

Pioneer

AVH-Z9100DAB

DVD RDS AV RECEIVER

Operation 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.

Important

The screen shown in the examples may differ from actual screens, which may be changed without notice for performance and function improvements.

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Precaution

Certain country and government 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.



If you want to dispose this product, do not mix it with general household waste. There is a separate collection system for used electronic products in accordance with legislation that requires proper treatment, recovery and recycling.

Private households in the member states of the EU, in Switzerland and Norway may return their used electronic products free of charge to designated collection facilities or to a retailer (if you purchase a similar new one).

For countries not mentioned above, please contact your local authorities for the correct method of disposal.

By doing so you will ensure that your disposed product undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health.

CAUTION

This product is a Class 1 laser product classified under the safety standard, IEC 60825-1:2007, and contains a class 1M laser module. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel.

CLASS 1 LASER PRODUCT

CAUTION—CLASS 1M VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.

WARNING

Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the product, and to protect it from overheating. To prevent fire hazard, the openings should never be blocked or covered with items (such as papers, floor mat, cloths).

CAUTION

This product is evaluated in moderate and tropical climate condition under the Audio, video and similar electronic apparatus - Safety requirements, IEC 60065.

Important safety information

WARNING

- Do not attempt to install or service this product by yourself. Installation or servicing of this product by persons without training and experience in electronic equipment and automotive accessories may be dangerous and could expose you to the risk of electric shock, injury or other hazards.
- 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) 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 authorised 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, any applications, or the rear view camera option (if purchased) 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, pull over, 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.
- To promote safety, certain functions are disabled unless the vehicle is stopped and the handbrake is applied.
- Keep this manual handy as a reference for operating procedures and safety information.
- 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 air bags or hazard lamp buttons or (iii) impair the driver's ability to safely operate the vehicle.
- Please remember to fasten your seat belt at all times while operating your vehicle. If you are ever in an accident, your injuries can be considerably more severe if your seat belt is not properly buckled.
- Never use headphones while driving.

To ensure safe driving

Certain functions (such as viewing of video image and certain touch panel key operations) offered by this product could be dangerous (possibly resulting in serious injury or death) and/or unlawful if used while driving. To prevent such functions from being used while the vehicle is in motion, there is an interlock system that senses when the handbrake is set and when the vehicle is moving. If you attempt to use the functions described above while driving, they will become disabled until you stop the vehicle in a safe place.

WARNING

- **LIGHT GREEN LEAD AT POWER CONNECTOR IS DESIGNED TO DETECT PARKED STATUS AND MUST BE CONNECTED TO THE POWER SUPPLY SIDE OF THE HANDBRAKE SWITCH. IMPROPER CONNECTION OR USE OF THIS LEAD MAY VIOLATE APPLICABLE LAW AND MAY RESULT IN SERIOUS INJURY OR DAMAGE.**
 - **Do not take any steps to tamper with or disable the handbrake interlock system which is in place for your protection. Tampering with or disabling the handbrake interlock system could result in serious injury or death.**
 - **To avoid the risk of damage and injury and the potential violation of applicable laws, this product is not for use with a video image that is visible to the driver.**
 - 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.
- If you attempt to watch video image while driving, the warning **“Viewing of front seat video source while driving is strictly prohibited.”** will appear on the screen. To watch video image on this display, stop the vehicle in a safe place and apply the handbrake. Please keep the brake pedal pushed down before releasing the handbrake.

When using a display connected to V OUT

The video output terminal (**V OUT**) is for connection of a display to enable passengers in the rear seats to watch video images.

WARNING

NEVER install the rear display in a location that enables the driver to watch video images while driving.

To avoid battery exhaustion

Be sure to run the vehicle engine while using this product. Using this product without running the engine can drain the battery.

WARNING

Do not install this product in a vehicle that does not have an ACC wire or circuitry available.

Rear view camera

With an optional rear view camera, you are able to use this product as an aid to keep an eye on trailers, or backing into a tight parking spot.

WARNING

- SCREEN IMAGE MAY APPEAR REVERSED.
- USE INPUT ONLY FOR REVERSE OR MIRROR IMAGE REAR VIEW CAMERA. OTHER USE MAY RESULT IN INJURY OR DAMAGE.

CAUTION

- For safety reasons, the rear view camera function is not available until this product boots up completely.
- The rear view mode is to use this product as an aid to keep an eye on the trailers, or while backing up. Do not use this function for entertainment purposes.

Handling the SD card slot

CAUTION

- Keep the SD memory card out of the reach of small children to prevent them from accidentally swallowing it.
- To prevent data loss and damage to the storage device, never remove it from this product while data is being transferred.
- If data loss or corruption occurs on the storage device 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 an SD memory card while driving.

Handling the USB connector

CAUTION

- To prevent data loss and damage to the storage device, never remove it from this product while data is being transferred.
- Pioneer cannot guarantee compatibility with all USB mass storage devices and assumes no responsibility for any loss of data on media players, iPhone, smartphone, or other devices while using this product.

Visit our website

Visit us at the following site:

<http://www.pioneer-car.eu>

- Register your product. We will keep the details of your purchase on file to help you refer to this information in the event of an insurance claim such as loss or theft.
- We offer the latest information about PIONEER CORPORATION on our website.

- Pioneer regularly provides software updates to further improve its products. Please check the support section of the Pioneer website for all available software updates.

Protecting the LCD panel and screen

- Do not expose the LCD screen to direct sunlight when this product is not used. This may result in LCD screen malfunction due to the resulting high temperatures.
- When using a mobile phone, keep the aerial of the mobile phone away from the LCD screen to prevent disruption of the video in the form of spots, coloured stripes, etc.
- To protect the LCD screen from damage, be sure to touch the touch panel keys only with your finger and do so gently.



Notes on internal memory

- If the battery is disconnected or discharged, the memory will be erased and must be reprogrammed.
- The information will be erased by disconnecting the yellow lead from the battery (or removing the battery itself).
- Some of the settings and recorded contents will not be reset.

About this manual

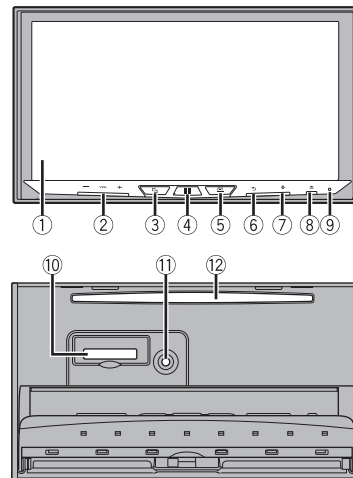
This manual uses diagrams of actual screens to describe operations. However, the screens on some units may not match those shown in this manual depending on the model used.





Meanings of symbols used in this manual



| | |
|---|--|
|  | This indicates to touch the appropriate soft key on the touch screen. |
|  | This indicates to touch and hold the appropriate soft key on the touch screen. |

Parts and controls

Main unit



| | | |
|---|---|---|
| ① | LCD screen | |
| ② | VOL (+/-) | |
| ③ |  | Press to switch between the Application screen and the AV operation screen. Press and hold to switch to the camera view mode. NOTE To activate the camera view mode with this button, set [Back Camera Input] to [On] or [AV Input] to [Camera] (page 41). |
| ④ |  | Press to display the top menu screen. Press and hold to power off. To power back on, press any button. |
| ⑤ |  | Press to display the menu bar (page 9). Press and hold to mute or unmute. |
| ⑥ |  | Press to display the top menu screen or back to previous screen. Press and hold to turn off the display. |

| | | |
|---|---|--|
| ⑦ |  | Press to activate the voice recognition mode with a connected iPhone or smartphone. Press and hold to display the connectable device list screen or device search screen. |
| ⑧ |  | |
| ⑨ | RESET | Press to reset the microprocessor (page 7). |
| ⑩ | SD card slot | Refer to Inserting and ejecting an SD memory card (page 24). |
| ⑪ | Auto EQ microphone input jack | Use to connect a microphone for acoustical measurement (sold separately). |
| ⑫ | Disc-loading slot | Refer to Inserting and ejecting a disc (page 22). |

Protecting your product against theft



⚠ CAUTION

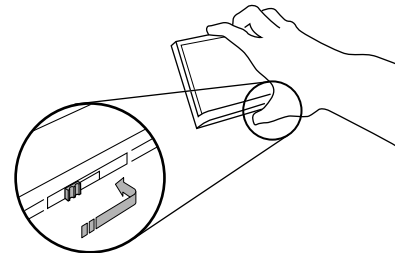
- Do not attempt to detach the front panel while DISC/SD is in the eject position.
- Do not attempt to detach the front panel while data is being written to USB/SD. Doing so may cause the data to become corrupted.
- After the front panel has been detached, the attaching plate will move back to its original position automatically. Be careful not to let hands or other objects get caught behind the monitor as it is moving back.
- Please make sure that the front panel is in its original position while the vehicle is in motion. It is dangerous to drive with the front panel sticking out.
- Do not place beverages or other objects on top of the front panel while it is fully open.

🔄 Important

- Handle the front panel with care when removing or attaching it.
- Avoid subjecting the front panel to excessive shock.
- Keep the front panel out of direct sunlight and high temperatures.
- If removed, replace the front panel on the product before starting up your vehicle.

Removing the front panel

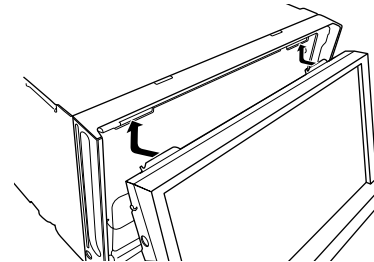
- 1 Press .
- 2 Touch .
- 3 Slide the dial at the bottom of the front panel to the right, and lift up the front panel while pushing down on the dial.



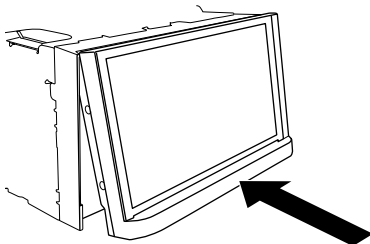
- 4 Put the front panel into the provided protective case for safe keeping.

Attaching the front panel

- 1 Slide the front panel into the top of the product and push it into place.
Slide the inserter on the front panel into the insertion slot on top of the unit and push it into place.



- 2 Push on the bottom of the front panel until it clicks into place.



Basic operation

Notes on using the LCD panel





⚠ WARNING

- Keep hands and fingers clear of this product when opening, closing, or adjusting the LCD panel. Be especially cautious of children's hands and fingers.
- Do not use with the LCD panel left open. It may result in injury in the event of an accident.

⚠ CAUTION

- Do not open or close the LCD panel forcefully. It may cause a malfunction.
- Do not operate this product until the LCD panel has completely opened or closed. If this product is operated while the LCD panel is opening or closing, the LCD panel may stop at that angle for safety.
- Do not place glass or can on the open LCD panel.

Adjusting the LCD panel angle

- 1 Press .
- 2 Touch  or  to adjust the angle of the LCD panel.
- 3 Touch .
Returns to the previous screen.

Resetting the microprocessor

⚠ CAUTION

- Pressing the RESET button resets settings and recorded contents to the factory settings.
 - Do not perform this operation when a device is connected to this product.
 - Some of the settings and recorded contents will not be reset.
- The microprocessor must be reset under the following conditions:
 - Prior to using this product for the first time after installation.
 - If this product fails to operate properly.
 - If there appears to be problems with the operation of the system.

- 1 Turn the ignition switch OFF.
- 2 Press RESET with a pen tip or other pointed tools.
Settings and recorded contents are reset to the factory settings.

Remote control

The remote control CD-R33 is sold separately. For details concerning operations, see the remote control manual.

Starting up the unit

1 Start the engine to boot up the system.

The [Select Program Language] screen appears.

NOTES

- From the second time on, the screen shown will differ depending on the previous conditions.
- From the second time on, enter the password for the anti-theft function if the password entry screen appears.

2 Touch the language.

3 Touch .

The [Speaker Mode Settings] screen appears.

4 Touch the speaker modes.

[Standard Mode]

4-speaker system with front and rear speakers, or a 6-speaker system with front and rear speakers and subwoofers.

[Network Mode]

3-way system with a high range speaker, middle range speaker and subwoofer (low range speaker) for reproduction of high, middle and low frequencies (bands).

WARNING

Do not use the unit in Standard Mode when a speaker system for 3-way Network Mode is connected to the unit. This may cause damage to the speakers.

5 Touch .

The [DAB ANTENNA POWER SETTING] screen appears.

6 Touch [Yes] then [OK] to use the DAB aerial power (page 20).

Initial Legal Disclaimer screen appears.

