

Pioneer

VREC-130RS

DASH CAMERA

English

Owner's Manual

Contents

Thank you for buying this Pioneer product.

Please read through these instructions so you will know how to operate your model properly. After you have finished reading the instructions, keep this document in a safe place for future reference.

Always read and follow the "Safety Precautions" described in this manual when installing this product in a vehicle. There is a risk of accident and injury if this product is installed using methods other than those described in this manual, or if parts are used other than those described in this manual. Pioneer Corporation accepts no responsibility whatsoever in these cases.

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Precaution

Certain country, state and provincial laws may prohibit or restrict the placement and use of this product in your vehicle. Please comply with all applicable laws and regulations regarding the use, installation and operation of this product.

⚠ WARNING

- There is a danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type.
- Do not expose a battery to high or low extreme temperatures during use, storage or transportation.
- Do not allow the battery to be exposed to fire or excessive heat or to become crushed or cut, or dispose of the battery in a fire or hot oven, which could result in an explosion.

⚠ CAUTION

- "Perchlorate Material – special handling may apply. See www.dtscc.ca.gov/hazardouswaste/perchlorate. (Applicable to California, U.S.A.)"
- The graphical symbol  placed on the product means direct current.
- When disposing of used batteries, please comply with governmental regulations or environmental public institution's rules that apply in your country / area.
- Your location may require you to post a notice to passengers that conversations are being recorded if you use the product's audio recording function. It is your responsibility to learn and comply with the requirements of your location, including notice and consent for recording audio and/or video.

If you wish to use the audio recording function, you can visit <https://pioneerelectronics.com/PUSA/arn> to print out a notice to post in your vehicle, or you can find a notice you prefer at retail. **Your use of this product, including how you provide notice to passengers, is your responsibility as the operator of the product.**

Information to User

Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

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.

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.

FEDERAL COMMUNICATIONS COMMISSION SUPPLIER'S DECLARATION OF CONFORMITY

Product Name: DASH CAMERA

Model Number: VREC-130RS

Responsible Party Name: PIONEER ELECTRONICS (USA) INC.
SERVICE SUPPORT DIVISION

Address: 2050 W. 190TH STREET, SUITE 100, TORRANCE, CA 90504, U.S.A.

Phone: 1-800-421-1404

URL: <https://www.pioneerelectronics.com>

CAN ICES-3 B/NMB-3 B

After-sales service for Pioneer products

Please contact the authorized Pioneer dealer from which you purchased this unit or an authorized Pioneer service company for aftersales service or questions you may have about the product. You may contact Pioneer directly as follows:

Do not ship your unit in for repair without contacting Pioneer first. Units sent without a return authorization number will be refused.

USA & CANADA

Pioneer Electronics (USA) Inc.
CUSTOMER SUPPORT DIVISION
P.O. Box 1760
Long Beach, CA 90801-1760 U.S.A.
800-421-1404

For warranty information, please see the Limited Warranty sheet included with this unit.

Visit our website

U.S.:

<https://www.pioneerelectronics.com>

Canada:

<https://www.pioneerelectronics.ca>

- Learn about product updates (such as firmware updates) for your product.
- Register your product.
- Access owner's manuals, spare parts information, service information, and much more.

Safety Precautions

Always observe the precautions described here to prevent harm to yourself and others and to prevent damage to property before it happens.

Important safeguards

WARNING

- Do not install this product in your vehicle if its location or use would obstruct the driver's clear view of the road or the operation of any vehicle airbag. It is also the driver's responsibility to know and comply with the laws, rules, and regulations of the driving location, including, for example, passenger privacy rights, and not to use the device in any location where its installation or use is prohibited.
- Do not use this device to make audio or video recordings prohibited in the location where you are using this product. Always provide the notice that is required in your location that video and audio recordings (if audio is in use) are being made and obtain appropriate consent and authorization from the persons being recorded. Some states, provinces and municipalities require posting a visible written notice that occupants and conversations are being recorded.
- Any obstruction of or other interference with the airbag, either deployed or non-deployed, or with the clear view of the road must be avoided and, accordingly, professional installation is required.
- We recommend that this product be set up and installed by a technician who has special training and experience in mobile electronics.

Important safety information

WARNING

- Do not allow this product to come into contact with liquids. Electrical shock could result. Also, damage to the product, smoke, and overheating could result from contact with liquids.
- If liquid or foreign matter should get inside this product, park your vehicle in a safe place, turn the ignition switch off (ACC OFF) and unplug the cigarette lighter plug immediately, and consult your dealer or the nearest authorized Pioneer Service Company. Do not use this product in this condition because doing so may result in a fire, electric shock, or other failure.
- If you notice smoke, a strange noise or odor from this product, or any other abnormal signs on the LCD screen, turn off the power immediately and consult your dealer or the nearest authorized Pioneer Service Company. Using this product in this condition may result in permanent damage to the system.
- Do not disassemble or modify this product, as there are high-voltage components inside which may cause an electric shock. Be sure to consult your dealer or the nearest authorized Pioneer Service Company for internal inspection, adjustments or repairs.

