



DASH CAMERA CAMÉRA DE BORD

CÁMARA DE SALPICADERO ("DASH CAMERA")

Owner's Manual Manuel du propriétaire Manual del usuario

Please read this manual carefully before using this product. Veuillez lire attentivement ce manuel avant d'utiliser le produit. Lea atentamente este manual antes de utilizar este producto.



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Market: Canada

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IMPORTANT INFORMATION ABOUT THIS MANUAL

For safety reasons, this manual indicates items requiring particular attention with the following marks.

Caution

This is a warning against anything which may cause injury to people if the warning is ignored. You are informed about what you must or must not do in order to reduce the risk or injury to yourself and others.

▲ Notice

This is a warning against anything which may cause damage to the vehicle or its equipment if the warning is ignored. You are informed about what you must or must not do in order to avoid or reduce the risk of damage to your vehicle and its equipment.

SAFETY PRECAUTIONS

Caution

- While driving, the driver must not insert or eject the SD memory card. Doing so may cause an accident from being distracted.
 If these operations are necessary, be sure to park the car in a safe place.
- NEVER drive dangerously on purpose in order to check that this equipment detects the impact properly. Noncompliance with this instruction may result in accidents.
- Do not disassemble or modify this equipment. Noncompliance with this instruction may result in traffic accidents, fire and/or electric shock.
- Do not allow water or foreign objects to enter the internal parts of this equipment. Otherwise, the equipment may emit smoke and/or catch fire and/or electric shock may result.
- If abnormal conditions occur, i.e. foreign objects enter this equipment and/or it is exposed to water and/or emits smoke and/or a strange odor, turn off vehicle immediately and contact the dealer from whom you purchased the equipment. Continuing to use it in these conditions may result in unexpected accidents, fire and/or electric shock.
- Continuing to use it in these conditions may result in unexpected accidents, fire and/or electric shock.
- Do not damage the camera cable. Any holes in the camera will provide a point of entry for moisture and water. Noncompliance with this instruction may result in fire, electric shock and/or malfunctions.
- During a thunderstorm, do not touch the camera. Danger of electric shock may result from lightning strikes.
- The product packaging contains a plastic bag. NEVER put a plastic bag over your head or mouth. Failure to do so may result in serious accidents and/or death by suffocation. Keep plastic bags away from children.

SAFETY PRECAUTIONS

▲ Notice

- For your safety, when changing the location of this equipment, consult the dealer from whom you purchased the equipment for removing and re-installing the equipment. Expertise is required for removal and installation of the equipment.
- Do not put your hands and/or fingers into the card loading slot. Noncompliance with this instruction may result in injury.
- Do not use this equipment except for in-vehicle use. Otherwise, the equipment may emit smoke and/or catch fire, and/or electric shock and/or injury may result.
- Do not apply a strong shock to this equipment. Do not drop it. Do not put heavy objects on it. Noncompliance with this instruction may result in fire and/or malfunctions.
- If exposed to direct sunlight surface of camera may become hot.
- If the equipment is dropped or the outer case is damaged, turn off vehicle and contact the dealer from whom you purchased the equipment. Continuing to use it in this condition may result in fire and/or electric shock.
- After installing this equipment, be sure to configure the calibration setting. Otherwise, the equipment may fail to detect the impact properly, it may work improperly and/or it may fail to work even if the vehicle receives impact.

Privacy Warning

- A microphone is built in this Dash Camera and sounds and voices in the vehicle are saved in the SD card. Recording function is turned off at the factory shipment. Recorded sound data might infringe privacy rights of passengers inside vehicle. Request approval of passengers and comply with federal and state laws when microphone is on. You are able to turn off this function if necessary. Refer to the detailed description in page 21.
- Images or video shot and uploaded to a social media site may infringe the privacy of pedestrians or other parties. We are not liable for images or video that infringe on the privacy of third parties, should they be shot and uploaded to a social media site.

Warnings about Video Recording

- The purpose of this Dash Camera is to record the conditions when a vehicle is driven. Do not use the Dash Camera for mischief or any other improper purposes.
- One of the purposes of this Dash Camera is to provide proof in the case of an accident. However, its effectiveness as evidence is not guaranteed.
- We are not liable whatsoever for any damages that arise, such as from the video failing to record or a recorded file being damaged, nor for any losses, such as the Dash Camera being damaged or from use of the Dash Camera.

Videos may not be recorded or protected under the following conditions.

- (1) If a micro SD card is not inserted in the Dash Camera.
- (2) If the micro SD card is ejected from the Dash Camera.
- (3) If anything other than a genuine micro SD card or the one provided with the Dash Camera is used.
- (4) If recorded videos are overwritten (deleted) by newly recorded videos.
- (5) If the Dash Camera or the micro SD card is severely damaged due to a vehicle collision event or immersed in water.
- (6) If the power supply cord from the battery to the Dash Camera is broken or if the battery is damaged due to a severe accident.
- (7) If an impact is less than the set value (parking surveillance function).
- (8) If camera visibility is extremely low due to windshield condensation or heavy precipitation.
- (9) If the Micro SD card memory has become corrupted, you may lose data or may not be able to record. Micro SD cards have limited life and may require replacement.

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Videos during an impact event may not be recorded or saved during the following cases:

- (10) If your vehicle collides at low speed, or if another vehicle collides with yours at a relatively low speed.
- (11) If a part of your or the other party's vehicle is hit in a part designed to mitigate impact.
 - * (10) (11) Bumpers, doors, spare tire cover, etc. absorb shock, so the actual impact may be smaller than it appears.
 - * (10) (11) Accidents in which the impact is so slight that the air bag does not activate may not be detected.
- (12) If the other party's vehicle has relatively less weight than to your vehicle, or if your vehicle collides with a person or a bicycle.
- (13) If the contact with the other party's vehicle is at an angle rather than a direct impact.
 - * (12) (13) If the other party's vehicle is relatively lighter in weight (vehicle vs. person, vehicle vs. bicycle, etc.), or if the other vehicle rolls over, the shock of the collision is mitigated, and the shock to your own vehicle is lower.
- (14) If sudden braking is applied on a snowy or frozen road.
 - * There is little friction between a vehicle's tires and the road when it is snowy or frozen. Consequently, the vehicle slips at even the slightest impact, which is difficult for the G-sensor to detect.
- (15) If the impact is below G-sensor sensitivity settings.
- (16) If there is a problem in the installation of the Dash Camera, such as the body of the Dash Camera not being fixed, or if the calibration after installation is incorrect.
- This Dash Camera is used for recording video; however, it is not guaranteed that it will always be able to confirm a traffic signal. Environmental factors may prevent confirmation of the traffic signal. In that case, judge the traffic signal from the video before and after and from vehicles around it. We bear no liability whatsoever for conditions in which a traffic signal cannot be confirmed.
- LED traffic signals flash faster than the human eye can detect, so when video is shot with the Dash Camera, it may appear to be blinking. If the traffic signal is not captured on video, make a judgment about it based on video before and after and from vehicles around it. We shall bear no responsibility whatsoever if video cannot capture an LED traffic signal device.

- This video recorder is constantly recording while ignition is on. When the micro SD card is full, older videos are deleted and overwritten by new ones in the unit of "Chapter" files (except event-protected video files). The Dash Camera has a function that protects up to five videos recorded when it detects the ACTION button has been pressed. If the number of videos reaches the maximum number, protection of older videos is released, and they become subject to deletion. When the data is important, such as in the case of an accident, turn off the ignition key of the vehicle as soon as possible. Eject the micro SD card and save the video on a personal computer or save the video to your smartphone using the smartphone application.
- If you wish to keep a recorded video, copy the video to your computer, upload to social media site, etc. from a smartphone, or save in another way. We are not liable for corrupted files that may occur when saving image or video files that you have shot to a computer.

Cautions about Operating and Handling the Dash Camera

- The driver should not eject/insert the micro SD card, or operate a smartphone while driving. Doing so may cause an accident from being distracted. If these operations are necessary, be sure to park the car in a safe place first.
- Do not park or stop the car illegally in order to use the Dash Camera.
- Do not touch the Dash Camera with a bare hand if it has been sitting in direct sunlight during the summer. The Dash Camera may be hot and cause a burn.
- Do not spray any type of cleaner or pour water on the Dash Camera. The double sided tape may fail and allow the Dash Camera to fall.
- Videos recorded when there is water on the windshield or when it is dirty may result in unclear images.
- When cleaning the windshield, do not pull on the Dash Camera or the cord with excessive force. The Dash Camera may come off. (Please consult your dealership if it comes off).
- This Dash Camera acquires date and time via GPS. If the date, time, and/or location of the recorded data is wrong, or if the location fails to change, consult the dealership.
- When the vehicle battery is removed, the time is reset to the correct time at the next startup, when GPS data is received. After the battery has been reconnected, confirm that the GPS data has been received correctly by checking the recorded video file name and the location.

- Due to the properties of the camera's lens, people and objects on the screen may appear to be in a position and distance which may differ from their actual position and distance.
 Blooming phenomenon: When a bright object (sun, headlight, etc.) is recorded, white saturation occurs around the light.
- Do not scratches to camera surface may allow humidity or moisture inside, causing malfunction, fire, and/or electric shock.
- Do not touch the camera lock dial. Doing so may prevent it from recording in the required angle.
- Do not wipe the Dash Camera with alcohol, benzene, thinner, gasoline, or other volatile chemicals. Doing so may cause deformation, deterioration, or other damage.
- When the camera lens is dirty, lightly wipe the lens with a soft cloth soaked in water. Rubbing the lens roughly with a dry cloth may cause scratching.