7 Touch [OK].

The top menu screen appears.

NOTE

Once the speaker mode is set, the setting cannot be changed unless this product is restored to the default settings. Restore the default settings to change the speaker mode setting (page 54).

Switching the speaker mode

To change the speaker mode, you need to restore this product to the default settings.

1 Restore the default setting (page 54).

Using the touch panel


You can operate this product by touching the keys on the screen directly with your fingers.

NOTE

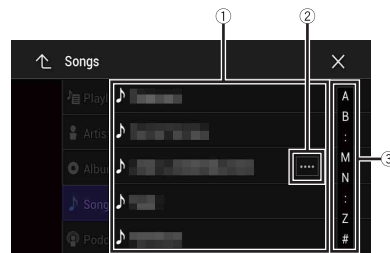
To protect the LCD screen from damage, be sure to touch the screen only with your finger gently.

Common touch panel keys

: Returns to the previous screen.

: Close the screen.

Operating list screens



① Touching an item on the list allows you to narrow down the options and proceed to the next operation.

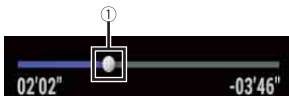
② Appears when all characters are not displayed on the display area. If you touch the key, the rests are scrolled for display.

NOTE

This function is available only when you stop your vehicle in a safe place and apply the handbrake.


③ Appears when items cannot be displayed on a single page. Drag the side bar, the initial search bar or the list to view any hidden items.

Operating the time bar



- ① You can change the playback point by dragging the key.
The playback time corresponding to the position of the key is displayed while dragging the key.








Operating the menu bar

- 1 Press .
The menu bar pops up on the screen.

NOTE

The menu bar availability may vary depending on the activating source.



| | |
|--|--|
|  | <p>Switches the dimmer duration by day or night.</p> <p>NOTE When AppRadio Mode + is on, AppRadio Mode + SideControlBar is displayed.</p> |
|  | Switches between playback and pause. |
|  | <p> Skips files forwards or backwards.</p> <p> Performs fast reverse or fast forwards.</p> |
|  | Displays setting menu screen (page 40). |
|  | Closes the menu bar. |

Switching the operation panel

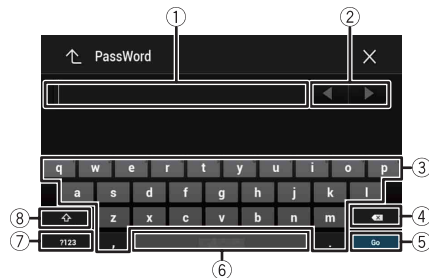
- 1 Touch .

The hidden function keys appear.

NOTE

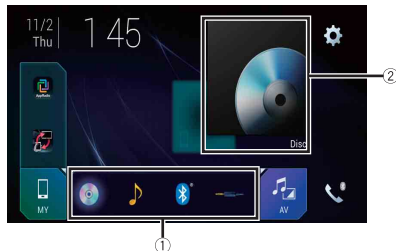
This key does not appear for some AV sources.



Operating the on-screen keyboard



| | |
|---|---|
| ① | Displays the characters that are entered. |
| ② | Moves the cursor to the right or left for a number of characters equivalent to the number of touches. |
| ③ | Enters the characters in the text box. |
| ④ | Deletes the input text to the left of the cursor one letter at a time. Touching and holding the key deletes the letters to the left of the cursor in rapid succession. |
| ⑤ | Confirms the entry and proceeds to the next step. |
| ⑥ | Enters a space. |
| ⑦ | Switches between alphabet and numbers/symbols. |
| ⑧ | Switches between capital and lower case letters. |

Top menu screen



| | |
|--|--|
| <p>①</p> | <p>Favourite source icons</p> <p>TIPS</p> <ul style="list-style-type: none"> • When you connect the external navigation system to this unit, the navigation mode key is displayed at the middle of the right side of the display. • If you select [Power OFF], you can turn off almost all functions. The [Power OFF] mode is released in the following cases. <ul style="list-style-type: none"> – An incoming call is received (only for hands-free phoning via Bluetooth). – A rear view camera image is input when the vehicle is in reverse. – A button on this unit is pressed. – The ignition switch is turned off (ACC OFF), then turned on (ACC ON). |
| <p>②</p> | <p>AV/Device source operation key. Displays the current source.</p> <p>TIP When the last source is displayed behind the key, you can switch the source by touching the key.</p> |
|  | <p>Setting the time and date (page 52)</p> |
|  | <p>Settings (page 40) and Favourite menu (page 52)</p> |




Connected device key


Displays connected device.


Switches the source or application with connected devices such as AppRadio Mode +, external navigation system, Apple CarPlay, Android Auto.

TIPS

- When a device with a compatible application is connected, the favourite application key appears. Once the key appears, you can adjust the range of the favourite application key area with the following steps.

1 Touch and hold .

 appears at the top right of the favourite application key.

2 Drag  **to the desired position.**


To finish the adjusting, touch any place of the display except for the favourite application key.

- You can also switch the mobile device to be connected with the following steps.

1 Touch .

2 Touch .

3 Select desired device then follow the instruction.

Touch  for the first wireless connection with the device.

NOTE

This function is available only when you stop your vehicle in a safe place and apply the handbrake or the vehicle is completely stopped.







AV source (page 16)



Hands-free phoning (page 11)

Bluetooth

Bluetooth connection

- 1 Turn on the Bluetooth function on the device.
- 2 Press .
- 3 Touch  then .
The Bluetooth screen appears.
- 4 Touch [Connection].
- 5 Touch .
The unit starts to search for available devices, then displays them in the device list.
- 6 Touch the Bluetooth device name.
After the device is successfully registered, a Bluetooth connection is established by the system. Once the connection is established, the device name is displayed on the list.

NOTES

- If twenty devices are already paired, [Memory Full] is displayed. Delete a paired device first (page 11).
- If your device supports SSP (Secure Simple Pairing), a six-digit number appears on the display of this product. Touch [Yes] to pair the device.
- If a PIN code input is required, enter a PIN code. (The default PIN code is "0000")

TIP



The Bluetooth connection can also be made by detecting this product from the Bluetooth device. Before registration, make sure that [Visibility] in the [Bluetooth] menu is set to [On] (page 11). For details on Bluetooth device operations, refer to the operating instructions supplied with the Bluetooth device.

Bluetooth settings

- 1 Press .
- 2 Touch  then .

CAUTION

Never turn this product off and disconnect the device while the Bluetooth setting operation is being processed.

| Menu Item | Description |
|------------------------------|---|
| [Connection] | Connect, disconnect, or delete registered Bluetooth device manually. Touch  to delete registered device. To connect a registered Bluetooth device manually, touch the name of the device. To disconnect the device, touch the name of the connected device in the list. NOTE Connect the Bluetooth device manually in the following cases: <ul style="list-style-type: none">• Two or more Bluetooth devices are registered, and you want to manually select the device to be used.• You want to reconnect a disconnected Bluetooth device.• Connection cannot be established automatically for some reason. |
| [Auto Connect] [On] [Off] | Select [On] to connect the last connected Bluetooth device automatically. |
| [Visibility] [On] [Off] | Select [On] to make this product visible to the other device. |
| [PIN Code Input] | Change the PIN code for Bluetooth connection. The default PIN code is "0000". <ol style="list-style-type: none">1 Touch [0] to [9] to input the pin code (up to 8 digits).2 Touch . |
| [Device Information] | Displaying the device name and address of this product. |
| [Bluetooth Memory Clear] | Touch [Clear] then [OK] to clear the Bluetooth memory. |



Hands-free phoning

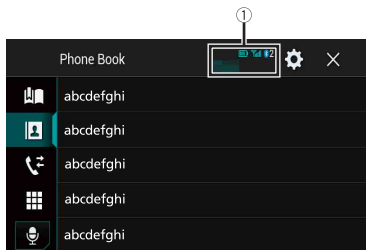
To use this function you need to connect your mobile phone to this product via Bluetooth in advance (page 11).










CAUTION

For your safety, avoid talking on the phone as much as possible while driving.

Making a phone call

- 1 Press .
- 2 Touch .
The phone menu screen appears.
- 3 Touch one of the call icons on the phone menu screen.



| | |
|--|---|
| <p>①</p> | <p>The following items are displayed.</p> <ul style="list-style-type: none"> • Name of the current mobile phone • List number of the current mobile phone • Reception status of the current mobile phone • Battery status of the current mobile phone |
|  | <p>Using preset dial list (page 12)</p> |
|  | <p>Using phone book Select a contact from the phone book. Touch the desired name on the list then select the phone number.</p> <p>TIPS</p> <ul style="list-style-type: none"> • The contacts on your phone will be automatically transferred to this product. • Update the phone book manually. <p>NOTE [Visibility] of the [Bluetooth] screen should be on (page 11).</p> |
|  | <p>Using call history Make a phone call from the received call , dialled call , or missed call .</p> |
|  | <p>Direct phone number input Enter the number keys to enter the phone number then touch  to make a call.</p> |
|  | <p>Switches to the voice recognition function (page 12).</p> |






►To end the call

- 1 Touch .

Using the preset dial lists


►Registering a phone number

You can easily store up to six phone numbers per device as presets.

- 1 Press .
- 2 Touch .
- 3 Touch  or .
- 4 Touch .

On the [Phone Book] screen, touch the desired name to display the contact's phone number.



►Dialling from the preset dial list

- 1 Touch .
- 2 Touch the desired entry on the list to make a call.
The dial screen appears and dialling starts.



►Deleting a phone number

- 1 Press .
- 2 Touch .
- 3 Touch .
- 4 Touch .
- 5 Touch [Yes].

Receiving a phone call

- 1 Touch  to answer the call.
Touch  to end the call.

TIPS

- Touch  while getting a call waiting, switch to the talking person.
- Touch  while getting a call waiting to reject the call.


Voice recognition function


You can use the voice recognition function of iPhone or smartphone.

NOTES

- When an iPhone running iOS 6.1 or higher is used, Siri Eyes Free Mode is available with this product.

- For using this function with a smartphone, the device must be compatible with Android Auto. For using the voice recognition function with a smartphone, launch Android Auto beforehand.

1 Press .

2 Touch .

3 Touch .

The voice recognition function launches and the voice control screen appears.

TIP

You can also launch the voice recognition function by pressing .

Minimising the dial confirmation screen

1 Touch .

TIP

To display the dial confirmation screen, touch  again.

NOTES

- The dial confirmation screen cannot be minimised on the AV operation screen.
- AV sources cannot be selected even if the dial confirmation screen is minimised while talking on the phone or receiving an incoming call.

Phone settings



1 Press .

2 Touch  then .

| Menu Item | Description |
|-----------------------------|---|
| [Auto Answer] [On] [Off] | Select [On] to answer an incoming call automatically. |
| [Ring Tone] [On] [Off] | Select [On] if the ring tone does not come out from the car speakers. |
| [Invert Name] | Select [Yes] to change the order of the first and last names in the phone book. |


Setting the private mode

During a conversation, you can switch to private mode (talk directly on your mobile phone).

1 Touch  or  to turn private mode on or off.

Adjusting the other party's listening volume

This product can be adjusted to the other party's listening volume.

1 Touch  to switch between the three volume levels.

Notes for hands-free phoning

► General notes

- Connection to all mobile phones featuring Bluetooth wireless technology is not guaranteed.
- The line-of-sight distance between this product and your mobile phone must be 10 metres or less when sending and receiving voice and data via Bluetooth technology.
- With some mobile phones, the ring sound may not be output from the speakers.
- If private mode is selected on the mobile phone, hands-free phoning may be disabled.

► Registration and connection

- Mobile phone operations vary depending on the type of mobile phone. Refer to the instruction manual that came with your mobile phone for detailed instructions.
- When phone book transfer does not work, disconnect your phone and then perform pairing again from your phone to this product.

► Making and receiving calls

- You may hear a noise in the following situations:
 - When you answer the phone using the button on the phone.
 - When the person on the other end of the line hangs up the phone.
- If the person on the other end of the line cannot hear the conversation due to an echo, decrease the volume level for hands-free phoning.
- With some mobile phones, even after you press the accept button on the mobile phone when a call comes in, hands-free phoning may not be performed.
- The registered name will appear if the phone number is already registered in the phone book. When the same phone number is registered under different names, only the phone number will be displayed.

► The received call and dialled number histories

- You cannot make a call to the entry of an unknown user (no phone number) in the received call history.
- If calls are made by operating your mobile phone, no history data will be recorded in this product.

► Phone book transfers

- If there are more than 1 000 phone book entries on your mobile phone, not all entries may download completely.
- Depending on the phone, this product may not display the phone book correctly.