Before using this product, be sure to read and fully understand the following safety information:

- Do not operate this product if doing so will divert your attention in any way from the safe operation of your vehicle. Always observe safe driving rules and follow all existing traffic regulations.
- Keep this manual handy as a reference for operating procedures and safety information.
- Certain functions (such as viewing of screen and certain button operations) offered by this product could be dangerous (possibly resulting in serious injury or death) and/or unlawful if used while driving.

Precautions before connecting the system

WARNING

- Firmly install this product so it does not fall off the windshield. If this product is not firmly installed, it may fall off the windshield while driving and cause an accident. Periodically inspect this product.
- Pioneer recommends that only authorized service company personnel, who have special training and experience in mobile electronics, set up and install this product.
- Secure all wiring with cable clamps or electrical tape. Do not allow any bare wiring to remain exposed.
- **It is extremely dangerous to allow cables to become wound around the steering column or shift lever. Be sure to install this product, its cables, and wiring away in such so that they will not obstruct or hinder driving.**
- **Make sure that the cables and wires will not interfere with or become caught in any of the vehicle's moving parts, especially the steering wheel, shift lever, parking brake, sliding seat tracks, doors, or any of the vehicle's controls.**
- Do not route wires where they will be exposed to high temperatures. If the insulation heats up, wires may become damaged, resulting in a short circuit or malfunction and permanent damage to the product.
- Do not shorten any cables. If you do, the protection circuit (fuse holder, fuse resistor or filter, etc.) may fail to work properly.
- Never feed power to other electronic products by cutting the insulation of the power supply cable of this product and tapping into the cable. The current capacity of the cable will be exceeded, causing overheating.

To prevent damage

WARNING

- When replacing the fuse, be sure to only use a fuse of the rating prescribed on this product.

Precautions before installation

⚠ WARNING

- **Do not install this product where it may**
 - (i) **obstruct the driver's vision,**
 - (ii) **impair the performance of any of the vehicle's operating systems or safety features, including airbags, hazard lamp buttons or**
 - (iii) **impair the driver's ability to safely operate the vehicle.**
- **Never install this product in front of or next to the place in the dashboard, door, or pillar from which one of your vehicle's airbags would deploy. Please refer to your vehicle's owner's manual for reference to the deployment area of the frontal airbags.**


⚠ CAUTION

- To ensure proper installation, be sure to use the supplied parts in the manner specified. If parts other than those supplied are used, they may damage internal parts of this product or come loose and the product may become detached, which could injure the driver or passengers if the vehicle stops suddenly.
- Before making a final installation of this product, temporarily connect the wiring to confirm that the connections are correct and the system works properly.
- Do not install this product in places subject to high temperatures or humidity, such as:
 - Places close to a heater, vent or air conditioner.
 - Places that may be exposed to rain, such as close to the door.

Disclaimer

- Given the large number of variables and conditions that can be involved in an accident, Pioneer cannot guarantee that every accident or occurrence will trigger the recording feature in this device.
- This product's features may not operate properly due to the effects of settings, how this product is installed, the condition of the microSD card, and driving conditions (including the road conditions).
- If brightly colored objects are placed on the dashboard, they may be reflected in the front windshield and the camera image. Do not place brightly colored objects on the dashboard.
- Video files from this product are not guaranteed to be admissible as evidence in the event of an accident.
- You may not be able to recognize the conditions in the front of the vehicle in recorded video, depending on the ambient conditions, such as the weather and time of day.
- LED traffic signals or street lamps on the road may appear as flashing or flickering when recorded with this product. The color may also not be correctly identifiable.
- This product is designed to save video before and after an accident occurs by detecting the impact (acceleration) with the G-sensor (accelerometer). However, this product is not guaranteed to save video in all situations.
- Pioneer accepts no responsibility whatsoever for product failures or damage that occur due to the microSD card wearing out.

How to read this Manual

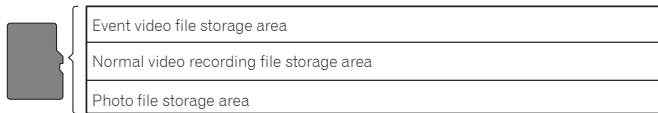
Notation	Meaning
	These symbols are used to draw your attention to items you should be aware of when using this product and items you should be aware of to maintain its performance.
Note / Notes	Notes provide useful tips and extra information about product features.
[○○]	Square brackets are used to indicate selectable items displayed on the screen.
→“○○○○”	Quotation marks are used to indicate references and settings.

