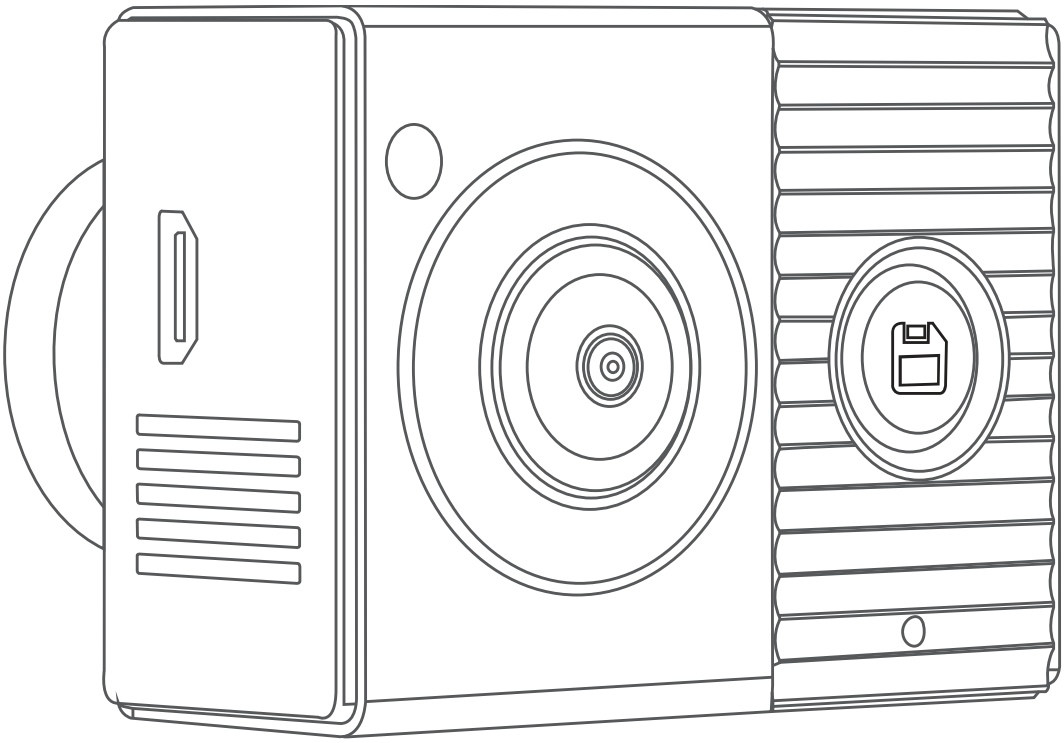
GARMIN



GARMIN DASH CAM™ TANDEM

Owner's Manual

© 2019 Garmin Ltd. or its subsidiaries

All rights reserved. Under the copyright laws, this manual may not be copied, in whole or in part, without the written consent of Garmin. Garmin reserves the right to change or improve its products and to make changes in the content of this manual without obligation to notify any person or organization of such changes or improvements. Go to www.garmin.com for current updates and supplemental information concerning the use of this product.

Garmin® and the Garmin logo are trademarks of Garmin Ltd. or its subsidiaries, registered in the USA and other countries. Garmin Dash Cam™, Garmin Drive™, and Garmin Express™ are trademarks of Garmin Ltd. or its subsidiaries. These trademarks may not be used without the express permission of Garmin.

The BLUETOOTH® word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by Garmin is under license. microSD® and the microSD logo are trademarks of SD-3C, LLC. Wi-Fi® is a registered mark of Wi-Fi Alliance Corporation.

