dash cam. Road-facing ADAS performs better with a more exact measurement. Greater precision in this measurement will yield better results.
When measuring dash cam offset, which point on the dash cam should be used?	Measure from the center of the windshield to the middle of the road-facing lens.
Does the position of the seatbelt affect how the dash cam triggers a Distracted Driving event?	Yes. For optimal performance in detecting distracted driving, the dash cam should be mounted in a location that provides a clear and unobstructed view of the driver's face, upper body, and hands
Why do I not see a CALIBRATE ADAS button when I click in the Devices area of the Partner Portal?	This button only appears after you've prepared the dash cam for calibration. Drive the vehicle at above 75 km/h for around five minutes to obtain images for ADAS calibration.
Why do drivers not receive camera alerts when they should, or receive alerts when they shouldn't?	This might happen when the driver's position is not set correctly, or if the driver's upper body is not in view of the driver-facing lens.
Why are so many false positives triggered for my dash cam?	This might happen when the driver's position is not set correctly, or if the driver's upper body is not in view of the driver-facing lens.
Can the same encryption password be used across multiple SD cards?	The SD password is selected when the card is encrypted and is only connected to the card itself. Any password can be used for any card, and the same password can be used for more than one card.
Why is the LED indicator on my AI-14 dash cam off?	The LED can be turned off in the Partner portal for a specific unit or client. Please reach out to customer support.
My AI-14 dash cam isn't turning on. How can I verify that it's receiving power?	Check the Molex plug on the vehicle cable side. · Verify the pin assignments: Pin 1: Ground, Pin 2: Constant power, Pin 5: Ignition power · Inspect the fuses. Make sure they're not blown. · Examine both the vehicle and AI-14 cables for damage.
Can rotating the dash cam lens trigger an event?	Fully tighten the T6 Torx screws on the dash cam's windshield mounting bracket during installation. This prevents the lens from rotating and triggering events due to significant g-force.

SERVICE AND AUDIT CALLS

The following flowchart illustrates the service and audit call process.



DEINSTALLATION

Take the following steps to uninstall the webcam.

Pre-Deinstallation

1. Verify operational status: Confirm the unit is connected to GPS and GSM.
2. Capture diagnostic image: Enter the PIN, go to the "More information" screen, and take a diagnostic image.
3. Power off: Return to the settings menu, select "Power off," and then disconnect the power. Ensure the unit remains off to prevent the battery from discharging.

Removal and Packaging

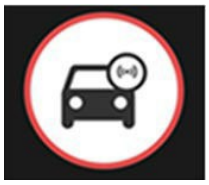
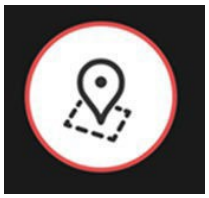
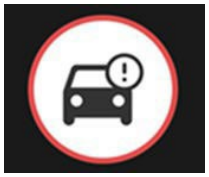
1. Remove cables: Safely remove or secure all cabling.
2. Remove mounting bracket: Detach the bracket from the vehicle.
3. Package: Place the unit and all accessories in a box, and label it with the vehicle information.

Final Steps

1. Perform the post-deinstallation vehicle checks.
2. Return the equipment and vehicle keys to the client or site contact.

UNDERSTANDING THE AI-14 DASH CAM EVENT ICONS

The following icons may appear on the dash cam if an event is triggered.

			
Following Distance	De-acceleration	Acceleration	Violent left turn
			
Violent right turn	Fence	Distracted driving	Rolling Stop
			
Speed	Critical Distance	Third-party event	Smoking
			
Cell phone use	Driver unbelted	Food and drink	Possible fatigue
			
G-sensor regular	G-sensor high	Possible accident	Wrong PIN code

			
Obstruction	Entering standby	Exiting standby	QR code
			
Button pressed			

DRIVER SAFETY WARNINGS

WARNING

In order to reduce the potential danger of injuries, the driver and front passenger must always be correctly seated with seat belts correctly fastened when operating the vehicle.

DISCLAIMER: The Lytx device is a driver aid only, not a substitute for a safe, conscientious driver. The Lytx device cannot compensate for a driver who is distracted, inattentive or impaired by fatigue, drugs or alcohol. Whether or not the Lytx device is in use, it is always the responsibility of the driver to take appropriate corrective action. Never wait for the device to provide a warning before taking measures to avoid an accident. Failure to do so can result in serious personal injury or death or severe property damage. Always, it is the driver's responsibility to:

- Use safe driving techniques
- Exercise proper judgment
- Maintain a safe speed and distance between vehicles
- Take measures to avoid an accident
- Comply with all applicable laws and regulations

WARNING

The ability for the Lytx device to issue a warning, including a visual and/or audible alert may be limited. In certain conditions, including inclement weather, low visibility, certain road conditions (including poor lane markings, construction zones, dirt roads, heavy or complicated traffic, and curvy and winding roads), the Lytx device may have limited to no functionality. Further, certain factors within the vehicle, including the body positioning of the driver and/or passengers and other in-vehicle equipment, can impact the ability for the Lytx device to issue a warning. The Lytx device may not detect certain objects such as motorcyclists, bicyclists or pedestrians even in the most ideal conditions. Always keep the lens and view of the Lytx device unobstructed and properly calibrated so as not to inhibit function. Driving in certain conditions or any interference with the Lytx device can result in false, few or no warnings. The driver must always monitor traffic and surroundings and take measures to avoid an accident; failure to do so can result in serious personal injury or death or severe property damage.