- The illustrations and example screens used in this manual may differ from the actual product.
- In this manual, the microSDHC memory card is referred to as “the microSD card” for convenience.

Usage Precautions

⚠ Precautions When Handling this product

- The driver may manually set the device to save video to assist in the monitoring of driver performance.
- There are limits to the scope of video that can be recorded with this product (→ **"Specifications"**). First check the video that will be recorded before using this product.
- Do not use this product in locations subjected to high temperatures of 60 °C (+140 °F) or higher, low temperatures of -10 °C (+14 °F) or lower, or high humidity.
- Be careful not to infringe on the privacy of any subject in recordings made with this product when using such recordings. You are fully responsible for the use of such recordings, which may include personal information, such as numbers on number plates.
- Recording time may shorten or recording may not be possible when the power supply to the product stops (vehicle engine is turned off, or the cigarette lighter power cable is removed).
- Be sure to use the included power cable for charging the battery.
- The storage areas on the microSD card are split into the three areas shown in the following diagram according to the type of recording.



- Note that files will be overwritten when there is insufficient free space in the file storage areas. We recommend that you back up any important files you want to keep. → **"Backing Up Recorded Files"**
- To ensure that important files, such as files containing records of accidents, are not damaged or corrupted, always turn the power off before removing the microSD card and store the card in a safe place. → **"Inserting and Ejecting the microSD™ Card"**
- You can view video files on your PC. However, the video may stutter or stop depending on the performance of the PC.
- If this product is used near another device that uses GPS, such as a car navigation system, that device may temporarily be unable to receive radio waves from GPS satellites due to radio interference. There may also be a negative impact on the functions of surrounding devices.
- The internal battery is a consumable part. This battery is for retaining the time, and may fail to retain the time after repeated use. Contact Pioneer support if the time resets frequently.
- The internal battery is a consumable part. The operating time will slowly decrease as the battery is repeatedly charged.
- Do not touch the lens with your hands. Wipe the lens off with a soft cloth if you touch it.

⚠ Precautions When Handling the microSD Card

- Keep the microSD card out of the reach of small children to prevent them from accidentally swallowing it.
- To prevent data loss and damage to the microSD card, never remove it from this product while data is being transferred.
- If data loss or corruption occurs on the microSD card for any reason, it is usually not possible to recover the data. Pioneer accepts no liability for damages, costs or expenses arising from data loss or corruption.
- Never insert or eject a microSD card while driving.
- This product supports the following microSD cards.

	microSDHC
Capacity	16 GB ~ 32 GB
File system	FAT32
Speed class	Class 10 or better

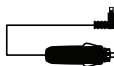
Not all microSD cards are guaranteed to work with this product.

- Format the microSD card before using it. Do not use a microSD card that contains other data, such as that from a PC.
- Periodically format the microSD card after transferring any needed files, such as accidents, to other secure storage.
- Do not eject the microSD card when it is being accessed. The file or card may be corrupted.
- Even if the microSD card is used normally, you may no longer be able to write data to the card or erase data from the card normally.
- The service life of the microSD card is not covered under the warranty.
- The microSD card is a consumable part. We recommend that you regularly replace the microSD card with a new card. If you use the microSD card for a long period of time, this product may no longer be able to save data to the card correctly due to bad sectors, or an error may occur and the card will no longer be usable.
- On rare occasions, a microSD card that is recognized by your computer may not be recognized by this product. In this case, depending on the problem with the microSD card, this product may be able to recognize the card by formatting it with this product format feature → **“Product Settings” - “Configurable Features” - “System Setting” - “Format SD Card”**. However, all files, including protected files, saved to the microSD card will be erased when it is formatted. Always transfer files on the microSD card to other secure storage before formatting it.
- Pioneer does not make any assurances that microSD card problems will be repaired by formatting the card. Pioneer bears no responsibility for files that are erased from the microSD card or damage that occurs from formatting the card. Format the microSD card according to your own judgment and at your own responsibility.

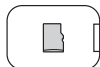
Check the Accessories



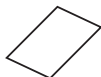
Main Unit×1

Suction Mount Cradle
×1Cigarette Lighter Power
Cable
(3.5 m/11 ft. 6 in.)×1

Safety Strap×1

microSDHC Card
(16 GB)×1

Quick Start Guide×1



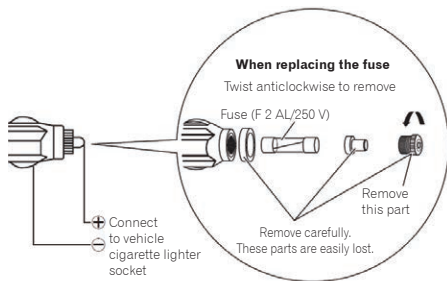
Warranty×1

Note

All images in this document are for illustrative purpose only and subject to change.