Handling SD Cards

- When using a micro SD card for the Dash Camera, always use a genuine micro SD card or the micro SD card provided with the Dash Camera. Micro SD card provided with the Dash Camera is industrial grade with longer life compared to other commercially available micro SD cards. The Dash Camera may not operate properly if another type of micro SD card is used.
- Do not save data other than that recorded by this Dash Camera to the micro SD card. Otherwise, videos may not be recorded properly.
- Confirm that the Dash Camera is off (LED is off) when inserting/ejecting the micro SD card. Do not insert/eject a micro SD card while the Dash Camera is running. Doing so may damage the micro SD card.
- Never eject the micro SD card while the Dash Camera is accessing the card (LED is on or blinking). Doing so may damage not only the micro SD card but also the Dash Camera itself.
- Do not insert a hand or a finger in the micro SD card slot. Doing so may result in injury.
- Do not insert any foreign material into the card slot for the micro SD card. Doing so may cause a fire or electrical shock.
- The micro SD card may be hot right after the power is turned off. Be careful not to touch with bare hands.

PLAYING BACK OF MOVIE FILES

Video recorded on this Dash Camera may be viewed on a computer that meets the following specifications.

• Personal Computer Requirements

	Windows Computers	Macintosh Computers
OS	Windows 7, 32-bit or 64-bit Windows 8/8.1, 32-bit or 64-bit Windows 10, 32-bit or 64-bit	Mac OS X 10.9 (Mavericks) or later
CPU	Processor with 2 GHz or higher, CPU with Intel [®] Core™ i3 or later version	Intel [®] Core™ 2 Duo or higher
Memory	2 GB or more (Recommended more than 4 GB)	2 GB or more
Display	1024 × 768 (XGA) pixel or higher, High Color (16 bit) or higher	1280 × 800 or higher
Audio	PCM sound reproduction function compatible with Windows	Standard built-in Macintosh computer audio
Other	 Internet Explorer 9.0 or later version Accessing the micro SD card is possible via a card reader. Internet connection environment (for display of travel position via Google Maps) 	 Safari 9 or later version Accessing the micro SD card is possible via a card reader. Internet connection environment (for display of travel position via Google Maps)

NOTE

System requirements may change. Refer to following URL for latest minimum specifications.

http://www.e-iserv.jp/top/driverecorder/DashCamViewer/index.html?lang=en

 The video image may be distorted and/or the audio interrupted on some computers. If this happens, close the viewer software and restart it to view the video.

• Smartphone Requirement

In order to see the video recorded with this Dash Camera on the viewer software of a smartphone, a device that meets the following specifications is required.

Apple	Mobile device: iPhone 4 or laterOperating system: iOS 7.0 or later
Android	Mobile device: Android smartphoneOperating system: Android OS 4.0 or later

* iPad is not supported.

NOTE

• For the latest application information, please check the App Store or Google Play.

GOVERMENT REGULATIONS

- United States of America

FCC ID: BABFT0112A

CAUTION: Radio Frequency Radiation Exposure

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines. This equipment should be installed and operated keeping the radiator at least 20 cm or more away from person's body in normal use position.

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

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.

FCC WARNING

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

- Canada

IC: 2024B-FT0112A

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

CAUTION: Radio Frequency Radiation Exposure

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment and meets RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment should be installed and operated keeping the radiator at least 20 cm or more away from person's body (excluding extremities: hands, wrists, feet and ankles).

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TRADEMARKS



- App Store is a service mark of Apple Inc., registered in the U.S. and other countries.
- Apple and iPhone are trademarks of Apple Inc.
- iOS is the name of the OS of Apple Inc.
- Apple, Macintosh and Mac OS are trademarks of Apple Inc., registered in the U.S. and other countries.



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- · Google Maps is a trademark of Google Inc.
- · Android is a trademark of Google Inc.
- Wi-Fi[®] and Wi-Fi Direct[®] are registered trademarks of Wi-Fi Alliance.
- microSDHC Logo is a trademark of SD-3C, LLC.
- Windows 7, Windows 8, Windows 8.1, and Windows 10 are registered trademarks of Microsoft Corporation in the United States and/or other countries.
- Other company names and product names used in this manual are either registered trademarks or trademarks of their respective company.

OPEN SOURCE SOFTWARE INFORMATION

• About Open Source Software included in the dash camera

This dash camera includes certain open source or other software originating from third parties that is subject to the GNU General Public License version 2 (GPLv2) and different copyright licenses, disclaimers and notices. The source code and the license information of software licensed under GPLv2 and different copyright licenses, disclaimers and notices are distributed at the website below.

http://www.e-iserv.jp/top/driverecorder/DashCamViewer/index.html?lang=en

• About Open Source Software included in the PC viewer software

This viewer software includes certain open source or other software originating from third parties that is subject to the GNU General Public License version 2 (GPLv2) and different copyright licenses, disclaimers and notices. The source code of software licensed under GPLv2 and different copyright licenses, disclaimers and notices are distributed at the website below.

http://www.e-iserv.jp/top/driverecorder/DashCamViewer/index.html?lang=en

INTRODUCTION

The Toyota Genuine Dash Camera is designed to provide a safe and memorable driving experience in your Toyota vehicle. Safely record the on-goings of the open road while keeping your eyes on the road. Never miss a moment in motion; capture it! The Toyota Genuine Dash Camera will also allow you to record the surroundings of your vehicle while it is parked.

Personal safety, as well as security for your Toyota vehicle, is our top priority. The Dash Camera is safely installed on your front windshield. The camera will automatically save and record data after impact in the event of a crash. The camera automatically starts when the ignition power is on. When the vehicle is stationary, you can access videos and change the settings via your smartphone app or on your computer by inserting the camera's microSD card.

The Dash Camera features a number of different recording modes:

The Infinite Loop: With a high quality, industrial grade micro SD card, the footage will continuously record up to 170 minutes of 1080p HD footage (Standard mode, Bit rate: 6.2 Mbps) in an infinite loop, allowing you to capture every moment of your drive. The accompanying software will allow you to save any footage to your smartphone using Wi-Fi data transmission or simply take the microSD card out of the camera to save your files to your computer.

Incident Recording: With the help of the G-sensor impact detection, the footage will automatically lock on the microSD card for retrieval at a later time and you will not have to worry about anything else but the safety of everyone involved.

Parking Surveillance: Shortly after impact, the Dash Camera will record up to 60 seconds following the impact and the file will be locked on the microSD card.

Interesting event recording: At the push of a button, automatically save 12 seconds before and 8 seconds after an event.

<u>Adventure Mode:</u> With Adventure mode, you can manually save up to an hour of footage at the highest quality video setting.

For any questions about your Genuine Toyota Dash Camera, please consult your Toyota dealer.

Thank you for purchasing a Toyota Genuine Accessory.



PARTS AND FUNCTION DESCRIPTION OPERATION



(1)	ACTION button	 Protects the recording video. (Event protection) (See page 19.) Press and hold for more than 1 second, the Adventure mode starts/stops. (See page 20.) Stops the error sound.
(2)	ERR LED (Amber)	Indicates that the Dash Camera has a problem when it is on or blinking. (See page 14.)
(3)	REC LED (Green)	Indicates that the Dash Camera is ready for recording when the LED is on. (See page 15.)
(4)	Micro SD card slot	Insert the micro SD card to be used into this slot.
(5)	Microphone	Records audio. The microphone is built in the Dash Camera.
(6)	Audio recording on/ off switch	Switches on/off the audio recording. (See page 21.)
(7)	Side cover	The camera is adjusted to an appropriate angle during installation to the vehicle. Do not touch the cover.
(8)	Camera	Records the video images.
(9)	Wi-Fi password	Default Wi-Fi password / Serial number. The same password written is in the back cover page.

NOTIFICATION BY LED INDICATOR AND BUZZER

This Dash Camera has a function to notify its condition with an ERR LED (amber), REC LED (green), and a buzzer. Symbols for LED conditions are as follows.

- : On 💥 : Quick blinking
 - : Off Off Slow blinking

1 Abnormal Notification

This section describes the conditions, possible causes, and measures in case of abnormal conditions.

Buzzer ERR LED REC (amber) (gr		REC LED (green)	Cause	Measure
Continuous long high-tone beeps *1, *2			A micro SD card is not inserted.	Insert a micro SD card.
Alternate long high-tone beep and long low-tone beep *1, *3	0		Hardware abnormality The Dash Camera cannot record a video because of camera or image processing problems.	Turn off the vehicle and turn it on again. If it cannot be solved, consult the dealership where you purchased the Dash Camera.
			The micro SD card has a problem or not formatted.	Format the micro SD card. (See page 47.)
(Silent)	0	O_{or}^{*4}	Videos are recorded, but the Dash Camera is not working correctly with malfunction. (Problems of audio, timestamps, G-sensor, etc.)	Please consult the dealership where you purchased the Dash Camera. * 5
Continuous long high-tone		○ *4	Calibration not conducted.	Perform the calibration. (See page 18.)
beeps *1, *3	0		After the calibration is set, the installation location and direction are changed.	

- *1: When the ACTION button is pressed, the buzzer stops. However, take note that the Dash Camera is not working.
- *2: The volume of the buzzer can be changed. The default volume setting is <High>. (See page 39 and 57.)
- *3: The volume is not adjustable.
- *4: It varies depending on the recorded condition of videos and audios.
- *5: After the vehicle battery is removed, the date and time data are returned to the default value. From the time of first activation after the GPS signal is received, the date and time data are corrected to the accurate data.

NOTIFICATION BY LED INDICATOR AND BUZZER

2 Normal Notification

This section describes LED and buzzer conditions while the Dash Camera is working correctly.

• LED condition

ERR LED (amber)	REC LED (green)	Description
		Power off. Nothing is recorded when the Dash Camera power is off.
•	Blinking in 0.5 sec.	Power on or starting. No video or audio is recorded while the Dash Camera is starting.
	0	Recording video. Audio recording depends on microphone switch setting. (See page 21.)
	- Č - Blinking in 1 sec. intervals	Communicating data with a smartphone by the Wi-Fi connection.
		Recording video in the Adventure mode. Audio recording depends on microphone switch setting. (See page 21.)

