RÄZO

DC5000A

d'Action360 S

Detailed Instruction Manual

No.91H06A

⚠ The memory card Cautions

- **Please only use the d'Action genuine microSD card (sold separately, Product No. DC3A /4A/5A). Using a different microSD card may result in errors occurring in recorded image or sound.**
- To prevent possible damage to the memory card, do not remove the memory card during data backup, formatting, while resetting your PC system or during operation.
- Ensure to back up important data on other devices. Some data on the memory card may be overwritten during use.
- To prevent possible malfunction, do not store data that has been saved on a device other than this Product.
- Always check the orientation of the memory card; inserting it in the wrong orientation may lead to breakage or malfunction.
- Before removing the memory card, ensure the power is switched off. Removing it while the power is on may cause breakage of the card and/or corruption of data.
- If the memory card has become hot after using it for long amount of time, to avoid potential burns, do not allow it to come into direct contact with your skin.
- The memory card is a consumable. We recommend that you should replace the memory card every one and a half years.

  *The memory card lifetime provided above in the case you use the camera for 2 hours per day. The lifetime differs depending on usage environment.

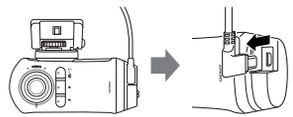
What to do after an accident

We recommend that you carry out one of the following procedures so that the video data recorded at the time of the accident is not overwritten.

⚠CAUTION Move to a safe place, and turn off the engine before you take these measures.

- **Remove the power cable from the camera body**

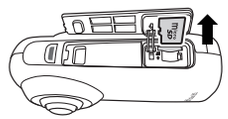
  Turn off the camera's power so that data from the time of the accident is not overwritten.



- **Remove the memory card from the camera body**

  Replace the memory card, or back up the video data recorded onto the memory card to another device.

  *Please be careful with handling the removed memory card. (See p. 13)



Introduction

►About this manual

Thank you for purchasing d'Action 360 S.
This instruction manual is your guide book to using the d'Action 360 S (hereinafter "Product").
To use this Product properly and safely, please read and understand the contents of this manual prior to use.
After reading, please keep this manual nearby for future reference or troubleshooting.

►Disclaimer

Please note that Car Mate takes no responsibility for any loss arising from the use or failure of this Product, or from any damage to any recorded video and/or data.
Appearance or specifications may change without notice.
Manufacturer is not responsible for any loss or damage caused by the modification or misuse of this Product.

d'Action 360 S features

►Records in all directions using two 360°lenses

In the unlikely event of an accident, the dual 360° lenses allow you to record from forward-facing and rear-facing perspectives, as well as side views and driver footage.

►Dual-recording function to clearly capture the road ahead

In addition to "360°x360° View" recording, the camera simultaneously records footage from in front of the vehicle in high definition (approximately 2.0 megapixels).
Front recording is enabled both in Drive Mode and during Continuous recording mode in Parking Mode. (Go to page 21 for operational modes.)

360°x360° View Recording

Front Recording

d’Action 360 S features

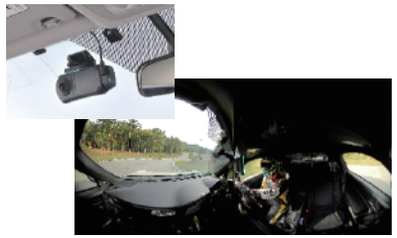
Four operational modes

Drive Mode

In Drive Mode, the camera is installed in your car to use as a dash cam. By turning on your car engine, the camera automatically switches on to begin Continuous Recording.

Drive Action Mode

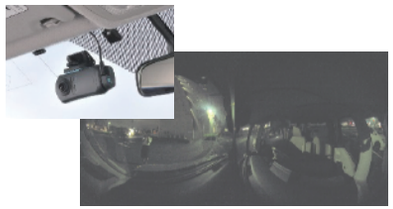
In Drive Action Mode, the camera acts as a car-mounted video camera, allowing you to enjoy recording activities manually.
Drive Mode can be switched to Drive Action Mode either by pressing and holding the record button, or by using the d’Action 360 S app.



Parking Mode

*Optional add-on (DC201A) is required.

In Parking Mode, the camera is used to keep your car under surveillance while the car engine is turned off. Parking Mode will activate approximately one minute after the car engine is turned off.



Action Mode

*Optional add-on (DC101A) is required.

In Action Mode, the camera can be taken outside the car to use as a portable camera. Attach the battery pack (Battery Option DC101A) and press and hold the switch button to start the camera in Action Mode.

d’Action 360 S features

►Play back recorded data with your PC or smartphone

You can play back recorded data saved on the memory card by using the d’Action 360 S app for smartphone, or the d’Action 360 S software for PC.Please check the website below for details on the most up-to-date list of supported devices, or downloads.

https://razo-usa.com

Download on the App Store

Get it on Google play

►Other features

*Anti-theft warning LED light: Lights up when an impact is detected while the camera is set to Parking Mode
*Built-in GPS to determine vehicle speed and allow geotagging

►Optional add-ons

*Battery Option（DC101A）: Contains a battery pack and a lens cover.
Used in Action Mode, allowing you to take the camera outside of the car to use as a portable camera.
*Parking Option（DC201A）: A wiring unit for Parking Mode which keeps the camera operating even while the car engine is turned off. This allows you to keep both the inside and outside of your parked car under 360° surveillance.
*d’Action genuine microSD cards 32/64/128GB（DC3A/4A/5A）: Genuine microSD cards for d'Action 360 S and d'Action 360

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Using this Product safely

In order to use this Product safely and prevent any damage that might be caused to you and surrounding people and property, please ensure to read this manual carefully before use.

Cautionary symbols

Graphic symbols are used in this manual to indicate cautionary matters, based on both the level of seriousness and the subject matter. Please ensure a thorough understanding of what each symbol represents before reading.

!	If the Product is handled improperly, possibility of death or serious injury is anticipated.
⚠	If the Product is handled improperly, possibility of injury or property damage is anticipated.
⊘	Improper handling of the Product may be regarded as violation of the law.
☜	Useful tips to know when handling the Product.

For your safety, please follow the below instructions

! Do not use this Product if it is broken, not working, or shows any other signs suggesting an abnormality. To prevent possible accidents or fire from occurring, stop using the Product immediately if you notice any smoke, abnormal noises, or abnormal smells, etc.

! Check the Product is securely installed before driving your car. A Product that has detached or fallen down may result in injury or accidents occurring.

! Do not suddenly accelerate or make any sharp turns for the sole purpose of checking the performance of the Product. Operating your vehicle in such a way may lead to injury or accidents.

! Do not use the Product where it is prohibited, such as in hospitals or on an aircraft. The Product may cause pacemakers and other electronic medical devices to malfunction.

⚠ Keep the power cable and terminal portions clean, wiping away any dust or dirt that may have gathered. Dust and dirt can prevent secure electrical contact, which may lead to electric shock or fire.

⚠ If you are not planning on using the Product for a long period of time, unplug the power cable from the camera body. Electric discharge from the vehicle battery or fire may occur. Additionally, fire or product failure may occur if the Product has been left in a closed space, in the hot sun, or in high temperatures for an extended period of time.

⚠ This product is not dustproof, rainproof, or waterproof. To prevent electric shock, fire, or product failure, do not touch it with wet hands, and keep it away from water and other foreign matter.

Using this Product safely

⚠ This Product operates using the same frequency band (2.4GHz band) as the following instruments or radio stations:
(1) Industrial, scientific, or medical devices/appliances such as microwave ovens.
(2) Private, licensed radio stations to identify and track electronic tags, used for example, on factory production lines.
(3) Specific low-power radio stations (stations permitted to operate without a license)

⚠ Using this Product may cause radio-frequency interference (RFI) with the above-mentioned instruments and/or radio stations.
1. Before use, ensure there are none of the above-mentioned instruments or radio stations in operation around the Product.
2. Stop using the Product immediately if it may cause any radio-frequency interference to any private, licensed radio station as described above in (2).

⚠ Do not use the Product if condensation (water droplets) has formed on the inside. Condensation is more likely to form when the Product is moved from a low temperature environment to a high temperature environment, and may cause the Product to malfunction or heat up.

⚠ Do not drop or apply excessive force to the Product.

⚠ To prevent product failure or the loss of data, do not place the Product near magnetic objects.

⚠ Do not insert metal items such as pins or needles, directly into holes or gaps in the Product. Doing so may result in product malfunction or electric shock.

⃠ Do not operate the Product while you are driving. Doing so may lead to accidents, and certain laws prohibit the handling of any such devices while operating a vehicle.

⃠ This Product is for use only in Japan, the US, and Hong Kong. Please be aware that the use of this Product may be illegal in some countries outside of those listed above.

⃠ To prevent electric shock, fire, or product failure, do not disassemble, attempt to repair, or alter this Product in any way.

⃠ Do not remove the compliance certificate label pasted on the Product. Use of an unlabeled Product is prohibited by law.

Installing the Product

❗ Do not mount the Product or route its cables around areas where operation of the vehicle's airbags may be obstructed. In the event of car crash, the airbag may not work properly, or lead to an accident /injury upon inflating.

⃠ Install this Product properly according to this manual or the included Mounting Guide. Keep the camera body attached to the mount while driving and during inspection. Car products mounted incorrectly may not only be regarded as a violation of your local traffic laws, but may further lead to road accidents. Please follow the local and state laws.

☜ Radio-frequency interference may occur with other electrical devices such as the radio or vehicle GPS systems. If such interference occurres, change the installation location.

Using this Product safely

Powering the Product

⚠ The power socket included with the camera is designed specifically for d'Action 360 S (DC5000). Do not use this power socket for charging smartphones, tablet computers, d'Action 360 Battery Option (sold separately) or other USB devices.

⚠ Use the power socket alone. Overloading or splitting the connection may lead to the abnormal generation of heat or fire.

⚠ Hold the connector portion of the power cable when unplugging. A damaged power cable may cause electric shock or fire.

⚠ This Product is only to be used with DC 12V/24V negative-earth vehicles. Using this Product with other vehicles may result in product malfunction.

☜ This Product automatically switches between its four operational modes by recognizing its electric power supply source. Ensure you use only the add-on accessory products included in this Product, or those sold separately. Some third-party USB cables and USB power sockets may not be compatible with this Product.