When replacing the fuse

If the product does not power on or charge even when the included cigarette lighter power cable is connected, then check if the fuse is blown.



CAUTION

If the fuse is blown, then replace this with a new standard glass tube fuse (diam. 5.0 mm/length 20 mm), and tighten the tip fully. Ensure that the fuse is replaced with one of the rated type and capacity (F 2 AL/250 V).

Before Installing the Product

⚠ WARNING

- Never install on the cover of an airbag or at locations that might obstruct the deployment of the airbag. Doing so might prevent the airbag from being deployed normally, cause the product to fly out due to airbag deployment, and cause accident and injury.
- First check with the vehicle manufacturer for precautions related to the installation work when installing the product in a vehicle equipped with airbags. Otherwise there is a risk of airbag malfunction.

⚠ CAUTION

- Always use the included parts as specified. There is a risk of product failure if other parts are used.
- Install this product in a location where it will not hinder vehicle equipment and the ability to drive the vehicle.

Installation Precautions

- The main unit is for installation to the inside of the front window only. Do not install it anywhere else inside or outside of the vehicle.
- When installing the main unit to the inside of the front windshield, be sure to install it to the specified positions of the front windshield and within the specified dimensions.
- Make sure that the surface of the front windshield is clean and dry before attaching the mounting cradle.
- Depending on the vehicle, installation at the specified location and within the specified dimensions may not be possible. For details, consult with your dealer.
- Do not cover the main unit or get the lens dirty.
- Do not place reflective objects near the lens.
- Take care when handling the main unit that it does not drop and you do not touch the lens.
- Recording quality may be affected if the front windshield of the vehicle is coated or has been specially treated.
- Choose a working location free from dust and debris in the air.
- When the temperature is low or there is condensation on the glass, turn on the heater and defroster to warm up the window in order to prevent poor adhesion of the mounting cradle.
- To avoid the windshield mounted cradle from detaching, you may attach the safety strap (included in the box).

Installation Tips

Before Installing and Securing the Product

- First, temporarily connect this product and confirm that it operates correctly, and then install it. If the product does not operate correctly, check whether there is a mistake in the connection.

Before Applying Mounting Cradle

- Clean the location where the mounting cradle will be applied.

⚠ CAUTION

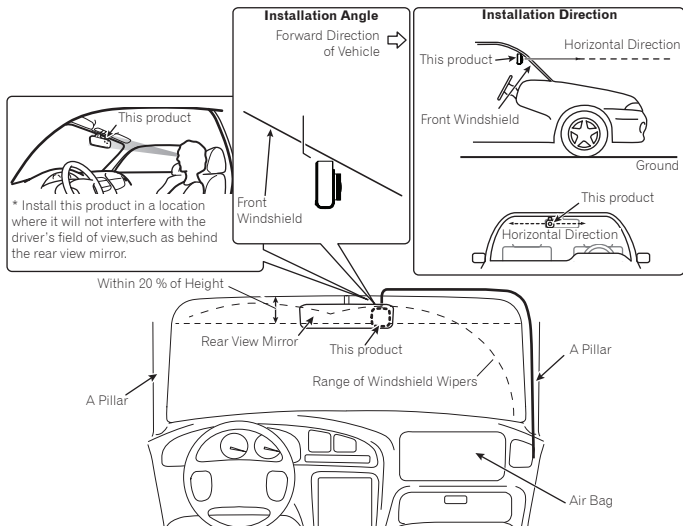
- Install firmly so that it does not come off. Incorrect installation may cause this to detach while driving and cause an accident. Inspect the installation state from time to time.

Installation

Specified Installation Position on Front Windshield

When installing this product, install in a position that satisfies all of the following conditions if allowed by applicable law in your location:

- Install in a 7-inch/17.8 cm square in the lower corner of the windshield farthest from the driver, a 5-inch/12.7 cm square in the lower corner of the windshield nearest to the driver and outside of any airbag deployment zone, or in a 5-inch/12.7 cm square mounted to the center uppermost portion of the interior of the windshield. The ideal location is behind the rearview mirror out of the driver's view as shown below.
- A position where this entire product is within 20 % of the top edge of the height of the front windshield (range within 20 % of the actual length, excluding parts overlapping weatherstrips, mouldings, etc. and masked parts) or is in the shadow of the rear view mirror as viewed from the driver's seat.
- Note that "20 %" as described above is a rough estimate. Please install the product in accordance with your country's laws and regulations.
- A position where the lens part of this product is within the wiping range of the wiper.
- A position where the lens part of this product does not hang over the sunshade or the black ceramic lines/black ceramic pattern.
- A position where this product faces in the horizontal direction to the front.
- A position where the power cable can be routed without unnecessary force.