M/N: A03817

IC: 1792A-03817

Table of Contents

Getting Started **1**
Mounting Considerations 1
Connecting the Device to Vehicle Power 1
Pairing with Your Smartphone 2
Device Overview 2

Dash Cam Recording **3**
Turning Audio Recording On or Off 3
Event Detection 3
Saving Videos and Photos 3

Viewing and Exporting Video and Photos **3**
Viewing the Live Camera Feed 3
Viewing Videos and Photos on Your Smartphone 3
Editing and Exporting a Video 4
Connecting the Camera to Your Computer 4

Voice Control **4**
Setting the Voice Control Language 4
Controlling the Camera Using Voice Commands 4
Voice Control Tips 4

Multiple Camera Network **4**
Creating Picture-in-Picture Multi-Camera Videos 5

Settings **5**
Camera Settings in the Garmin Drive App 5
Video Resolution Settings 5
Renaming a Camera 5

Device Information **5**
Memory Card Specifications 5
Cleaning the Camera Lenses 6
Removing the Camera Mount from the Windshield 6
Updating Your Device Using the Garmin Drive App 6
Product Updates 6
Specifications 6

Appendix **7**
Parked Video Recording 7

Troubleshooting **7**
My camera feels warm while it is operating 7
My memory card has degraded and needs to be replaced 7
My video recordings are blurry 7
My video recordings are choppy or incomplete 7

Index **8**

Getting Started

⚠ WARNING

See the *Important Safety and Product Information* guide in the product box for product warnings and other important information.

1. If you are using a third-party memory card, install and format the memory card (*Installing a Memory Card*, page 6).
2. Choose a mounting location on your windshield, and mount the camera (*Mounting Considerations*, page 1).
3. Connect the camera to a power outlet in your vehicle (*Connecting the Device to Vehicle Power*, page 1).
4. Pair the camera with your smartphone and the Garmin Drive™ app (*Pairing with Your Smartphone*, page 2).
5. Familiarize yourself with the camera (*Device Overview*, page 2).

Mounting Considerations

The camera affixes to the windshield using the included adhesive mount. The adhesive mount is difficult to remove after it is installed. You should carefully consider the mounting location before you install the mount.

- Do not mount the camera in a location that interferes with the driver's view of the road.
- You should choose a location that provides the camera a clear, unimpeded view of the vehicle cabin.
- You should avoid placing the camera behind or very close to the rearview mirror, parking tags, or other objects that may impede the interior view.
- You should choose a mounting location that provides the camera a clear view of the road ahead.
- You should verify the area of the windshield in front of the camera is cleared by the windshield wipers.
- You should avoid placing the camera behind a tinted area of the windshield.

Installing the Camera on Your Windshield

NOTICE

The adhesive mount is intended for a long-term installation and can be difficult to remove. You should carefully consider the mounting location before you install the mount.

Before you can install the adhesive mount onto your windshield, you should review the windshield mounting considerations (*Mounting Considerations*, page 1).

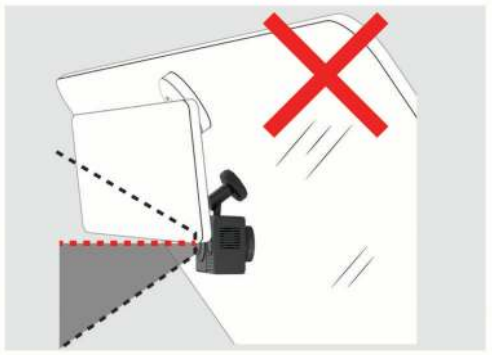
For the best results, the ambient temperature should be from 21° to 38°C (from 70° to 100°F) while installing the camera on your windshield. The adhesive may not bond correctly if the temperature is outside this range. If you need to install the camera at lower temperatures, you must clear all snow, ice, and moisture from the windshield and warm the windshield using the vehicle defroster before installing the camera.

The camera attaches to the windshield using the included adhesive mount.

1. Clean the inside of the windshield using water or alcohol, and a lint-free cloth.

   The windshield must be free of dust, wax, oils, or coatings.
2. Hold the camera in the desired mounting location on the windshield, and verify the camera has a clear, unimpeded view.

   You should verify the front lens has a clear view of the road and the interior lens has a clear view of the vehicle cabin. You should avoid placing the camera behind or very close to the rearview mirror, parking tags, or other objects that may impede the interior view.



3. After you have selected a mounting location with a clear view, remove the protective film from the mount adhesive.



4. Position the mount over the mounting location.

   TIP: The adhesive is extremely sticky. Avoid touching the adhesive to the windshield until the mount is properly positioned.
5. Press the mount firmly onto the windshield, and maintain pressure for 30 seconds.

