

Pioneer

VREC-DH200

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.

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Declaration of Conformity with regard to the Radio Equipment Directive 2014/53/EU

Manufacturer:

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EU Representative's & Importer:

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[*] VREC-DH200

English:

Hereby, Pioneer declares that the radio equipment type [*] is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

<https://www.pioneer-car.eu/eur/compliance>

Suomi:

Pioneer vakuuttaa, että radiolaitetyyppi [*] on direktiivin 2014/53/EU mukainen.

EU-vaatimustenmukaisuusvakuutuksen täysimittainen teksti on saatavilla seuraavassa internetosoitteessa:

<https://www.pioneer-car.eu/eur/compliance>

Nederlands:

Hierbij verklaar ik, Pioneer, dat het type radioapparatuur [*] conform is met Richtlijn 2014/53/EU.

De volledige tekst van de EU-conformiteitsverklaring kan worden geraadpleegd op het volgende internetadres:

<https://www.pioneer-car.eu/eur/compliance>

Français:

Le soussigné, Pioneer, déclare que l'équipement radioélectrique du type [*] est conforme à la directive 2014/53/UE.

Le texte complet de la déclaration UE de conformité est disponible à l'adresse internet suivante:

<https://www.pioneer-car.eu/eur/compliance>

Svenska:

Härmed försäkrar Pioneer att denna typ av radioutrustning [*] överensstämmer med direktiv 2014/53/EU.

Den fullständiga texten till EU-försäkran om överensstämmelse finns på följande webbadress:

<https://www.pioneer-car.eu/eur/compliance>

Dansk:

Hermed erklærer Pioneer, at radioudstyrstypen [*] er i overensstemmelse med direktiv 2014/53/EU.

EU-overensstemmelseserklæringens fulde tekst kan findes på følgende internetadresse:

<https://www.pioneer-car.eu/eur/compliance>

Deutsch:

Hiermit erkläre Pioneer, dass der Funkanlagentyp [Bezeichnung] der Richtlinie 2014/53/EU entspricht.

Der vollständige Text der EU-Konformitätserklärung ist unter der folgenden Internetadresse verfügbar:

<https://www.pioneer-car.eu/eur/compliance>

Ελληνικά:

Με την παρούσα ο/η Pioneer, δηλώνει ότι ο ραδιοεξοπλισμός [*] πληροί την οδηγία 2014/53/ΕΕ.

Το πλήρες κείμενο της δήλωσης συμμόρφωσης ΕΕ διατίθεται στην ακόλουθη ιστοσελίδα στο διαδίκτυο:

<https://www.pioneer-car.eu/eur/compliance>

Italiano:

Il fabbricante, Pioneer, dichiara che il tipo di apparecchiatura radio [*] è conforme alla direttiva 2014/53/UE.

Il testo completo della dichiarazione di conformità UE è disponibile al seguente indirizzo Internet:

<https://www.pioneer-car.eu/eur/compliance>

Español:

Por la presente, Pioneer declara que el tipo de equipo radioeléctrico [*] es conforme con la Directiva 2014/53/UE.

El texto completo de la declaración UE de conformidad está disponible en la dirección Internet siguiente:

<https://www.pioneer-car.eu/eur/compliance>

Português:

O(a) abaixo assinado(a) Pioneer declara que o presente tipo de equipamento de rádio [*] está em conformidade com a Diretiva 2014/53/UE.

O texto integral da declaração de conformidade está disponível no seguinte endereço de Internet:

<https://www.pioneer-car.eu/eur/compliance>

Čeština:

Tímto Pioneer prohlašuje, že typ rádiového zařízení [*] je v souladu se směrnicí 2014/53/EU.

Úplné znění EU prohlášení o shodě je k dispozici na této internetové adrese:

<https://www.pioneer-car.eu/eur/compliance>

Eesti:

Käesolevaga deklareerib Pioneer, et käesolev raadioseadme tüüp [*] vastab direktiivi 2014/53/EL nõuetele.

El'i vastavusdeklaratsiooni täielik tekst on kättesaadav järgmisel internetiaadressil:

<https://www.pioneer-car.eu/eur/compliance>

Magyar:

Pioneer igazolja, hogy a [*] típusú rádióberendezés megfelel a 2014/53/EU irányelvnek.
Az EU-megfelelőségi nyilatkozat teljes szövege elérhető a következő internetes címen:
<https://www.pioneer-car.eu/eur/compliance>

Latviešu valoda:

Ar šo Pioneer deklarē, ka radioiekārta [*] atbilst Direktīvai 2014/53/ES.
Pilns ES atbilstības deklarācijas teksts ir pieejams šādā interneta vietnē:
<https://www.pioneer-car.eu/eur/compliance>

Lietuvių kalba:

Aš, Pioneer, patvirtinu, kad radijo įrenginių tipas [*] atitinka Direktyvą 2014/53/ES.
Visas ES atitikties deklaracijos tekstas prieinamas šiuo interneto adresu:
<https://www.pioneer-car.eu/eur/compliance>

Malti:

B'dan, Pioneer, niddikjara li dan it-tip ta' tagħmir tar-radju [*] huwa konformi mad-Direttiva 2014/53/UE.
It-test kollu tad-dikjarazzjoni ta' konformità tal-UE huwa disponibbli f'dan l-indirizz tal-Internet li ġej:
<https://www.pioneer-car.eu/eur/compliance>

Slovenčina

Pioneer týmto vyhlasuje, že rádiové zariadenie typu [*] je v súlade so smernicou 2014/53/EÚ.
Úplné EÚ vyhlásenie o zhode je k dispozícii na tejto internetovej adrese:
<https://www.pioneer-car.eu/eur/compliance>