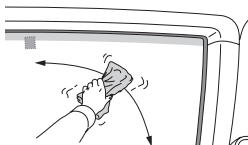
⚠ IMPORTANT

Always install this product in the specified installation position to ensure a clear view of the road while driving and to achieve full performance from the product.

Pioneer is not liable for any damages due to faulty or improper installation or use of the product.

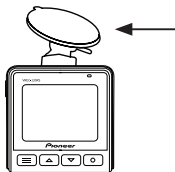
Install this Product

1 Clean the installation area.



2 Install this product.

- ① Fix the Suction Mount Cradle to the Main Unit.
- ② Install at the specified position of the front windshield, adjusting the direction to make the image horizontal.



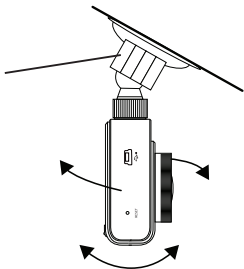
⚠ CAUTION

- Make sure that the surface of the front windshield is clean and dry, before attaching the cradle.
- Firmly press the suction cradle installed on the windshield.
- Do not install the cradle by itself. Always use it connected with the Dash Camera.
- Never touch the surface of the LCD.
- Install firmly so that it does not come off. Incorrect installation may cause the unit to drop while driving, which may cause an accident. Inspect the installation state from time to time to ensure the unit remains securely attached.
- To avoid the windshield mounted cradle from detaching, you may attach the safety strap (included in the box).

3 Adjust the installation angle.

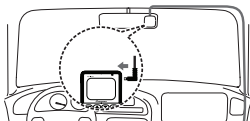
Loosen the angle adjustment nut to adjust. After adjusting, tighten the loosened nut to secure.

Angle
adjustment nut



4 Connect the cigarette lighter power cable to the main unit.

Route the power cable to the passenger seat side.

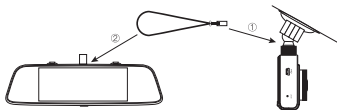


5 Turn the vehicle engine on to display the recording screen.

Note

A protective film is applied to the lens when the product is purchased. Peel off this film.

6 Installing the Safety Strap.



- ① Hook the smaller loop of the safety strap around the Mounting Cradle where it connects to the Main Unit, and then connect the Mounting Cradle to the Main Unit.
- ② Hook the larger loop of the Safety Strap around the Rear View mirror attached to the windshield.
- ③ Once the Safety Strap is connected to both the Rear View Mirror and the Dash Camera, attach the Dash Camera to the front windshield close to the location of the Rear View Mirror.

Note

Always install this Safety Strap as described. Do not cut the Safety Strap or install it in any other way than as described. Pioneer is not liable for any damage, due to installation other than described, or use of the product.

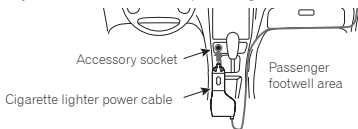
7 Removing this product.

- ① Unhook the mounting cradle from the windshield.
- ② Remove this product.

Connecting the Power Cable

Cigarette Lighter Power Cable Connection

Fully insert this into the vehicle accessory socket to make a good connection. (The location of the accessory socket will differ depending on the vehicle.)

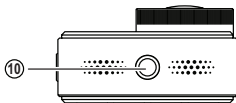


⚠ CAUTION

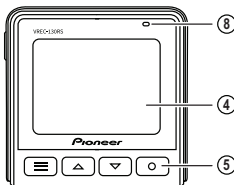
- The accessory socket may be extremely hot immediately after using the cigarette lighter. Also, the tip of the cigarette lighter power cable may melt or short circuit if it is plugged in while the socket is hot. Wait for the socket to cool before plugging in the cigarette lighter power cable.

Part Names

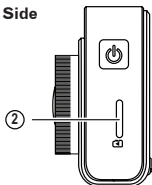
Top



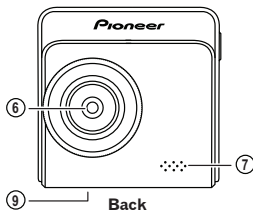
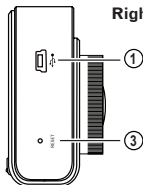
Front



Left Side



Right Side



Back

① **Power Port**

Connect the cigarette lighter power cable.

② **microSD card Slot**

Up to 32GB microSD Card capacity.