- If the phone book in the phone contains image data, the phone book may not be transferred correctly.
- Depending on the mobile phone, phone book transfer may not be available.

Bluetooth audio

Before using the Bluetooth audio player, register and connect the device to this product (page 11).

NOTES











- Depending on the Bluetooth audio player connected to this product, the available operations with this product may be limited to the following two levels:
 - A2DP (Advanced Audio Distribution Profile): Only playing back songs on your audio player is possible.
 - A2DP and AVRCP (Audio/Video Remote Control Profile): Playing back, pausing, selecting songs, etc., are possible.
- Depending on the Bluetooth device connected to this product, the available operations with this product may be limited or differ from the descriptions in this manual.
- While you are listening to songs on your Bluetooth device, refrain from operating the phone function as much as possible. If you try operating, the signal may cause noise for song playback.
- When you are talking on the Bluetooth device connected to this product via Bluetooth, it may pause playback.

- 1 Press .
- 2 Touch  then .
The system setting screen appears.
- 3 Touch [AV Source Settings].
- 4 Confirm that [Bluetooth Audio] is turned on.
- 5 Press .
- 6 Touch .
The AV source screen appears.
- 7 Touch [Bluetooth Audio].
The Bluetooth audio playback screen appears.

Basic operation



Bluetooth audio playback screen 1



| | |
|---|--|
|  | Switches between playback and pause. |
|  | Skips files forwards or backwards. <ul style="list-style-type: none"> • By pressing  then touch  or , you can also skip files forwards or backwards. • By pressing  then touch and hold  or , you can also perform fast reverse or fast forwards. |
|  | Selects a file or folder from the list to playback. <p>NOTE This function is available only when the AVRCP version of the Bluetooth device is 1.4 or higher.</p> |
|  | Switches among the Bluetooth devices when the devices are connected to this product via Bluetooth. |

Bluetooth audio playback screen 2






| | |
|---|-------------------------------------|
|  | Sets a repeat play range. |
|  | Plays files in random order. |

Wi-Fi

You can connect your Wi-Fi certified mobile device to this product via Wi-Fi connection.

Wi-Fi connection

- 1 Turn on the Wi-Fi function on the device.
- 2 Press .
- 3 Touch  then .
- 4 Touch [Wi-Fi Settings].
- 5 Set [Wi-Fi] to [ON].
- 6 Touch [Device Information].
- 7 Connect this product with the displayed network name in [Device Information] from the mobile device.

Wi-Fi settings

- 1 Press .
- 2 Touch  then .
- 3 Touch [Wi-Fi Settings].

NOTE



This setting is available only when you stop your vehicle in a safe place and apply the handbrake.

The menu items vary according to the source.

| Menu Item | Description |
|-----------------------|--|
| [Wi-Fi] [ON] [OFF] | Switches Wi-Fi connection on or off. |
| [Device Information] | Displays the network name and MAC address of this product. |

Wi-Fi audio

Before using the Wi-Fi audio player, connect the device to this product via Apple CarPlay (page 32) or Android Auto wirelessly (page 34).

- 1 Press  then touch .
- 2 Touch [Wi-Fi Audio].
The Wi-Fi audio playback screen appears.

NOTES

- [Wi-Fi Audio] is displayed as [Android Auto] when the Android Auto is in use.
- [Wi-Fi Audio] is displayed as [Apple CarPlay] when the Apple CarPlay is in use.

Basic operation

Wi-Fi audio screen (Example: Apple CarPlay)



Wi-Fi audio with Apple CarPlay operation is same as the iPod source function. For details of the operation, refer to the iPod operation (page 28).

AV source

Supported AV source


You can play or use the following sources with this product.

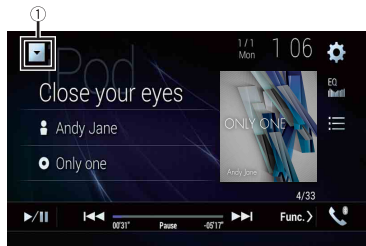
- Radio
- Digital Radio
- CD
- ROM (compressed audio or video files on discs)
- DVD-Video
- Video-CD

The following sources can be played back or used by connecting an auxiliary device.

- USB
- SD
- iPod
- Bluetooth® audio
- Wi-Fi audio (Apple CarPlay, Android Auto)
- AV input (AV)
- AUX
- HDMI
- Wireless Mirroring

Displaying the AV operation screen

- 1 Press  then touch the AV operation key.
The AV operation screen appears.





- ① Displays the source list.





Recalls equaliser curves (page 47).

Selecting a source

Source on the AV source selection screen

- 1 Press  then touch .
- 2 Touch the source icon.
When you select [Source OFF], the AV source is turned off.

Source on the source list



- 1 Press  then touch the AV operation key.
- 2 Touch .
- 3 Touch the source key.
When you select [Source OFF], the AV source is turned off.

Changing the display order of source




NOTE

This function is available only when you stop your vehicle in a safe place and apply the handbrake.

Changing the display order of source icons

- 1 Press  then touch .
- 2 Touch and hold the source icon and drag the icon to the desired position.





Changing the display order of source keys

- 1 Press  then touch the AV operation key.
- 2 Touch .
- 3 Touch .
- 4 Drag the source key to the desired position.

Adjusting the range of favourite source icons area

NOTE

This function is available only when you stop your vehicle in a safe place and apply the handbrake.

- 1 Press .
- 2 Touch and hold .
 appears at the top left of the favourite source icons.
- 3 Drag  to the desired position.
To finish the adjusting, touch any place of the display except for the favourite source icons area.

Setup for iPod/iPhone or smartphone

When using an iPod/iPhone or a smartphone with this product, configure settings of this product according to the device to be connected. This section describes the settings required for each device.

NOTES

- Operation methods may vary depending on the iPod/iPhone model or smartphone and its software version.
- Depending on the software version of iPod/iPhone or the version of smartphone OS, it may not be compatible with this unit.
- The setting may not be operable right after it is changed.
- This setting is available only when a hands-free telephone is not used.
- The setting will change after the following processes are automatically executed.
 - The source is turned off.
 - AppRadio Mode +, Apple CarPlay or Android Auto is exited.
 - The smartphone connection (USB and Bluetooth) is disconnected.

iPod/iPhone

Compatible iPod/iPhone models

- iPhone 7
- iPhone 7 Plus
- iPhone SE
- iPhone 6s
- iPhone 6s Plus
- iPhone 6
- iPhone 6 Plus
- iPhone 5s
- iPhone 5c
- iPhone 5
- iPod touch (6th generation)
- iPod touch (5th generation)
- iPod nano (7th generation)

Depending on the iPod models, it may not be compatible with some AV sources. For details about iPod/iPhone compatibility with this product, refer to the information on our website.




- 1 Press .
- 2 Touch  then .

- 3 Touch [Smartphone-related Settings].
- 4 Touch [Smartphone Setup].
- 5 Touch [iPhone/iPod].
The available function icons are displayed.
- 6 Touch [OK].

Smartphone (Android™ device)

Compatible smartphones

Compatibility with all smartphones is not guaranteed. For details about smartphone compatibility with this product, refer to the information on our website.

- 1 Press .
- 2 Touch  then .
- 3 Touch [Smartphone-related Settings].
- 4 Touch [Smartphone Setup].
- 5 Touch [Others].
- 6 Touch [Android Auto] to use Android Auto.
Touch [AppRadio Mode] to use AppRadio Mode +.
The available function icons are displayed.
- 7 Touch [OK].

Digital Radio

Digital Radio tuner operations

For improved Digital Radio reception, make sure a Digital Radio aerial with phantom power input (active type) is used. Pioneer recommends using AN-DAB1 (sold separately) or CA-AN-DAB.001 (sold separately).

Current consumption of Digital Radio aerial should be 100 mA or less.

NOTES

- High sound quality (nearly as high as for CDs, although it may be reduced in some cases in order to allow more services to be broadcast)
- Interference-free reception
- Some stations perform broadcast testing.

MFN support

When some ensembles support the same service component, switches to another ensemble that has better reception automatically.

Starting procedure

- 1 Press  then touch .
- 2 Touch [Digital Radio].
The Digital Radio screen appears.

NOTE

The service list will be automatically updated when the Digital Radio function is started for the first time. If the update succeeds, the station listed at the top of the service list will be automatically tuned in to.

Basic operation

Digital Radio screen



| | |
|--|--|
| | Recalls the preset channel stored to a key from memory. |
| | Stores the current broadcast frequency to a key. |
| | Displays the preset channel list. Select an item on the list to switch to the preset service. |
| | Selects the DAB1, DAB2, or DAB3 band. |
| | Manual tuning When there are multiple services in the same frequency, switches the services one by one. |
| | Seek tuning Skips to the nearest ensemble. |
| | Stores recent broadcasts to memory automatically (time shift mode). Pause or listen to the stored broadcasts again by touching . Touch to resume the live broadcast. |
| | NOTES <ul style="list-style-type: none"> • Stored broadcast is overwritten by the latest broadcast. • If the duration that a selection is paused exceeds the length of the memory capacity, playback will resume from the beginning of the selection in memory. |



Selects a service component.

Touch the following category then select each item.

[Station]: Displays all service components.

[Program Type] (PTY label): Searches from programme type information.

[Station Group] (ensemble label): Displays the ensemble list.

TIP

If you touch [Update Stations], you can update station list information manually.

NOTES

- Station list information is automatically updated, when you start to use this source.
- When there is any changes in the current station group, station list information automatically updated.

TIPS

- By pressing then touch or , you can also switch the preset channels.
- By pressing then touch and hold or and releasing it, you can also perform seek tuning.

DAB settings

- 1 Press .
 - 2 Touch then .
- The system setting screen appears.
- 3 Touch [AV Source Settings].
 - 4 Touch [DAB Settings].

The menu items vary according to the source.



| Menu Item | Description |
|------------------------|---|
| [TA Interrupt]* | Receives the traffic announcement from the last selected frequency, interrupting the other sources. |
| [DAB+RDS TA] | Receives current traffic information for DAB and RDS (AN-DAB1 has priority) if available. |
| [RDS TA ONLY] | Receives current traffic information for only RDS if available. |

| Menu Item | Description |
|--|--|
| [TA OFF] | Disables this function. |
| [Service Follow]* [On] [Off] | Searches for another ensemble that supports the same service component with better reception. If no alternative service component can be found or reception remains poor, the unit will automatically switch to an identical FM broadcast. (HARD LINK) |
| [Soft Link]* [On] [Off] | When HARD LINK is unsuccessful, tunes to another ensemble that supports the similar service component. If no alternative service component can be found or reception remains poor, this function will automatically switch to a similar FM broadcast. NOTES <ul style="list-style-type: none"> This setting is available only when [Service Follow] is set to [On]. Only available in areas where SOFT LINK function is supported. The broadcast content of the switched channel may differ from the content of the original channel. |
| [Antenna Power] [On] [Off] | Select whether to output power to a connected Digital Radio aerial. For details on how to connect a Digital Radio aerial, refer to the Installation Manual. NOTE This setting is available when the source is turned off. |

* This setting is available only when [Digital Radio] is selected as the source.

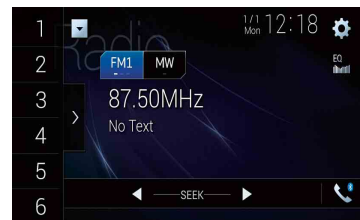
Radio






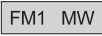



Starting procedure

- 1 Press  then touch .
- 2 Touch [Radio].
The Radio screen appears.

Basic operation

Radio screen



| | |
|---|--|
|  |  Recalls the preset channel stored to a key from memory. |
|  |  Stores the current broadcast frequency to a key. |
|  | Displays the preset channel list. Select an item on the list ([1] to [6]) to switch to the preset channel. |
|  | Selects the FM1, FM2, FM3, MW, or LW band. |
|  |  Manual tuning |
|  | Seek tuning or non stop seek tuning Releasing the key in a few seconds skips to the nearest station from the current frequency. Keep holding the key for long seconds to perform, performs non stop seek tuning. |

TIPS

- By pressing then touch or , you can also switch the preset channels.
- By pressing then touch and hold or and releasing it, you can also perform seek tuning.

Storing the strongest broadcast frequencies (BSM)

The BSM (best stations memory) function automatically stores the six strongest broadcast frequencies under the preset channel keys [1] to [6].

NOTES

- Storing broadcast frequencies with BSM may replace those you have already saved.
- Previously stored broadcast frequencies may remain stored if the number of frequencies stored has not reached the limit.