NOTE: During a power down process, the REC LED (green) lights up and then blinks.

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NOTIFICATION BY LED INDICATOR AND BUZZER

Buzzer

Buz	zer	Description	
Single short and high-tone beep	Pir	Started normally.	
Single short and high-tone beep	Pir	Protection of recorded video has been initiated (event protection).	
Three short beeps	Pir Pir Pir	Started up/ended the Adventure mode.	
Two short beeps	Pir Pir	A shock was detected during traveling. The recorded video is the subject of protection against overwriting.	
Six continuous long high-tone beeps (twice)	Pi Pi Pi Pi Pi Pi Pi Pi Pi Pi Pi Pi Pi Pi Pi Pi Pi	A shock was detected while parking. (Parking surveillance function) User will be notified by buzzer on next ignition ON.	
One long low-tone beep Pu-		The ACTION button was pressed while the recorded video was protected (Automatic event protection). Manual event protection function is invalid while the event is being protected.	

NOTE: The volume of the buzzer can be changed. (See page 39 and 57.)

The Dash Camera records video, audio, location data from GPS into the micro SD card while driving. With the viewer software dedicated for this Dash Camera, video and audio can be played back as well as checking the location while driving in coordination with Google Maps. This section describes the procedure to use the Dash Camera.

1 Inserting/Ejecting the micro SD card

• Inserting the micro SD card

The Dash Camera does not work without insertion of a micro SD card. If the micro SD card is not inserted, insert the card while paying attention to the following items.

- Confirm that the Dash Camera power is off (LED is off). Do not insert a micro SD card while the Dash Camera is running. Otherwise, the micro SD card may get damaged.
- When inserting a micro SD card into the Dash Camera, check the direction of the card and insert it straight into the slot.
- Insert the micro SD card until you hear a click.



• Ejecting the micro SD card

To play back recorded videos on a computer, eject the micro SD card. Gently push down the center of the micro SD card and then release it. The micro SD card pops out slightly.

- Never eject the micro SD card while the Dash Camera is accessing the card (LED is on or blinking). Otherwise it may damage not only the micro SD card but also the Dash Camera itself.
- Before ejecting the micro SD card, confirm that the Dash Camera power is off (LED is off).
- The Dash Camera does not work without insertion of a micro SD card. Be careful not to forget inserting a micro SD card. When the card slot is empty, you will hear continuous high-tone beeps.

2 Calibration

When the calibration is not set, the buzzer sound of continuous high-tone long beep sounds at the time of startup. (See page 14.)

- **1.** Park vehicle on flat surface. While holding down the ACTION button, turn on the ignition.
- Keep holding down the ACTION button for three seconds or longer. When the calibration is set properly, a double high-tone short beep will sound. If the buzzer does not sound, set the calibration again.

3 Starting

The power of the Dash Camera is linked to the ignition key of the vehicle. While the power of the Dash Camera is off, confirm that the micro SD card is inserted.

1. Turn on the ignition key or the ignition of the vehicle.

The power turns on, and the REC LED (green) of the Dash Camera starts blinking and then turns on. (ERROR LED (amber) turns off) When you hear a short and high-tone beep, startup is finished. However, if the buzzer setting is changed, the buzzer does not sound. (See page 39 and 57.)

NOTE

- Just after formatting the micro SD card (See page 47.), the Dash Camera creates files that are necessary for recording the videos. Therefore, the time until completion of the startup becomes longer.
- Recording a video is not ready until startup is done. The Dash Camera starts recording just after startup is finished.
- When an abnormal vibration and/or a shock is detected while the vehicle is parked, the power turns on automatically. Then the Dash Camera records the video of surrounding area for approximately 60 seconds. (Parking surveillance function) (See page 20.)

When the parking surveillance function is activated, a notification buzzer of one long high-tone beep and five short high-tone beep sounds twice at the next ignition ON. However, if the parking surveillance function is set off, the power does not turn on automatically. (See page 42 and 58.)

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4 Shutting Down

1. Turn off the ignition key or the ignition of the vehicle. The recording ends and the LED turns off, the power is off.

NOTE

• LED may remain ON depends on camera setting [Surveillance Start Delay]. (See page 43 and 58.)

5 Recording Video and Audio

This Dash Camera is a constant-recording type drive recorder. The Dash Camera is turned on when the vehicle ignition is turned ON. When startup is done, the Dash Camera starts recording video and audio (if microphone switch is turned on). The REC LED (green) lights on while recording. When the ignition key or the ignition is turned off, recording is stopped. This Dash Camera has special video event recording modes to capture and protect important videos.

While driving, recorded videos are automatically protected when the Dash Camera detects a strong shock (Event Protection Function – Automatic) or the ACTION button on the main body is pressed (Event Protection Function – Manual, or Adventure Mode).

While vehicle is parked and vehicle ignition is OFF, video is recorded when the Dash Camera detects an abnormal vibration or shock (Parking Surveillance Function).

When the micro SD card is full, older videos are deleted and overwritten by new ones in the unit of "Chapter" files (except event-protected video files). Event-protected video files are explained below:

• EVENT PROTECTION FUNCTION - AUTOMATIC (Up to Ten Videos)

When the Dash Camera detects a shock during the normal recording, the Dash Camera outputs two short high-tone beeps and protects 20 seconds of recorded video: 12 seconds before and 8 seconds after the shock is detected.

• EVENT PROTECTION FUNCTION - MANUAL (Up to Five Videos)

Press the ACTION button of the main body during the normal recording. A short high-tone beep sounds, and the total of 20 seconds of video is protected which include the video for 12 seconds before and 8 seconds after the ACTION button is pressed.

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DASH CAMERA OPERATION

• ADVENTURE MODE (Up to approx. 87 min: Standard mode)

Hold down the ACTION button for more than 1 second during the normal recording.

The Dash Camera outputs three short high-tone beeps and protects the recorded video for the set maximum recording time of the Adventure mode starting from the time when the button is pressed.

While recording in the Adventure mode, holding the ACTION button for more than 1 second will output three short high-tone beeps and ends the Adventure mode. Adventure mode will automatically end if allocated time has been reached and will be output beep sounds.

NOTE

- The recording times in the standard recording and the Adventure mode vary depending on the selected image quality.
- The maximum recording time in the Adventure mode is about half of the maximum recording time in the standard recording.
- When the Adventure Mode is turned off, the protection of recorded video up to that point will be cancelled.
- When the memory allocation of the computer or smart phone viewer is changed, partial protection of the video recorded up to that point will be canceled.

(For example, if you change the recording time from 87 minutes to 30 minutes, approximately 30 minutes of your latest video recording will be protected, but anything recorded prior to that will be overwritten.)

• The settings can be changed by the viewer software for computer (See page 38.) or the viewer application for smartphones (Android/iPhone) (See page 57.).

• PARKING SURVEILLANCE FUNCTION (Up to Ten Videos)

When an abnormal vibration and/or a shock is detected while the car is parked, the video is recorded for 60 seconds from the time of the detection. The recorded video is protected.

Normal Wake-Up:

When the car is parked, if an unusual vibration or shock is detected, it starts recording after 4 seconds for about 60 seconds and protects the recorded video.

Quick Wake-Up:

When the car is parked, if an unusual vibration or shock is detected, it starts recording from that point for 60 seconds and protects the recorded video.

NOTE

- The settings can be changed by the viewer software for computer (See page 38.) or the viewer application for smartphones (Android/iPhone) (See page 57.).
- When the battery voltage reaches the specified value or lower, the Normal Wake-Up is automatically activated.

On/off Selection of Audio Recording

Audio recording can be turned on/off by the audio recording on/off switch on the Dash Camera. The REC LED (green) lights on during recording regardless of audio recording on/off condition.

Orange marking

Backup Power

The Dash Camera contains internal capacitors for continued recording in cases of battery power disconnection. Internal backup power enables recording of video for approximately 5 seconds after power loss; however this time is not guaranteed. Available time may be shorter in conditions such as low temperatures or immediately after camera starts up.

NOTE

- Never take the micro SD card out of the slot while the Dash Camera is writing data to the micro SD card (REC LED (green) is on or blinking). Otherwise it may damage not only the micro SD card but also the Dash Camera itself.
- Quickly and repeatedly turning the Dash Camera on and off generates many short videos and the total amount of recording time is decreased.

6 Playing Back Recorded Videos

Play back the video recorded by this Dash Camera with the viewer software for Macintosh and Windows computers (See page 22.) or the viewer application for smartphones (Android/iPhone) (See page 50.).

7 Checking Device Settings

Check the settings by the viewer software for computer (See page 38.) or the viewer application for smartphones (Android/iPhone) (See page 57.).

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Videos and audio recorded by this Dash Camera can be played back on your computer. With the viewer software, various settings of this Dash Camera can be changed. This section describes the procedure to use the viewer software.

NOTE

- Screenshots are from a computer with Windows 7 Professional Edition (SP1). The screen may be different from the actual screens depending on the OS and settings.
- The value in "< >" is the default value.

1 Installing Viewer Software

Download the viewer software from the dedicated web site page.

1. Start up the web browser such as Internet Explorer and access to the dedicated web site page. The URL address is as follows.

http://www.e-iserv.jp/top/driverecorder/DashCamViewer/index.html?lang=en

NOTE

- · Site may be down periodically for maintenance.
- 2. Read the License agreement conditions and Disclaimers and select [I Agree].
- **3.** From the displayed web site page, download the installer for the viewer software.
- Copy the viewer software installer "DASH_CAM_VIEWER_SETUP_en.exe" to a location on your computer (such as the Desktop).
- 5. Double-click on "DASH_CAM_VIEWER_SETUP_en.exe".