③ **Reset Button**

Press this button with the tip of a ballpoint pen to reset this product.

④ **LCD**

⑤ **Function Buttons**

⑥ **Lens**

⑦ **Speaker**

⑧ **System Indicator**

⑨ **Microphone**

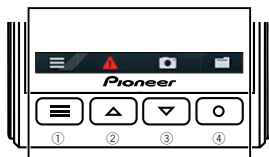
⑩ **Suction Mount Cradle connection point**

Function Buttons

The functions of the function buttons are indicated by the icons displayed at the bottom of the screen. The functions of the buttons will depend on the displayed screen. (Icons are not displayed on some screens.)

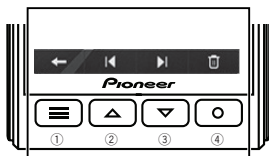
In the playback screen or MENU screen, holding down the  function button returns you to the previous screen.

Recording



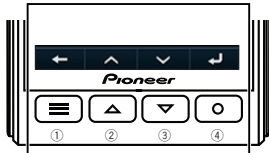
- | | |
|--|--------------|
| ① Main Menu Display | ③ Take photo |
| ② Manual recording of events (Event Recording) | ④ Playback |

During playback



- | | |
|-----------------|-------------|
| ① Back | ③ Next File |
| ② Previous File | ④ Delete |

During MENU screen display



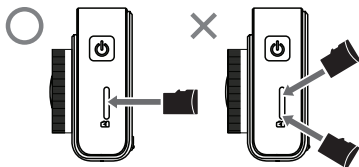
- | | |
|--------|-----------|
| ① Back | ③ Down |
| ② Up | ④ Confirm |

Inserting and Ejecting the microSD™ Card

Turn off the power to this product when inserting and removing the microSD card.
→ **“Manually Turning the Power On and Off”**

Inserting the microSD Card

Hold the top edge of the microSD card, position the microSD card so that the label is facing the lens side of this product, and slowly insert it into the microSD card slot until it clicks.

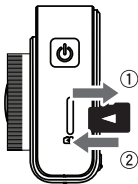


⚠ CAUTION

- Do not insert the microSD card at an angle. Doing so may cause damage.

Ejecting the microSD Card

Slowly push in the top edge of the microSD card until it clicks ①. The lock will be released. Pull out the microSD card ②.



⚠ CAUTION

- Ensure care is taken when handling the microSD card, as it becomes hot after being written.

Backing Up Recorded Files

When the free space of the file storage areas is low, files are deleted from the oldest file. We recommend that you back up any important files you want to keep using the following procedure.

Note

Prepare a spare microSD card in advance.

1 Replace the microSD card.

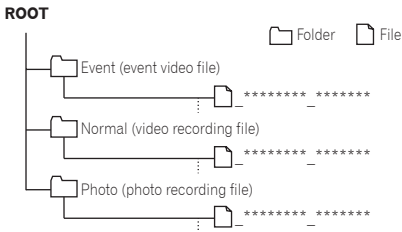
Stop the vehicle in a safe location. Then turn off this product power, eject the microSD card, and replace it with a spare microSD card.

2 Copy or move the files to a PC.

Insert the microSD card into a PC, using a commercially available SD card adapter if necessary. Copy or move the videos and photo files to back up to a suitable location on the PC.

Folder and File Structure

The structure of folders and files in a microSD card is as follows.



Note

The year, month, day, hours, minutes, and seconds are automatically assigned at "*****_*****".

Using this product

Before using this product, first stop the vehicle in a safe location and apply the parking brake.

This product Power

This product starts when the vehicle's engine is turned on (ACC ON), and it automatically starts recording. (Video recording) → **"Using this product" - "Video Recording"**

⚠ CAUTION

- If you do not use the device for a long time, the battery power in the device may run out.
- If the internal battery is empty, you will need to rest the time / date from the setting menu.
- Please ensure the product is connected to the cigarette lighter socket, and powered on for a minimum of 30 seconds for sufficient battery charge to save the time.

Manually Turning the Power On and Off

This product can be manually turned on and off from the side of the main unit.

The Cigar Charger cable must be connected and the vehicle ACC ON at all times to power the main unit ON/OFF.

When the main unit power is off: Long press ON/OFF Button for 3 seconds to start up.

When the main unit power is on: Long press ON/OFF Button for 3 seconds to shut down.

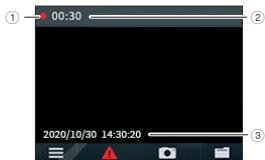
System Indicator Display

The operating status of this product is displayed with the system indicator.