1 Touch the preset channel list display key.

2 Touch to begin search.

While the message is displayed, the six strongest broadcast frequencies will be stored under the preset channel keys in the order of their signal strength.

To cancel the storage process

1 Touch [Cancel].

Radio settings

1 Press .

2 Touch then .
The system setting screen appears.

3 Touch [AV Source Settings].

4 Touch [Radio Settings].

The menu items vary according to the source.

| Menu Item | Description |
|---|---|
| [Local] [Off] FM: [Level1] [Level2] [Level3] [Level4] MW/LW: [Level1] [Level2] | Local seek tuning allows you to only tune into radio stations with sufficiently strong signals. NOTE [Level4] for FM and [Level2] for MW/LW are available only with the stations with the strongest signals. |

| Menu Item | Description |
|------------------------------------|---|
| [FM Step]*1 [100kHz] [50kHz] | Select the seek tuning step for the FM band. NOTE The tuning step remains at [50kHz] during manual tuning. |
| [Regional]*2 [On] [Off] | Switches whether the area code is checked during the Auto PI search. |
| [Alternative FREQ]*2 [On] [Off] | Allow the unit to retune to a different frequency providing the same station. |
| [Auto PI]*1 [On] [Off] | Searches for the same PI (Programme Identification) code broadcast station from all frequency bands automatically when the broadcasting station contains RDS data. NOTE Even if you set to [Off], the PI search is automatically performed when the tuner cannot get a good reception. |
| [TA Interrupt]*2 | Receives the traffic announcement from the last selected frequency, interrupting the other sources. TIP The selected setting also applies to [TA Interrupt] under [DAB Settings]. |
| [DAB+RDS TA] | Receives current traffic information for DAB and RDS (DAB has priority) if available. |
| [RDS TA ONLY] | Receives current traffic information for only DAB+RDS TA if available. |
| [TA OFF] | Disables this function. |
| [News Interrupt]*2 [On] [Off] | Interrupt the currently selected source with news programmes. |
| [Tuner Sound]*2 | Switches the sound quality of the FM tuner. |
| [Talk] | Gives priority to noise prevention. |
| [Standard] | Gives no effect. |
| [Music] | Gives priority to the sound quality. |

*1 This setting is available when the source is turned off.

*2 This function is available only when you receive the FM band.

Disc

Inserting and ejecting a disc

You can play a normal music CD, Video-CD, or DVD-Video using the built-in drive of this product.



WARNING

Keep hands and fingers clear of this product when opening, closing, or adjusting the LCD panel. Be especially cautious of children's hands and fingers.

CAUTION

Do not insert anything other than a disc into the disc-loading slot.




Inserting a disc

- 1 Press .
- 2 Touch  to open the LCD panel.
- 3 Insert a disc into the disc-loading slot.
The source changes and then playback will start.

NOTE








If the disc is already set, select [Disc] as the playing source.

Ejecting a disc

- 1 Press .
- 2 Touch  to open the LCD panel.
- 3 Remove the disc and press .

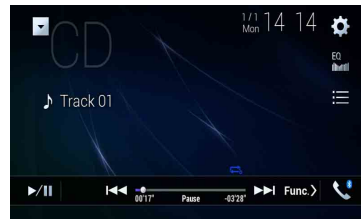
Basic operation





TIPS

- By pressing  then touch  or , you can also skip files/chapters forwards or backwards.
- By pressing  then touch and hold  or , you can also perform fast reverse or fast forwards.
- If a Video-CD with PBC (playback control) On is being played,  appears.
- You can set the screen size for the video image (page 52).

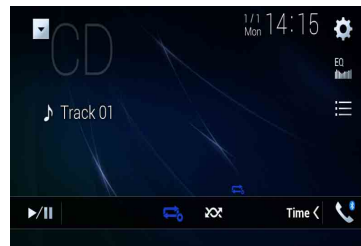
Audio source





Audio source screen 1



| | |
|---|---|
|  | Switches between playback and pause. |
|   | Skips files forwards or backwards. |
|  | Selects a track from the list. Touch a track on the list to play back. |

Audio source screen 2



| | |
|---|--|
|   | Sets a repeat play for the current disc/the current track. |
|   | Plays or does not play tracks in random order. |

Video source

CAUTION

For safety reasons, video images cannot be viewed while your vehicle is in motion. To view video images, stop in a safe place and apply the handbrake.

Video source screen 1



| | |
|--|--|
| | <p>Hides the touch panel keys. To display the keys again, touch anywhere on the screen.</p> |
| | <p>Performs fast reverse or fast forwards. Touch again to change the playback speed.</p> |
| | <p>Stops playback.</p> |
| | <p>Performs frame-by-frame playback.</p> |
| | <p>Performs slow-motion playback. Each time you touch , it changes the speed in four steps in the following order: 1/16 -> 1/8 -> 1/4 -> 1/2</p> |
| | <p>Displays the DVD menu.</p> |
| | <p>Switches the audio/subtitle language.</p> |
| | <p>NOTE This function may not work properly with some DVD disc content. In that case, use touch panel keys to operate the DVD menu.</p> |










| | |
|--|--|
| | <p>Searches for the part you want to play. Touch [Title], [Chapter], [10key], or [Track] then input the desired number from [0] to [9]. To start playback from the number you registered, touch .</p> <p>TIPS</p> <ul style="list-style-type: none"> • To cancel an input number, touch [C]. • For DVD-Videos, you can select [Title], [Chapter] or [10Key]. • For Video-CDs, you can select [Track] or [10key].* |
| | <p>Skips files/chapters forwards or backwards.</p> |
| | <p>Performs fast reverse or fast forwards.</p> |

* PBC (playback control) only

Video source screen 2



| | |
|--|--|
| | <p>Selects the audio output from [L+R], [Left], [Right], [Mix]. This function is available for Video-CDs and DVDs recorded with LPCM audio.</p> |
| | <p>Changes the viewing angle (Multi-angle). This function is available for DVDs featuring multi-angle recordings.</p> |
| | <p>Sets a repeat play for all files/the current chapter/the current title.</p> |

| | |
|--|--|
|  | <p>Displays the DVD menu keypad. If items on the DVD menu appear, the touch panel keys may overlay them. If so, select an item using these touch panel keys. Touch , , , or  to select the menu item then touch .</p> <p>NOTE The way to display the menu differs depending on the disc.</p> <p>TIP If you touch , you can operate the DVD menu directly.</p> |
|  | <p>Resumes playback (Bookmark). This function is available for DVD-Video. You can memorise one point as a Bookmark for a disc (up to five discs). To clear the bookmark on the disc, touch and hold this key.</p> |
|  | <p>Returns and begins playback from the specified point. This function is available for DVD-Video and Video-CDs featuring PBC (playback control).</p> |

Compressed files



Inserting and ejecting media

You can play compressed audio, compressed video, or still image files stored in a disc or an external storage device.



WARNING

Keep hands and fingers clear of this product when opening, closing, or adjusting the LCD panel. Be especially cautious of children's hands and fingers.

CAUTION

- Do not insert anything other than a disc into the disc-loading slot.
- Do not insert anything other than SD memory cards into the SD card slot.
- Ejecting an SD memory card during data transfer can damage the SD memory card. Be sure to eject the SD memory card by the procedure described in this manual.
- Do not press  when an SD memory card is not fully inserted. Doing so may damage the card.
- Do not press  before an SD memory card has been completely removed. Doing so may damage the card.




Inserting a disc

- 1 Press .
- 2 Touch  to open the LCD panel.
- 3 Insert a disc into the disc-loading slot.
The source changes and then playback will start.

NOTE



If the disc is already set, select [Disc] as the playing source.

Ejecting a disc

- 1 Press .
- 2 Touch  to open the LCD panel.
- 3 Remove the disc and press .

Inserting an SD memory card




- 1 Press .

- 2 Touch  to open the LCD panel.
- 3 Insert an SD memory card into the SD card slot.
- 4 Press .

NOTES

- This system is not compatible with the Multi Media Card (MMC).
- Compatibility with all SD memory cards is not guaranteed.
- This product may not achieve optimum performance with some SD memory cards.

Ejecting an SD memory card

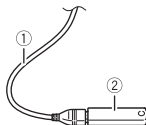
- 1 Press .
- 2 Touch  to open the LCD panel.
- 3 Press the middle of the SD memory card gently until it clicks.
- 4 Pull the SD memory card out straight.
- 5 Press .

Plugging a USB storage device

- 1 Pull out the plug from the USB port of the USB cable.
- 2 Plug a USB storage device into the USB cable.

NOTES

- This product may not achieve optimum performance with some USB storage devices.
- Connection via a USB hub is not possible.
- A USB cable is required for connection.



| | |
|---|--------------------|
| ① | USB cable |
| ② | USB storage device |

Unplugging a USB storage device

- 1 Pull out the USB storage device from the USB cable.

NOTES

- Check that no data is being accessed before pulling out the USB storage device.
- Turn off (ACC OFF) the ignition switch before unplugging the USB storage device.



Starting procedure**For Disc**

- 1 Insert the disc (page 24).

TIP

If the disc is already set, select [Disc] as the playing source.







For USB/SD

- 1 Insert the SD memory card into the SD card slot or plug the USB storage device into the USB connector.
- 2 Press  then touch .
- 3 Touch [USB] or [SD].
Playback is performed in order of folder numbers. Folders are skipped if they contain no playable files.

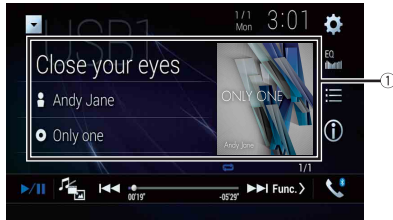
NOTES






- For details on inserting SD card see on Inserting an SD memory card (page 24).
- For details on plugging USB storage device, see on Plugging a USB storage device (page 25).

Basic operation**TIPS**

- By pressing  then touch  or , you can also skip files/chapters forwards or backwards.
- By pressing  then touch and hold  or  on the audio or video file, you can also perform fast reverse or fast forwards.
- You can set the screen size for the video and image files (page 52).


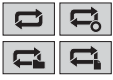

Audio source screen 1 (Example: USB)



| | |
|--|---|
| <p>①</p> | <p>Displays the link search screen. Touch the song to play back followed by touching the song information, after switching to Music Browse mode (page 26).</p> <p>TIP If you touch the artwork, the list of songs in the album is displayed.</p> <p>NOTE This function is available for the external storage device (USB, SD) only.</p> |
|  | <p>Switches between playback and pause.</p> |
|  | <p>Switches the following media file types. [Music]: Compressed audio files [Video]: Compressed video files [Photo]: Image files</p> |
|  | <p>Skips files forwards or backwards.</p> |
|  | <p>Switches the current music information display.</p> |
|  | <p>Selects a file from the list. Touch a file on the list to playback.</p> <p>TIP Touching a folder on the list shows its contents. You can play a file on the list by touching it.</p> <p>NOTE When you play compressed audio files stored in an external storage device (USB, SD), you can search for a file using Music Browse (page 26).</p> |

Audio source screen 2 (Example: USB)




| | |
|---|---|
|  | <p>Selects the previous folder or the next folder.</p> |
|  | <p>Sets a repeat play range for all files/the current folder/the current file.</p> |
|  | <p>Plays files or does not play in random order.</p> |

► **Selecting a file using Music Browse mode**

You can select files to play back using the category list if the files contain tag information.

NOTES

- This function is available for the external storage device (USB, SD) only.
- Music Browse mode cannot be held once the power is turned off.

- 1 Touch .
- 2 Touch the [Tag] tab.
- 3 Touch the desired category to display the file list.
- 4 Touch the item.
Refine the item until the desired song title or file name is displayed on the list.
- 5 Touch the desired song title or file name to play back.
If the selection made with Music Browse has been cancelled, you can switch to Music Browse mode again by touching the [Tag] tab on the file/folder list screen and touching the desired track.

TIP

Once the database is created in the USB storage, there is no need to create the database again as long as the same contents are saved. To enter the Music Browse mode directly, touch [≡] and then touch [Tag] before selecting the song.

Video source

⚠ CAUTION

For safety reasons, video images cannot be viewed while your vehicle is in motion. To view video images, stop in a safe place and apply the handbrake.