☜ Some cars (such as those imported from overseas) are designed to keep supplying electrical power to their cigarette lighter receptacle, even with the engine turned off. If your car falls into this category, unplug the Product when the engine is turned off.

☜ After the camera body is switched on, it may take up to approximately 10 seconds to begin recording.

☜ In some cars with a start-stop system, the supplied voltage may be reduced in order to restore the electric power for restarting the engine. Due to this, the power supply to this Product may be stopped.

The camera body

⚠ To prevent possible deformation or fire from occurring, do not leave the camera body in areas where temperatures can rise quickly, such as on the dashboard.

⚠ If the camera body has become hot after using it for long amount of time, to avoid potential burns, do not allow it to come into direct contact with your skin.

⚠ To prevent product failure, do not touch the terminals on the camera body.

⚠ When cleaning the camera body, do not use solutions containing abrasive compounds, alcohols, or organic solvents.

⚠ To prevent product failure, avoid exposing the camera lens to direct sunlight for long periods of time.

☜ If the surface of the lens has collected dirt, sand, fingerprints, etc., clean it using the included lens cleaning cloth, or a cloth that is dry, clean and lint-free.

☜ Due to the characteristics of the electrical components of this Product, the surface/internal temperatures of the camera may increase depending on the conditions of use. When the ambient temperature exceeds the operating temperature range, Product operation will be stopped for protection.
If Product operation is stopped, resume operation once the camera temperature has decreased.

Using this Product safely

GPS (Global Positioning System)

- The actual position of your car is determined by microwave signals broadcast from GPS satellites. Without receiving such signals, the precise position and the speed of your car cannot be determined.
- Depending on the ambient environment or geographical factors, this product may not be able to adequately receive GPS signals or receive GPS signals at all.
- GPS satellites are controlled by the U.S. Department of Defense and their accuracy is subject to change without prior notice.
- Do not use this Product near other GPS products. Doing so may cause such products/units and this Product to malfunction.
- Using this Product near a TV antenna may cause a deterioration in the reception sensitivity, flickering and/or noise from the TV set.
- In order to receive clear GPS signals, do not place obstructive items around the Product.
- When the Product is switched on, it may take time until it starts receiving GPS signals. Allow between 30 seconds to a few minutes, depending on the signal reception environment, weather, vehicle conditions, and position of the Product.
- GPS signal reception may be hindered if the front windshield of your car has been surface-treated with a coating, etc.

Recording images, video and data

- Do not use the recorded images, videos and/or data for illegal purposes.
- In some cases, your recorded images, video and/or data may constitute an infringement on the legal rights of a third party. Car Mate takes no responsibility for any matters with regard to, and arising from, the content of the images, videos and/or data recorded on this Product.
- This Product is not guaranteed to produce valid evidence as proof for any accidents, or to identify any license plate, model or color of any vehicle.
- This Product is not guaranteed to record in all circumstances. Car Mate takes no responsibility for any loss arising from the use or failure of this Product, or from any damage to any recorded video and/or data.
- Blinking or discoloration may make it difficult to distinguish between recorded LED traffic lights.
- Recording performance and time may vary depending on the object being recorded or on the ambient environment.
- Depending on the recording subject or the installation condition, recorded footage may suffer from a drastically darkened image, or repeated flickering.
- Keep the camera lens surface and all car windows clean. Irregular light reflection and refraction caused by dust and other foreign matter may affect recording quality.
- To record in highest possible quality in darkness, ensure to turn on the headlights or fog lights of your car.

Copyright

- According to copyright law, you cannot use recorded images, videos and/or data without permission of their right holder for any purposes other than your own personal use. If you plan to use this Product at live demonstrations, shows or exhibitions, follow the rules of the organizers.

Using this Product safely

The memory card

- ⚠ Please only use the d'Action genuine microSD card (sold separately, Product No. DC3A/4A/5A). Using a different microSD card may result in errors occurring in recorded image or sound.
- ⚠ If the memory card has become hot after using it for long amount of time, to avoid potential burns, do not allow it to come into direct contact with your skin.
- ⚠ To prevent product failure, do not touch the memory card with oily or wet hands.
- ⚠ To prevent the possible corruption of data or damaging the memory card, do not remove the memory card during data backup, formatting, while resetting your PC system or during operation.
- ⚠ To prevent possible memory card failure and loss of data, do not drop or apply excessive force to the memory card.
- ⚠ To prevent possible breakage, failure and malfunction of the memory card, do not insert any foreign objects into the slots, and do not touch the terminal portion of the Product.
- ⚠ Insert the memory card in the correct orientation until it clicks in place. To avoid damaging the memory card, do not insert it forcibly.
- ⚠ To prevent possible product failure, do not switch off the camera, unplug the power cable nor detach the add-on battery pack (sold separately) while updating the camera body.
- Initialize (format) your memory card on the camera body when:
  - Using a brand-new memory card for the first time.
  - Using a memory card that has been formatted on another camera or computer.
  - It appears that reading and writing speeds have slowed down.
  - You wish to delete all the data on the memory card.
- Memory cards are expendable supplies. After using it a certain number of times, normal recording may be impeded due to breakage in part of its memory sector.
- Ensure to back up important data on other devices. Data stored on a memory card may be overwritten or deleted.
- Store your memory cards in a dry, cool place.

Security Mode

- ⚠ Please ensure to connect the Parking Option (DC201A) to the camera to be used in Parking mode. To avoid possible drainage of your car battery or malfunction, DO NOT use any other third-party cables to connect directly to the power source.
- Car Mate takes no responsibility for any damage or loss arising from the drainage of your car battery while using the Product in Security mode.

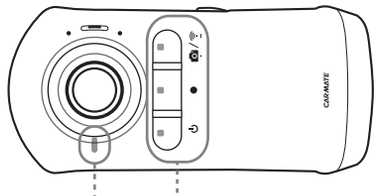
Sticker

- Sticker positioning on vehicles must comply with road safety standards. Please follow the local and state laws. To ensure strong adhesion, clean the surface prior to placing the sticker. Please take care when sticking onto a painted surface.

Included Accessories

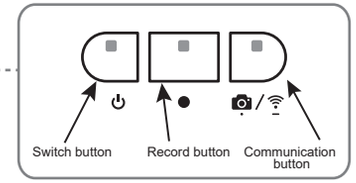
Check all the contents prior to use.

●Camera body



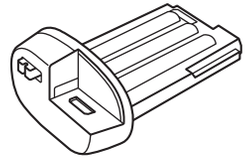
●Cap

*Keep this cap in a safe place; this is used in Drive Action Mode (requires the Battery Option DC101A, sold separately).



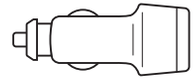
●Mount

●Capacitor



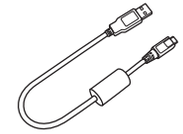
●Power cable (4m = 13.1 ft)

●Power socket (12V/24V)

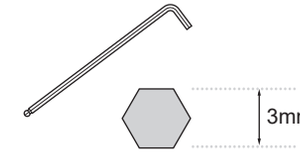


Included Accessories

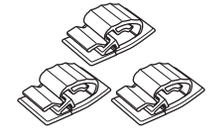
●Communication cable (0.3m)



●Hex key

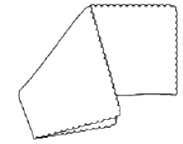


●Cable clip x 3



●Sticker

●Lens cleaning cloth



●Product information:
“Quick Start Guide”
“Quick Reference Guide”
“Using this product safely”

●Cleaning wet wipe x 2

●Extra double-sided tape x 2
*Used for re-taping, or for mounting in a different vehicle

⚠CAUTION

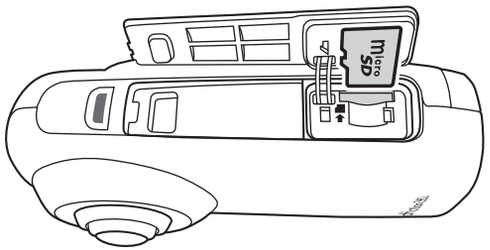
No memory card is included with this Product.
Please purchase a genuine microSD card (DC3A/4A/5A, sold separately).

Preparation

►Inserting the memory card

Open the cover on the camera body. Firmly insert the memory card in the correct orientation until it clicks into place.
Press the cover evenly to put it back on.

<Removing the memory card>
When removing the memory card, push it in until you hear a click, and release to allow a portion of the memory card to emerge from the camera body. Slowly pull out the pushed-out portion to remove the memory card.



⚠CAUTION

- ●To prevent possible damage to the memory card, do not remove the memory card during data backup, formatting, while resetting your PC system or during operation.
- ●Ensure to back up important data on other devices. Some data on the memory card may be overwritten during use.
- ●To prevent possible malfunction, do not store data that has been saved on a device other than this Product.
- ●Always check the orientation of the memory card; inserting it in the wrong orientation may lead to breakage or malfunction.
- ●Before removing the memory card, ensure the power is switched off. Removing it while the power is on may cause breakage of the card and/or corruption of data.
- ●If the memory card has become hot after using it for long amount of time, to avoid potential burns, do not allow it to come into direct contact with your skin.

Mounting the camera

►Required items

- ●All items included with this Product (The cap is required for using DC101A).
- ●Memory card (Insert a genuine d'Action microSD card DC3A, DC4A, or DC5A, into the camera prior to mounting the camera)
- ●A smartphone (Install the d'Action 360 S app prior to mounting the camera)

►Install the d'Action 360 S app on the smartphone

For mounting this Product and playing back the recorded video and images, installation of the d'Action 360 S app is required.
Visit the App Store or Google Play to install the d'Action 360 S app.

*Confirm you have a compatible smartphone.
Please check our website for the most up-to-date list of supported devices.
Visit : https://razo-usa.com

d'Action 360 S (iOS)

Download on the App Store

d'Action 360 S (Android)

Get it on Google play

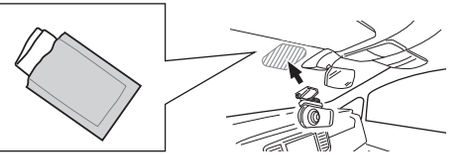
►Mounting the camera

Please follow the mounting instructions below:

1. Insert the capacitor and attach the mount to the camera
2. Start the car engine and switch on the camera
3. Connect the camera to the smartphone
4. Determine a suitable mounting position and turn angle by referring to the real-time viewer on the smartphone
5. Determine and fix the bracket angle and attach the mount to the windshield.