System Indicator	Menu Displayed	Normal Recording	Recording Event	Error Has Occurred (Including microSD Card not Inserted)
Illuminated green	—	○	—	—
Blinking green	—	—	○	—
Not illuminated	○	—	—	○

How to View the Recording Screen

The status display shows the operating status of this product.



- ① Recording in progress
- ② Elapsed recording time
- ③ Date / Time

Video Recording

Recording automatically starts when this product is started. The recorded video is saved to the microSD card as one file of the set increment of time (default: 3 minutes), and when the microSD card runs out of free space, the files are overwritten starting from the oldest file.

Notes

- You can change the video recording time.
→ **"Product Settings" - "Configurable Features" - "Recording Setting" - "Video Resolution"**
- Video recording will stop under the following circumstances.
 - When the MENU screen is displayed
 - When the power supply is stopped
 - When parking mode has started
 - When the microSD Card is removed
- The recording time may differ depending on the conditions.

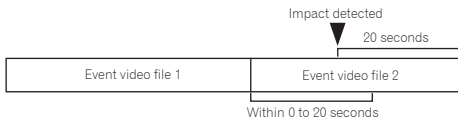
Automatic Recording by Detecting Impacts (Event Recording)

The video recording file when an impact is detected by this product (the dash camera), such as an impact with another vehicle, is recorded as an event video file to the "Event" folder.

The number of event video files and recording times will differ depending on when an impact is detected.

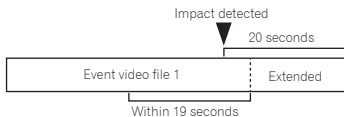
Detection early in file

If an impact is detected within 20 seconds of the start of recording of a video recording file, then the file before that in which this impact was detected and the file for the 20 seconds after the impact is detected are recorded as two event video files.



Detection late in file

If an impact is detected in the 19 seconds before the end of recording of a video recording file, then this file has its recording extended for 20 seconds after the impact is detected, and it is recorded as a single event video file.



Detection other than early or late in a file as above

The video from 20 seconds after the impact is detected and the video recording file recorded from immediately before are recorded as a single event video file.

If the impact continues during the event recording period, an event file of up to 20 seconds will be added.

Manual Recording (Manual Event Recording)

If manual record button is pressed during video recording, then this is recorded as an event video file with the same specifications as an event recording.

Notes

- You can adjust the sensitivity for detecting impacts.
→ **"Product Settings" - "Configurable Features" - "Recording Setting" - "G-Sensor"**
- When impact is detected or manual recording is performed in the event recording mode, event recording is started again after event recording ends.
- The recording time may differ depending on the conditions.

Automatic Recording by Detecting Impacts (Event Recording)

In each of the screens displayed from here on, the Monitor Display (screen) automatically goes black if you do not perform any operation for approximately 10 seconds. (This is the Monitor Display default setting).
Video recording does not commence while the user is in any menu operation.

You can play recorded video files.

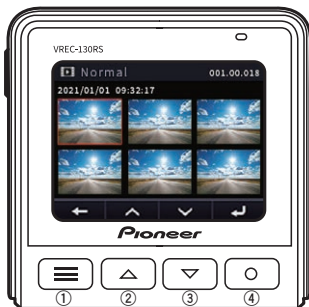
- ① Press the Playback recorded media button.



- ② Select the desired folder to view using the UP / DOWN hard key buttons. The thumbnails of files in the selected folder will be displayed.



- ③ Select the desired thumbnail using the hard key buttons to select the recorded media.



The thumbnails of files in the selected folder will be displayed.

- ① **Return to the previous menu**
② **Previous file**

- ③ **Next file**
④ **Confirm**



The selected file will play.

- ① **Return to the previous menu**
② **Previous recording**

- ③ **Next recording**
④ **Press to delete the recording**

Notes

- Select the file you want to delete and then press the confirm button again when prompted to do so from the on-screen GUI, to delete the selected file.
- If the video is too short, please insert the microSD Card into your PC to delete files.

Product Settings

Before using this product, first stop the vehicle in a safe location and apply the parking brake.

These settings configure this product. You can reset the settings to the default settings. You can also format the microSD card and check the firmware version. Note that video recording will stop while the MENU screen is displayed.

1 Press the Menu button to open the main menu.

In each of the screens displayed from here on, the Monitor Display (screen) automatically goes black if you do not perform any operation for approximately 10 seconds.

(This is the Monitor Display default setting).

Video recording does not commence while the user is in any menu operation.

2 Press Function Buttons to select the desired option.

In each menu setting, you can change the settings to your own preference.