Slovenščina:

Pioneer potrjuje, da je tip radijske opreme [*] skladen z Direktivo 2014/53/EU.
Celotno besedilo izjave EU o skladnosti je na voljo na naslednjem spletnem naslovu:
<https://www.pioneer-car.eu/eur/compliance>

Română:

Prin prezenta, Pioneer declară că tipul de echipamente radio [*] este în conformitate cu Directiva 2014/53/UE.
Textul integral al declarației UE de conformitate este disponibil la următoarea adresă internet:
<https://www.pioneer-car.eu/eur/compliance>

Български:

С настоящото Pioneer декларира, че този тип радиосъоръжение [*] е в съответствие с Директива 2014/53/ЕС.
Цялостният текст на ЕС декларацията за съответствие може да се намери на следния интернет адрес:
<https://www.pioneer-car.eu/eur/compliance>

Polski:

Pioneer niniejszym oświadcza, że typ urządzenia radiowego [*] jest zgodny z dyrektywą 2014/53/UE.
Pełny tekst deklaracji zgodności UE jest dostępny pod następującym adresem internetowym:
<https://www.pioneer-car.eu/eur/compliance>

Norsk:

Herved Pioneer erklærer at radioutstyr type [*] er i samsvar med direktiv 2014/53 / EU.
Den fullstendige teksten i EU-samsvarserklæringen er tilgjengelig på følgende internettadresse :
<https://www.pioneer-car.eu/eur/compliance>

Íslenska:

Hér með Pioneer lýsir yfir að tegund ráðlausan búnað [*] er í samræmi við tilskipun 2014/53/ESB.
The fullur texti af ESB-samræmisýfirlýsingu er í boði á eftirfarandi veffangi:
<https://www.pioneer-car.eu/eur/compliance>

Hrvatski:

Pioneer ovime izjavljuje da je radijska oprema tipa [*] u skladu s Direktivom 2014/53/EU.
Cjeloviti tekst EU izjave o skladnosti dostupan je na sljedećoj internetskoj adresi:
<https://www.pioneer-car.eu/eur/compliance>

Türk:

Burada. Pioneer radyo ekipmanı turunun [*] 2014/53/EU direktiflerine uyumlu olduğunu beyan eder.
Avrupa uyumluluk beyanının tam metni belirtilen internet sitesinde mevcuttur :
<https://www.pioneer-car.eu/eur/compliance>

Precaution

Certain country and state 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. It is the user's responsibility in compliance with all applicable laws and ordinance.

Information for users on collection and disposal of old equipment and used batteries

(Symbol for equipment)



(Symbol examples for batteries)



Pb

These symbols on the products, packaging, and/or

accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste.

For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points in accordance with your national legislation.

By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items

These symbols are only valid in the European Union.

For countries outside the European Union:

If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

⚠ CAUTION

- The graphical symbol  placed on the product means direct current.

Safety Precautions

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

Internal Rechargeable Lithium-ion Battery

This device uses an internal rechargeable lithium ion battery that should last the lifetime of the device. If you suspect your battery may be dead, try charging it several times. If the battery does not recharge, please consult Pioneer support.

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.
- The laws in your location may require you to provide notice to passengers that a recording device is in use. If so, you should place the notice sticker in a location clearly visible to your passengers.

- 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 authorised Pioneer Service Station. 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 odour 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 Station. 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 authorised Pioneer Service Station 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. If you experience difficulty in operating this product or reading the display, park your vehicle in a safe location and apply the handbrake before making the necessary adjustments.
- Never set the volume of this product so high that you cannot hear outside traffic and emergency vehicles.
- 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. Screen display is disabled for this product while the vehicle is moving.

To ensure safe driving

WARNING

- In some countries the viewing of video image on a display inside a vehicle even by persons other than the driver may be illegal. Where such regulations apply, they must be obeyed.

Precautions before connecting the system

CAUTION

- Firmly install this product so it does not fall off the inside of the front windscreen. If this product is not firmly installed, it may fall off the windscreen while driving and cause an accident. Periodically inspect 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 gearstick. 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, gearstick, handbrake, 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

CAUTION

Never install this product in places where, or in a manner that:

- Could injure the driver or passengers if the vehicle stops suddenly.
- May interfere with the driver's operation of the vehicle, such as on the floor in front of the driver's seat, or close to the steering wheel or gearstick.
- To ensure proper installation, be sure to use the supplied parts in the manner specified. If any parts are not supplied with this product, use compatible parts in the manner specified after you have the parts' compatibility checked by your dealer. If parts other than supplied or compatible ones are used, they may damage internal parts of this product or they may work loose and the product may become detached.
- 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.
- Consult with your nearest dealer if installation requires drilling holes or other modifications of the vehicle.
- 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 or on the vehicle's floor.

Precautions for cigarette lighter plug

WARNING

- When using a power supply in the vehicle, use the dedicated cigarette lighter plug. Using a plug other than the specified plug may result in fire, electric shock, or product failure.

- Unplug the cigarette plug after using the product and when the product will not be used for a long period of time. Depending on the vehicle, the cigarette socket may not be turned off even when the engine is turned off. For this reason, there is a risk of fire or a dead battery.
- Fully insert the cigarette lighter plug. Poor contact may occur due to vibrations while driving, resulting in an extremely dangerous situation where the unit overheats.
- Regularly inspect and clean the cigarette lighter socket. Foreign material inside the cigarette lighter socket, such as ashes, may cause heat generation due to poor contact, resulting in fire or electric shock.