Video source screen (Example: USB)



| | |
|---|---|
| ① | Hides the touch panel keys. To display the keys again, touch anywhere on the screen. |
| | Switches between playback and pause. |
| | Switches the following media file types. [Music]: Compressed audio files [Video]: Compressed video files [Photo]: Image files |
| | Performs fast reverse or fast forwards. Touch again to change the playback speed. |
| | Stops playback. |
| | Performs frame-by-frame playback. |
| | Performs slow-motion playback. |

| | |
|--|--|
| | Sets a repeat play range for all files/the current folder/the current file. |
| | Switches the audio/subtitle language. |
| | Selects a file from the list. Touch a file on the list to playback. TIP Touching a folder on the list shows its contents. You can play a file on the list by touching it. |
| | Skips files forwards or backwards. |
| | Performs fast reverse or fast forwards. |

Still image source









TIPS

- Image files are not displayed in the rear display.
- By pressing [≡] then touch and hold [⏮] or [⏭] on the still image file, you can search through 10 image files at a time. If the file currently being played is the first or last file in the folder, the search is not performed.

Still image screen



| | |
|---|--|
| ① | Hides the touch panel keys. To display the keys again, touch anywhere on the screen. |
|---|--|

| | |
|--|--|
|  | Switches between playback and pause. |
|  | Switches the following media file types. [Music]: Compressed audio files [Video]: Compressed video files [Photo]: Image files |
|  | Skips files forwards or backwards. |
|  | Selects the previous folder or the next folder. |
|  | Rotates the displayed picture 90° clockwise. |
|  | Sets a repeat play range for all files/the current folder. |
|  | Plays all files in the current repeat play range or does not play them in random order. |
|  | Selects a file from the list. Touch a file on the list to playback. TIP Touching a folder on the list shows its contents. You can play a file on the list by touching it. |

iPod

Connecting your iPod

When connecting an iPod to this product, the settings are automatically configured according to the device to be connected.

NOTES

- Depending on the generation or version of the iPod, some functions may not be available.
- Do not delete the Apple Music® app from your iPod since some functions may not be available.
- When connecting an iPhone or iPod touch, quit all applications before connecting the device.







- 1** Connect your iPod via USB.
- 2** Press  then touch .
- 3** Touch [iPod].

NOTE

For details on USB connection, refer to the Installation Manual.

Basic operation

TIPS

- By pressing  then touch  or , you can also skip files forwards or backwards.
- By pressing  then touch and hold  or , you can also perform fast reverse or fast forwards.

NOTE

Skipping backwards, fast reverse and fast forwards are not available while playing Apple Music Radio.

Audio source screen 1



| | |
|--------------|---|
| <p>①</p> | <p>Displays the link search screen. Select a song from the list related to the song currently playing.</p> <p>TIP If you touch the artwork, the list of songs in the album is displayed.</p> <p>NOTE This function is not available while playing Apple Music Radio.</p> |
| <p>▶/ </p> | <p>Switches between playback and pause.</p> |
| <p>◀◀ ▶▶</p> | <p>Skips files forwards or backwards.</p> |
| <p>☰</p> | <p>Selects a song from the list. Touch the initial search bar to the title of the list to playback of the selected list.</p> <p>TIPS</p> <ul style="list-style-type: none"> • If you use English as the system language, the alphabet search function is available. Touch the initial search bar to use this function. • When you touch Apple Music Radio station in the list screen, Apple Music Radio screen appears (page 29). <p>NOTES</p> <ul style="list-style-type: none"> • Depending on the generation or version of the iPod, some functions may not be available. • Only 16 000 songs in the iPod are available in the list if the iPod has more than 16 000 songs. Available songs depend on the iPod. |

Audio source screen 2



| | |
|--------------|--|
| <p>①</p> | <p>Changes the audiobook speed. Normal—Fast—Slow</p> <p>NOTE The audiobook speed icon may not change depending on the connected iPod/iPhone.</p> |
| <p>◀◀ ▶▶</p> | <p>Sets a repeat play range for all in the selected list/the current song.</p> |
| <p>🔄</p> | <p>Plays songs within the selected list/album randomly.</p> |

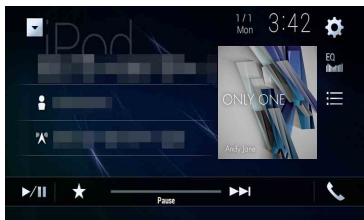
Apple Music® Radio source

Important
Apple Music Radio may not be available in your country or region. For details about Apple Music Radio, visit the following site: <http://www.apple.com/music/>

NOTE
This function is only available when using the iPod function with an iPhone 7, iPhone 7 Plus, iPhone SE, iPhone 6s, iPhone 6s Plus, iPhone 6, iPhone 6 Plus, iPhone 5s, iPhone 5c, iPhone 5 or iPod touch (5th and 6th generation).

- 1 Touch [☰].
- 2 Touch [Radio].

Apple Music Radio screen



| | |
|--|--|
| | Switches between playback and pause. |
| | <p>Displays the pop-up menu for Apple Music Radio.</p> <ul style="list-style-type: none"> • Touch [Play More Like This] to play back songs similar to the current song. • Touch [Play Less Like This] to set it not to play back the current song again. • Touch [Add to iTunes Wish List] to add the current song to the iTunes wish list. <p>NOTE This function may not be used depending on your Apple Music account status.</p> |
| | Skips tracks forwards. |

AppRadio Mode +

You can operate iPhone or smartphone applications with finger gestures such as tapping, dragging, scrolling, or flicking on the screen of this product.

Compatible iPhone models

- iPhone 7, iPhone 7 Plus, iPhone SE, iPhone 6s, iPhone 6s Plus, iPhone 6, iPhone 6 Plus, iPhone 5s, iPhone 5c, iPhone 5

Compatible smartphone (Sound from AppRadio Mode + on some Android devices cannot be heard from the speakers of this unit.) models

For details about Android device compatibility with this product, refer to the information on our website.

NOTES

- The compatible finger gestures vary depending on the application for an iPhone or a smartphone.
- Copyright protected files such as DRM cannot be played.
- AppRadio Mode + may be referred to as AppRadio Mode.

⚠ WARNING

Certain uses of the iPhone or smartphone may not be legal while driving in your jurisdiction, so you must be aware of and obey any such restrictions. If in doubt as to a particular function, only perform it while the car is parked. No feature should be used unless it is safe to do so under the driving conditions you are experiencing.

Using AppRadio Mode +


🔔 Important

- To use AppRadio Mode +, install the AppRadio app on the iPhone or smartphone in advance. For details about the AppRadio app, visit the following site:
<http://www.pioneer-car.eu/eur/appradiomode>
- Be sure to read Using app-based connected content (page 62).
- Content and functionality of compatible applications are the responsibility of the App providers.
- In AppRadio Mode +, usage is limited while driving, with availability of functions and content determined by the App providers.
- AppRadio Mode + allows access to applications other than those listed, subject to limitations while driving.
- PIONEER IS NOT RESPONSIBLE AND DISCLAIMS LIABILITY FOR THIRD PARTY (NON-PIONEER) APPS AND CONTENT, INCLUDING WITHOUT LIMITATION ANY INACCURACIES OR INCOMPLETE INFORMATION.

Starting procedure





When connecting an iPhone or a smartphone to this product, settings are required according to the connected device. For details, refer to Setup for iPod/iPhone or smartphone (page 17).







TIPS

- Touch the desired application icon after the AppRadio app is launched.
- If you connect your device to this product while an AppRadio Mode + compatible application is already running, the application operation screen will appear on this product.
- The desired application is launched, and the application operation screen appears.
- Press  to go back to the top menu screen.

AppRadio Mode +



| | |
|--|---|
|  | Displays the current source. |
|  | Displays the launcher application screen. |
|  | Displays the previous screen. |
|  | Displays the menu screen. |

- Press  then touch  to hide the AppRadio Mode + SideControlBar.
- Press  then touch  again to display the AppRadio Mode + SideControlBar again.
-  and  are not available depending on the type of device.

For iPhone users



- 1 Connect your iPhone to this product via USB.
Refer to the Installation Manual.

- 2 Press .
- 3 Touch .
- 4 Touch [AppRadio Mode].
- 5 Touch desired icon in the tab.
The AppRadio app is launched.

For smartphone (Android) users

NOTE

The video playback capability depends on the connected Android device.

- 1 Unlock your smartphone and connect it to this product via USB.
Refer to the Installation Manual.
- 2 Press .
- 3 Touch .
- 4 Touch [AppRadio Mode].
- 5 Touch desired icon in the tab.
The AppRadio app is launched.

Using the keyboard (for iPhone users)

When you tap the text input area of an application for iPhone, a keyboard will be displayed on the screen. You can input desired text directly from this product.

NOTES

- This function may not be available depending on your iPhone.
- This function is only available in AppRadio Mode + on the iPhone.

CAUTION

For your safety, the keyboard functionality is only available when the vehicle is stopped and the handbrake is engaged.

- 1 Start up the AppRadio Mode +.
- 2 Touch the text input area on the application operation screen.
A keyboard for entering text appears.

TIP

You can select the keyboard language (page 43).

Using the audio mix function

You can output the audio mixing AV source and an application for iPhone or smartphone when AppRadio Mode + is used.

NOTE


Depending on the application or AV source, this function may not be available.

1 Start up the AppRadio Mode +.

2 Press VOL (+/-).

The audio mix menu will be displayed on the screen.

NOTES

- The audio mix menu is displayed for four seconds. If the screen disappears, press **VOL (+/-)** again. The screen reappears.
- The AV operation screen and the Application screen can be switched by pressing .



| | |
|---|--|
| ① | Touch to mute. Touch again to cancel mute. |
| ② | Sets whether to switch the sound mix function on or off. <ul style="list-style-type: none">• Left tab: The audio mix function is enabled (mix on) and the App volume is displayed.• Right tab: The audio mix function is disabled (mix off). This is not displayed on the AV operation screen. |
| ③ | Adjusts the application audio volume. <ul style="list-style-type: none">• The App volume is not displayed when the right tab is selected.• You cannot adjust the volume of the main sound on the screen. Press VOL (+/-) to adjust the volume of the main sound. |

TIP

The AV operation screen and the Application screen can be switched by pressing .

Apple CarPlay

You can operate iPhone applications with finger gestures such as tapping, dragging, scrolling, or flicking on the screen of this product.

Compatible iPhone models

For details about compatibility of iPhone models, refer to the following website.

<http://www.apple.com/ios/carplay>

NOTE

The compatible finger gestures vary depending on the application for the iPhone.

⚠ WARNING

Certain uses of the iPhone may not be legal while driving in your jurisdiction, so you must be aware of and obey any such restrictions. If in doubt as to a particular function, only perform it while the car is parked. No feature should be used unless it is safe to do so under the driving conditions you are experiencing.

Using Apple CarPlay

🔄 Important

Apple CarPlay may not be available in your country or region.

For details about Apple CarPlay, visit the following site:

<http://www.apple.com/ios/carplay>

- The content and functionality of the supported applications are the responsibility of the App providers.
- In Apple CarPlay, usage is limited while driving, with availability of functions and content determined by the App providers.
- Apple CarPlay allows access to applications other than those listed that are subject to limitations while driving.
- PIONEER IS NOT RESPONSIBLE AND DISCLAIMS LIABILITY FOR THIRD PARTY (NON-PIONEER) APPS AND CONTENT, INCLUDING WITHOUT LIMITATION ANY INACCURACIES OR INCOMPLETE INFORMATION.

Setting the driving position

To achieve optimum usability of Apple CarPlay, set the driving position setting correctly according to the vehicle. The setting will be applied the next time an Apple CarPlay compatible device is connected to this product.

1 Press .

2 Touch  then .

The system setting screen appears.

3 Touch [Smartphone-related Settings].

4 Touch [Driving Position].

[Left]

Select for a left-hand drive vehicle.

[Right]

Select for a right-hand drive vehicle.

Starting procedure

When connecting an iPhone to this product, settings are required according to the connected device. For details, refer to Setup for iPod/iPhone or smartphone (page 17).

Wired connection

1 Connect an Apple CarPlay compatible device to this product via USB.

2 Press .

3 Touch .

4 Touch [Apple CarPlay].

5 Touch the Apple CarPlay icon in the tab.


The application screen appears.

Wireless connection


Before using Apple CarPlay wirelessly, connect the device to this product via Bluetooth and turn on Apple CarPlay in the Bluetooth setting menu of the device (page 11).

1 Turn on the Wi-Fi function on the device.

2 Press .


3 Touch .

The device search screen appears.

Touch  then skip to step 4 since the device list screen appears if Apple CarPlay had previously been used wirelessly with the device.

NOTE

The unit cannot detect the device unless the Bluetooth or Apple CarPlay setting menu is displayed on the iPhone screen.

4 Touch .


5 Touch a desired device on the screen.

The unit configures the connection then start the application.

TIP

You can also start Apple CarPlay with a desired device by opening the Bluetooth or Apple CarPlay setting menu while displaying the device search or device list screen.