⚠CAUTION

- ●Before attaching the mount, wipe dirt and oil off the windshield using the cleaning wet wipe.



6. Stop the car engine and connect the cables

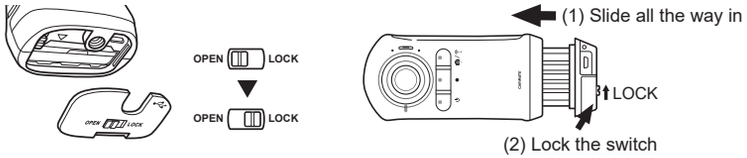
Mounting the camera

1. Insert the capacitor and attach the mount to the camera.

1-1. Unlock the cap to remove it from the camera body.

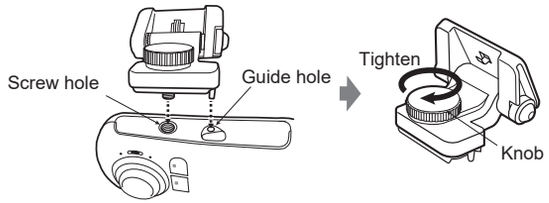
*Keep the cap in a safe place; this is used in Driving Action Mode (requires the Battery Option DC101A).

1-2. Insert the capacitor into the camera and lock the switch.



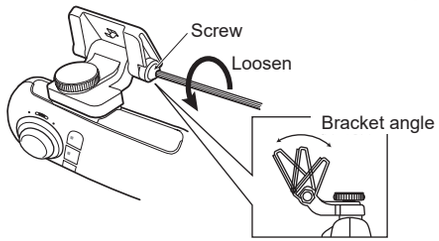
1-3. Attach the mount to the camera.

(1) Align the screw hole and the guide hole (2) Turn the knob to tighten

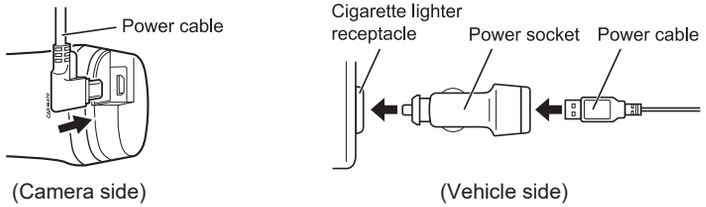


*When detaching the camera from the mount, carry out (2), then (1).

1-4. Loosen the screw on the mount using the hex key to allow for adjustment of bracket angle.



1-5. Connect the power cable to both the vehicle and the camera.

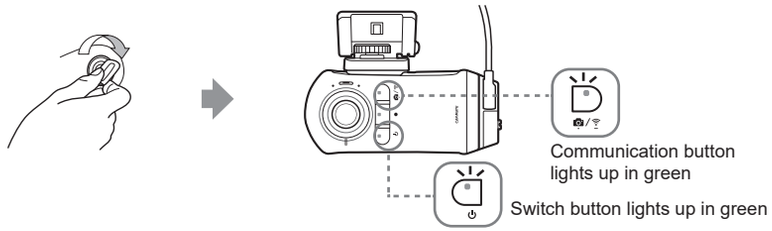


*If you are using Parking Option (DC201A), attach and connect this add-on to the camera prior to this set of mounting steps.

Mounting the camera

2. Start the car engine and switch on the camera.

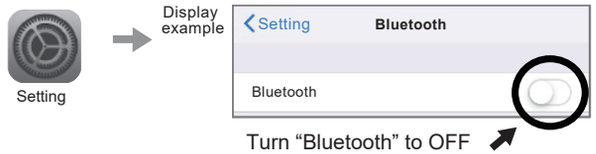
2-1. Start the car engine. Check that ⏻ button and 📷/📶 button light up.



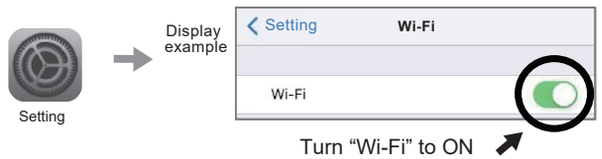
3. Connect the camera to the smartphone.

3-1. Turn “Bluetooth” to OFF under settings on the smartphone.

*Switching “Bluetooth” to OFF stabilizes the wireless LAN connection.



3-2. Turn “Wi-Fi” to ON under settings on the smartphone.



3-3. Select the SSID starting with “dAction360,” and enter the password.

<Default settings>
SSID: dAction360_xxxxxxxx
Password: 12345678

*You can create your own SSID and password.

Display example

Mounting the camera

4. Determine the mounting position and bracket angle by checking the real-time view image on your smartphone.

4-1. Checking the mounting position

*Install the Product properly according to this manual. Car products mounted incorrectly may be regarded as a violation of your local traffic laws. please follow the local and state laws.

When mounting the camera, ensure to meet all the below requirements.

- ●The camera is mounted within the upper 20% portion of the windshield. (Fig.1 on page 17)
- ●The mounted camera does not interfere with the driver's vision and operation of the vehicle.
- ●The mounted camera does not block the rearview mirror, or obstruct the vehicle's airbags.
- ●The camera is mounted so that its lens is within the wiping range of the windshield wipers.
- ●The taped part of the camera does not overlap any heated wire printed on the windshield or antennae.
- ●If additional security or safety cameras are already in place, the camera to be mounted should not be within the view of such camera.
- ●No cable or metallic objects should be between the front windshield and the GPS antenna (Fig.2 on page 17).

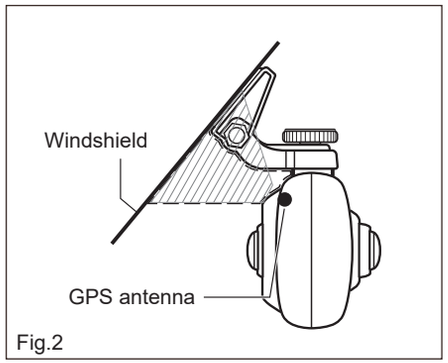


Fig.2

<Example of a mounted camera>

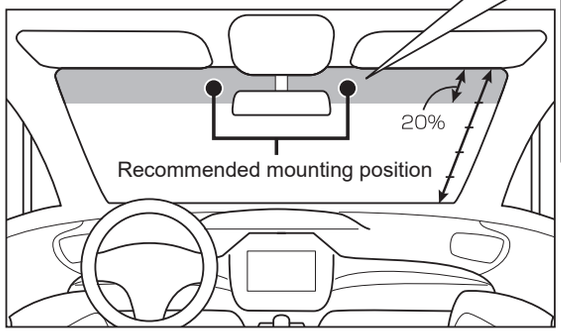


Fig.1

Mounting the camera

4-2. Open the d'Action 360 S app and start the real-time viewer.

4-3. Determine a suitable mounting position and bracket angle by referring to the 360°x 360° real-time viewer.

<Original>

2 Tap the angle cut

1 Tap the view button

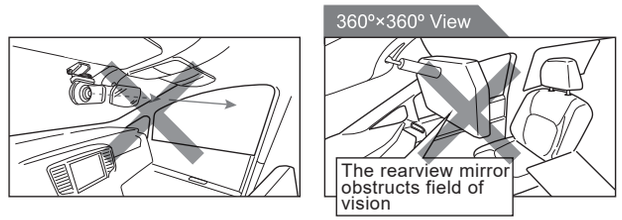
<Angle-cut>

3 Swipe the screen to check the image

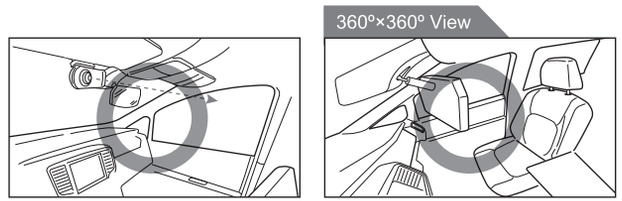
[Check points]

●Do not mount near items that affect the camera's field of vision.

(Undesirable example: Near the rearview mirror)



(Desirable example: Side view is clear)



Mounting the camera

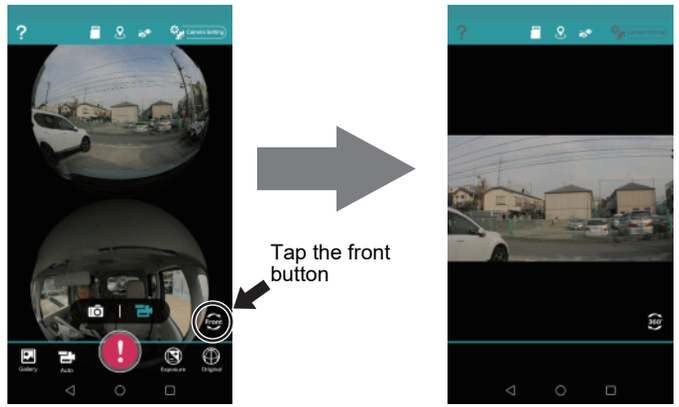
4-4. Determine a suitable mounting position and bracket angle by referring to the front real-time viewer.

⚠CAUTION

While you are displaying Front View video, the camera will stop recording.
As such, please do not drive while doing this.