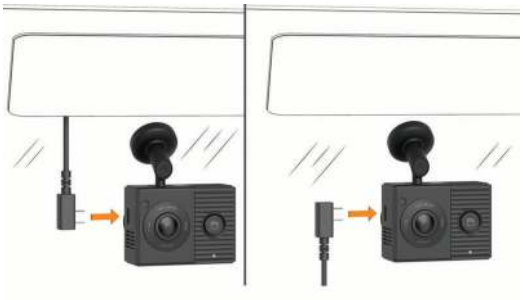
   This helps to ensure the mount adhesive has proper contact with the windshield.



Connecting the Device to Vehicle Power

1. Plug the power cable into the USB port on the camera.

   You can use either of the included cables to provide power to the camera. The longer 4 m (13 ft.) cable connects with the cable pointing up. The shorter 1.5 m (5 ft.) cable connects with the cable pointing down.



2 Route the power cable to your vehicle power outlet.

NOTE: You should power the camera using the included vehicle power adapter and avoid using a vehicle USB port. A vehicle USB port may not provide enough power for reliable camera operation. Also, the camera may enter USB mass storage mode if you connect it to a vehicle USB port using the shorter cable. The camera cannot record video or connect to your smartphone while it is in USB mass storage mode.

The longer, lightweight power cable is designed to be routed upward and out of sight. To hide the 4 m (13 ft.) cable, route it behind the vehicle trim along the windshield, doorframe, or dash.



The shorter cable is designed to be routed down to your vehicle power supply.



3 Plug the Garmin Dash Cam Tandem power cable into the included vehicle power adapter.

4 Plug the vehicle power adapter into the power outlet in your vehicle.

5 If necessary, turn on the vehicle ignition switch to provide power to the power outlet in your vehicle.

The camera turns on and starts recording.

Turning Off the Device Manually

The camera does not have a power button. It turns on automatically when it receives power, and it turns off when it stops receiving power.

When the device is connected to an ignition-switched power outlet, it turns off automatically when you turn off the vehicle.

To manually turn off the camera, disconnect the device from power.

Pairing with Your Smartphone

You can pair your Garmin Dash Cam Tandem camera with your smartphone and the Garmin Drive app. The Garmin Drive app allows you to set up a multiple-camera network, change camera settings, and view, edit, and save photos and videos.

1 From the app store on your smartphone, install the Garmin Drive app.

2 Connect the camera to power using the included vehicle power adapter and a USB cable.

The camera turns on.

3 Place the camera and your smartphone within 3 m (10 ft.) of each other.

4 On your phone, open the Garmin Drive app.

5 Select an option:

- If this is the first Garmin® device you are pairing with your smartphone, accept the Garmin Drive app license agreements.
- If you are pairing an additional Garmin device or camera with your smartphone, select **Add Another Device**.

6 Select **Garmin Dash Cam Series** > **Garmin Dash Cam Tandem**.

7 On your camera, press and hold until the status LED flashes blue.

8 Follow the on-screen instructions to complete the pairing and setup process.

After pairing is complete, the main app dashboard appears. After the device and smartphone are paired, they connect automatically when they are turned on and within range.

Device Overview



①		Press to enable or disable audio recording. Hold to format the memory card (*Formatting the Memory Card*, page 6).
②		Press to save a picture and a video clip. Hold to enter pairing mode (*Pairing with Your Smartphone*, page 2).

Status LEDs

The microphone LED ① and the status LED ② show the device status.



Microphone LED Activity	Status
Red	The device is recording audio.
Off	The device is not recording audio.
Flashing green, alternating with status LED	An update is being installed.

Status LED Activity	Status
Green	The device is connected to a computer in mass storage mode. The memory card is being formatted.
Flashing green	The device is preparing to record.
Flashing green, alternating with microphone LED	An update is being installed.
Red	Video is recording.
Flashing red	A photo or video is being saved.
Alternating red and yellow	The memory card is low on space or is underperforming.
Flashing yellow	There is a problem with the memory card.
Blue	The device is in Wi-Fi® sharing mode or Bluetooth® pairing mode.
Off	The device is not connected to power.