TIP

You can use Siri function by pressing  once Apple CarPlay is activated.

NOTES

- For details on USB connection, refer to the Installation Manual.
- If an Apple CarPlay compatible device has been connected and another screen is displayed, touch [Apple CarPlay] on the top menu screen to display the Application menu screen.
- The Bluetooth connection with the Apple CarPlay compatible device will be terminated automatically if Apple CarPlay is turned on. While Apple CarPlay is turned on, only a Bluetooth audio connection will be possible for devices other than the device connected via Apple CarPlay.
- Hands-free phoning via Bluetooth wireless technology is not available while Apple CarPlay is on. If Apple CarPlay is turned on during a call on a mobile phone other than an Apple CarPlay compatible device, the Bluetooth connection will be terminated after the call ends.

Adjusting the volume

You can adjust the guidance volume separately from the main sound volume when Apple CarPlay is used.

1 While Apple CarPlay is activated, press VOL (+/-).

The volume menu will be displayed on the screen.



| | |
|---|---|
| ① | Touch to mute. Touch again to cancel mute. |
| ② | Touch [+]/[-] to adjust the guidance volume. |
| ③ | Displays the main sound volume. To adjust the main sound volume, press VOL (+/-) on the unit. |

NOTE

The volume menu is displayed for four seconds. If the menu disappears, press VOL (+/-) again. The menu reappears.

Android Auto™

You can operate Android applications with finger gestures such as tapping, dragging, scrolling, or flicking on the screen of this product.

Compatible Android devices

For details about compatibility of Android models, refer to the following website.
<https://support.google.com/androidauto>

NOTE

The compatible finger gestures vary depending on the application for the smartphone.

⚠ WARNING

Certain uses of the smartphone may not be legal while driving in your jurisdiction, so you must be aware of and obey any such restrictions. If in doubt as to a particular function, only perform it while the car is parked. No feature should be used unless it is safe to do so under the driving conditions you are experiencing.

Using Android Auto

🔔 Important

Android Auto may not be available in your country or region.

For details about Android Auto, please refer to the Google support site:

<http://support.google.com/androidauto>

- The content and functionality of the supported applications are the responsibility of the App providers.
- In Android Auto, usage is limited while driving, with availability of functions and content determined by the App providers.
- Android Auto allows access to applications other than those listed that are subject to limitations while driving.
- PIONEER IS NOT RESPONSIBLE AND DISCLAIMS LIABILITY FOR THIRD PARTY (NON-PIONEER) APPS AND CONTENT, INCLUDING WITHOUT LIMITATION ANY INACCURACIES OR INCOMPLETE INFORMATION.

Setting the driving position

To achieve optimum usability of Android Auto, set the driving position setting correctly according to the vehicle. The setting will be applied the next time an Android Auto compatible device is connected to this product.

- 1 Press .
- 2 Touch  then .

The system setting screen appears.

- 3 Touch [Smartphone-related Settings].

- 4 Touch [Driving Position].

[Left]

Select for a left-hand drive vehicle.

[Right]

Select for a right-hand drive vehicle.

Starting procedure

When connecting a smartphone to this product, settings are required according to the connected device. For details, refer to Setup for iPod/iPhone or smartphone (page 17).

Wired connection

- 1 Connect an Android Auto™ compatible device to this product via USB.

- 2 Press .

- 3 Touch .

- 4 Touch [Android Auto].

- 5 Touch the Android Auto icon in the tab.

A Bluetooth connection with the Android Auto compatible device is automatically established and a Bluetooth connection with any other devices are terminated.

Wireless connection


Before using Android Auto wirelessly, connect the device to this product via Bluetooth (page 11).

- 1 Turn on the Wi-Fi function on the device.

- 2 Press .


- 3 Touch .

The device search screen appears.

Touch  then skip to step 4 since the device list screen appears if Android Auto had previously been used wirelessly with the device.

NOTE


The unit cannot detect the device unless the Bluetooth setting menu is displayed on the smartphone screen.

- 4 Touch .

5 Touch a desired device on the screen.

The unit configures the connection then start the application.

TIP

You can use voice recognition function by pressing  once Android Auto is activated.

NOTES

- For details on USB connection, refer to the Installation Manual.
- If twenty devices are already paired, the message confirming whether to delete the registered device is displayed. If you want to delete the device, touch [Agree]. If you want to delete other device, touch [BT Settings] and delete the devices manually (page 11).
- If Android Auto is turned on during a call on a mobile phone other than the Android Auto compatible device, the Bluetooth connection will switch to the Android Auto compatible device after the call.

Adjusting the volume

You can adjust the guidance volume separately from the main sound volume when Android Auto is used.

1 While Android Auto is activated, press VOL (+/-).

The volume menu will be displayed on the screen.



| | |
|---|---|
| ① | Touch to mute. Touch again to cancel mute. |
| ② | Touch [+]/[-] to adjust the guidance volume. |
| ③ | Displays the main sound volume. To adjust the main sound volume, press VOL (+/-) on the unit. |

NOTE




The volume menu is displayed for four seconds. If the menu disappears, press **VOL (+/-)** again. The menu reappears.

Setting the auto-launch function

If this function is set to on, Android Auto will launch automatically when an Android Auto compatible device is connected to this product.

NOTE

Android Auto will launch automatically only when an Android Auto compatible device is correctly connected to this product.

- 1 Press .
- 2 Touch  then .
- 3 Touch [Smartphone-related Settings].
- 4 Touch [Android Auto Auto-launch] to switch [On] or [Off].

HDMI

⚠ CAUTION

For safety reasons, video images cannot be viewed while your vehicle is in motion. To view video images, stop in a safe place and apply the handbrake.

NOTE

A High Speed HDMI® Cable (sold separately) is required for connection. For details, refer to the Installation Manual.

Starting procedure

- 1 Press  then touch .
- 2 Touch [HDMI].
The HDMI source screen appears.

Basic operation

HDMI source screen



①

Hides the touch panel keys.

To display the keys again, touch anywhere on the screen.

TIP

You can set the screen size for the video image (page 52).

AUX

You can display the video image output by the device connected to video input.






⚠ CAUTION

For safety reasons, video images cannot be viewed while your vehicle is in motion. To view video images, stop in a safe place and apply the handbrake.

NOTES

- A Mini-jack AV cable (CD-RM10) (sold separately) is required for connection. For details, refer to the Installation Manual.
- You can set the screen size for the video image (page 52).


Starting procedure

- 1 Press .
- 2 Touch  then .
- 3 Touch [Input/Output Settings].
- 4 Confirm that [AUX Input] is turned on.
- 5 Press  then touch .
- 6 Touch [AUX].
The AUX screen appears.

Basic operation

AUX screen



| | |
|--|--|
| ① | Hides the touch panel keys. To display the keys again, touch anywhere on the screen. TIP You can set the screen size for the video image (page 52). |
|  | Switches between the video input and audio input. |





AV input

You can display the video image output by the device connected or the camera to video input. For details, refer to the Installation Manual.

⚠ CAUTION

For safety reasons, video images cannot be viewed while your vehicle is in motion. To view video images, stop in a safe place and apply the handbrake.

Starting procedure

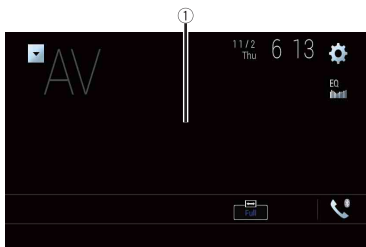
- 1 Press .
- 2 Touch  then .
- 3 Touch [Input/Output Settings].
- 4 Touch [AV Input].
- 5 Touch [Source] for AV source or [Camera] for camera.
- 6 Press  then touch [AV].
- 7 Touch [AV] for AV source or [Camera View] for camera.
The image is displayed on the screen.

NOTE

If [Source] is selected, [2nd Camera Input] is automatically set to [Off] (page 41).

Basic operation

AV source screen



①

Hides the touch panel keys.

To display the keys again, touch anywhere on the screen.

Wireless Mirroring

(This function is available only for Android device.)






Wireless Mirroring is a wireless display designed to mirror your mobile device on this product screen via Wi-Fi connection.

Starting procedure

Wireless Mirroring operations and procedures vary depending on the connected mobile device. Refer to the instruction manual that came with your mobile device.

⚠ CAUTION

For safety reasons, this function is available only when you stop your vehicle in a safe place and apply the handbrake.

- 1 Press .
- 2 Touch  then .
- 3 Touch [Wi-Fi Settings].
- 4 Confirm that [Wi-Fi] is turned on.
- 5 Press  then touch .
- 6 Touch [Mirroring].

A connection is configured then the instruction message appears on the display.

NOTES

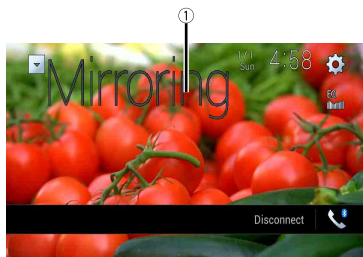
- When Apple CarPlay or Android Auto with wireless connection is activated, the connection switching confirmation screen appears. Touch [Yes] to proceed to Wireless Mirroring.
- When the Wi-Fi connection is set to [OFF], the connection confirmation screen appears. Touch [Start] to make the connection.

- 7 Make a Wireless Mirroring connection on the mobile device.
- 8 Touch [Yes].

The Wireless Mirroring screen appears.

Basic operation

Wireless Mirroring screen (Example)



①

Displays Full screen.

[Disconnect]

Disconnects Wireless Mirroring.

NOTES

- The screen shown in the example may differ from the connected mobile device.
- If the Android device is not ready for Miracast UIBC, you cannot perform touch operation.

Vehicle equipment information

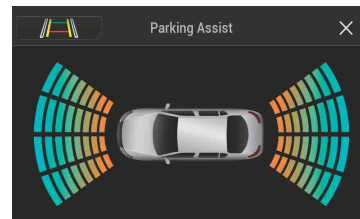
Using the Vehicle Bus adapter

By connecting the optional Vehicle Bus adapter, you can display the operation status of the vehicle's parking sensor function and climate control panel on the screen.

Important

- For information on installing the Vehicle Bus adapter, see the operating manual of the Vehicle Bus adapter.
- After installing the Vehicle Bus adapter, be sure to check operations.
- For details about vehicle models that are compatible with Vehicle Bus adapters, refer to the information on our website.
- Functions and displays vary depending on the vehicle model. For details of the functions available according to the model, refer to the information on our website.

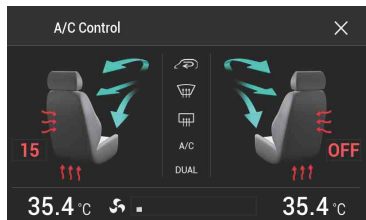
Parking Assist screen



Switches the display to the rear view camera image.

The display switches only when the rear view camera setting is set to [On] and the gearstick is in the REVERSE (R) position.

A/C Control screen



Displaying obstacle detection information

⚠ CAUTION

This function is intended solely to assist the driver's vision. It does not detect all dangers and obstacles and is not a substitute for your attentiveness, judgement, and care while parking your vehicle.

NOTES

- This function is only available for vehicles equipped with a parking sensor system.
- The Parking Assist screen is not displayed until this product boots up completely.

- 1 Turn on the parking assist sensor on your vehicle.
The Parking Assist screen appears.

Displaying the operating status of the climate control panel

When you operate the climate control panel of the vehicle, the screen switches automatically to the A/C Control screen.








NOTES

- The settings of the climate control panel operated before this product is started are not displayed on the screen.
- Any climate control panel settings of the vehicle that are turned off are not displayed on the screen.
- If the information displayed on the screen is reversed for the left and right sides of the vehicle, change the [Climate Reverse] setting to [On] (page 42).

Settings

You can adjust various settings in the main menu.

Displaying the setting screen

- 1 Press .
- 2 Touch .
- 3 Touch one of the following categories, then select the options.
 -  System settings (page 40)
 -  Theme settings (page 45)
 -  Audio settings (page 46)
 -  Video settings (page 50)
 -  Bluetooth settings (page 11)

System settings

The menu items vary according to the source.