Recording Setting

Setting	Details	Default Settings
Video Resolution	Sets the resolution quality of video recording. [FHD 1920×1080p]	FHD 1920×1080p
Video Quality	Sets the image quality of video recording. [Super Fine or Fine]	Super Fine
Video Clip Length	Sets the video clip length of video recording. [20 sec / 1 min / 3 min]	20 sec
Microphone	Sets whether to record sound during video recording. [ON or OFF]	OFF
G-Sensor	Sets the sensitivity for detecting vibration or impact. [OFF / High / Middle / Low]	Middle
Exposure Value	Sets the exposure of video recording. [-2 to +2]	0

System Setting

Setting	Details	Default Settings
Language	Sets the menu language. [English/Français/Español]	English
Monitor Display	Sets the time after which the monitor turns off. [Always ON / Off in 10 sec / Off in 30 sec / Off in 1 min]	Off in 10 sec
Button Sound	Sets beep tones. [ON or OFF]	ON
Volume	Sets volume level. [Low/Middle/High]	Middle
Date/Time	Sets the time manually. [Year/Month/day] [Hour/Min/Sec]	–
Format SD Card	All files on the microSD card are deleted.	–
Restore Factory Mode	Settings are reset to the default settings.	–
Version	Allows you to check the product model number and firmware version information of this product.	–

Guide to Recording Time

The following table provides estimates of the video recording times possible with different SD card capacities. The actual values will depend on various factors, such as the microSD card being used, subject being recorded, and recording conditions.

Guide to Recording Time with a 16 GB microSD Card

Resolution	Video type	16 GB
1080p	Normal Recording	Approx. 1 hour 30 minutes
1080p	EVENT Recording	Approx. 10 videos

Guide to Recording Time with a 32 GB microSD Card

Resolution	Video type	32 GB
1080p	Normal Recording	Approx. 3 hours
1080p	EVENT Recording	Approx. 20 videos

Notes

- The recording times are estimates. The actual recording times will depend on the scenery being recorded.
- Normal recording and EVENT recording both use the cycle erase storage mode. For key video that you need to keep, please export and backup on your computer promptly after the incident.
- After many repeated cycles of recording video, the microSD Card may get damaged, resulting in unsaved data. Regularly replace the microSD Card.

Troubleshooting

Check the following information before sending the product in for repairs.

Symptom	Cause	Action
An error occurred during the display and operation of this product.	The microcomputer in this product is malfunctioning.	Press the reset button. → “Part Names”
A file that should have been saved cannot be found.	If there is insufficient space in the storage areas of the microSD card, the files will be overwritten in order from the oldest files.	We recommend that you back up any important files you want to keep. → “Backing Up Recorded Files”
An accident occurred during driving, but a video file wasn't saved.	The sensitivity of impact detection may not be appropriate.	Adjust the sensitivity of the sensors to use for detection. → “Product Settings” - “Configurable Features” - “Recording Setting” - “G-Sensor”
There's no sound when I play a video file.	The sound recording setting may be OFF.	Check the sound recording setting again. → “Product Settings” - “Configurable Features” - “Recording Setting” - “Microphone”
An error occurred during the display and operation of this product.	The microcomputer in this product is malfunctioning.	Press the reset button. → “Part Names”

Specifications

Recording Medium	microSDHC card, Class 10 (16 GB to 32 GB)
Imaging Element	Approx. 2 million pixels (Built-in high sensitivity CMOS sensor)
Recording Angles	Main unit: 109° horizontal, 57° vertical, 132° diagonal
Focal Ratio Number	Main unit: F2.4
G-Sensor	3-Axis G-Sensor (level can be set in 4 steps)
Recording Methods	Video recording / Manual Event recording / Photo recording
Video File Structure	20 Sec
Display	2.0-inch LCD
Sound Recording	Can be set to ON or OFF (OFF as default)
Frame Rate	30.0 fps
Compression Method	Video: MOV (H.264) / Photo: JPG
Video Playback Method	On Dash Camera or microSD card in PC
Power Supply Voltage	Main Unit: DC 5 V (12 V cigarette lighter power cable incl.)
Fuse Type. (Used in cigarette lighter power cable)	Standard glad type fuse
Fuse Capacity. (Used in cigarette lighter power cable)	F 2 AL/250 V
Fuse Size. (Used in cigarette lighter power cable)	Diam. 5.0 mm / Length 20mm
Power Consumption	Approx. 2.3 W while charging
Operating Temperature	-15 °C to +60 °C (+5 °F to +140 °F)
Dimensions (W x H x D)	Main Unit: 59.5 mm x 60.2 mm x 31.2 mm (2-3/8 in. x 2-3/8 in. x 1-1/4 in.) (W x H x D)
Weight	60 g (0.1 lbs) (Excluding mounting bracket, power cord, etc.)

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Register your product at

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in Canada

<https://www.pioneerelectronics.ca>

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