Dash Cam Recording

NOTICE

Some jurisdictions regulate or prohibit use of this device. It is your responsibility to know and comply with applicable laws and rights to privacy in jurisdictions where you plan to use this device.

The dash cam records video to the camera memory card (*Installing a Memory Card*, page 6). By default, the device immediately starts recording video when it turns on, and it continues recording until it is turned off. If the memory card is full, the device automatically deletes the oldest unsaved video to create space for new video.

When the option to promptly delete unsaved video is enabled, the device continually deletes unsaved video more than three minutes old and deletes all unsaved video each time it is powered off. This feature is available only for specific regions and is enabled by default for some of those regions. When the camera is set to a supported region, you can enable or disable this feature in the camera settings (*Camera Settings in the Garmin Drive App*, page 5).

You can save a video recording to prevent it from being overwritten or deleted (*Viewing Videos and Photos on Your Smartphone*, page 3).

Turning Audio Recording On or Off

NOTICE

Some jurisdictions may prohibit recording audio in the vehicle or may require that all passengers have knowledge of the recording and provide consent before you record audio in the vehicle. It is your responsibility to know and follow all laws and restrictions for your jurisdiction.

The device can record audio using the integrated microphone while recording video. You can turn audio recording on or off at any time.

Press .

TIP: You can also use voice controls to enable or disable audio recording (*Voice Control*, page 4).

The microphone LED turns red while audio is recording.

Event Detection

By default, the device uses a sensor to detect possible incidents and saves video footage automatically before, during, and after the detected event. The video footage is stamped with the time, date, and location of the event.

Saving Videos and Photos

By default, the device uses a sensor to detect a possible incident and saves video footage automatically before, during, and after the detected event. You can also save video files and photos manually at any time.

1. Press .

   TIP: You can also use voice controls to save video or photos (*Voice Control*, page 4).

   The device takes a photo and saves the video footage before, during, and after you select .
2. Press again to save an additional photo and extend the length of the saved video footage (optional).

The memory card has limited storage. After you save a video recording, you should export the recording to your smartphone (*Editing and Exporting a Video*, page 4) or transfer the recording to your computer or other external storage location for permanent storage (*Videos and Photos on Your Computer*, page 4).

Viewing and Exporting Video and Photos

Viewing the Live Camera Feed

You can view the live camera feed from both camera lenses using the Garmin Drive app.

1. From the Garmin Drive app on your smartphone, select **View Live Feed**.

   The app scans for available cameras.
2. Select your camera from the list of available devices.

   The live view appears. By default, the app shows the front lens or the lens you most recently viewed.
3. Select **View Interior** or **View Front** to switch between the camera views.

Viewing Videos and Photos on Your Smartphone

Before you can view videos and photos on your smartphone, you must pair your Garmin Dash Cam Tandem device with the Garmin Drive app (*Pairing with Your Smartphone*, page 2).

NOTE: The device stops recording and alerts are disabled while viewing videos or photos.

1. From the Garmin Drive app on your smartphone, select **Review Footage**.

   The app scans for available cameras.
2. Select your Garmin Dash Cam Tandem camera from the list of available devices.

   The app connects to the camera and shows a thumbnail gallery of the available photos and videos. An overlay icon indicates the type of item.

	Photo
	Single-lens video. Includes video from one of the camera lenses.
	Dual-lens video. Includes video from both camera lenses.
	Multi-camera video. Includes video from multiple connected cameras. These videos are available only if you have set up a multi-camera network.

3. Select a video or photo.
4. If necessary, select an option:
   - To switch between lenses in a dual-lens video, select **Front** or **Interior**.
   - To switch between cameras in a multi-camera video, select ◀ or ▶.

While viewing a video, you can trim and export the video to save it to your phone or share it with others (*Editing and Exporting a Video*, page 4).

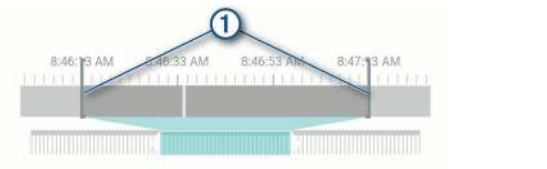
Deleting a Video or Photo Using Your Smartphone

1. When you are viewing the list of saved videos or photos on your smartphone, select **Select**.
2. Select one or more files.
3. Select 🗑.