WARNING

The Surfsight® dashcams comply with the user-accessible surface temperature limits defined by the International Standards for Safety IEC 62368. However, they may become warm during normal use, and prolonged contact with warm surfaces can cause discomfort or injury. To minimize any potential heat-related issues, please avoid touching the dashcam's lens surface.

WARNING

If the Lytx device is not functioning properly at any time, please contact your supervisor and have the device inspected immediately to correct the issue. Whether or not the Lytx device is functioning, it is the driver's responsibility to maintain vehicle control; failure to do so can result in serious personal injury or death or severe property damage.

CAUTION

While cleaning the device or the vehicle cab, do not apply compressed air or cleaning solutions (such as Windex) to the Lytx device. Usage of these products may cause damage to the device.

WARNING

The optional livestream feature may have an approximate delay of 10 seconds. Livestream should never be used to assist the driver in operating the vehicle. The driver is responsible for the safe operation of the vehicle at all times and must always take measures to avoid a collision.

WARNING

Some countries/regions/jurisdictions have adopted, or may in the future adopt, laws that prohibit objects from being mounted on a vehicle's windshield or other locations in a vehicle. Always refer to any applicable laws that concern mounting devices on vehicle windshields before choosing a mounting location. You are responsible for complying with such laws, as Lytx, Inc. does not accept responsibility for your failure to do so.

ADHERENCE TO APPLICABLE LOCAL, STATE, AND FEDERAL LAWS

WARNING

Some countries/regions/jurisdictions have adopted, or may in the future adopt, laws that prohibit objects from being mounted on a vehicle's windshield or other locations in a vehicle. Always refer to any applicable laws that concern mounting devices on vehicle windshields before choosing a mounting location. You are responsible for complying with such laws, as Lytx, Inc. does not accept responsibility for your failure to do so.

USA Federal Communications Commission (FCC) Notice

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The AI-14 dash cam (Model AI-14-010) wireless operation is safe and complies to RF Exposure requirements.

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION

Exposure to Radio Frequency Radiation. To comply with FCC RF exposure compliance requirements, for mobile configurations, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons.

Canada – Industry Canada Notice

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

CAUTION

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

CAUTION

Exposure to Radio Frequency Radiation. To comply with RSS 102 RF exposure compliance requirements, for mobile configurations, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons.

Pour se conformer aux exigences de conformité 102 RSS RF exposition, pour des configurations mobiles, une distance de séparation d'au moins 20 cm doit être maintenue entre l'antenne de cet appareil et toutes les personnes.

Europe – Radio Equipment Directive 2014/53/EU (RED)

This device complies with the requirements of the following standards:

ETSI EN 301 908-1 V13.1.1(2019-11) – Transmitter Spurious Emission

ETSI EN 301 908-13 V13.2.0(2021-11) draft – Transmitter Spurious Emission

ETSI EN 301 511 V12.5.1(2017-03) – Radiated Spurious Emission

Radio Frequency Exposure

This product complies with the requirements of the following standard:

EN IEC 62311:2020 – Assessment of Electronic and Electrical Equipment related to Human exposure restrictions for Electromagnetic fields (0Hz-300GHz)

E-Mark and CE Mark

This device has both E-Mark and CE Mark, in compliance with UNECE regulation E/ECE/TRANS/505/Rev.2.) This device may be installed throughout Europe and other regions that accept E-Mark or CE Mark as suitable proof of compliance. However, please note that regulations may vary per locality.

Suppliers Declaration of Conformance

We, Lytx, Inc., hereby declare that the product listed below, to which this Declaration of Conformity relates, is in conformity with the Standards and other Normative Documents listed below:

Manufacturer's Name & Address:

Lytx, Inc.

9785 Towne Centre Drive

San Diego, CA 92121 USA

Declares that the following product:

Product Name: AI-14 dash cam

Product Models:

- AI-14-010, AI-14-011 (US/Can)
- AI-14-036 - EU/RSA
- AI-14-046 - MX/LatAm/Aus/NZ

The product specified above carries the marking, by complying with the essential requirements and provisions. Conformity is based upon the following standards:

Manufacturer's Contact:

Lytx, Inc.

9785 Towne Centre Drive

San Diego, CA 92121 USA

EMC & Radio:

- FCC Title 47 CFR Part 15 Subpart B
- FCC Title 47 CFR Part 15.247
- FCC Part 15 Subpart E
- Industry Canada ICES-003, Class B
- Industry Canada RSS-Gen
- Industry Canada RSS-210 (applicable only to cellular modem variant)
- Industry Canada RSS-247

2014/53/EU (RED) Radio Equipment Directive

2011/65/EU (RoHS) Restriction of the Use of Certain Hazardous Substances in E&E Equipment

EN 55032:2015: Electromagnetic compatibility of multimedia equipment