6. Click [Next] on the Install Wizard screen.

Then proceed the installation by following the instructions on the screen.



7. When installation is finished, a shortcut icon for "DASH CAM VIEWER" is created on the Desktop.



NOTE

- To start up the viewer software as soon as the installation is completed, click [Finish] while [Launch the program] on the Installation Complete screen is checked.
- Depending on your computer, the dialog of "User Account Control" is displayed while installing or when starting up the viewer software for the first time. Follow the instruction on the screen and always click [Yes].

2 Playing Back Recorded Videos

Recorded videos can be played back using the viewer software.

Start up the viewer software by the following procedure and play back the video.

1. Insert the micro SD card ejected from the DASH CAMERA to the computer by using the card reader device.

NOTE

- Depending on the computer setting, "What do you want Windows to do?" dialog may be displayed when the micro SD card is inserted. In that case, click the [Cancel] button, select [Take no action], or close the dialog by using the setting button at the upper right section.
- 2. Double-click on "DASH CAM VIEWER" shortcut icon on the Desktop.



3. The viewer software starts.



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4. Click button (or select File > Open from the Menu).



NOTE

- To view data on the microSD card, check that the computer has recognized the SD card drive.
- 5. Click the [Card Data] (video in the micro SD card) button.

If you play back videos on the computer saved by the backup function (See page 35.), click the [Backup Folder] button. If you directly select the video file, click the [Select File] button.

S DASH CAM VIEWER						
File(F)	Settings(S)	Back Up(B)	Help(H)			
	Open Fi	rom	×	Q	0	
	Card Da	ta				
	Backup Fo	older				
	Select F	ile				

- For the folder structure, see page 34.
- Select a drive for the micro SD card on the Card Drive Select screen and click [OK].



NOTE Drive letter (Volume label) is reference.

When the Backup Folder Select screen is displayed, select a saved folder and click [OK].

 7. Select the type of video on the "Trip", "Chapter", "Event", "Surveillance", or "Adventure" tab. Then select a video to play back from the list at the right side and click .

The playback starts.

The next video list is displayed on each tab.

Trip	List of videos in the unit of each key cycle (from engine on to off)
Adventure	List of videos that are protected by the Adventure mode
Chapter	List of individual videos within the selected trip / Adventure
Event	List of videos protected by the ACTION button and protected by detection of shocks
Surveillance	List of videos recorded by the parking surveillance function



8. Click the *initial* button (or File > Exit from the Menu) to end the software.

NOTE

• The number of videos which can be stored in the micro SD card is limited. Back up the video data from the micro SD card to your computer if necessary. (See page 35.)

• Configuration of the Viewer screen (example of the "Trip" tab)



(1)	End the viewer software.			
	Select the video	Select the video type.		
	Trip	List of videos in the unit of each key cycle (from engine on to off)		
	Adventure	List of videos that are protected by Adventure mode		
(2)	Chapter	List of individual videos within the selected trip / Adventure		
	Event	List of videos protected by the ACTION button and protected by		
		detection of shocks		
	Surveillance	List of videos recorded by the parking surveillance function		
(2)	Displays the recorded date and time (or detected date and time) of the specified			
(3)	video type and thumbnails. Depends on Time Zone in viewer setting.			
	Displays the location information and date and time of the selected video on the			
	map (Google Maps) with an icon. Internet connection is required.			
		Displays the map in a separate window.		
		When it is re-clicked, the Map is re-displayed on the Viewer		
(4)		screen.		
	\times	Hides the Map.		
	Мар	Re-displays the Map on the Viewer screen.		
	Balloon	Hide/show location balloons		

	Displays the G	alue size and direction of t	he played back video.			
(5)	G	Switch between display ar	nd hide.			
	Displays the spe	Displays the speed of the played back video.				
(6)	Speed	Switch between display ar	nd hide.			
	When the GPS	signal is lost (speed and di	rection are unknown), t	he GPS icon grays		
	out and change	s as follows.				
<i>(</i> _)	GPS	Color of the location mark	of own vehicle in (4)	: Gray		
(7)		Numeral value of speed in	n (6)	:		
		Color of the needle for the	speed in (6)	: Gray		
		Color of the speed in the c	chart in (8)	: Gray		
		* The GPS icon during GP	'S measurement is yell	OW.		
	The chart that d	isplays the data becomes a	as follows.			
	Left vertical axis	: Acceleration speed Rig	pht vertical axis: Speed	1		
(8)	Horizontal axis:	Time Ora	ange: Acceleration			
	Pink: Speed	Ve	rtical line: Video playba	ack position		
	* Clicking on the	e chart or dragging can mov	ve the playback positio	n.		
(9)	Operation butto	ns to play or stop the video	(See page 30.).			
	Tracking bar that	t indicates the progress co	ndition of the video pla	iyback.		
(10)	Displays the video playback position by the unit of startup (detection). (See page 30.)					
(10)	[A]: Position where the Dash Camera detected the acceleration or a shock					
	[M]: Location where the ACTION button is pressed					
(11)		Displays the video only in	a full screen.			
(12)	Icons for viewer	operations (See page 29.)				
(13)	Video file location					

NOTE

- · There are cases that the GPS signals cannot be acquired correctly; for example, right after the Dash Camera is started up, in places where GPS receiving condition is poor, such as in a tunnel or high-rise area, and when the GPS satellite location is not suitable. In that case, the vehicle location and/or the speed is not indicated on the map correctly.
- · As the size of G value gets larger, the location becomes further from the center. The direction of the G value according to the operation condition is as follows.

(During deceleration)



• When the progressing direction of the main body is deviated, change the sensor sensitivity value. (See page 40.)

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- If an error message is displayed while loading a video or while playing back the video and when the video cannot be played back properly, the image data may be damaged. Back up the video data from the micro SD card to your computer if necessary (See page 35.) and format the micro SD card. (See page 47.)
- Make sure to eject the micro SD card properly during removal.

• How to Use Icons (Buttons) for Viewer Operations

Icons (buttons) at the upper section of the viewer enables the following operations.

	Selects a video from the micro SD card or the computer and play back.
	Saves the playback video.
*	Changes the settings of the Dash Camera.
* >~	Cuts the video at a discretional section and saves.
	Saves the video as a JPEG image.
Q	Magnifies the selected range of video at a specified magnification ratio.
Ċ	Displays the stop watch function on a separate window.
	Converts the location data of the constant recording into the kmz format file that can be displayed on Google Earth and saves the files.

* To magnify a part of video, click and select a magnification ratio and an area (range) to magnify. To cancel magnification, click the magnified image.

• Display only the video in full screen

Click **a** at the upper right section of the video. To cancel the full-screen mode, click **b**. Cancelling the full-screen mode is possible also by clicking the image.

NOTE

 When the micro SD card is full, older videos are deleted and overwritten by new ones in the Dash Camera of "Chapter" files (except event-protected video files), so if you select the video in the "Trip" tab, it may play back from part way through a trip.

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How to Use Buttons for Playback Operations

The following operations are available with the buttons for playback operations.



Move the slider to adjust the playback speed ($\times 0.5$ to $\times 10$). The current playback speed is displayed at the right side ("Standard" is $\times 1$).

(1)	Plays back from the start position of the former trip.
(2)	Plays back from the start position of the next trip.
(3)	Plays back the video. It becomes a pause button during playback.
(4)	Stops the playback.
(5)	Displays the previous frame.
(6)	Displays the next frame.

NOTE

• When the screen is dark, adjust the brightness by using the slider at the left end of the playback operation buttons. However, some computers may not have the brightness control function.

* When there are three recorded files



- When **!!** The left end of the track bar is clicked, the playback starts from the start position of the previous/next chapter (file).
- When the slider on the track bar is moved, the playback starts from the position specified by the slider.

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How To Use Stopwatch Function

The stop watch function is available in a separate window. Click d at the upper section of the screen.

During the measurement, the lap time (elapsed time in the section) can be checked by specifying the discretional area.

Up to ten split times can be specified per lap time, including the start (S)/end (E) position and nine additional points.



NOTE

- During the measurement, the start position/measuring points/end position is displayed on the track bar.
 - S: Start position
 - 1 to 9: Measuring points
 - E: End position



- During the measurement, the position does not return to the position before the start position or before the last lap point, even when the Previous Chapter button or the slider on the track bar is operated.
- The lap point can be specified during the frame advance or frame return operations.
- The lap time indicates the sectional time from the previous lap to the current lap.
- When the playback is ended/stopped, the measurement stops, and the final lap time is displayed.
- During the stop watch operation, when the track bar is operated over the files, loading may take a long time.
- There is a chance that the difference (max. 0.9 sec.) occurs between the sum of lap times and the total time.

- Stop Watch data cannot be saved. In order to save the data, please take a screenshot using the Print Screen key or other software.
- During the measurement, click and select the video type. The confirmation screen for deletion of measurement result is displayed. Click [OK] when specifying a different video. When the Video Type Select screen is closed by clicking [Cancel], the screen returns to the Measurement screen.

• Clears the measurement result.

Click the LAP/RESET button after the measurement stop.

• How to Trim Video Section

When the **I** button is clicked in the image at the starting point (position) for trimming, the Trim Range Determination screen is displayed as shown in the following section. Move the slider on the track bar to select the end position of trimming. A maximum of 30 minutes can be trimmed.



Moving the track bar emphasizes the trim range in red.

Re-click the button at the end point (position) for trimming on the image. On the next "Trim Tool" screen, select information to be embedded in the video with a check mark and click [Save]. The cut video can be saved when the destination for saving is specified.

However, if information is embedded, trimming the video will take a long time.

	Trim Too		×
Insert data.			
☑ Time/Date ☑ Sp	eed 🛛 Acceler	ration 👿 Coordin	ates
Warning: Adding data t	o video will increa	ase processing tim	ie.
Save	Back	Cancel	

NOTE

• If you trim a video that has already been trimmed, additional information cannot be added.