Editing and Exporting a Video

You can trim the length of your video to remove unnecessary footage before exporting it to your phone storage.

1. While viewing a video, drag the trimming handles ① on the video progress bar left or right to trim the video length.



2. Select the **Include Audio** check box to include the recorded audio (optional).
3. For a dual lens or multi-camera video, select a picture-in-picture (PIP) video source, and select the corner where the PIP video should appear (optional).
4. Select **Export**.

   NOTE: You must keep the app in the foreground while exporting a video.

   The app exports the trimmed video to your smartphone.
5. After the video export is complete, select **Remove From Camera** to remove the video from the camera memory card (optional).

Connecting the Camera to Your Computer

You can connect the camera to your computer to install software updates or transfer videos and photos to your computer.

NOTE: The longer power cable included with your device is intended for power only, and it cannot be used to connect to your computer.

1. Using the shorter 1.5 m (5 ft.) data cable included with your device, plug the small end of the data cable into the micro-USB port on the camera.



2. Plug the larger end of the data cable into a USB port on your computer.

   Depending on your computer operating system, the device appears as either a removable drive or a removable volume on your computer.

Videos and Photos on Your Computer

NOTE: Some media players might not support high-resolution playback.

Videos and photos are stored in the DCIM directory on the camera memory card. Videos are stored in MP4 file format, and photos are stored in JPG format. You can view and transfer photos and videos by connecting the memory card or the device to your computer (*Connecting the Camera to Your Computer*, page 4).

The videos and photos are sorted into several folders.

NOTE: Unsaved videos are not available when the option to promptly delete unsaved video is enabled (*Camera Settings in the Garmin Drive App*, page 5).

100EVENT: Contains videos saved automatically when the device detects an incident.

101PHOTO: Contains photos.

102SAVED: Contains videos saved manually by the user.

103PARKM: Contains videos saved while parked.

104UNSVD: Contains unsaved video footage. The device overwrites the oldest unsaved video when the storage space for unsaved videos is full.

Voice Control

The voice control feature allows you to control your camera by saying words and commands. You can change the voice control language using the Garmin Drive app.

NOTE: The voice control feature is not available for all languages.

Setting the Voice Control Language

Before you can set the voice control language, you must pair your Garmin Dash Cam Tandem device with the Garmin Drive app (*Pairing with Your Smartphone*, page 2).

By default, the camera accepts voice control commands in English. You can change the voice control language using the Garmin Drive app.

1. In the Garmin Drive app, select ⚙, and select the camera name.
2. Select **Voice Commands**.
3. Select your locale and language.

Controlling the Camera Using Voice Commands

1. Say **OK, Garmin** to activate the voice control feature.

   The camera plays a tone and starts listening for a command.
2. Say a command:
   - To save a video, say **Save Video**.
   - To take a picture, say **Take a Picture**.
   - To record audio with the video, say **Record Audio**.
   - To record video without audio, say **Stop Audio**.

   The camera plays a tone when it recognizes your command.

Voice Control Tips

- Speak in a normal voice directed at the device.
- Reduce background noise to increase the accuracy of the voice recognition.
- Before each command, say **OK, Garmin**.
- Listen for a tone to confirm that the camera successfully recognized a command.

Multiple Camera Network

You can pair multiple dash cameras with the Garmin Drive app. This allows you to connect to dash cameras from multiple vehicles using the same phone. It also allows you to install multiple dash cameras in the same vehicle, such as front and rear cameras, and create composite picture-in-picture videos from the simultaneous recordings. If a GPS-connected camera

is part of the network, you can add location information to saved videos for all cameras on the network.

Creating Picture-in-Picture Multi-Camera Videos

Before you can use this feature, you must pair at least two cameras with the Garmin Drive app and record footage using both cameras.

The Garmin Drive app allows you to create composite, picture-in-picture videos from footage recorded at the same time on two cameras.