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 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 coloured objects are placed on the dashboard, they may be reflected in the front windscreen and the camera image. Do not place brightly coloured objects on the dashboard.
- This product is not guaranteed to be effective as evidence in an accident.
- This product is not guaranteed to save video in all situations.
- You may not be able to recognise the conditions in the front of the vehicle in recorded video, depending on the ambient conditions, such as the weather and time.
- LED traffic signals or street lamps on the road may appear as flashing or flickering when recorded with this product. The colour may also not be correctly identifiable. Pioneer Corporation accepts no responsibility whatsoever for these phenomena.
- This product saves 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 Corporation accepts no responsibility whatsoever for product failures or damage that occur due to the microSD card wearing out.
- Pioneer Corporation does not make any assurances that microSD card problems will be repaired by formatting the card. Pioneer Corporation 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 judgement and at your own responsibility.

How to read this Manual

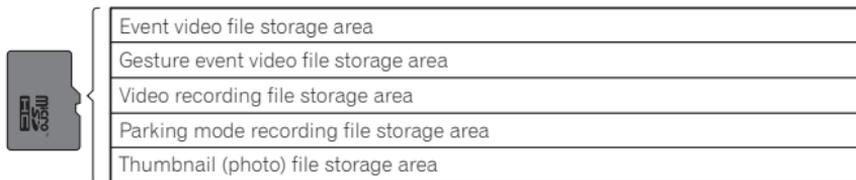
Notation	Meaning
	These symbols are used to draw your attention to items you should be aware of when using this product and items you should be aware of to maintain its performance.
Note /Notes	Notes provide useful tips and extra information about product features.
[○ ○]	Square brackets are used to indicate 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.
- The actual screens of the product may be changed without prior notification for the purpose of improvements to product performance and features.
- In this manual, the microSDHC/SDXC memory cards are referred to as “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 or higher, low temperatures of -10°C or lower, or high humidity.
- Be careful not to infringe on the privacy of any subject in video recorded with this product when using said video. You are fully responsible for the use of said video. Video recorded with this product 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 socket USB charger is removed) with the battery insufficiently charged, such as immediately after purchase.
- Be sure to use the included power cable for charging the battery.
- Pioneer Corporation does not offer a data recovery service for corrupted or deleted files.
- The storage areas on the microSD card are split into the five 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**”
- You can view video files on your PC. However, the video may stutter or stop depending on the performance of the PC.
- The cigarette socket will be extremely hot immediately after using the cigarette lighter. The tip of the cigarette socket USB charger may melt or short circuit if it is plugged in while the socket is hot. Wait for the terminal to cool before plugging in the cigarette socket USB charger.
- 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. The operating time will slowly decrease as the battery is repeatedly charged. Contact Pioneer support if you feel that the operating time has become too short.
- 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 microSDHC/SDXC cards (16 GB to 128 GB, Class 10). 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.
- If an unformatted microSD card is inserted into this product, it will be automatically formatted. Please note that all data stored on the microSD card will be deleted.
- 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 recognised by your computer may not be recognised by this product. In this case, depending on the problem with the microSD card, this product may be able to recognise the card by formatting it with this product format feature → **“This Product Settings” - “Device settings” - “Format SD card”**. However, all files, including protected files, saved to the microSD card will be erased when it is formatted. Always back up the files on the microSD card before formatting it.
- Pioneer Corporation does not make any assurances that microSD card problems will be repaired by formatting the card. Pioneer Corporation 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 judgement and at your own responsibility.

Check the Accessories



Main Unit×1



GPS Unit×1



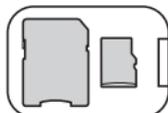
Mounting Bracket
(already fitted with
GPS unit)×1



Power Cable
(3.5 m)×1



Cigarette Socket USB
Charger×1



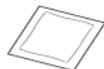
microSDHC Card
(16 GB)×1



Quick Start Guide×1



Warranty×1



Cleaning Cloth×1



Double-sided
Installation Tape
(spare)×1

Before Installing the Product

⚠ WARNING

- When installing the product on vehicles installed with an air bag, never install on the cover of the air bag and at locations that might obstruct the deployment of the air bag. Doing so might prevent the air bag from being deployed normally, cause the product to fly out due to air bag deployment, and cause accident and injury.

⚠ CAUTION

- 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.
- 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

- This product is for installation to the inside of the front windscreen only. Do not install it anywhere else inside or outside of the vehicle.
- When installing this product on the front windscreen, be sure to install it to the specified positions of the front windscreen and within the specified dimensions.
- 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 this product, or get the lens dirty.
- Do not place reflective objects near the lens.
- Take care when handling this product so that it does not drop and you do not touch the lens.
- Recording quality may be affected if the front windscreen of the vehicle is coated or has been specially treated.
- This product may not be able to receive GPS signals if the front windscreen of the vehicle 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 double-sided tape.

Double-sided tape cannot be re-applied once it is peeled off as peeling off weakens its adhesive strength. Be sure to temporarily fasten this product and sufficiently consider routing of cables before applying double-sided tape.

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 again if there is a mistake in the connection.

Before Applying Double-sided Tape

- Clean the location where the double-sided tape will be applied.