• How to Capture the Video Screen

To save the displayed image in a JPEG file, click the button. On the screen to select information to be embedded in the screen, check the items to be displayed on the image and click [OK]. Then specify the destination folder for the file and save the file in your computer.



• Converting Location Data for Google Earth

Select a video to be converted and click the button.

NOTE

 Before converting, install Google Earth to your computer. Google Earth can be downloaded from the Google site.

Specify the storage destination and the file name and click [Save]. On the Startup screen of Google Earth, click [Yes]. Google Earth starts.

Expand the saved file displayed at the left side of the Google Earth screen by clicking [+]. Select [Route].

When the ' (Tour playback) button is clicked, the travelling route is displayed.

After clicking [Route] > [+], select [My car]. Then clicking the in [10] (Tour playback) button plays back the travelling route in a 3D video.

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• Folder Structure and File Name

In the micro SD card, the folders and recorded data are saved as follows.



• The video file names are allocated in the following rules.

YYMMDD hhmmss _ nnnn . MP4



- The Dash Camera automatically assigns time stamps to recorded video files using UTC (Coordinated Universal Time).
- If you connect to Wi-Fi and interrupt the recording, and then disconnect from Wi-Fi and start recording, the date and time of the file name is changed from that point.

NOTE

- Do not change the video file name. There is a possibility that playback using the viewer software becomes unavailable. In addition, do not delete folders and files (SETINF.DAT, GROUP.DAT, etc. in the directory).
- After camera's initial power on, "DUMMYMOVExxxx.DAT" files are created in the MOVE folder of the microSD card. This file is necessary to record the images. Do not delete the file. Once the videos are recorded, the files are saved as video files.
- When the "DUMMYMOVExxxx.DAT" file or the video file is accidentally deleted, the "DUMMYMOVExxxx.DAT" file is created again at the time of startup of the Dash Camera. Therefore, the time before startup of recording becomes longer.

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3 Backing Up Data in Micro SD Card to Computer

The number of files that the micro SD card can store is limited due to its capacity. When the micro SD card is full, the oldest files are overwritten by newer files. In this case, the older overwritten files will not be available for viewing. It is recommended to back up the video data from the micro SD card to your computer before older files are overwritten in order to prevent potential data loss.

With the viewer software, the recorded data in the micro SD card can easily be saved (backed up) to your computer with simple operations from the Menu.

• Select the folder for backup.

1. On the viewer software, read the recorded data in the micro SD card and select Settings > Backup Directory Settings from the Menu.



2. Select a folder to save the backup data and click the [OK] button.

Browse For Folder	
Select Back Up Directory	
Links	
My Documents	
My Music	
📔 My Pictures	
📓 My Videos	E
Saved Games	
Image: Searches	
Is Computer	
D S Network	+

NOTE

 If the destination folder is not specified, the backup data will be saved in the "My Videos" folder.

• Backing Up Data to Computer

1. On the viewer software, read the recorded data in the micro SD card and select Back up > Back Up on the Menu.



2. On the Backup Data Select screen, check the data to be saved and click the [OK] button.

		Select back up	uata	1
Trip cha	apter	starting time	date & event	
± 🔽		10.09.2016 06:45:54		
⊟ 🔲		10.12.2016 07:26:29	Yes	
	V	10.12.2016 07:26:29		
	V	10.12.2016 07:27:08		
		10.12.2016 07:27:47		=
		10.12.2016 07:28:26		
	V	10.12.2016 07:29:05		
		10 12 2016 07-20-44		*
Select All	Un ne 2	select All Disc Memory (Back up data (0170216225902	Capacity left 8,159.4 Capacity 648.3 OK Canc	MB MB el

- Selected recorded data are backed up (saved) in the specified destination.
- The folder's default name is the date and time of backup operation.
- To playback backup videos, refer to "2 Playing Back Recorded Videos" (See page 24.).

4 Deleting Backup Data on Computer

Recorded data backed up with "3 Backing Up Data in Micro SD Card to Computer" (See page 35.) can be easily deleted by the simple operation from the Menu.

1. Startup the viewer software and select Back Up > Delete from the Menu.

🕾 DASH C	AM VIEWER					
File(F)	Settings(S)	Back Up(B) Help(H)	_			
		Back Up(B)	0	(A)		
		Delete(D)	~	0		
-/-/-						-
						Red

2. Select a folder for deletion and click the [OK] button.

Selection of Folder to delete	×
Select Folder to delete	
OK Cancel	

NOTE The folder name is reference.

3. Select data to be delete and click the [OK] button.



NOTE The folder name is reference.

Selected backup files will be deleted.

5 Changing Camera Settings

When the Dash Camera settings are changed and saved to the micro SD card with the viewer software, the updated settings can automatically take effect on the Dash Camera after the micro SD card is properly inserted and the ignition key is turned on.

- 1. Insert the ejected micro SD card to your computer by using the card reader device.
- 2. Start up the viewer software and select Settings > Camera Settings from the Menu.



3. Select the drive for the micro SD card and click [OK].

The Setting screen of the main body is displayed.

	e ~
Select Card Drive	
D:\ •	

NOTE

Drive letter (Volume label) is reference.

NOTE

- When there is no operation record in the micro SD card (or when the micro SD card is used for the first time), "The configuration file cannot be read." message is displayed. Click the [OK] button.
- If the previous setting is saved in the micro SD card, the former setting is displayed.
- 4. Set each item and click the [OK] button.
- 5. Click the [OK] button on the Setting Save Confirmation screen.

Confirmation	Information	-	
This will overwrite the setup file. Are you sure?	Cornero settings have been saved. C inserting SD card into comero.	Changes will be visible	e after
OK Cancel			ок

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Save the new settings on the micro SD card. When the micro SD card is inserted to the Dash Camera and the ignition key is turned on, the new settings saved on the micro SD card will take effect on the Dash Camera. The changeable setting items are as follows.

Basic Settings

/ideo Quality	Standard mode 🔹	
Sound		
lotification Volume	High	
System Volume	High +	
Error Warning Volume SD Card Error	High +	
Surveillance Mode Notification	High	
Vi-Fi Password		
Reset Wi-Fi Password] Reset Password	of Dash Cam	

Recording quality

Maximum recording time will be reduced with increased video quality. Three steps of High quality mode / <Standard mode> / Extended time mode.

Sound

Sets the Notification Volume, System Volume, Error Warning Volume - SD Card Error and Surveillance Mode Notification . Three steps of <High> / Low / Off.

Wi-Fi Password

Resets the password for the Dash Camera.

Reset All

Resets the entire settings of the Dash Camera to default setting.

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Sensor Sensitivity Settings

	Odink		2	
asic Settings Sens	or Sensitivity Par	king Surveillance	Adventure N	Aode
Acceleration/De	eceleration Ser	silivily		
If sensitivity is t sensitivity is too situations, such	too low, some ir o high, events n i as turning or b	mpacts may no nay be triggere raking quickly.	t be detect d by non-li	ted. If mpact
Standard		-0		0.50 🚔 G
High Sensitivit	ty Low		High	
Set and adjust s shaft). As the v Left/Right direc	ensitivity value value goes up, it :tion.	for Left/Right t is harder to d	direction (etect an in	horizontal npact from
Set and adjust s shatt). As the v Left/Right direc	ensitivity value /alue goes up, it :tion.	for Left/Right t is harder to d	direction (etect an in	horizontal npact from
Set and adjust s shaft). As the v Left/Right direc	sensitivity value value goes up, il stion.	for Left/Right t is harder to d	direction (etect an in	horizontal npact from 1 🚔
Set and adjust s shaft). As the v Left/Right direc U Low	sensitivity value value goes up, il stion.	for Left/Right t is harder to d	direction (etect an in High	horizontal npact from
Set and adjust s shaft). As the v Left/Right direc Low Center Offset A	sensitivity value value goes up, it stion. Angle	for Left/Right t is harder to d	direction (etect an in High	horizontal npact from
Set and adjust e shaft). As the v Left/Right direc U Low Center Offset A In some instanc manually due to	sensitivity value value goes up, if tion. Angle ses the center of the curvature	for Left/Right t is harder to d offset angle ma of the vehicle'	direction (etect an in High ay need to s windshiel	horizontal npact trom
Set and adjust e shatt). As the v Left/Right direc U Low Center Offset A In some instanc manually due to	sensitivity value value goes up, if tion. Angle the center of the curvature	for Left/Right t is harder to d offset angle ma of the vehicle'	direction (etect an in High ay need to s windshiel	horizontal npact trom

Acceleration/Deceleration Sensitivity

Select the sensor sensitivity to detect the shock from <Standard> / High Sensitivity. Or set the sensitivity (setting: 0.30G to 0.70G) manually by using the slide bar. When the sensitivity is set high, shocks are more easily detected.

Left/Right Sensitivity Adjustment

Adjust the sensitivity adjustment value for the left/right (horizontal) direction. If too many false events are detected when turning left/right, increase the adjustment value. However increasing to higher value may prevent the Dash Camera from detecting actual events.

Center Offset Angle

By using the sliding bar, set the correction angle (setting range: -45 to +45 deg.) in the progressing direction.

- · When the sensor sensitivity is set high, shocks are more easily detected.
- The horizontal axis correction does not affect the front/rear direction (vertical axis).
- To calibrate the correction angle, check for deviation by playing back the video. If the angle is deviating to the left, correct with the negative direction. If the angle is deviating to the right, correct with the positive direction.



NOTE

- After changing the setting, compare with the actual driving and check that the Dash Camera detects shocks properly (not too much or too less).
 When checking the Dash Camera sensitivity, never try dangerous operations (such as sudden acceleration and sudden braking).
- Do not change the sensor sensitivity without thorough consideration.
- When sensor sensitivity is set too low, the frequency of false event data decreases. However, necessary event data may not be protected.
- When the Dash Camera detects the shock unnecessary in left and right turns or curves (unnecessarily protected more often), adjust the set value of the horizontal axis correction.