1. From the Garmin Drive app, select **Review Footage**.
2. Select a multi-camera video.

   Multi-camera videos are indicated by multiple camera icons on the video thumbnail. The app automatically combines video recorded at the same time into one multi-camera video icon.
3. Select ◀ and ▶ to choose the camera footage to use for the fullscreen portion of the video.
4. Drag the handles on the video progress bar to the left or right to trim the video length.
5. Select **Continue**.
6. Select ◀ and ▶ to choose the camera footage to use for the picture-in-picture portion of the video.
7. Select the corner of the screen where you want the picture-in-picture footage to appear, and select **Export**.

   NOTE: You must keep the app in the foreground when exporting a video.

   The app exports the picture-in-picture video to your smartphone.

Settings

The settings for your Garmin Dash Cam Tandem device are configured using the Garmin Drive app. Before you can configure settings, you must pair your device with the Garmin Drive app (*Pairing with Your Smartphone*, page 2).

Camera Settings in the Garmin Drive App

From the Garmin Drive app, select ⚙, and select the camera name.

Camera Setup: Enables you to choose a camera name, and displays a live video feed so you can adjust the position of the camera.

Front: Allows you to adjust the video quality and exposure level for the front lens, which records the exterior view.

Interior: Allows you to adjust the exposure level for the interior lens.

NOTE: The interior lens always records at a video quality of 720p, 30fps.

Data Overlay: Adjusts the type of data displayed on videos and pictures.

Alert Volume: Sets the volume for alerts, such as when the camera detects a potential vehicle incident.

Unsaved Videos: Determines when the device deletes unsaved video footage. When the **Delete When Full** option is selected, the device deletes the oldest unsaved video when the memory card storage is full. When the **Promptly Delete** option is selected, the device continually deletes unsaved video more than three minutes old and deletes all unsaved video each time it is powered off. This is useful to help protect data privacy.

Units and Time: Sets the date and time format.

Voice Commands: Allows you to enable or disable the voice control feature and set the language for voice commands.

About Device: Lists the camera software version and unit ID.

Check for Updates: Allows you to check for, download, and install firmware updates for the camera.

Format SD Card: Formats the memory card and deletes all videos, photos, and data on the card.

Restore Defaults: Restores the device to factory default settings, and unpairs the device from the Garmin Drive app.

NOTE: This option does not delete recorded photos or videos. Photos and videos are stored on the memory card. If you need to delete all photos and videos, you can format the memory card.

Forget Device: Unpairs the device from the Garmin Drive app.

Video Resolution Settings

You can set the quality of exterior video recorded by the camera. The video quality setting includes the resolution, frames per second (FPS), and high dynamic range (HDR) image processing.

Resolution is the width and height of the video in pixels. FPS is the number of video frames captured each second. HDR combines multiple exposure levels for each video frame and can improve clarity in high contrast or low-light conditions. Settings with a higher resolution or FPS require more memory card space.

NOTE: The interior lens always records at 720p resolution (1280 × 720 pixels) and 30 fps, and it does not support HDR image processing.

Select **Settings** > **Camera** > **Front** > **Quality**.

Setting	Resolution	Lens
1440p, 30fps, HDR	2560 × 1400 pixels	Front/exterior
1080p, 30fps, HDR	1920 × 1080 pixels	Front/exterior
720p, 30fps	1280 × 720 pixels	Rear/interior **NOTE:** The interior lens always records at a video quality of 720p, 30fps.

Renaming a Camera

You can change the name of your camera to help differentiate it from other cameras in a multiple camera network.

1. Select ⚙.
2. Select a camera.
3. Select **Camera Setup**.
4. Select a camera name from the **Camera Name** field.

   TIP: You can select Custom to enter a custom camera name.

Device Information

Memory Card Specifications

The camera requires a memory card with these specifications. Go to garmin.com/dashcamcards to view a list of recommended memory cards.

Type	microSDHC or microSDXC
Capacity	8 GB or greater
Speed class	Class 10 or higher
File system	FAT32

Removing the Memory Card

NOTICE

Removing the memory card while the camera is turned on can result in a loss of data or damage to the camera.

1. Disconnect the power cable from the camera.
2. Wait for both status LEDs to turn off.
3. Press the memory card in until it clicks.
4. Release the card.