Before Adjusting Angles

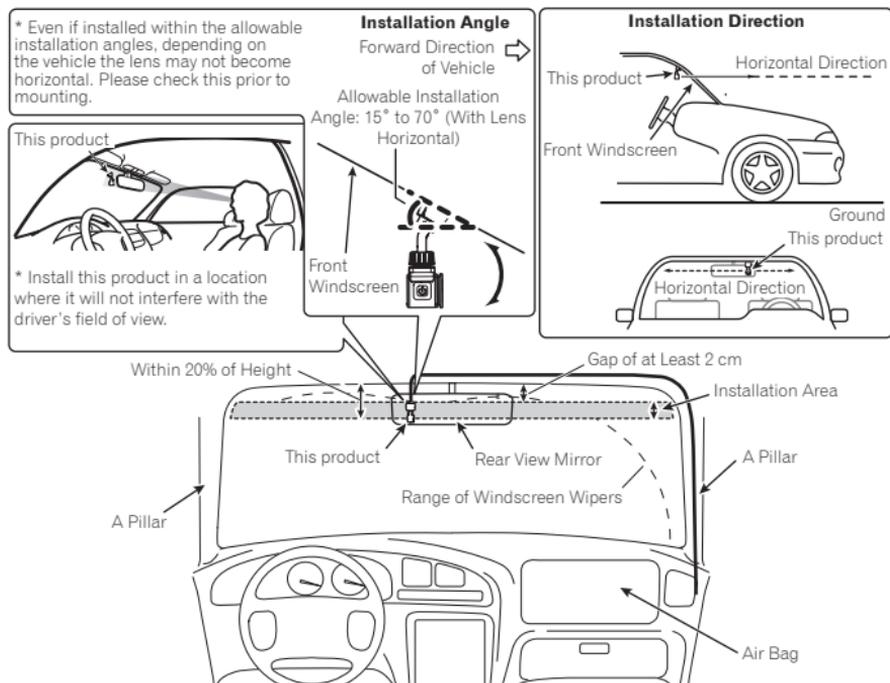
- Installation angle adjustment uses videos displayed in the exclusive app installed on iPhone or Android. Ensure this application is readied in advance. → **“Exclusive App”**

Installation

Specified Installation Position on Front Windscreen

When installing this product to the inside of the front windscreen, install in a vehicle and in a position that satisfies all of the following conditions.

- A position where this entire product is within 20% of the top edge of the height of the front windscreen (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 in which the mounting bracket is at least 2 cm below the top edge of the front windscreen.
- 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 and black ceramic lines/black ceramic pattern.
- A position where this product faces in the horizontal direction to the front and side to side.
- A position where the power cable can be routed without unnecessary force.



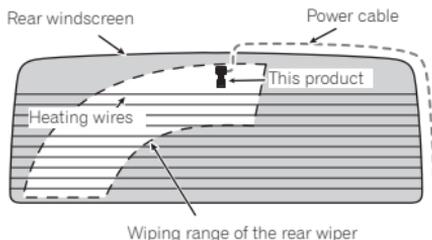
⚠ IMPORTANT

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

Recommended Installation Position on Rear Windscreen

When installing this product on the rear windscreen, installation in a vehicle and in a position that satisfies all of the following conditions is recommended.

- A position where the lens part of this product is within the wiping range of the wiper.
- A position where this product faces in the horizontal direction to the rear and to the sides.
- A position where the lens part of the product and the double-sided tape do not overlap the heating wires.
- A position where cables can be routed without unnecessary force.

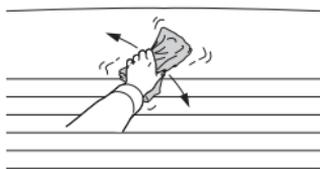


1 Clean the installation area of dirt and oils using the included cleaning cloth.

Front windscreen

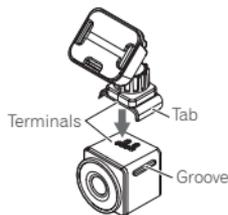


Rear windscreen



2 Install the GPS unit on to this product.

Align the tab on the GPS unit and the groove on this product, check that the terminals are aligned, then install by firmly pressing until it clicks.

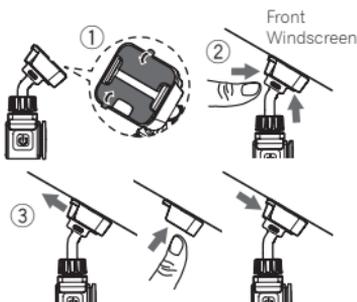


CAUTION

Do not exert undue force when the terminals are not aligned. Doing so may cause damage.

3 Install this product.

- ① : Peel off the release paper from the mounting bracket, and install at the specified position on the front windscreen or rear windscreen.
- ② : Firmly push both sides of the GPS unit.
- ③ : Push the whole GPS unit firmly.



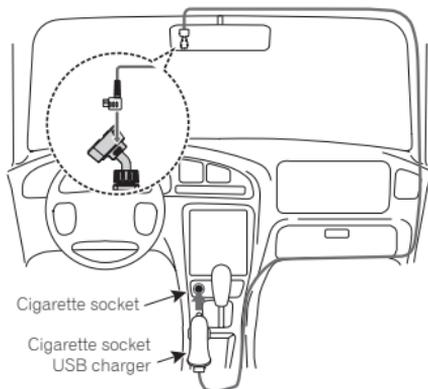
⚠ CAUTION

- Make sure that the surface of the front windscreen is dry before applying the tape.
- Use extreme care as the double-sided tape on the mounting bracket is extremely strong, and it will be difficult to reapply the tape once it has been applied.
- To ensure the installation strength of the adhesive tape, leave this product for 24 hours after application before using it.
- Install firmly so that it does not come off.

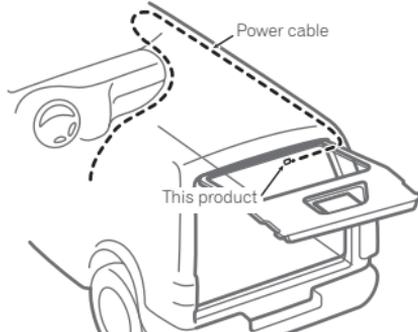
Incorrect installation may cause this to peel off while driving and cause an accident. Inspect the installation state from time to time.