OPERATIONS OF VIEWER SOFTWARE

• Parking Surveillance Settings

	Camera	Settings	>
asic Settings Sensor Se	nsitivity Parking S	urveillance Adv	venture Mode
Parking Surveillance ● On ◎ Off			
Sensor Sensitivity If sensitivity is too li sensitivity is too hig situations, such as h	uw, some impac h, events may b heavy rain, small	ts may nut be e triggered by vibrations, et	detected. If non-impact c
Standard			0.30 🖶 G
High Sensitivity	Low		High
Warning: Enabling Ou battery consumption cold climates, on ve issues are noticed. Duration for Quick V 30 + min	uick Wake-Up m . Turn off or da hicles with older Wake-Up mode	ode will incre acrease surve r batteries, or	ase your vehicle's illance duration in if engine start-ability
Surveillance Start D	elay		
Sets the activation of event detection cau 1 min	delay for Parking sed by opening	g Surveillance or closing vel	to prevent false hicle doors.
Reset All			OK Cancel

Parking Surveillance

Enables/disables Parking Surveillance mode.

Sensor Sensitivity

Select the sensor sensitivity to detect the shock from <Standard> / High Sensitivity. Or set the sensitivity (setting: 0.20G to 0.80G) manually by using the slide bar. When the sensitivity is set high, shocks are more easily detected.

Parking Surveillance Mode Select Mode

When "ON" is selected for the parking surveillance function, select <Normal Wake-Up> / Quick Wake-Up.

Normal Wake-Up: When the car is parked, if an unusual vibration or shock is detected, it starts recording within 4 seconds for about 60 seconds and protects the recorded video.

Quick Wake-Up: When the car is parked, if an unusual vibration or shock is detected, it starts recording within 1 second from that point for 60 seconds and protects the recorded video.

Duration for Quick Wake-Up mode

When [Quick Wake-Up] is selected, the monitoring time can be set between 30 min to 180 min.

Once the monitoring time elapses, or if the vehicle's battery drops below the specified value, it switches automatically to Normal Wake-Up mode at that point, to avoid a dead battery.

NOTE

- · Do not carelessly change the sensor sensitivity.
- When sensor sensitivity is set too low, the frequency of false event data decreases. However, necessary event data may not be protected.

Surveillance Start Delay

To prevent erroneous detection of shock by the door opening/closing when getting in and out of the vehicle, the time lag to start the parking monitoring function is set after turning off the Ignition.

Surveillance Start Delay will also prevent notification if shock is detected within the 1 or 2 minute interval before ignition is turned ON.

Normal Wake-Up: <1 min> / 2 min

• Quick Wake-Up: <1 min> / 2 min

NOTE

- Purpose of this setting is to prevent false notification of parking incident when exiting/entering vehicle.
- Camera will remain ON for duration of selected Surveillance Start Delay after Ignition is turned OFF.
- If shock is detected within selected setting time of ignition ON, video will be recorded but buzzer will not turn on.

OPERATIONS OF VIEWER SOFTWARE

Adventure Mode Settings

inin Cottingo Concer Constituity Darkin	a Sumunillance Adventure Mode
Adveriture Mode On Off	B durvemance
Memory Allocation 3.52 gb	87 min
Min «Recording time is based on alloc: setting. Longer recordings can be or reducing the video quality.	Max ated memory and video quality achieved by increasing the memory,
r reducing the video quality.	

Adventure Mode

Enables/disables Adventure mode.

NOTE

• When the Adventure Mode is turned off, the protection of recorded video up to that point will be cancelled.

Memory Allocation

Sets the recording time when the Adventure mode is on.

Recording time is based on allocated memory and video quality setting. Longer recordings can be achieved by increasing the memory, or reducing the video quality. Increasing memory allocation for Adventure mode will reduce available memory for normal continuous recording mode.

6 Changing Viewer Setting

The viewer software settings can be changed. The following items can be set.

1. Start up the viewer software and select Settings > Viewer Settings from the menu.

	Viewer	Settings	×
Language			
Select Language	English		
Date & Time			
Date & Time Format			
Select Date Format	MM/DD/YYYY HH:MM:SS (24H)		
Time Zone			
Select Time Zone	EST-Eastern		•
Daylight Savings Time			
Daylight Savings Time	ON (OFF	
Units			
Speed Display	⊚ KM/H	C MPH	
	ОК	Cancel	

Language

Selects the language from <English> / French / Spanish.

Date & Time

There are 4 date & time setting as follows:

- MM/DD/YYYY HH:MM:SS (AM/PM)
 YYYY/MM/DD HH:MM:SS (AM/PM)
- <MM/DD/YYYY HH:MM:SS (24H)> YYYY/MM/DD HH:MM:SS (24H)

Time Zone

There are 8 time zone setting as follows:

- PST-Pacific (UTC-8)
- NST-Newfoundland (UTC-3:30)
- AST-Atlantic (UTC-4)
- <EST-Eastern> (UTC-5)
- CST-Central (UTC-6)
- MST-Mountain (UTC-7)
- AKST-Alaska (UTC-9)
- HAST-Hawaii (UTC-10)

Daylight savings time

Sets ON / <OFF> of the daylight savings time. When the daylight savings time is ON, the time is one hour ahead from the standard time.

Units

Sets the display unit of the speed meter from <KM/H> / MPH.

- 2. Set each item.
- 3. Click the [OK] button.
- 4. Click the [Yes] button to re-start viewer.

Confirmation		23
Settings will be Do you want to	e reflected in the next view o restart the viewer?	er startup.
	<i></i>	
	Yes	No

7 Formatting Micro SD Card

If an error is displayed when the video is played back or the video data is copied, the data in the micro SD card may be corrupt. Format the micro SD card in the following procedure.

NOTE

- After formatting, the video data in the micro SD card are deleted.
- Formatting the micro SD card may not often be necessary. Format the micro SD card only when a write/read error occurs in the micro SD card or when the Dash Camera does not start up.
- Back up the desired video data to your computer prior to formatting the micro SD card. (See page 35.)
- 1. Prepare the software used for formatting the SD memory card.

Install the software used for formatting the SD memory card in your computer. See the dedicated web site page for the installation procedure.

(1) Start up the web browser such as Internet Explorer and access the dedicated web site page. The URL is as follows.

http://www.e-iserv.jp/top/driverecorder/DashCamViewer/index.html?lang=en

- (2) Select "Download software to format SD memory cards."
- (3) Install the "Download software to format SD memory cards" by following the described procedure.
- 2. Start up the software used for formatting the SD memory card.

Select Start > All programs > SDFormatter > SDFormatter.

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OPERATIONS OF VIEWER SOFTWARE

3. Click the [Format] button.

SDFormatter V4.0	×
	Format your drive. All of the data on the drive will be lost when you format it.
	SD, SDHC and SDXC Logos are trademarks of SD-3C, LLC.
Drive : [✓ Refresh
Size :	7.8 GB Volume Label :
Format Option :	Option
QUICK FORMAT,	FORMAT SIZE ADJUSTMENT OFF
1	Format

NOTE

- Be sure to confirm that the drive letter at "Drive:" indicates the drive of which the micro SD card is inserted. Then start formatting the micro SD card. If the selected drive is incorrect, select the drive that the micro SD card is inserted by clicking the [Redo] button.
- **4.** When formatting completes, the confirmation dialog is displayed. Click the [OK] button.
- 5. Click the [Exit] button to close the dialog.

NOTE

 After formatting the microSD card, insert it into the Dash Camera SD slot, and turn on the power to complete the activation process. (REC LED (green): Blinking to On) (See page 18.)
 If the activation process is not completed, it may take approximately 1 minute for video to start recording on next startup, or may not record in parking surveillance mode.

8 Downloading PC Viewer Software Updates

The "Download Updates" function can be accessed by clicking "Help(H)" located at the top menu bar. The installer and instruction manual of the latest viewer software can be downloaded.

1. Select Help > Download Updates from the menu.



The download site of the installer and instruction manual of the latest viewer software is displayed. Connection to the Internet is required for downloading.

9 Displaying Version Information

The version information of the viewer software can be displayed by the following procedure.

1. Select Help > Version Information from the Menu.



The version information of the viewer software is displayed.

Version Information 🛛 🗙		
DASH CAM VIEWER		
Version 1.0.0.0		
Copyright of this product is protected by law.		
This product may not be distributed or copied in whole or in part.		
(c) 2017 FUJITSU TEN LTD.		
OK		

NOTE The version information is reference.

OPERATIONS OF VIEWER APPLICATION FOR SMARTPHONES

When the Dash Camera is connected to the smartphone (Android/iPhone) by Wi-Fi connection, the videos and audio recorded by the Dash Camera can be played back on the smartphone.

A special viewer application is used for the playback. In addition, various settings of this Dash Camera can be changed with the viewer application.

NOTE

- The Wi-Fi function cannot be used while driving. Park the vehicle at a safe place first before operating the application functions.
- Images shown here are of Android Smartphones. Procedures are the same in iPhones.
- No video recording while Wi-Fi connection to the smartphone (Android/ iPhone) is on.
- · Wi-Fi is disconnected if camera detects vehicle movement.
- Start the viewer application with the language set to the smartphone. However, if a language other than English, French, or Spanish is set, the viewer application starts up in English.
- Firstly, please confirm if your smartphone Wi-Fi setting has been turned on.
- If the Dash Camera is not connected to Wi-Fi, a popup occurs to confirm connection. (If the Dash Camera is connected to Wi-Fi, this popup does not occur).
- During Wi-Fi connection, the Dash Camera stops video recording. When recording the video, close the viewer application.
- The viewer app for smartphones can only be used if the Dash Camera is connected to Wi-Fi.
- For the Wi-Fi connection procedure, see the instruction manual of your smartphone.
- The value in "< >" is the default value.