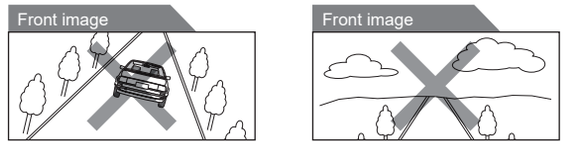
<360°x 360° View>

<Front View>

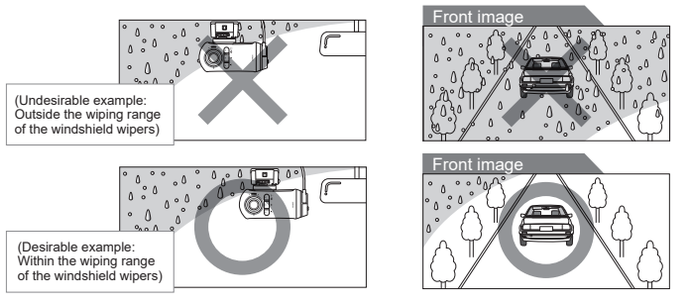


[Check points]

●This is the range within which a clear image is recorded in the frontal view. Check that the desired recording range is in clear view in the frontal view. (Undesirable example: Image is slanted, or pointed up too high)



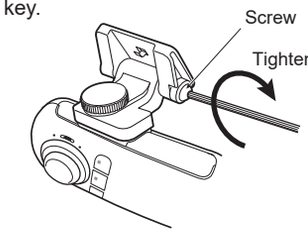
●Ensure that the frontal view falls within the wiping range of the windshield wipers.



Mounting the camera

5. Set the turn angle and affix the mount

5-1. After determining a suitable bracket angle, lightly tighten the screw on the mount using the hex key.



Use the ball-point end of the hex key to lightly tighten.

5-2. After determining a suitable mounting position, clean the taped surface.

⚠CAUTION

●Before attaching the mount, wipe dirt and oil off the windshield using the cleaning wet wipe.

●If you reapply the mount using the extra double-sided tape (included with the camera), wipe off any residual adhesive from the mount using the cleaning wet wipe before reapplying.

5-3. Affix the mount

Stop the car engine and temporarily remove the camera from the mount. Stick only the mount to the windshield.

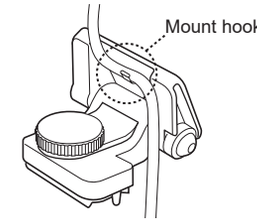
*Leave for at least 24 hours to allow the adhesive to strengthen. Do not reposition this product, as doing so will decrease adhesive strength.

*Please do not drive your car before the camera body is attached to the mount.

6. Stop the car engine and connect the cables

6-1. Attach the camera to the mount and connect the power cable.

*When the mounting position is away from the upper portion of the windshield, place the power cable through the mount hook for neat and easy mounting.



6-2. Securely tighten the screw on the mount using the hex key.

Use the hexagonal end (short end) of the hex key to securely tighten the mount.

6-3. Finish connecting the cables and wipe the lens portion clean using the lens cleaning cloth.

*During the mounting steps, the camera lens portion may attract fingerprints. Once installed, wipe it clean.

Recording in different operational modes

Please note, each of the four operational modes have different recording mode(s) that can be used.

Drive Mode: See page 22 for more details

Continuous recording Overwritable	360°x 360° + Front	The camera continuously records footage upon starting the car engine until it is turned off.
Impact recording Overwritable	360°x 360° + Front	When the camera detects an impact, it saves recorded footage before and after the impact.
Manual recording	360°x 360° + Front	By pressing ● button, the camera saves recorded footage from before and after the button is pressed.
Still Image capture	360°x 360° + Front	By pressing 📷/📶 button, the camera captures one still image.

Drive Action Mode: See page 24 for more details

Manual recording	360°x 360°	By pressing ● button, the camera records footage until the same button is pressed again.
Still Image capture	360°x 360°	By pressing 📷/📶 button, the camera captures one still image.

Parking Mode: See page 26 for more details

Parked Continuous recording Overwritable	360°x 360° + Front	The camera continues to record footage up to 30 minutes after stopping the car engine.
Parked Impact recording (Impact Mode) Overwritable	360°x 360°	When the camera detects an impact while the car is parked with the car engine off, it records the footage before and after the impact
Parked Impact recording (Energy Saving Mode) Overwritable	360°x 360°	When the camera detects an impact while the car is parked with the car engine off, it records the footage after the impact.

Action Mode: See page 30 for more details

Manual recording	360°x 360°	By pressing ● button, the camera records footage until the same button is pressed again.
Still Image capture	360°x 360°	By pressing 📷/📶 button, the camera captures one still image.

Overwritable : When the folder becomes full, the most recently saved file overwrites the oldest file.

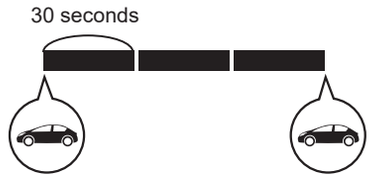
Recording in different operational modes

Recording in Drive Mode

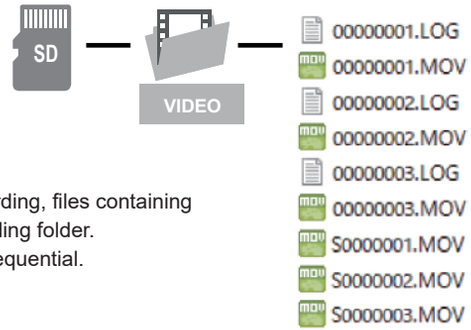
By turning on your car engine, the camera is automatically switched on to begin Continuous recording.
*It will take up to 10 seconds to begin Continuous recording after the camera is switched on.

►Continuous Recording

The camera records video continuously from the moment the car engine is turned on until it is turned off.
One file is recorded every 30 seconds. When the folder becomes full, the most recently saved file overwrites the oldest file.



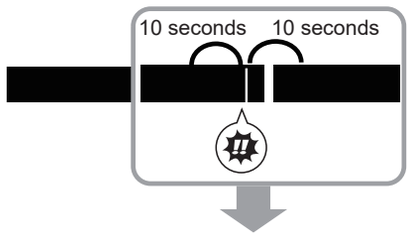
<Example of file storage>



*When using Impact recording and Manual recording, files containing recorded data move from the Continuous recording folder.
As such, file numbers may not necessarily be sequential.

►Impact Recording

When the camera detects an impact, it records up to two files containing 10 seconds of footage from before, and 10 seconds of footage from after the impact. Note that the file(s) automatically moves from the Continuous recording folder before the camera starts recording.
When the folder becomes full, the most recently saved file overwrites the oldest file.



<Example of file storage>

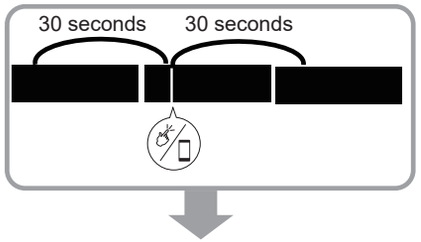
*Manual recording supersedes Impact recording; in Manual Mode, the camera will not record any footage even if an impact is detected.

Recording in different operational modes

Recording in Drive Mode

►Manual recording

Either by pressing ● button on the camera body or by using the d'Action 360 S app on your smartphone, the camera records up to three files containing 30 seconds of footage from before, and 30 seconds of footage from after pressing the button or the smartphone operation.
Note that the file(s) automatically moves from the VIDEO folder before the camera starts recording.
When the folder becomes full, the camera will stop recording.



<Example of file storage>

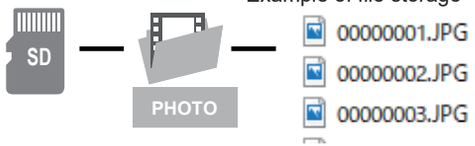
The File(s) moves to MANUAL folder

*While Impact recording is in progress, you cannot start Manual recording.

►Still Image Capture

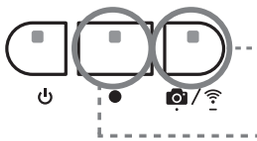
Either by pressing 📷/Wi-Fi button on the camera body or by using the d'Action 360 S app on your smartphone, the camera captures one still image.
While the folder is full, you cannot capture any more still images.

<Example of file storage>



*You cannot capture any still images while Manual recording is in progress.
*When capturing a still image, Continuous recording is temporarily stopped. As such, a time lag of a few seconds occurs before the camera captures the still image. After capturing an image, the camera automatically switches back to Continuous recording.

LED indication during Drive Mode



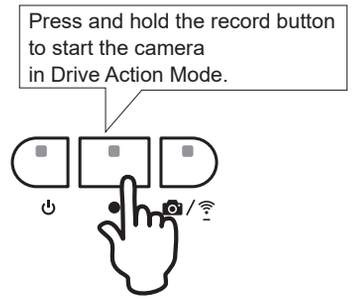
LED indication	Button operation
Green light is on: Wireless LAN ON	Press button: Still Image capture
No light is on: Wireless LAN OFF	Press and hold button: Wireless LAN ON/OFF
Green light is on: Continuous recording in progress	Press button: Manual recording
Red light is on: Impact / Manual recordings in progress	Press and hold button: Switch to Drive Action Mode

Recording in different operational modes

Recording in Drive Action Mode

The camera defaults to Drive Mode when the car engine is turned on.
The below steps show you how to use the camera in Drive Action Mode.

<Switching to Drive Action Mode>
1. Turn on the car engine to start the camera in Drive Mode
2. Press and hold ● button and wait a little while
3. Listen to the recorded voice to confirm that the camera has started up in Drive Action Mode.

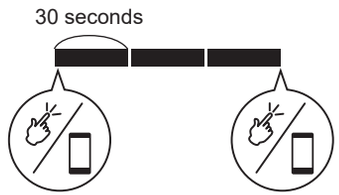


⚠CAUTION
Once the camera has been set to Drive Action Mode in this manner, the camera will always start in this mode even after it has restarted.
Before recording in Drive Mode, switch the camera back from Drive Action Mode.

<Switching back to Drive Mode>
1. Turn on the car engine to start the camera in Drive Action Mode
2. Press and hold ● button and wait a little while
3. Ensure that the switch and record buttons light up in green to indicate the camera has started in Drive Mode.

►Manual recording

Either by pressing ● button on the camera body or by using the d'Action 360 S app on your smartphone, the camera starts and/or stops recording.
One file is recorded every 30 seconds. When the folder becomes full, the camera stops recording.