4 After routing the power cable, connect the cigarette socket USB charger, and insert into the cigarette socket.

Route the power cable to the passenger seat side.



Rear windscreen wiring example



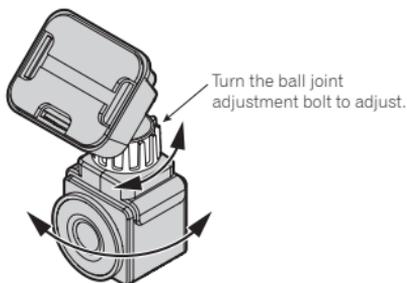
⚠ CAUTION

Ensure care is taken so that power cables are not caught in the door when routing these.

Note

- If the length is insufficient, then use a commercially available cigarette socket extension cable.

5 Rotate the ball joint adjustment bolt to adjust the lens angle.



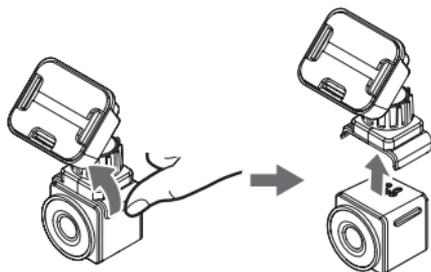
Notes

- Adjust the lens angle while confirming the video on the exclusive app. If you are unable to confirm the video on the exclusive app, adjust while using the angle confirmation guidelines.
→ **"Troubleshooting"**
- Take your time when adjusting the angle.
- A protective film is applied to the lens when the product is purchased. Peel off this film.

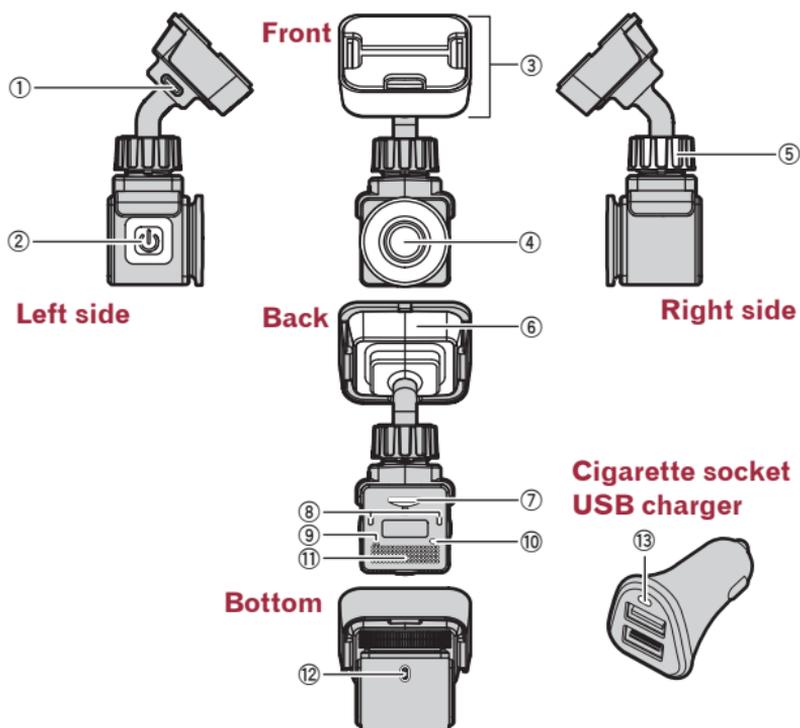
Removing this product

Holding one of the tabs, slowly exert force to remove.

Pressing and holding the power button on the left side of the product will reset it to its default setting. Ensure care in this regard.



Part Names



① USB Input Terminal (Type-C®)

Connect the power cable.

② Power Button

Turn the power ON/OFF. (Operation only available when power not being supplied to this product)

Pressing and holding for 8 seconds or more will reset settings to the default settings.

③ Mounting Bracket

④ Lens

Fitting of the AD-PLF100 polarising filter (sold separately) can reduce reflections of the dashboard onto the windscreen, and enable capture of high-contrast videos.

⑤ Ball Joint Adjustment Bolt

The angle of the lens can be adjusted by turning this dial.

⑥ GPS Unit

⑦ microSD Card Slot

⑧ System Indicator

⑨ Microphone

⑩ Reset Button

Press this button with a pin or paperclip to reset this product.

⑪ Notification Buzzer

⑫ Gesture Sensor

⑬ Indicator

Lights blue when powered on.

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 terminals are facing the top 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

Immediately removing your finger after the lock is released may cause the microSD card to fly out, therefore care is required.

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 with the following procedure.

Notes

- Prepare a spare microSD card in advance.
- Using the exclusive app, you can store these files in the internal memory on a smartphone.

1 Replace the microSD card.

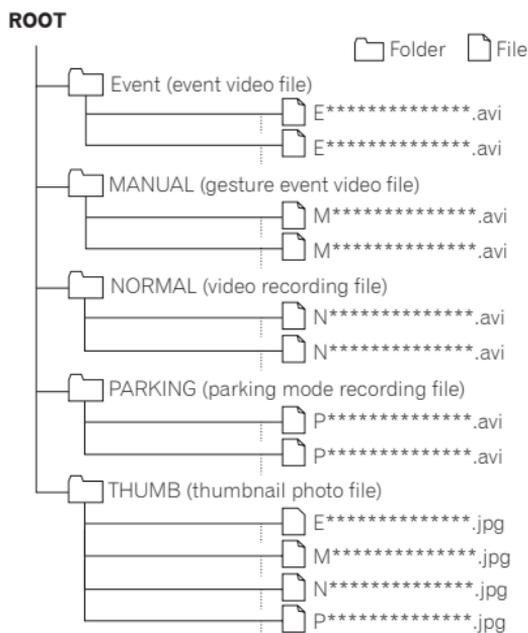
Stop the vehicle in a safe location. Then turn off this product power, eject the microSD card, and replace it with a spare microSD card.