1 Installing Viewer Application

- 1. Search the "TOYOTA DASH CAMERA" and download the application from your smartphone app store.
 - · For Android smartphone: Google Play Store
 - · For iPhone: App Store



OPERATIONS OF VIEWER APPLICATION FOR SMARTPHONES

2 Connect a smartphone with the Dash Camera in Wi-Fi connection

For Android smartphone

1. Start the viewer application.

When the License Agreement screen is displayed, please read this Agreement before using the application, and select [I Agree].

NOTE

- · You must agree with the License Agreement in order to use the application.
- 2. When the application is started, select [NEXT] three times and then select [Got It].
- 3. Select [OK] when the Wi-Fi connection confirmation screen appears.
- 4. Go to Home screen > Settings > Wi-Fi > Wi-Fi Direct.

NOTE

- This procedure may vary based on smart phone. Consult smart phone owner's guide for connecting Wi-Fi direct.
- 5. Wait a few seconds on the Wi-Fi Direct screen.
- **6.** Available peer-to-peer device name (DR_0000_XXX00000_DR) appears on the screen, and select the device name.

NOTE

- The device name "XXX" and "00000" are depends on model.
- When the peer-to-peer status changes from "Available" to "Connected", the pairing is completed.
- Camera Wi-Fi device name may not appear until 1 minute after camera has been turned ON (ignition ON).
- 7. Go back to the DASH CAMERA application screen.
- 8. Enter the Wi-Fi password.

NOTE

- The default Wi-Fi password: Serial number for this Dash Camera. (See back cover and page 13.)
- The password for Wi-Fi connection can be changed. (See page 61.)
- 9. Go to next title "3 Playing Back Recorded Videos". (See page 53.)

NOTE

- No video is recorded while Wi-Fi connection is active.
- Wi-Fi is disconnected if the Dash Camera detects vehicle movement.

OPERATIONS OF VIEWER APPLICATION FOR SMARTPHONES

For iPhone

- 1. Go to Home screen > Settings > Wi-Fi.
- Select the device name (DIRECT-DR_0000_XXX00000) from the list of CHOOSE A NETWORK... screen.

NOTE

- The device name "XXX" and "00000" are depends on model.
- **3.** Enter the Wi-Fi password, and select the Join. The Wi-Fi pairing process is complete.

NOTE

- The default Wi-Fi password: Serial number for this Dash Camera. (See back cover and page 13.)
- The password for Wi-Fi connection can be changed. (See page 61.)
- 4. Start the viewer application.

When the License Agreement screen is displayed, please read this Agreement before using the application, and select [I Agree].

NOTE

- · You must agree with the License Agreement in order to use the application.
- 5. When the application is started, select [NEXT] three times and then select [GOT IT].
- 6. Go to next title "3 Playing Back Recorded Videos". (See page 53.)

NOTE

- · No video is recorded while Wi-Fi connection is active.
- · Wi-Fi is disconnected if the Dash Camera detects vehicle movement.

OPERATIONS OF VIEWER APPLICATION FOR SMARTPHONES

3 Playing Back Recorded Videos

1. Select "Trips", "Events", and "Adventures" to select the video type.



OPERATIONS OF VIEWER APPLICATION FOR SMARTPHONES

2. Select a desired video from the video list.



- When the title is selected on the "Trips" tab, the list of files in the chapter is displayed.
- The thumbnail, date and time, event type (G detection, video during parking, ACTION button operation, and Adventure recording) is displayed.
- The specified video is loaded in the viewer application and played back by each file.
- When the video data is selected from the list of video data, the file is downloaded from the Dash Camera and displayed. Videos are played back by each file (constant recording: 36 MB, event recording: 12 seconds before and 8 seconds after the event).
- The downloaded video data are saved in the smartphone.
- The recorded video, time of video, map indicating the location information, speed, and G value are displayed on the screen.
- When the full-screen display button is selected, or when the smartphone is turned sideways, the screen shifts to the full-screen state.





OPERATIONS OF VIEWER APPLICATION FOR SMARTPHONES

• Configuration of the viewer screen (video file selection)



(1)	Displays the setting menu. Dash Camera configuration (See page 57.) Viewing Camera Image (See page 60.)
(2)	Trip folder
(3)	Displays or hides the video files in Trip folder.
(4)	Video file / Select a video file to download and playback
(5)	Displays the thumbnail of the video files.
(6)	Displays Trip
(7)	Displays Event If there are any videos that have not been checked, the number of videos is displayed at the top right of the icon.
(8)	Displays Adventure If there are any videos that have not been checked, the number of videos is displayed at the top right of the icon.
(9)	Event icon A: Manual recording file(s) C: Incident recording file(s) P: Parking Surveillance recording file(s) Adventure recording file(s)

OPERATIONS OF VIEWER APPLICATION FOR SMARTPHONES

• Configuration of the viewer screen (video is during playback)



(1)	Uploads and shares recorded video to the social media site. (See page 59.)		
(2)	Displays the setting menu. Dash Camera configuration (See page 57.) Viewing Camera Image (See page 60.)		
(3)	Displays the map and the location information.		
(4)	Displays the video recorded time, speed, and G value.		
(5)	Recorded video		
(6)	Goes into the full-screen display when selected.		
(7)	Displays the next recorded video.		
(8)	Displays the previous recorded video.		
(9)	Displays the recorded video select screen.		

OPERATIONS OF VIEWER APPLICATION FOR SMARTPHONES

4 Changing Camera Settings

The settings of this Dash Camera can be changed. The changed contents are sent to the Dash Camera when [SAVE] is selected. The new settings will take effect when the Dash Camera is restarted.

- **1.** Select the Sidebar menu (**E**) and then select [Settings].
- 2. Select the item of which setting is to be changed.



Item	Function
Video Quality	Low / <standard> / High</standard>
Unit	<km h=""> / MPH</km>
Set Automatically	ON / <off></off>
Set Time Zone	AST-Atlantic / <est-eastern> / CST-Central / MST-Mountain / PST-Pacific / AKST-Alaska / HAST-Hawaii / NST-Newfoundland</est-eastern>
Sounds	
Notification Volume	Off / Low / <high></high>
System Volume	Off / Low / < High>

System Volume	Off / Low / <high></high>
Error Warning Volume - SD Card Error	Off / Low / <high></high>
Surveillance Mode Notification	Off / Low / <high></high>

OPERATIONS OF VIEWER APPLICATION FOR SMARTPHONES

Item	Function
Sensitivity	
Sensor Sensitivity	Restore the sensitivity settings to the factory default values.
Acceleration/Deceleration Sensitivity	Low to High (0.1 G Unit) <0.5>
Right/Left Sensitivity	Low to High <1>
Centre Offset Angle	-45 to 45 (1 degree Unit) <0>
Adventure mode	
Adventure Mode	<on> / OFF</on>
Memory Allocation	High quality: Approx. 1 min to 65 min Standard quality: Approx. 1 min to 85 min Low quality: Approx. 1 min to 130 min
Parking Surveillance	
Parking Surveillance	<on> / OFF When the Adventure Mode is turned off, the protection of recorded video up to that point will be cancelled.</on>
Parking Surveillance Mode	<normal wake-up=""> / Quick Wake-Up</normal>
Duration for Quick Wake-UP mode	When Quick Wake-UP is selected, the monitoring time can be set between 30 min to 180 min. <30 min>
Parking Surveillance	Restore the sensitivity settings to the factory default values.
Parking Surveillance Sensitivity	0.20 G to 0.80 G <0.30 G>
Surveillance Start Delay	Normal Wake-up: <1 min> / 2 min Quick Wake-up: <1 min> / 2 min
Password	Wi-Fi password change 8 to 19 characters (include letters, numbers and symbols) (See page 61.)
Reset	Reset to Factory settings (Wi-Fi password is not reset)

3. Select [SAVE].

OPERATIONS OF VIEWER APPLICATION FOR SMARTPHONES

5 Uploading or Sharing Recorded Video/Photo to Social Media Site

The video can be uploaded or shared to the social media site.

- 1. Select the share button () during playback of the recorded image to select desired output (video, image or map).
- **2.** Select an application from the list of applications. Next, upload or share the information by operating the application started up.



The following applications are available to use.

Terretenne	Shared data			
Target apps	Video	Photo	Мар	
Mail	0	0	0	
Message *1 o		0	0	
Facebook	acebook o		0	
Twitter	×	0	0	
YouTube	0	×	×	

*1: iOS only

OPERATIONS OF VIEWER APPLICATION FOR SMARTPHONES

6 Viewing Camera Image

The real-time camera image can be viewed on the smartphone.

1. Select the Sidebar menu (=) and then select [Live Video].



NOTE

· Video is not recorded with this function.

OPERATIONS OF VIEWER APPLICATION FOR SMARTPHONES

7 Changing Password for Wi-Fi

The password necessary for Wi-Fi connection to the Dash Camera can be changed.

- 1. Select the Sidebar menu ().
- 2. Select [Settings], change the password and then select [Done].



3. Once you select [Done] on the Settings screen, the new settings will take effect on the Dash Camera.

NOTE

• If Wi-Fi password is forgotten, the password can be reset to factory default using the Windows/Macintosh viewer. (See page 39.)