   The card ejects from the slot.

Installing a Memory Card

To record video, you must install a compatible memory card (*Memory Card Specifications*, page 5).

1. Insert the memory card ① into the slot ②.



2. Press it in until it clicks.

Formatting the Memory Card

The device requires a memory card formatted using the FAT32 file system. You can use the device to format your card using this file system. You should format your memory card at least one time every 6 months to help extend the useful life of the memory card. You must also format a brand new memory card if it is not formatted using the FAT32 file system.

NOTE: Formatting the memory card deletes all videos, photos, and data on the card.

1. Connect the camera to power using the included vehicle power adapter and a USB cable.

   The camera turns on. If the memory card is not correctly formatted in FAT32 format, the status LED flashes yellow.
2. Hold for eight seconds.

   The status LED flashes green while the card is formatting.

When formatting is complete, the status LED turns red and the camera begins recording.

Cleaning the Camera Lenses

NOTICE

Avoid chemical cleaners and solvents that can damage plastic components.

You should clean the camera lenses regularly to improve the quality of recorded video.

1. Wipe each lens with a non-scratch lens cloth, optionally dampened with isopropyl alcohol.
2. Allow the lenses to air dry.

Removing the Camera Mount from the Windshield

The adhesive mount is intended for a long-term installation and can be difficult to remove.

1. Firmly grip the mount.
2. Pull the mount up and away from the windshield, applying steady pressure until the adhesive releases from the windshield or mount.
3. Remove all remaining adhesive from the windshield and mount.
4. Clean the windshield and mount.

   You can replace the adhesive on the mount (*Replacing the Adhesive on the Mount*, page 6).

Replacing the Adhesive on the Mount

You can replace the adhesive disc on the mount to install the device in a new location. Your device includes one extra adhesive disc. Go to https://buy.garmin.com to purchase additional adhesive discs.

1. If necessary, remove the adhesive from the mount.
2. Clean the mount.

   The mount must be free of dust, wax, oils, or coatings.
3. Remove one side of the protective film from the new adhesive disc.
4. Position the adhesive disc over the mount.

   TIP: The adhesive is extremely sticky. Do not touch the adhesive disc to the mount until it is properly aligned.
5. Press the adhesive firmly onto the mount, and maintain pressure for 30 seconds.
6. Install the camera mount onto your windshield (*Installing the Camera on Your Windshield*, page 1).

Updating Your Device Using the Garmin Drive App

The Garmin Drive app notifies you when a software update is available for your device.

1. In the Garmin Drive app, select **Install Now**.

   The software update is sent to your device. You are notified when the transfer is complete.
2. Disconnect the device from power until the device turns off.
3. Connect the device to power.

   The device installs the software update.

   NOTE: Footage is not recorded while the software is updating.

Product Updates

On your computer, install Garmin Express™ (www.garmin.com/express).

This provides easy access to these services for Garmin devices:

- Software updates
- Product registration

Setting Up Garmin Express

1. Connect the device to your computer using a USB cable.
2. Go to garmin.com/express.
3. Follow the on-screen instructions.

Specifications

Operating temperature range	From -20° to 80°C (from -4° to 176°F)
Wireless frequencies	2.4 GHz @ 9 dBm

Appendix

Parked Video Recording

NOTICE

Due to privacy regulations, this feature is not available in all areas. It is your responsibility to know and comply with applicable laws and rights to privacy in your jurisdiction.

Before you can record videos while parked, you must connect your camera to the Dash Cam parking mode cable accessory (*Connecting the Parking Mode Cable Accessory to Power*, page 7).

The parked video recording feature allows the camera to record video automatically while your vehicle is parked. When you turn off your vehicle, the camera enters parked recording mode and automatically records video each time the camera sensor detects motion.

Parking Mode Cable Wiring Diagram



Item	Wire Color	Wire Function
①	Black	Ground
②	Yellow	Battery 12 V
③	Red	Accessory 12 V

Connecting the Parking Mode Cable Accessory to Power

⚠ CAUTION

Garmin strongly recommends having an experienced installer with the proper knowledge of electrical systems install the device. Incorrectly wiring the power cable can result in damage to the vehicle or the battery and can cause bodily injury.