[AV Source Settings]

| Menu Item | Description |
|---------------------------------|--|
| [Radio Settings] | (page 21) |
| [DAB Settings] | (page 19) |
| [Bluetooth Audio] [On] [Off] | Setting Bluetooth audio source activation. |

[Smartphone-related Settings]

| Menu Item | Description |
|--------------------------------------|---|
| [Smartphone Setup] | Setting the connected mobile device (page 17). |
| [Driving Position] [Right] [Left] | Setting the driving position. <ul style="list-style-type: none">• Apple CarPlay (page 32)• Android Auto™ (page 34) |

| Menu Item | Description |
|---|---|
| [Android Auto Auto-launch] [On] [Off] | Select [On] to automatically launch Android Auto when an Android device is connected to the unit. |

[Input/Output Settings]

| Menu Item | Description |
|--|---|
| [AppRadio Mode Sound] | Set where the sound for AppRadio Mode + is output when it is used with a smartphone. |
| [AVH] | The sound is output from the speakers of this unit. |
| [Smartphone] | The sound is output from the speakers of the smartphone. |
| | NOTE With an iPhone, the sound is always output from the speakers of this unit. |
| [AV Input] [Source] [Camera] [Off] | Select AV input source (page 37). |
| [AUX Input] [On] [Off] | Set to [On] for AUX source (page 36). |

[Camera settings]

A separately sold rear view camera (e.g. ND-BC8) is required for utilising the rear view camera function. (For details, consult your dealer.)

►Rear view camera

This product features a function that automatically switches to the full-screen image of the rear view camera installed on your vehicle when the gearstick is in the REVERSE (R) position.

Camera View mode also allows you to check what is behind you while driving.

►Camera for Camera View mode

Camera View can be displayed at all times. Note that with this setting, the camera image is not resized to fit, and that a portion of what is seen by the camera is not viewable.

To display the camera image, touch [Camera View] on the AV source selection screen (page 16).

NOTES

- To set the rear view camera as the camera for Camera View mode, set [Back Camera Input] to [On] (page 41).
- When using the 2nd camera, set [AV Input] to [Camera] (page 37).

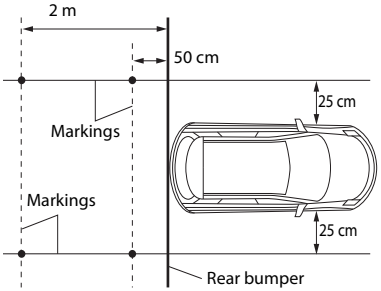
- When the camera view of both the rear view camera and 2nd camera are available, the key to switch the display appears. Touch this key to switch the display between the rear view image and 2nd camera image.

⚠ CAUTION

Pioneer recommends the use of a camera which outputs mirror reversed images, otherwise the screen image may appear reversed.

- Immediately verify whether the display changes to the rear view camera image when the gearstick is moved to REVERSE (R) from another position.
- When the screen changes to full-screen rear view camera image during normal driving, switch to the opposite setting in [Reverse Gear Setting].
- If you touch [⏏] while the camera image is displayed, the displayed image turns off temporarily.
- When the camera view of both the rear view camera and 2nd camera are available, the key to switch the display appears. Touch this key to switch the display between the rear view image and 2nd camera image.

| Menu Item | Description |
|---|--|
| [Camera View] [On] [Off] | Set to [On] to display camera view at all times. (The same mode is turned on when [⏏] is touched on the camera view screen. The setting value is synchronised.) |
| | NOTES <ul style="list-style-type: none"> To set the rear view camera as the camera for Camera View mode, set [Back Camera Input] to [On] (page 41). When using the second camera, set [AV Input] to [Camera] or [2nd Camera Input] to [On] (both settings are synchronised (page 41). |
| | TIP You can also turn this function on by touching [Camera View] on the AV source selection screen or in the source list. |
| [Back Camera Input] [Off] [On] | Setting the second camera activation (front camera, etc.). Setting rear view camera activation. |
| [2nd Camera Input] [Off] [On] | Setting the second camera activation (front camera, etc.). This function is synchronised with [AV Input] setting. |
| [Reverse Gear Setting.] | Setting the polarity of the rear view camera. |
| [Battery] | The polarity of the connected lead is positive. |
| [Ground] | The polarity of the connected lead is negative. |
| | NOTE If the camera polarity setting is wrong, or wrong camera setting is made, press and hold [⏏] to release the rear view camera screen and then change the camera polarity setting to [Battery]. |
| [Parking Assist Guide] [On] [Off] | You can set whether to display the parking assist guidelines on the rear view camera images when backing up your vehicle. |

| Menu Item | Description |
|--------------------------------|--|
| [Parking Assist Guide Adjust]* | <p>Adjusting the guidelines by dragging or touching ▲/▼/◀/▶/◀/▶ on the screen. Touch [Default] to reset the settings.</p> <p>⚠ CAUTION</p> <ul style="list-style-type: none"> When adjusting the guidelines, be sure to park the vehicle in a safe place and apply the handbrake. Before getting out of the car to place the markings, be sure to turn the ignition switch off (ACC OFF). The range projected by the rear view camera is limited. Also, the vehicle width and distance guidelines displayed on the rear view camera image may differ from the actual vehicle width and distance. (The guidelines are straight lines.) The image quality may deteriorate depending on the usage environment, such as at night or in dark surroundings. <p>NOTE</p> <p>Using packing tape or similar tape place markings as shown below before setting up the guidelines so that the guidelines can be overlaid to the markings.</p>  |

* This setting is available only when you stop your vehicle in a safe place and apply the handbrake.

[Safe Mode]

| Menu Item | Description |
|---------------------------|---|
| [Safe Mode] [On] [Off] | Set the safe mode that regulate operating some functions only when you stop your vehicle in a safe place and apply the handbrake. |

[Demo Mode]

| Menu Item | Description |
|---------------------------|------------------------|
| [Demo Mode] [On] [Off] | Setting the demo mode. |

[System Language]

| Menu Item | Description |
|-------------------|-----------------------------|
| [System Language] | Select the system language. |

NOTES

- If the embedded language and the selected language setting are not the same, the text information may not display properly.
- Some characters may not be displayed properly.

[Climate Reverse]

| Menu Item | Description |
|---------------------------------|--|
| [Climate Reverse] [On] [Off] | When the optional vehicle bus adapter is connected, the left/right display of the climate control status screen can be reversed if the display does not match that of the vehicle. |

[Restore Settings]

Touch [Restore] to restore the settings to the default settings.

⚠ CAUTION

Do not turn off the engine while restoring the settings.

NOTE

This setting is available only when you stop your vehicle in a safe place and apply the handbrake.

[Wi-Fi Settings]

| Menu Item | Description |
|------------------|-------------|
| [Wi-Fi Settings] | (page 15) |

| Menu Item | Description |
|----------------------|---|
| [All Settings] | Almost all settings or recorded content returns to the default. |
| [Audio Settings] | Restore to default Audio settings. NOTE This setting is available when the source is turned off. |
| [Theme Settings] | Restore to default Theme settings. |
| [Bluetooth Settings] | Restore to default Bluetooth settings. |

[Keyboard]

| Menu Item | Description |
|------------|--|
| [Keyboard] | You can use the keyboard in AppRadio Mode + by setting the language of the keyboard for iPhone. NOTES <ul style="list-style-type: none"> Set the same system language setting as the iPhone to operate this function properly. This function is only available in AppRadio Mode + on the iPhone. |

[Beep Tone]

| Menu Item | Description |
|---------------------------|---|
| [Beep Tone] [On] [Off] | Select [Off] to disable the beep sound when the button is pressed or the screen is touched. |

[Touch Panel Calibration]

If you feel that the touch panel keys on the screen deviate from the actual positions that respond to your touch, adjust the response positions of the touch panel screen.

NOTES

- Do not use sharp pointed tools such as ballpoint or mechanical pens. They may damage the screen.
- Do not turn off the engine while saving the adjusted position data.
- This setting is available only when you stop your vehicle in a safe place and apply the handbrake.

| Menu Item | Description |
|---------------------------|--|
| [Touch Panel Calibration] | <ol style="list-style-type: none"> Touch two corners of the screen along the arrows then touch the centres of the two [+] marks at the same time twice. Press [■]. The adjustment results are saved. Press [■] once again. Proceed to 16-point adjustment. Gently touch the centre of the [+] mark displayed on the screen. The target indicates the order. <ul style="list-style-type: none"> When you press [■], the previous adjustment position returns. When you press and hold [■], the adjustment is cancelled. Press and hold [■]. The adjustment results are saved. |

[Dimmer Settings]

NOTE

This setting is available only when you stop your vehicle in a safe place and apply the handbrake.

| Menu Item | Description |
|------------------|---|
| [Dimmer Trigger] | Setting the dimmer brightness. |
| [Auto] | Switches the dimmer to on or off automatically according to your vehicle's headlight turning on or off. |
| [Manual] | Switches the dimmer to on or off manually. |
| [Time] | Switches the dimmer to on or off at the time you adjusted. |
| [Day/Night] | Setting the dimmer duration by day or night. You can use this function when [Dimmer Trigger] is set to [Manual]. |
| [Day] | Turns the dimmer function to off. |
| [Night] | Turns the dimmer function to on. |

| Menu Item | Description |
|--------------------------|---|
| [Dimmer Duration] | Adjust the time that the dimmer is turned on or off by dragging the cursors or touching ◀ or ▶. You can use this function when [Dimmer Trigger] is set to [Time]. |
| | <p>TIPS</p> <ul style="list-style-type: none"> Each touch of ◀ or ▶ moves the cursor backwards or forwards in the 15 minute width. When the cursors are placed on the same point, the dimmer available time is 0 hours. When the cursor for off time setting is placed on the left end and the cursor for on time setting is placed on the right end, the dimmer available time is 0 hours. When the cursor for on time setting is placed on the left end and the cursor for off time setting is placed on the right end, the dimmer available time is 24 hours. <p>NOTE</p> <p>The time display of the dimmer duration adjusting bar depends on the clock display setting (page 52).</p> |

[Picture Adjustment]

You can adjust the picture for each source and rear view camera.

CAUTION

For safety reasons, you cannot use some of these functions while your vehicle is in motion. To enable these functions, you must stop in a safe place and apply the handbrake.

To adjust following menu, touch ◀, ▶, ▲, ▼ to adjust.


| Menu Item | Description |
|--|--|
| [Brightness] [-24] to [+24] | Adjust the black intensity. |
| [Contrast] [-24] to [+24] | Adjust the contrast. |
| [Colour]* [-24] to [+24] | Adjust the colour saturation. |
| [Hue]* [-24] to [+24] | Adjust the tone of colour (which colour is emphasised, red, or green). |
| [Dimmer Level] [+1] to [+48] | Adjust the brightness of the display. |
| [Temperature] [-3] to [+3] | Adjust the colour temperature, resulting in a better white balance. |

* With some pictures, you cannot adjust [Hue] and [Colour].

NOTES

- The adjustments of [Brightness], [Contrast], and [Dimmer Level] are stored separately when your vehicle's headlights are off (daytime) and on (nighttime).
- [Brightness] and [Contrast] are switched automatically depending on the setting of [Dimmer Settings].
- [Dimmer Level] can be changed the setting or the time to switch it to on or off (page 43).
- The picture adjustment may not be available with some rear view cameras.
- The setting contents can be memorised separately.

[System Information]

| Menu Item | Description |
|-------------------------------|--|
| [Firmware Information] | Displays the firmware version. TIP You can also check the open source licence of the functions that this product is equipped with by touching [Licence] in this menu. |
| [Firmware Update] | <p> CAUTION</p> <ul style="list-style-type: none"> The external storage device for updating must contain only the correct update file. Never turn this product off, eject the SD memory card or disconnect the USB storage device while the firmware is being updated. You can only update the firmware when the vehicle is stopped and the handbrake is engaged. You cannot update the old firmware version once the latest firmware is updated. <ol style="list-style-type: none"> Download the firmware update files into your computer. Connect a blank (formatted) storage device to your computer then locate the correct update file and copy it onto the USB storage device. Set the external storage device to this product (page 25). Turn the source off (page 16). Display the [System] setting screen (page 40). Touch [System Information]. Touch [Firmware Update]. Touch [Continue]. <p>Follow the on-screen instructions to finish updating the firmware.</p> <p>NOTE</p> <p>If an error message appears on the screen, touch the display and perform the above steps again.</p> |

| Menu Item | Description |
|-------------------------|---|
| [3D Calibration Status] | <p>Check the sensor learning status, such as the degree of learning. You can also check the current sensor values and the total number of speed pulses.</p> <p>To delete the learned results stored in the sensor, follow the below instructions.</p> <ol style="list-style-type: none"> 1 Touch [Distance] or [Speed Pulse], and then touch [Yes]. 2 Touch [Learning] and then touch [Reset All]. <p>TIP</p> <p>Touch [Reset All] to reset the sensor after changing the installation position or angle.</p> <p>NOTE</p> <p>If you touch [Reset Distance], all learned results stored in [Distance] are cleared.</p> |
| [Connection Status] | <p>Check that the leads are properly connected between this product and vehicle.</p> |
| [GPS Antenna] | <p>Displays the connection status of the GPS aerial ([OK] or [NOK]) and the reception sensitivity.</p> <p>NOTE</p> <p>If reception is poor, change the installation position of the GPS aerial.</p> |
| [Positioning Status] | <p>Displays the positioning status (3D positioning, 2D positioning, or no positioning), the number of satellites used for positioning (orange), and the number of satellites that have received signals (yellow). If signals from more than three satellites are received, the current location can be measured.</p> |
| [Installation] | <p>Indicates whether the installation position of this product is correct or not. If installed correctly, [OK] appears. When this product is installed at an extreme angle exceeding the limitation of the installing angle, [NOK(Inst. Angle)] is displayed. If the installation of this product is continually changed and it is not firmly fixed into place, [NOK(Vibration)] is displayed.</p> |
| [Speed Pulse] | <p>The speed pulse value detected by this product is shown.</p> |
| [Illumination] | <p>Displays the status of headlights or small lamps of the vehicle.</p> |
| [Back Signal] | <p>When the gearstick is gearchanged to "R" (reverse position), the signal switches to [High] or [Low]. The signal displayed varies depending on the vehicle.</p> |




| Menu Item | Description |
|---------------|--|
| [Vehicle Bus] | Displays the status of the optional Vehicle Bus adapter. |










Theme settings

CAUTION

Do not turn off the engine while importing an image from the external storage device.