Dash Camera

Question		Answer
When the power of the vehicle is turned on, the LED does not turn on/the power does not turn on.	\Box	There may be an issue with the power supplied to the Dash Camera. Consult the dealership where you purchased the Dash Camera.
How can I check the video recorded successfully?	\Box	Check that the video is displayed using the Viewer software (See page 22.) or the smartphone. (See page 50.)
Can I intentionally delete the data in the micro SD card?	\Box	The video data can also be deleted by formatting of the micro SD card.
The dedicated micro SD card is inoperative. What can I do?	\Box	Format the micro SD card. (See page 47.) If recording is still unavailable, consult the dealership where you purchased the Dash Camera.
Buzzer sound is too low. Can I raise the volume?	\Box	The volume of the buzzer can be changed on the viewer software. (See page 39 and 57.)
Is recording available when the battery is disconnected due to a shock during an accident?	\Box	The Dash Camera contains a backup battery for unexpected battery disconnection during an accident. The backup battery enables recording the video for approximately 5 seconds* after the power shutdown; however this recording is not guaranteed. *The backup battery is rechargeable, so back up may not be possible right after the power is turned on or in the low temperature.
Can I change the recording time?	\Box	See page 67 for the recording time. Change the image quality mode by the viewer software. (See page 39 and 57.) *Performance cannot be guaranteed when a commercially available micro SD card is used.
I cannot find a recorded video.	\Box	This Dash Camera is a constant-recording type of video recorder. When the micro SD card is full, older videos are overwritten in the unit of "Chapter" files (except event-protected video files). Please download any important videos to your computer or smartphone as soon as possible.

Dash Camera (continued)

Question		Answer
The Dash Camera cannot recognize the traffic signal color.	\Box	If only the traffic signal light is not displayed, it is not necessarily a failure with the Dash Camera. Depending on the video recording frequency and the LED type traffic signal frequency, there is a possibility that the traffic signal appears to be off. In addition, there is a possibility that the traffic signal color is not visible under some circumstances such as the backlight. In that case, judge the traffic signal color from the contents of video before and after the timing and from the vehicle conditions around the vehicle. We are not liable for the condition that the traffic signal color cannot be detected.
The power of the Dash Camera cannot be turned off even when the engine is turned off.	\Box	Camera power off delays depends on camera setting. (See page 42 and 58.) Consult the dealership where you purchased the Dash Camera.
The Dash Camera does not start.	\Box	Consult the dealership where you purchased the Dash Camera.
The video cannot be recorded onto the micro SD card.	\Box	The Dash Camera may not be working properly due to the following reasons. Please check. Is the micro SD card in a normal condition? If there is any problem, format the micro SD card. (See page 47.) Is the micro SD card genuine or the one provided with the Dash Camera? Micro SD card provided with the Dash Camera is industrial grade with longer life compared to other commercially available micro SD cards. Performance cannot be guaranteed when a commercially available micro SD card is used.
The start-up time before the recording starts is long.	\Box	When the micro SD card has space at the time of formatting, the "DUMMYMOVExxxx.DAT" file is created. Therefore, the time before startup of recording becomes longer.
The recording time is shorter than 150 minutes.	$\Box \rangle$	Please check if there is other files in the micro SD card or Adventure mode video files. Or, when short drives are repeated, the number of on/off counts of the Dash Camera increases. In that case, the recording time gets shorter.

Dash Camera (continued)

Question		Answer
Event file frequently created. Why?	\Box	The sensor sensitivity can be adjusted by the viewer software. (See page 40 and 58.) Please perform "calibration". (See page 18.) If it cannot be solved, consult the dealership where you purchased the Dash Camera.
When getting in or out of the vehicle, parking surveillance protected files are automatically created.	\Box	Check the parking surveillance function sensitivity settings and adjust if necessary. (See page 42 and 58.)
Files recorded during parking contain many files without any abnormal conditions. The video file is not created even after the vehicle is hit while in a parked condition.	\Box	Check the parking surveillance function sensitivity settings and adjust if necessary. (See page 42 and 58.)
 The Dash Camera has come off the windshield and I would like to reinstall it by myself. I would like to relocate the Dash Camera on the other part of the windshield. 	\Box	 Double sided tape can be purchased at your dealership. Do not use other double sided tape. Please consult your dealership for details. (Please take note of the following when replacing double sided tape.) Remove all remaining adhesive from the Dash Camera. Clean the contact surface of the Dash Camera and the windshield. They must be free of dust, oil, etc. before you reinstall it on the windshield. Avoid the installation of this Dash Camera in low temperatures. Make sure the windshield temperature is at 20°C (68°F) or higher before reinstalling the Dash Camera. Refer to the Dash Camera installation manual when you install the Dash Camera on the windshield. Please perform "calibration". (See page 18.)
Wi-Fi network does not appear.	\Box	Wi-Fi network may take 1 minute to appear after ignition is turned ON.

Viewer Software

Question		Answer
I do not have a computer. Can I see the recorded video?	\Box	Recorded videos can be played back by the viewer application for the smartphone. (See page 50.)
The OS of computer is Windows 98, ME, 2000, XP, or Vista. Can I see the videos?	$\Box\!$	The viewer software does not start up with the OS older than Windows 7.
The viewer software does not start.	\Box	The viewer software does not support older operation system. Confirm the required specifications of Windows computers or Macintosh computers from the following URL. http://www.e-iserv.jp/top/driverecorder/ DashCamViewer/index.html?lang=en In case if the OS is a proper version but the software does not start, the file of the viewer software may be corrupted. Re-install the software. (See page 22 and 49.) The viewer software does not support other OS such as Linux.
Can I watch the recorded videos with the general- purpose software such as Windows Media Player, etc.?	\Box	Yes. However, distinguishing between the constantly-recorded videos and other videos that were protected by using the ACTION button is not possible. In addition, not all general-purpose software can be used for playback.
The video does not start playing back even the playback button is pressed.	\Box	Open the file again and playback. If the playback still does not start, the video file may be corrupted. When the file is corrupted, playback is not possible. Delete the file that cannot be played back. If the file cannot be deleted, backup the necessary files in the micro SD card. (See page 35.) Then, format the micro SD card. (See page 47.)
The video image is disturbed and/or the voice is interrupted during playback.	\Box	End the viewer software and re-start up the viewer software to play back the video.
Viewer software was accidentally deleted.	$\Box \!$	Software can be downloaded from the download site. (See page 22, 49 and 50.)
The computer does not recognize the micro SD card when the card is inserted.	\Box	The micro SD card may not be properly inserted in the computer. Eject the micro SD card once and insert it again. In addition, when the card reader is used, the card reader itself may not be recognized by the computer.

Viewer Software (continued)

Question		Answer
When the setting screen of the Dash Camera is opened, a warning message, "The configuration file cannot be read." opens.	\Box	When opening the setting screen of the Dash Camera, the Dash Camera loads the configuration record file that was actually working from the micro SD card. This actual configuration record file does not exist right after purchasing or after formatting the micro SD card. In that case, the warning message on the left is displayed; this is normal. Select the [OK] button.
When I select a video in the "Trip" tab, it plays back from part way through a trip; is it supposed to do this?	\Box	When the micro SD card is full, older videos are overwritten in the unit of "Chapter" files. If old files that would be overwritten are event- protected, the protected files are left as is, so when you select a video in the "Trip" tab, it may start playing partway through a trip.
I changed the setting on the setting screen of the Dash Camera and loaded. However, the changed setting is not reflected.	\Box	Insert the micro SD card into the Dash Camera and start up. The set content becomes reflected.
The location of the vehicle on the map is deviated from the actual location.	\Box	Depending on the location such as a high-rise area or the GPS satellite condition, the GPS data cannot be properly received, and the location of the vehicle may be displayed at a deviated location on the map.
The speed of the vehicle is deviated from the actual speed.	\Box	The speed is acquired from the GPS data. Depending on the location such as a high-rise area or the GPS satellite condition, the speed may be different from the actual speed.
The playback speed slows down sometimes.	\Box	When the size of recording data increases, the frame rates is lowered in order to secure the recording time. In this case, the video seems slow sometimes.
When the playback button is pressed, the image is played back but without voices.	\Box	Confirm microphone switch position. Confirm the volume setting of the viewer software. Check the settings. (See page 30.) Confirm that the volume setting of computer or smartphone is not at minimum.

GENERAL SPECIFICATIONS

Item	Specification				
Operating temperature range	-20 to +65°C / -4°F to 149°F				
Storage temperature range	-30 to +85°C / -22°F to 185°F				
Power supply voltage	12 VDC				
Consumption current	1A or lower				
External dimension	85 mm(H) \times 55 mm(W) \times 36 mm(L) 3.3 in(H) \times 2.1 in(W) \times 1.4 in(L) (excluding projecting parts)				
Weight	146g (5.15 oz)				
Recording method	Continuous Recording				
Movie recording time *1 (when an 8-GB microSD card is used)	High:Approx. 130 minStandard:Approx. 170 minLong Time Mode:Approx. 260 min				
Number of video frames	28 frames/sec				
Image size (Bit rate)	High: 1920 × 1080 (Approx. 8 Mbps) Standard: 1920 × 1080 (Approx. 6.2 Mbps) Long Time Mode: 640 × 360 (Approx. 4 Mbps)				
Number of protected records	Manual Event Protection:5 recordsAutomatic Event Protection:10 recordsParking Surveillance:10 records				
Clock accuracy	Correct by GPS				
Photographic element	1/2.7" Color CMOS				
Number of effective pixels	Approx. 2-million pixels				
Angle of field	Horizontal 117° × Vertical 70°				
Video/voice compression method	MP4 (H.264 + AAC)				
Wireless LAN	IEEE 802.11 b/g/n Frequency band: 2.4 to 2.4835 GHz Type of modulation: DSSS: BPSK/QPSK/CCK OFDM: BPSK/QPSK/16QAM/64QAM Transmission rate: 802.11b: 11 Mbps (max) 802.11g: 54 Mbps (max) 802.11n (20 MHz): 72.2 Mbps (max)				
Certificate	FCC ID: BABFT0112A IC: 2024B-FT0112A				

*1: The recording time corresponds with the total time of the continuous-recording and the event protection (G detection, Adventure mode, and Surveillance mode).