1. Route the parking mode cable accessory to a location in the vehicle with constant power, switched power, and a ground connection.
2. Connect the **BATT** wire to a constant power source.
3. Connect the **ACC** wire to a switched power source.
4. Connect the **GND** wire to the bare metal of the vehicle's chassis using an existing bolt or screw.
5. Plug the parking mode cable accessory into the USB port on the camera.

Troubleshooting

My camera feels warm while it is operating

Garmin dash cameras are designed for the automotive environment. It is normal and expected for the products to become warm or hot and remain safe for use in warm climates with full sun exposure. The temperature of the device itself can exceed the specified maximum operating ambient temperature for the device and remain safe for use. Always follow the device use and care instructions contained in the product manual.

My memory card has degraded and needs to be replaced

All microSD® memory cards wear out after they are overwritten a large number of times. Periodically formatting the card can extend the useful life and improve performance. Because the dash camera records continuously, you may need to replace the memory card periodically (*Installing a Memory Card*, page 6).

Your device detects memory card errors automatically and alerts you when it is time to format or replace your memory card.

You can take these actions to help extend the useful life of the memory card.

- Format the memory card at least one time every six months (*Formatting the Memory Card*, page 6).
- If the device displays a memory card error alert, first try formatting the memory card (*Formatting the Memory Card*, page 6) and then, if necessary, replace the memory card (*Installing a Memory Card*, page 6).
- Turn off the device when your vehicle is not in use.

  If your device is not connected to an ignition-switched vehicle power outlet, you should turn off the device when your vehicle is not in use to prevent the dash camera from recording unneeded footage.
- Use a memory card with a higher storage capacity.

  Because higher-capacity memory cards are overwritten less frequently, they usually last longer.
- Use a high-quality memory card with a speed rating of class 10 or higher.
- Purchase your replacement memory card from a high-quality manufacturer and a reputable vendor.

My video recordings are blurry

- Clean the camera lens (*Cleaning the Camera Lenses*, page 6).
- Clean the windshield in front of the camera.
- Verify the area of the windshield in front of the camera is cleared by the windshield wipers, and move the device, if necessary.

My video recordings are choppy or incomplete

- For the best camera and video results, use a high-quality memory card with a speed rating of class 10 or higher. Go to garmin.com/dashcamcards to view a list of recommended memory cards.

  A slower memory card may not record video quickly enough.
- If you are viewing videos on your smartphone using a wireless connection to the camera, try viewing them in another location with less wireless interference, or try transferring videos to the smartphone (*Editing and Exporting a Video*, page 4).
- Transfer important recordings to a computer or smartphone, and format the memory card (*Formatting the Memory Card*, page 6).
- If the device displays a memory card error alert, first try formatting the memory card (*Formatting the Memory Card*, page 6) and then, if necessary, replace the memory card (*Installing a Memory Card*, page 6).
- Update your device to the latest software (*Product Updates*, page 6).

Index

B
Bluetooth technology, pairing a phone **2**

C
camera, renaming **5**
cameras, dash cam **6**
cleaning, device **6, 7**
computer, connecting **4**

D
dash cam **7**
  memory card **6**
  recording audio **3**
  recording video **3**
device overview **2**

E
event detection **3**

G
Garmin Express **6**
  updating software **6**

L
language **4**
LED **2**

M
memory card **5–7**
  installing **6**
microSD card **5–7**
mount **6**
  removing, removing mount **6**
mounting, windshield **1**
multiple cameras **4, 5**

O
operating temperature **7**

P
pairing, phone **2**
parking mode cable **7**
phone, pairing **2**
photos, viewing **4**
power key **2**

R
resolution **5**

S
settings **5**
setup **1**
smartphone features, connecting **2**
software, updating **6**

T
troubleshooting **7**

U
updating software **6**

V
video
  deleting **4**
  editing **5**
  live **3**
  photos, viewing **3**
  playing **3, 4**
  quality **7**
  recording **3, 7**
  saving **4**
voice control **4**
  tips **4**

December 2019
190-02630-00_0A