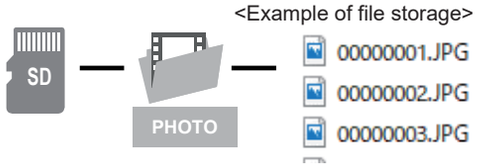
<Example of file storage>

Recording in different operational modes

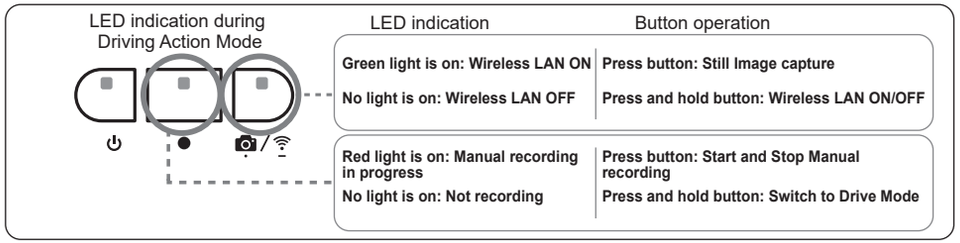
Recording in Drive Action Mode

►Still Image capture

Either by pressing / button on the camera body or by using the d'Action 360 S app on your smartphone, the camera captures one still image.
While the folder is full, you cannot capture any more still images.



*You cannot capture any still images while Manual recording is in progress.

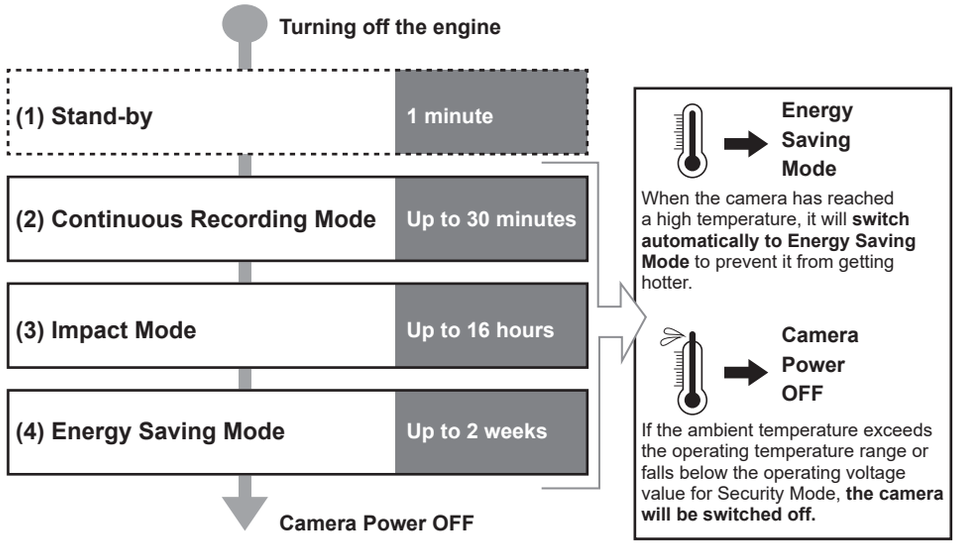


Recording in different operational modes

Recording in Parking Mode

*Parking Option (DC201A, sold separately) is required.

Turning off your car engine with Parking Option connected will momentarily switch off the camera. From here, the camera will automatically switch on to start in Parking Mode.
This mode operates as below.



(1) Stand-by
In order to prevent the camera from starting to record upon detecting any normal impacts that occur when the driver or passengers gets out of the car, the camera will not detect any impacts one minute after the car engine is turned off.

(2) Continuous Recording Mode
In this mode, the camera operates in Parked Continuous and Parked Impact recordings.
The camera operates up to 30 minutes.

(3) Impact Mode
This mode carries out Parked Impact Recording (before and after impact) only, and can operate for a maximum of 16 hours.

(4) Energy Saving Mode
This mode carries out Parked Impact Recording (after impact) only, and can operate for a maximum of 2 weeks. Once 2 weeks have elapsed, the camera will be switched off.

*The operation of each recording mode may stop due to fluctuations of the camera body temperature or the car battery voltage. In this case, the camera will not automatically restart until the temperature stabilizes.
*To minimize any decrease in your vehicle's battery, Continuous Recording Mode can be overridden. Refer to page 39 for how to change this setting.

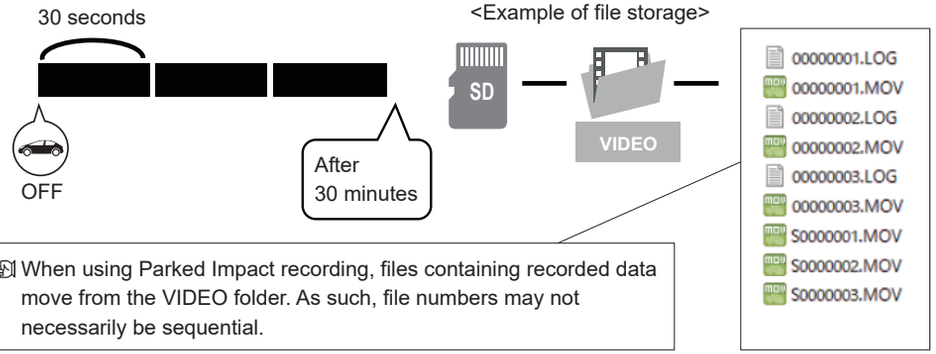
Recording in different operational modes

Recording in Parking Mode *Parking Option (DC201A, sold separately) is required.

►Continuous Recording Mode

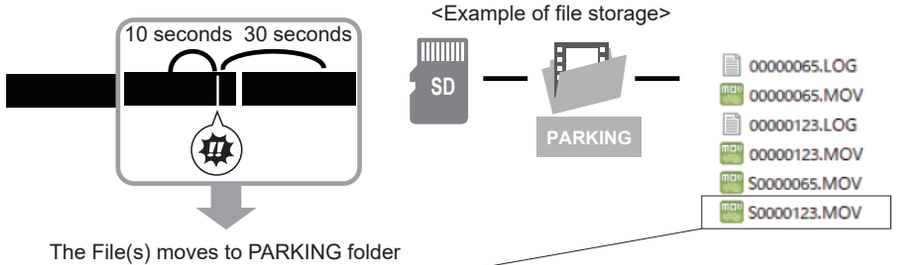
In this mode, the camera operates in Parked Continuous and Parked Impact recordings.
The camera operates up to 30 minutes.

Parked Continuous Recording:
The camera continuously records video footage in the VIDEO folder for up to 30 minutes after the car engine has been turned off.
One file is recorded every 30 seconds. When the VIDEO folder becomes full, the most recently saved file overwrites the oldest file.



☜ When using Parked Impact recording, files containing recorded data move from the VIDEO folder. As such, file numbers may not necessarily be sequential.

Impact Mode under Parked Impact Recording:
When the camera detects an impact, it records up to three files containing 10 seconds of footage from before, and 30 seconds of footage from after detecting the impact. Note that the file(s) automatically moves from the VIDEO folder before the camera starts recording in the PARKING folder. When the PARKING folder becomes full, the most recently saved file overwrites the oldest file.

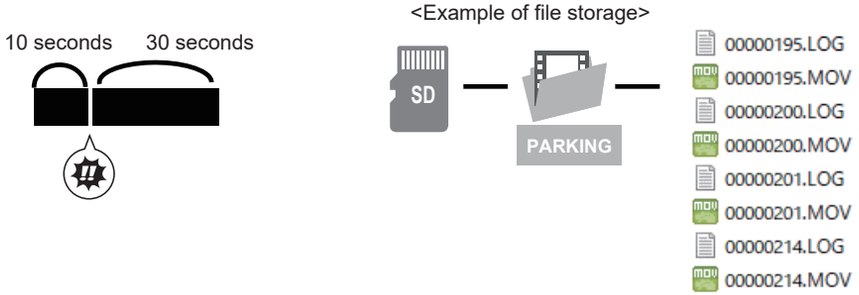


☜ During Parked Continuous mode, the footage is recorded in 360°x 360° and Front recording. However, during Impact mode and Energy Saving mode, footage is recorded only in 360°x 360° recording.

Recording in different operational modes

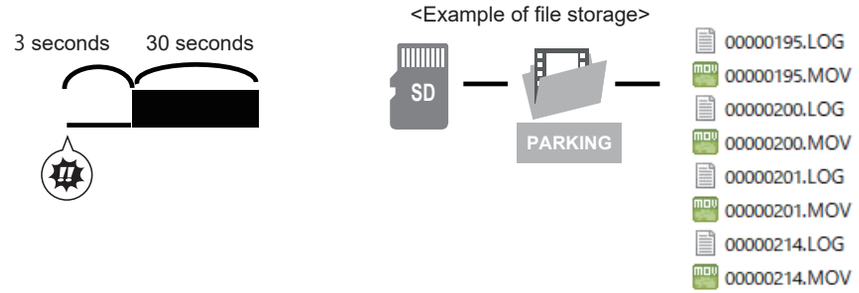
►Impact Mode

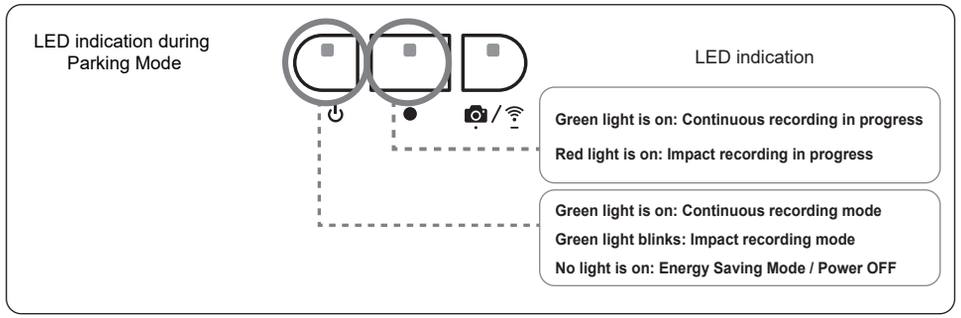
In this mode, the camera operates only in Impact Mode under Parked Impact recording.
The camera operates up to 16 hours.
When the camera detects an impact, it records 10 seconds of footage from before, and 30 seconds of footage from after detecting the impact in the PARKING folder.
When the folder becomes full, the most recently saved file overwrites the oldest file.



►Energy Saving Mode

In this mode, the camera operates only in Energy Saving Mode under Parked Impact recording.
The camera operates up to 2 weeks.
One file is recorded every 30 seconds. When the folder becomes full, the most recently saved file overwrites the oldest file.