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 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 with *****.

Using this product

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

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

When the internal battery is empty or has insufficient charge (insufficient charging, power used up, etc.), then when starting the vehicle engine, the product may not start. If this product does not start, then wait approximately 3 minutes with the product charging, then remove and reinsert the cigarette socket USB charger plug from the vehicle cigarette socket to restart this product.

Manually Turning the Power On and Off

When power is not supplied to this product (vehicle engine is turned off (ACC OFF)), you can manually turn the power on and off.

1 Press and hold for 2 seconds or more.

The power will turn on.

2 Press and hold for 2 seconds or more.

Power will turn off, and the system indicators will go out.

Notes

- When power is supplied to this product, you cannot manually turn the power on and off.
- When parking mode is set to be on, this will still operate even after manually turning the power off.
→ ***"This Product Settings" - "Device settings" - "Parking sensitive"***

Guide to Charging Time

It takes approximately three hours to charge a flat battery.

System Indicator Display

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

System Indicator	Video Recording	Recording Event	Error Has Occurred (Including microSD Card not Inserted)
Illuminated green	○	—	—
Illuminated red	—	○	—
Blinking red	—	—	○

Video Recording

Recording automatically starts when this product is started. The recorded video is saved to the microSD card as single, 3 minute files in the "NORMAL" folder, and when the microSD card runs out of free space, the files are overwritten starting from the oldest file.

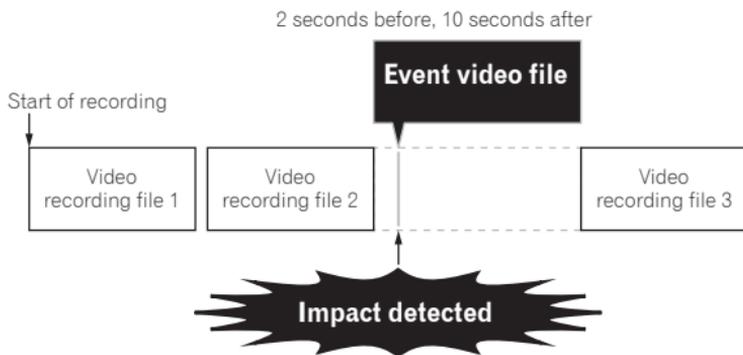
Notes

- Video recording will stop under the following circumstances.
 - When in event recording mode
 - When the power supply is stopped*1
 - When parking mode has started
 - When an error has occurred in the SD card
 - When an error has occurred in this product
 - When using the exclusive app to view files stored on a microSD card inserted into the product*2
- *1 Even if the power supply to this product is interrupted, you can continue with video recording by setting a shutdown time.
- *2 When viewing is completed, video recording (for 3 minutes) starts again approximately 10 seconds later.

Event Recording

Automatic Recording by Detecting Impacts (Event Recording)

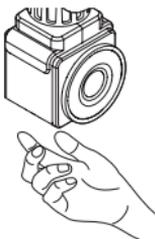
The continuous video file when an impact is detected by this product, such as an impact with another vehicle, is automatically saved for the 2 seconds before and 10 seconds after the moment of detection as an event video file to the "EVENT" folder.



After event recording is completed, video recording (for 3 minutes) starts again.

Gesture with your Hand to Shoot (Gesture event recording)

By waving your hand near the gesture sensor on the bottom of this product, the sensor will detect movement, and a video file for the 2 seconds before and 10 seconds after the moment of detection will be saved as an event video file to the "MANUAL" folder.



Note

You can adjust the sensitivity of the gesture sensor. → **"This Product Settings" - "Device settings" - "Waving"**

Manually record using the exclusive app

By using the exclusive app to manually record, video file for the 2 seconds before and 10 seconds after this action will be saved as an event video file to the "MANUAL" folder.

Notes

- Using the exclusive app, you can adjust the sensitivity for detecting impacts. → **"This Product Settings" - "Device settings" - "G sensor flexible"**
- When impact was detected or manual recording was performed in the event recording mode, event recording is started again after event recording ends.

Parking Mode

After the power supply to this product is turned off (vehicle engine is turned off, or the cigarette socket USB charger is removed), the parking mode is activated after a specified time as set in [Delay shutdown] has elapsed. The maximum operation time is approximately 30 days.

When this device detects vehicle vibration while the parking mode is activated, the product will start within approximately 3 seconds, and the 30 seconds after the moment of detection will be saved as a parking mode file in the "PARKING" folder.

Notes

- The maximum time that parking mode can be used will differ depending on shutdown time settings. The shutdown time is a maximum of 15 minutes. If 15 minutes is set, then parking mode will not operate. → **"This Product Settings" - "Device settings" - "Delay shutdown"**
- In parking mode, you can adjust the sensitivity for detecting vibration, or turn this off. → **"This Product Settings" - "Device settings" - "Parking sensitive"**

Playing Recorded Files

You can check the recorded file on the screen of the exclusive app. → **"Exclusive App"**

This Product Settings

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

Use the exclusive app to configure product settings. → **“Exclusive App”**

Features that can be configured are as follows.

You can also confirm different information.