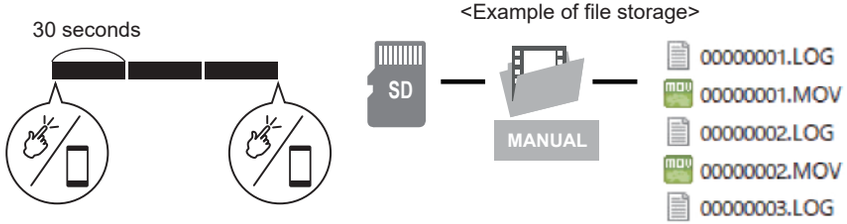
Recording in different operational modes

Recording in Action Mode *Battery Option (DC101A, sold separately) is required.

By pressing and holding ⏻ button with the battery pack attached to the camera, the camera switches on to start in Action Mode.

►Manual recording

Either by pressing ● button on the camera body or by using the d'Action 360 S app on your smartphone, the camera starts and/or stops recording.
One file is recorded every 30 seconds. When the folder becomes full, the camera stops recording.

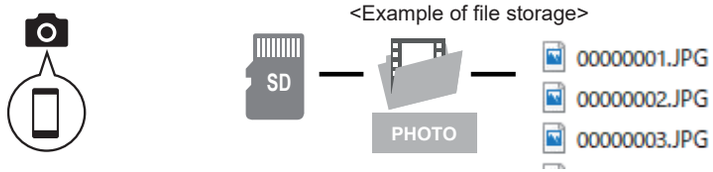


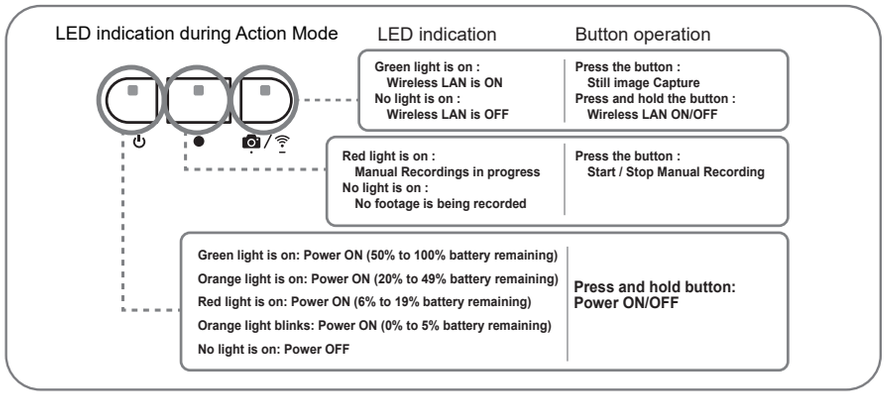
<Example of file storage>

►Still Image capture

Either by pressing 📷/Wi-Fi button on the camera body or by using the d'Action 360 S app on your smartphone, the camera captures one still image.
When the folder is full, you cannot capture any more still images.

<Example of file storage>





*You cannot capture any still images while Manual recording is in progress.

Playback of recorded video / images

The recorded video and images stored on the memory card can be played on a smartphone or PC.

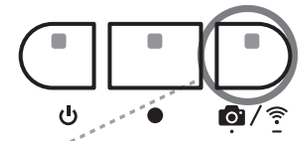
►Playback on a smartphone

Ensure that the d'Action 360 S app has been installed.

Download on the App Store Get it on Google play

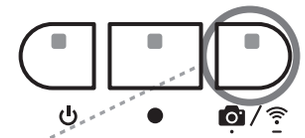
1. Switch on the camera, and turn wireless LAN to ON.

Drive Mode: When the car engine is turned on, the wireless LAN automatically turns ON.



📷/Wi-Fi button lights up in green

Drive Action Mode or Action Mode: After starting the camera, press and hold the wireless LAN button to turn the wireless LAN to ON.

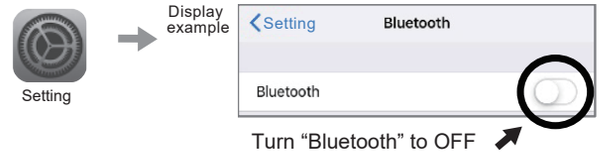


Press and hold 📷/Wi-Fi button to light up in green

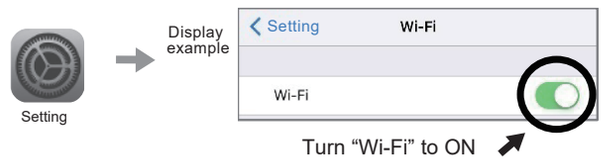
CAUTION Just pressing 📷/Wi-Fi button captures a still image.

Parking Mode: During Parking Mode, you cannot play back the recorded data.

2. Turn "Bluetooth" to OFF under settings on the smartphone.



3. Turn "Wi-Fi" to ON under settings on the smartphone.



Playback of recorded video / images

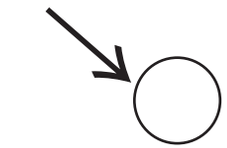
3. Select the SSID starting with “dAction360,” and enter the password.

<Default settings>
SSID: dAction360_xxxxxxxx
Password: 12345678

*You can create your own SSID and password.

Display example

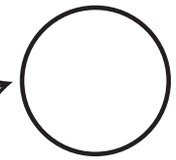
4. Open the d’Action 360 S app and tap Gallery button on the bottom left of the real-time viewer.



5. Tap a recording mode of choice (1), tap the thumbnail of a recorded file to play (2).

(1)

By tapping, the video file you selected will begin streaming (playing without downloading onto your smartphone).



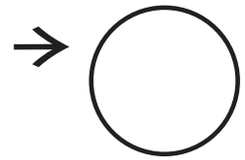
(2)

*During streaming, the image quality is reduced in order to improve transfer time.
*By pressing and holding down on a file thumbnail, the selected files can be downloaded altogether.

Playback of recorded video / images

6. Check the video by streaming, and tap Download button on the bottom left of the real-time viewer.

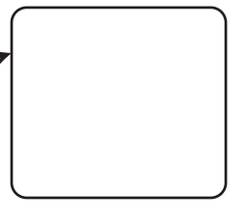
By tapping, the camera will start transferring the file you selected to your smartphone.



*As the camera body directly communicates with your smartphone via wireless LAN, no communication fees are incurred.

7. When downloading is complete, tap “Smartphone” to display a list of transferred files that have been downloaded to the smartphone.

By tapping a thumbnail, the video you selected will begin playing.



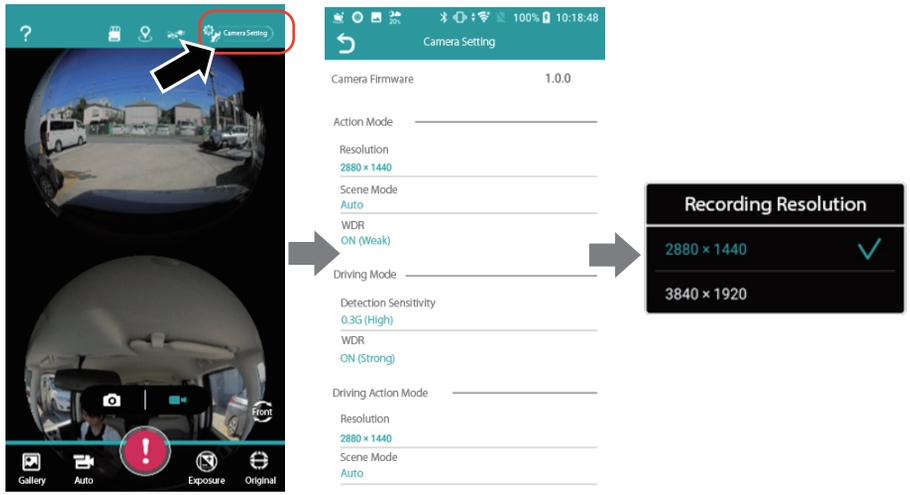
⚠CAUTION
While you are using your smartphone to view the list of files, stream video or download files, the camera will stop recording. Please do not drive while doing this.

Changing camera settings

►Changing settings on your smartphone

1. Connect the camera to your smartphone (refer to steps 1 to 3 on page 31 and page 32)

2. Start the d'Action 360 S app. Tap the Camera Setting button on the upper right of the real-time viewer. Under "Camera Settings," tap the setting you would like to change.



Changing camera settings

►Changing the partition types

You can change the partition (the allocated capacity of each folder) according to how you use this Product. After inserting the memory card in the camera body and turning on the power, please change the setting using the d'Action 360 S app for smartphone.

⚠CAUTION

When you change the partition setting, the memory card will be formatted automatically, and all files will be deleted.

■**Driving Priority**: For using the camera mostly as a dash cam. The camera is set at this mode by default. This setting allows you to record for long hours in Continuous recording mode.

Recording mode	Recording type	32GB (DC3A)	64GB (DC4A)	128GB (DC5A)
Continuous Recording + Parked Continuous Recording	360° x 360°+ Front	Approx. 45 mins	Approx. 90 mins	Approx. 180 mins
Impact Recording	360° x 360°+ Front	Approx. 15 times	Approx. 30 times	Approx. 60 times
Parked Impact Recording (Continuous Recording mode)	360° x 360°+ Front	Approx. 7 times	Approx. 14 times	Approx. 28 times
Parked Impact Recording (Impact / Energy Saving modes)	360° x 360° only (approx. 7.3 MP)	Approx. 25 times	Approx. 50 times	Approx. 100 times
Manual Recording	360° x 360°+ Front	Approx. 10 mins	Approx. 20 mins	Approx. 40 mins
	360° x 360° only (approx. 4.1 MP)	Approx. 12 mins	Approx. 24 mins	Approx. 48 mins
	360° x 360° only (approx. 7.3 MP)	Approx. 6 mins	Approx. 12mins	Approx. 24 mins
Still Image Capture	360° x 360° only	Approx. 35 images	Approx. 75 images	Approx. 150 images

■**Action Priority**: For using the camera mostly as an action camera. This setting allows you to record for long hours in Manual recording mode.

Recording mode	Recording type	32GB (DC3A)	64GB (DC4A)	128GB (DC5A)
Continuous Recording + Parked Continuous Recording	360° x 360°+ Front	Approx. 17 mins	Approx. 35 mins	Approx. 70 mins
Impact Recording	360° x 360°+ Front	Approx. 15 times	Approx. 30 times	Approx. 60 times
Parked Impact Recording (Continuous Recording mode)	360° x 360°+ Front	Approx. 7 times	Approx. 14 times	Approx. 28 times
Parked Impact Recording (Impact / Energy Saving modes)	360° x 360° only (approx. 7.3 MP)	Approx. 25 times	Approx. 50 times	Approx. 100 times
Manual Recording	360° x 360°+ Front	Approx. 37 mins	Approx. 75 mins	Approx. 150 mins
	360° x 360° only (approx. 4.1 MP)	Approx. 45 mins	Approx. 90 mins	Approx. 180 mins
	360° x 360° only (approx. 7.3 MP)	Approx. 25 mins	Approx. 50 mins	Approx. 100 mins
Still Image Capture	360° x 360° only	Approx. 55 images	Approx. 110 images	Approx. 220 images

*The above recording times and number of images are provided for guidance only, and are not absolutely guaranteed values. These will vary depending on the condition of use, subject, and ambient environment.

Changing camera settings

►Formatting the memory card

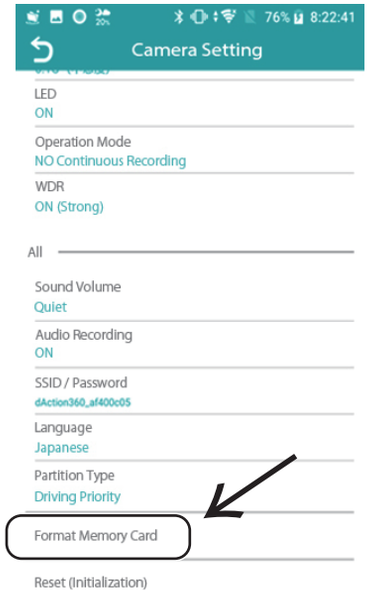
Delete all files on the memory card to optimize its folder structure.
Formatting can be done using the smartphone app.

⚠CAUTION
Formatting a memory card erases all of the files stored on it. Back up any important data onto a storage device (such as a PC) prior to formatting.

☜ Please format the memory card when:
*The memory LED is blinking in orange indicating an error.
*The memory card has been used on a different device.
*The camera has played a recorded voice announcing to format the memory card.
*The memory card has passed its recommended formatting period of approximately six months.

1. Connect the camera to your smartphone. (See page 30)

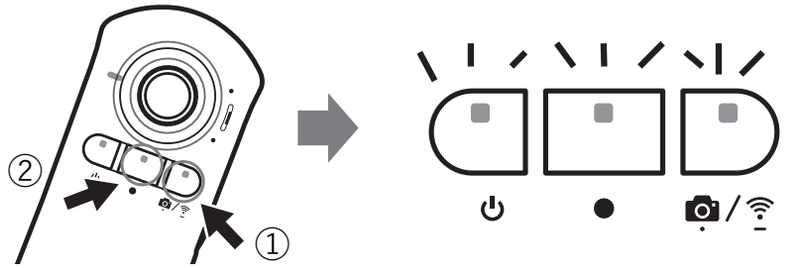
2. Start the d'Action 360 S app. Tap Camera Setting button on the upper right of the real-time viewer. Under "Camera Settings," tap "Format Memory Card".



Changing camera settings

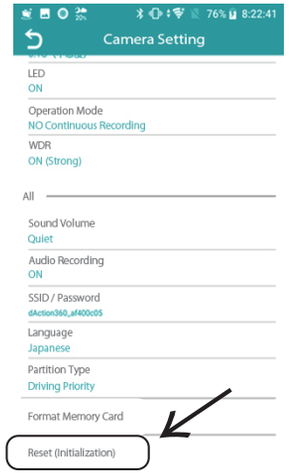
►Resetting (initializing) the camera

All set values are reset.
Start the camera in any mode out of "Drive," "Drive Action" or "Action." While pressing and holding / button (① in the illustration below), press ● button (② in the illustration below) 5 times.
*Even after the camera has been reset, the data on the memory card and the version of the camera body are not reset.



⚠CAUTION
When the camera is reset in this manner, all three LED buttons (switch, record and communication buttons) will blink orange and the camera will restart. Please do not switch the camera off, press any buttons on the camera, nor insert or remove the memory card from the camera body until it has fully started up.

☜ The camera can be reset using the d'Action 360 S app for smartphone.



Updating Firmware

The firmware of the camera body is subject to updates due to specification changes or additional functions being added. If a newer version has been released, please proceed to update the firmware on your smartphone or computer.

Check for the latest version on our website below.
In addition, update alerts are sent to your d'Action 360 S app.

https://razo-usa.com

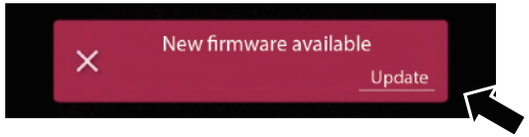
►Updating the Firmware on your Smartphone

1. Open the d'Action 360 S app and check for any update alerts.

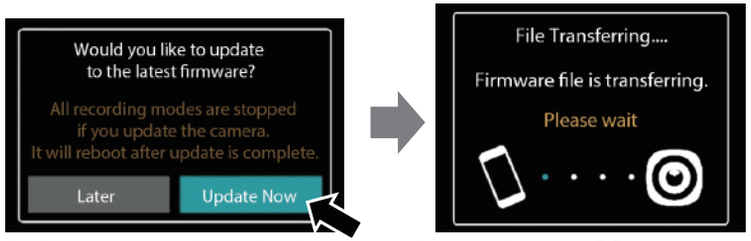
Note:
if your firmware is up to date you will not see an alert.

2. Connect the camera to your smartphone. (See page 30)

3. Start the d'Action 360 S app and tap "Update" on the alert.



4. Tap "Update Now".



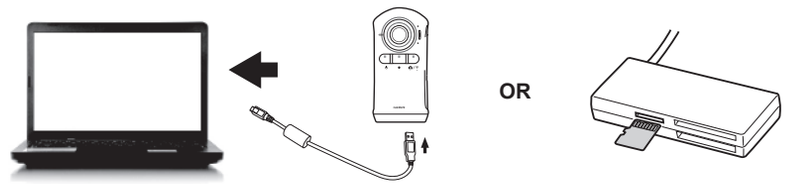
*If the firmware cannot be updated on a smartphone, update on a PC.

Updating Firmware

►Updating the Firmware from your PC

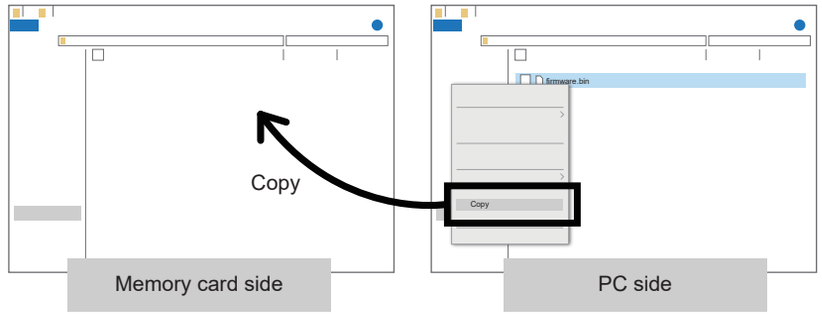
1. Visit the below website and download the latest firmware files onto your computer's desktop.
   https://razo-usa.com
2. Extract the zip file you downloaded.
3. Connect the memory card to your computer either by directly connecting a communication cable to the camera body, or by using a third-party card reader.

⚠CAUTION
When directly connecting a communication cable to the camera body, ensure that the capacitor and/or the battery pack have been removed from the camera body.



4. Copy and paste the "firmware.bin" file you extracted in step 2 into the "FIRMWARE" folder on the memory card.

⚠CAUTION
*Do not change the file name "firmware.bin".
*Do not remove the memory card during data transfer.



5. When the file has finished copying over, remove the communication cable, or remove the memory card, and insert it back into the camera body.

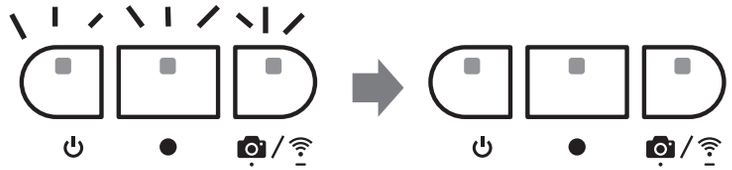
(Continued on the next page)

Updating Firmware

6. Start the camera in any mode out of “Drive,” “Drive Action,” or “Action.”

CAUTION

While the firmware is updating, the three buttons (switch, record and communication buttons) will blink red and then the camera will restart. Please do not switch the camera off, press any buttons on the camera, nor insert or remove the memory card from the camera body until it has fully started up.



If the firmware update does not begin (the three buttons do not blink red) even after the camera has restarted.

●If the ⏻ button is not lit up green while using the Battery Option.

>The remaining battery level is insufficient for the update to take place. Fully charge the battery and start again from the beginning.

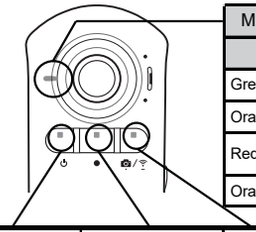
●If the camera has restarted without the buttons blinking red.

>The firmware may already have been updated. Check the current version on the d’Action 360 S app on your smartphone by tapping “Camera Settings,” and “Camera Firmware.”

●If the update has failed due to low battery level.

>Fully charge the battery and start again from the beginning.