Setting Category	Setting	Details	Default Settings
Device settings	Microphone	You can set whether or not to record sound around this product during video recording.	OFF
	Beep	You can set whether or not to sound beeps.* ¹	ON
	G sensor flexible	You can set the event recording sensitivity.	Middle
	Bitrate	You can set the bit rate level* ²	Middle
	Waving	You can set the sensitivity of the gesture sensor. This can also be set to OFF.	High (8 cm)
	Parking sensitive	You can set the sensitivity for detecting vibration or impact in parking mode. This can also be set to OFF.	Middle
	Delay shutdown	You can set the time until this product shuts down after power supply to the product is stopped.	Shutdown rightaway
Device info	SSID	The SSID name (access point name) and password of this product can be checked and changed. After changing the password, if you forget this, then reset the product to default settings.	—
	Password		
	Version		
System settings	Format SD card	All files on the microSD card can be deleted.* ³	—
	Restore	Settings can be reset to the default settings.	

*1 Even if this is set to OFF, if an error occurs (including microSD card not inserted), then an error sounds.

*2 Increasing this level will give better image quality, however video may not play back smoothly when viewing through the exclusive app. If downloaded to a smartphone, video will play smoothly. Decreasing this level will mean lower image quality, but video will play back smoothly when viewing through the exclusive app, without downloading to a smartphone.

*3 When there is a problem with the microSD card, a warning tone sounds, and the system indicator blinks red.

Note

- GMT data from a smartphone can be transferred by connecting to the smartphone app.

Guide to Recording Time

This shows a guide to the video recording times for different video files that can be stored on a microSD card.

The default bit rate is [Medium].

Bit rate: Low

microSD Card Capacity	Resolution	Video Recording	Event Recording	Gesture Event Recording	Parking Mode Recording
16 GB	1080p	Approx. 2 hours 40 minutes	Approx. 8 minutes	Approx. 8 minutes	Approx. 10 minutes
128 GB	1080p	Approx. 24 hours 55 minutes	Approx. 12 minutes	Approx. 12 minutes	Approx. 15 minutes

Bit rate: Medium

microSD Card Capacity	Resolution	Video Recording	Event Recording	Gesture Event Recording	Parking Mode Recording
16 GB	1080p	Approx. 1 hour 35 minutes	Approx. 8 minutes	Approx. 8 minutes	Approx. 10 minutes
128 GB	1080p	Approx. 16 hours 20 minutes	Approx. 12 minutes	Approx. 12 minutes	Approx. 15 minutes

Bit rate: High

microSD Card Capacity	Resolution	Video Recording	Event Recording	Gesture Event Recording	Parking Mode Recording
16 GB	1080p	Approx. 1 hour 00 minute	Approx. 8 minutes	Approx. 8 minutes	Approx. 10 minutes
128 GB	1080p	Approx. 12 hours 00 minute	Approx. 12 minutes	Approx. 12 minutes	Approx. 15 minutes

Notes

- Guidelines for video recording time with 32 GB and 64 GB capacity microSD cards are as follows.
 - Event recording: Approx. 12 minutes
 - Gesture event recording: Approx. 12 minutes
 - Parking mode recording: Approx. 15 minutes
 - Video recording: up to remaining capacity of card
- The recording times are estimates. The actual recording times will depend on the scenery being recorded.

Exclusive App

The exclusive app "Dash Camera Remote" can be used to play back the video recorded on this product or configure product settings.

Additionally, the SSID name (access point name) and password of this product can be checked.

First, a Wi-Fi connection must be made between this product and an iPhone or Android smartphone.

① Turn this product power on.

② Operate the iPhone or Android smartphone to select this product as the Wi-Fi connection device.

- Only one iPhone or android smartphone device can be connected to this product at any one time. When a second device is connected, the first device is disconnected.
- If using Android, then internet connectivity may not be available when connected to this product over Wi-Fi.
- Refer to the following for details on download, installation, and usage methods for the "Dash Camera Remote" exclusive smartphone app.



Trademarks & Copyrights

- microSDHC Logo is a trademark of SD-3C, LLC.



- microSDXC Logo is a trademark of SD-3C, LLC.



- Android is a trademark of Google Inc.
- The Wi-Fi CERTIFIED Logo™ is a certification mark of the Wi-Fi Alliance®.



- iPhone is a trademark of Apple Inc.
- USB Type-C® and USB-C® are registered trademarks of USB Implementers Forum.

GPS

- GPS (Global Positioning System) is a system that measures your current position by receiving position measurement radio signals from GPS satellites.
- The GPS satellite signals cannot pass through solid matter (except glass). The signals from GPS satellites may be blocked when this product is in the following locations.
 - Inside tunnels and parking structures
 - On the bottom level of a two-level highway
 - Around concentrations of skyscrapers
 - In dense forests

Troubleshooting

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

Symptom	Cause	Action
An error occurred during the operation of the this product.	The microcomputer in this product is malfunctioning.	Press the reset button.
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"
	The shutdown time is set to [Shutdown rightaway].	Adjust the shutdown time. → "This Product Settings" - "Device settings" - "Delay shutdown"
The product makes parking mode files when you get in and out of the vehicle.	The vibration when people get in and out of the vehicle and the movement of people are being detected.	Adjust the sensitivity of the sensors to use for detection. → "This Product Settings" - "Device settings" - "Parking sensitive"
There are many videos where nothing happens in the files recorded while parked.	The sensitivity of impact detection may not be appropriate.	
My vehicle was hit while parked, but a video file wasn't recorded.		
An accident occurred during driving, but a video file wasn't recorded.	Look in the "NORMAL" video recording file storage folder.	Event video files are saved to the "NORMAL" folder, not the "EVENT" folder. → "Backing Up Recorded Files"
There's no sound when I play a video file.	The microphone setting may be OFF.	Check the microphone settings again. → "This Product Settings" - "Device settings" - "Microphone"