LED indicators



Memory LED	Indication
Green light is on	50% to 100% memory remaining in MANUAL folder
Orange light is on	20% to 49% memory remaining in MANUAL folder
Red light blinks	0% to 19% memory remaining in MANUAL folder No Memory card inserted
Orange light blinks	Memory card error

Switch LED	Record LED	Communication LED	Indication
Drive Mode			
Green is on	Green is on	Green is on	Continuous recording in progress
Green is on	Red is on	Green is on	Impact/Manual recordings in progress
Drive Action Mode			
Green is on	No light is on	No light is on	Starting Drive Action Mode
Green is on	Red is on	No light is on	Manual recording in progress
Parking Mode			*Parking option (DC201A, sold separately) is required.
Green is on	No light is on	No light is on	Standby (1 minute after stopping car engine)
Green is on	Green is on	No light is on	Continuous Rec Mode / Parked Continuous rec in progress
Green is on	Red is on	No light is on	Continuous Rec Mode / Parked Impact rec in progress
Green blinking	No light is on	No light is on	Impact Mode
Green blinking	Red is on	No light is on	Impact Mode Parked Impact recording in progress
No light is on	No light is on	No light is on	Energy Saving Mode
No light is on	Red is on	No light is on	Energy Saving Mode / Parked Impact rec in progress
Action Mode			*Battery option (DC101A, sold separately) is required.
Green is on	No light is on	No light is on	Starting Drive Action Mode
Green is on	Red is on	No light is on	Manual recording in progress
All operational modes			
-	-	Green is on	Wireless LAN ON
-	-	Green blinking	Communicating
-	-	Red blinks once	Still image capture
Orange is on	No light is on	No light is on	Charging battery pack
No light is on	No light is on	No light is on	Battery pack has been fully charged / Power OFF
Green is on	No light is on	No light is on	Communicating with PC
Orange blinking	Orange blinking	Orange blinking	Resetting
Red blinking	Red blinking	Red blinking	Firmware is being updated
Orange blinking	-	-	Power error
-	Orange blinking	-	Recording error
-	-	Orange blinking	Communication error

What to do after an accident

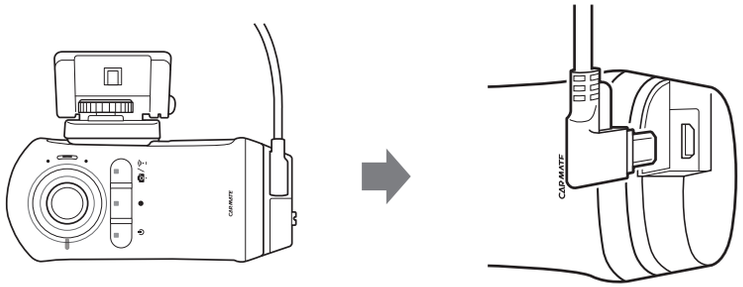
We recommend that you carry out one of the following procedures so that the video data recorded at the time of the accident is not overwritten.

⚠CAUTION

Move to a safe place, and turn off the engine before you take these measures.

●Remove the power cable from the camera body

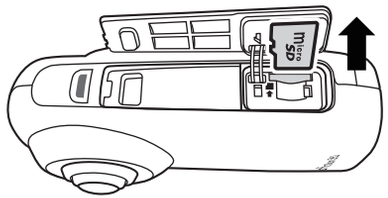
Turn off the camera's power so that data from the time of the accident is not overwritten.



●Remove the memory card from the camera body

Replace the memory card, or back up the video data recorded onto the memory card to another device.

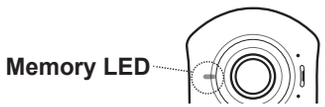
*Please be careful with handling the removed memory card. (See p. 13)



Troubleshooting

The camera will not turn on.	●Check if the power cable and/or power socket are connected properly. ●Check that you are using both the power cable and power socket included with this product. The camera will not operate with cables or power sockets other than those included. ●Check if the camera is too hot or too cold. If the camera is outside its operating temperature range (14˚F to 140˚F), allow it to return to within this temperature range and try turning it on again. ●Remove the capacitor from the camera. Reinsert the capacitor and switch on the camera.
The message “not connected to the Internet” is displayed on the smartphone.”	●This occurs as the camera itself has no internet connection capability. (Please note, for certain types of smartphones such as Android, the smartphone cannot connect to the internet while connected to the camera.)
The SSID starting with “dAction360” is not displayed on the smartphone.	●Check that the wireless LAN on the camera body is turned on (/ button is lit up green). ●Turn off “Wi-Fi” on the smartphone. Turn it on again and wait for a while.

Troubleshooting

My smartphone cannot connect to the camera.	●Check the “Bluetooth” status on the smartphone. ●Close the d’Action 360 S app and turn off “Wi-Fi” on the smartphone. Reopen the app, turn Wi-Fi back on, and check the connectivity. If the connection still fails, delete the input SSID and begin the “Connecting to smartphone” procedure again from the beginning. ●The smartphone cannot connect to the camera during Parking Mode or while connected to a PC.
The tape is not sufficiently keeping the mount in place.	●Tape the mount once again using the extra double-sided tape. Before re-taping, wipe off any residual adhesive from the mount using the cleaning wet wipe. ●Beforeattaching the mount, wipe dirt and oil off the windshield using the cleaning wet wipe.
The wireless LAN of the camera will not switch on, even with the car engine running	●Check if the power cable and/or power socket are connected properly. ●Check that you are using both the power cable and power socket included with this product. The camera will not operate with cables or USB power sockets other than those included. ●If the Parking option (DC201A) is installed, check if it is in use. Please note, the DC200A option cannot be used with this product.
The memory LED beside the lens is blinking in orange. 	●Connect your smartphone. Format the memory card using the d’Action 360 S app*. ●If the memory LED still keeps blinking, reset the camera. (See page 42)

Troubleshooting

I heard a recorded voice “Please check the SD card.”	●Either a memory card with a lower speed class or a non-standard memory card has been inserted into the camera. Please ensure that you use the genuine d’Action microSD card. (Product No. DC3A/4A/5A, sold separately)
I heard a recorded voice “SD card not found”.	●Check if the memory card is inserted.
I heard a recorded voice “The SD card is full.”	●This error occurs because the SD card is full. Either delete manual recording or still image files on the memory card, or format the entire card.
I heard a recorded voice “Please format the SD card.”	●This occurs because the SD card has passed its recommended formatting period. Format the memory card using the d’Action 360 S app*.

*Formatting a memory card erases all of the files stored on it. Back up any important data onto a storage device (such as a PC) prior to formatting.

Specifications

Item	d'Action 360 S EN	
Item No	DC5000A	
Viewing Angle	Horizontal 360° / Vertical 360°	
Image Sensor	SONY CMOS 1/2.3	
Effective pixels (Approximate megapixels)	27 MP	
Resolution (Approximate megapixels)	360°x 360°View + Front recording: 4.1 MP + 2.0 MP 360°x 360°View recording only: 4.1 MP or 7.3 MP	
Frame Rate	Drive Mode	27.5 / 5.2fps *Automatically adjusts in high temperatures
	Parking Mode	13.75 / 5.2fps
	Drivie Action Mode	29.97fps
	Action Mode	29.97fps
F-number	F2.0	
Recording Modes	Continuous recording / Impact recording / Manual recording Still Image capture / Parked Continuous recording* Parked Impact recording* (* requires optional add-ons)	
Power Supply	DC12V/24V (Camera body: DC5V)	
Approximate Electrical power consumption (DC12V)	Drive Mode	440mA
	Parking Mode	295mA (When recording in Continuous recording mode) 10mA (Stand-by in Energy Saving Mode)
	Drive Action Mode	420mA (When recording)
Approximate Electrical power consumption (DC24V)	Drive Mode	220mA
	Parking Mode	147.5mA (When recording in Continuous recording mode) 10mA (Stand-by in Energy Saving Mode)
	Drive Action Mode	210mA (When recording)
Satellites	GPS, Michibiki Quasi-Zenith Satellite System, GLONASS	
File formats	Video: MOV, Still image: JPEG	
Compatible recording media	Genuine microSD cards (sold separately, Product No. DC3A/4A/5A)	
Voice recording	ON/OFF	
Playback Support	d'Action 360 S app (Android 6.0 or later / iOS 11.0 or later)* d'Action 360 S software (Windows 10)*	

Specifications

External dimensions	H100mm×W130mm×D51mm (with Mount)
Weight	235g
Sensor	3-Axis G-sensor, Gyro sensor
Others	Wireless LAN, Noise reduction, WDR
Operating temperature	Parking Mode: -10 to 60℃ (14℉ to 140℉) Drive /Drive Action/ Action Modes: -10 to 40℃ (14℉ to 104℉)
Product Warranty	1 year

Playback of captured footage requires the d'Action 360 S smartphone app or the d'Action 360 S software for computer. Prior to purchasing this product, check the most up-to-date list of supported devices at:

https://razo-usa.com

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*The "iOS" trademark is used under license from Cisco Systems, Inc. in the United States.
*Windows® is a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.
*microSD, microSDHC, and microSDXC are trademarks or registered trademarks of SD-3C, LLC.
*Bluetooth is a registered trademark or trademark of Bluetooth SIG, INC.

FCC ID:2AP43-CMDC5000

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Torrance, CA 90501, USA
For product questions and technical support
please contact: info@carmate-usa.com
310-533-1647 (OFFICE) http://www.razo-usa.com

For other countries:
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5-33-11, Nagasaki, Toshima-ku,
Tokyo 171-0051, Japan
int@carmate.co.jp
http://www.carmate.co.jp/english

- Product specifications and appearance are subject to change without notice for improvement.
- Car Mate takes no responsibility for accidents arising from misuse or alteration of this product.

FCC STATEMENT

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

- The provided shielded USB cables must be used for connection to computer or peripherals in order to meet FCC emission limits and RF interference suppression.

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.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

The available scientific evidence does not show that any health problems are associated with using low power wireless devices.
There is no proof, however, that these low power wireless devices are absolutely safe.
Low power Wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used.
Whereas high levels of RF can produce health effects (by heating tissue), exposure of low-level RF that does not produce heating effects causes no known adverse health effects.
Many studies of low-level RF exposures have not found any biological effects.
Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research.
d'Action 360 S (DC5000) has been tested and found to comply with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines.

Product Name : d'Action360S
Model Number : DC5000
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.
Responsible party : Car Mate USA,Inc
Address : 383 Van Ness Ave Suite 1603, Torrance, CA 90501
Phone : 310-533-1647