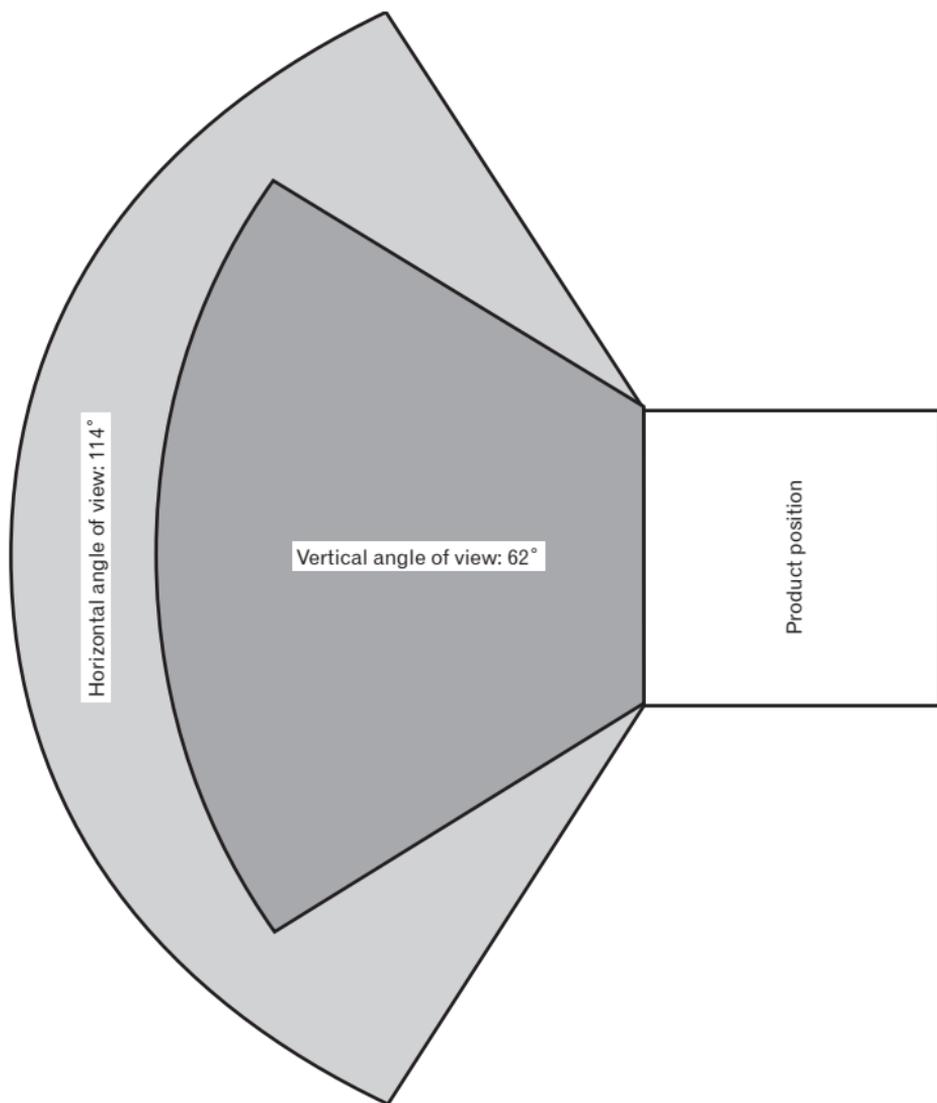
Specifications

Recording Medium	microSDHC/microSDXC card, Class 10 (16 GB to 128 GB)
Imaging Element	Approx. 2 million pixels
Recording Angles	Horizontal 114°, vertical 62°, diagonal 130°
F-Number	F1.8
Recording mode	1920 × 1080P
GPS	Built-in
Wi-Fi	<ul style="list-style-type: none">• On-board (for connection of iOS/Android exclusive apps) 802.11b/g/n• Output power: + 13 dBm Max.• Frequency band(s): 2412 - 2472 Mhz
G-Sensor	3-axis G-sensor (During event recording: level can be set in 3 steps, during parking mode: level can be set in 3 steps)
Recording Methods	Video recording/event recording/gesture event recording/parking mode recording
Video File Structure	3 min.
Sound Recording	Can be set to ON or OFF
Frame Rate	27.5 fps
Compression Method	Video: AVI (H.264, G711), photo: JPG
Video Playback Method	"Dash Camera Remote" exclusive smartphone app
Power Supply Voltage	DC 12 V/24 V (included cigarette socket USB charger)
Internal Battery Capacity	140 mAh
Power Consumption	Approx. 1.3 W (approx. 1.65 W when charging)
Operating Temperature	-10°C to +60°C
Dimensions (W × H × D)	32 mm × 32 mm × 34 mm (W×H×D) 47 mm × 98 mm × 34 mm (when installed in installation bracket, installation angle of 45°)
Weight	70 g (excluding installation bracket, power cable, cigarette socket USB charger, etc.)
Allowable Installation Angle	15° to 70°

Angle Confirmation Guidelines

If you are unable to connect to a smartphone and confirm angles, then align the following diagram with this product and adjust the installation angle while checking the imaged angles.

- ① : Aligning "Product position" horizontally with this product provides an indication of the horizontal field of view.
- ② : Aligning "Product position" vertically with this product provides an indication of the vertical field of view.



<https://www.pioneer-car.eu/eur/>

Visit www.pioneer-car.eu/uk/ (or www.pioneer-car.eu/eur/) to register your product.

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