The menu items vary according to the source.

| Menu Item | Description |
|---|---|
| [Background] [Home] [AV] | <p>Select the wall paper from the preset items in this product or original pictures via the external device such as USB storage device and SD memory card.</p> <p>TIP</p> <p>The wall paper can be set from selections for the top menu screen and AV operation screen.</p> |
| Preset Display | Selects the desired preset background display. |
|  (custom)* | <p>Displays the background display image imported from the external storage device.</p> <p>To set the image from an external device, touch  then select the desired image by touching the desired external storage device after connecting the device.</p> <p>NOTE</p> <p>Background display image must be used within the following formats.</p> <ul style="list-style-type: none"> • JPEG image files (.jpg or .jpeg) • Allowable data size is 10 MB or smaller • Allowable image size is 4 000 pixels × 4 000 pixels or smaller |
|  (off) | Hides the background display. |
| [Illumination] | Select an illumination colour from the colour list or create a defined colour. |
| Coloured Keys | Select the desired preset colour. |

| Menu Item | Description |
|---|--|
|  (custom) | Displays the screen to customise the illumination colour. To customise the defined colour, touch  then touch  or  to adjust the brightness and the level of red, green and blue to create favourite colour. To store the customised colour in the memory, touch and hold [Memo], and the customised colour will be available at the next illumination setting by touching  . |
| | TIP You can also adjust the colour tone by dragging the colour bar. |
|  (rainbow) | Shifts gradually between the preset colours in sequence. |
| [Theme] | Select the theme colour. TIP You can preview the top menu screen or the AV operation screen by touching [Home] or [AV] respectively. |
| [Clock] | Select the style of the clock from the preset image. |
| Preset Images | Select the desired preset style for the clock. |
|  (off) | Hides the clock display. |
| [Splash Screen] | Select the splash screen from the preinstalled image in this product or external devices such as USB storage devices and SD memory cards. |
| Preset Images | Selects the desired preset splash screen image. |
|  (custom)* | Displays the splash screen image imported from the external storage device. To set the image from an external device, touch  then select the desired image by touching the desired external storage device after connecting the device. |

* The external storage device is inserted or plugged in in advance to customise the image (page 24).

Replicating the settings

You can export settings you have made on the [Theme] screen to an external storage device. Also, you can import them from an external storage device.

CAUTION

Do not turn off the engine while exporting or importing the settings.

NOTES

- If multiple external storage devices that include available data are connected to this product, the order of priority for the targets that the Theme settings are exported to or imported from is as follows:
 - SD memory card

② USB storage device (USB port 1)

③ USB storage device (USB port 2)

- This setting is available only when you stop your vehicle in a safe place and apply the handbrake.

▶ Exporting Theme settings

1 Set the external storage device (page 24).

2 Press .

3 Touch  then .

4 Touch [Export].

5 Touch the item you want export.

[Illumination]

[Theme]

[Splash Screen]

[Select All]

6 Touch [Export].

▶ Importing Theme settings

1 Set the external storage device (page 24).

A message confirming whether to import the stored setting data appears.

2 Touch [Import].

Audio settings

The menu items vary according to the source. Some of the menu items become unavailable when the volume is set to mute or the source is off.

| Menu Item | Description |
|---|---|
| [Graphic EQ] [Super Bass] [Powerful] [Natural] [Vocal] [Flat] [Custom1] [Custom2] | <p>Select or customise the equaliser curve. Select a curve that you want to use as the basis of customising then touch the frequency that you want to adjust.</p> <p>TIPS</p> <ul style="list-style-type: none"> • If you touch [Custom1] or [Custom2], the equaliser curve currently stored in [Custom1] or [Custom2] is recalled. • If the equaliser curve stored in [Custom1] or [Custom2] is modified, each stored curve will be overwritten. • If you trail your finger across the bars of multiple equaliser bands, the equaliser curve settings will be set to the value of the touched point on each bar. • If the preset equaliser curve other than [Custom1] or [Custom2] is modified, the curve setting will be overwritten in [Custom1]. |
| [Fader/Balance] | <p>Touch or to adjust the front/rear speaker balance. Set [Front] and [Rear] to [0] when using a dual speaker system. Touch or to adjust the left/right speaker balance.</p> <p>TIP</p> <p>You can also set the value by dragging the point on the displayed table.</p> <p>NOTE</p> <p>Only the balance can be adjusted when [Network Mode] is selected as the speaker mode.</p> |
| [Mute Level] | Select mute or attenuate the AV source volume and iPhone or smartphone application volume when the navigation outputs the guidance voice. |
| [ATT] | The volume becomes 20 dB lower than the current volume. |
| [Mute] | The volume becomes 0. |
| [Off] | The volume does not change. |

| Menu Item | Description |
|---|---|
| [Source Level Adjuster] [-4] to [+4] | <p>Adjust the volume level of each source to prevent radical changes in volume when switching between sources other than FM. Touch or to adjust the source volume after comparing the FM tuner volume level with the level of the source.</p> <p>TIP</p> <p>If you directly touch the area where the cursor can be moved, the SLA (source level adjustment) setting will be changed to the value of the touched point.</p> <p>NOTES</p> <ul style="list-style-type: none"> • Settings are based on the FM tuner volume level, which remains unchanged. • This function is not available when the FM tuner is selected as the AV source. |
| [Subwoofer] [On] [Off] | <p>Select enable or disable rear subwoofer output from this product.</p> <p>NOTE</p> <p>If [Off] is selected, the subwoofer adjustment is not available in [Speaker Level], [Time Alignment] and [Crossover].</p> |
| [Speaker Level] Listening position*1*2 [Off] [Front Left] [Front Right] [Front] [All] | <p>Adjust the speaker output level of the listening position.</p> <ol style="list-style-type: none"> 1 Touch or to select the listening position then select the output speaker. 2 Touch or to adjust the selected speaker output level. |
| Standard Mode*3 [Front Left] [Front Right] [Rear Left] [Rear Right] [Subwoofer] | |
| Network Mode*3 [High Left] [High Right] [Mid Left] [Mid Right] [Subwoofer] | |
| Speaker output level [-24] to [10] | |
| [Crossover] | Select a speaker unit (filter) to adjust the HPF or LPF cutoff frequency and the slope for each speaker unit (page 50). |
| [Subwoofer Settings] | Select the subwoofer phase (page 50). |
| [Listening Position]*1 [Off] [Front Left] [Front Right] [Front] [All] | Select a listening position that you want to make as the centre of sound effects. |

| Menu Item | Description |
|--|---|
| [Time Alignment] [On] [Off] Listening position*1*2 [Off] [Front Left] [Front Right] [Front] [All] Standard Mode*3*4 [Front Left] [Front Right] [Rear Left] [Rear Right] [Subwoofer] Network Mode*3*4 [High Left] [High Right] [Mid Left] [Mid Right] [Subwoofer] Distance [0] to [350] | Select or customise the time alignment settings to reflect the distance between the listener's position and each speaker. You need to measure the distance between the head of the listener and each speaker unit. 1 Touch ◀ or ▶ to select the listening position then select the alignment speaker. 2 Touch ◀ or ▶ to input the distance between the selected speaker and listening position. TIP If you touch [TA On], the time alignment is turned off mandatorily. NOTE This function is available only when the listening position setting is set to [Front Left] or [Front Right]. |
| [Auto EQ] [On] [Off] | Set the auto-adjusted equaliser to suit the vehicle's acoustics. To use this function, the Auto EQ measurement must be done in advance (page 49). |
| [A-EQ&TA Measurement] | Measures and adjusts the vehicles acoustics, equaliser, and time alignment automatically to suit the vehicle interior (page 49). |
| [Save Settings] | Save to recall the following current sound settings by touching [OK]: bass boost, slope, subwoofer phase, speaker level, Graphic EQ, HPF/LPF, listening position, crossover, time alignment. TIP When you touch [Cancel], return to the [Audio] setting screen. |
| [Load Settings] | Load the sound settings. NOTES <ul style="list-style-type: none"> • [Sound Setting] is available only when you have already saved the sound settings (page 48). • [Auto EQ&TA Setting] is available only when you have already performed Auto EQ measurement (page 48). |
| [ASL] | Set to one of five levels to increase the volume level of the audio depending on the driving speed and road conditions. |
| [Bass Boost] [0] to [6] | Adjust the bass boost level. |

| Menu Item | Description |
|--|--|
| [Rear Speaker Output] [Rear] [Subwoofer] | Select the rear speaker output. NOTES <ul style="list-style-type: none"> • This function is available when [Standard Mode] is selected as the speaker mode. • If [Subwoofer] is selected, the rear speaker adjustment is not available in [Speaker Level], [Time Alignment] and [Crossover]. |
| [Loudness] [Off] [Low] [Mid] [High] | Compensates for deficiencies in the low-frequency and high-frequency ranges at low volume. |
| [Automatic Level Control] | Corrects automatically the audio level difference between the music files or the sources. [Off] Turns the auto level control setting off. [Mode1] Corrects a little the audio level difference between the music files or the sources (for the narrow dynamic range audio signal). [Mode2] Corrects widely the audio level difference between the music files or the sources (for the wide dynamic range audio signal). |
| [Sound Retriever] [Off] [Mode1] [Mode2] | Enhances compressed audio and restores rich sound automatically. TIP [Mode2] has a stronger effect than [Mode1]. |

*1 [All] is not available when [Network Mode] is selected as the speaker mode.

*2 If you change the listening position setting, the output levels of all the speakers will change in conjunction with the setting.

*3 To use this function, the vehicle's acoustics must be measured in advance.

*4 This function is available only when the [Listening Position] setting is set to [Front Left] or [Front Right].

Adjusting the equaliser curve automatically (Auto EQ)

By measuring the vehicle's acoustics, the equaliser curve can be adjusted automatically to suit the vehicle interior.

WARNING

A loud tone (noise) may be emitted from the speakers when measuring the vehicle's acoustics. Never perform Auto EQ measurement while driving.

CAUTION

• Thoroughly check the conditions before performing Auto EQ as the speakers may be damaged if this is performed under the following conditions:

- When the speakers are incorrectly connected. (For example, when a rear speaker is connected as a subwoofer output.)
- When a speaker is connected to a power amp delivering output higher than the speaker's maximum input power capability.
- If a microphone for acoustical measurement (sold separately) is not placed in the appropriate location, the measurement tone may become loud and measurement may take a long time, resulting in battery drainage. Be sure to place the microphone in the specified location.

► Before operating the Auto EQ function

- Perform Auto EQ in a quiet place with the vehicle engine and air conditioning switched off. Also, cut the power of car phones or mobile phones in the vehicle, or remove them in advance. Surrounding sounds may prevent correct measurement of the vehicle's acoustics.
- Be sure to use the microphone for acoustical measurement (sold separately). Using other microphones may prevent measurement, or result in incorrect measurement of the vehicle's acoustics.
- To perform Auto EQ, the front speakers must be connected.
- When this product is connected to a power amp with input level control, Auto EQ may be impossible if the power amp's input level is set below the standard level.
- When this product is connected to a power amp with an LPF (low pass filter), turn the LPF off before performing Auto EQ. Also, set the cutoff frequency for the built-in LPF of an active subwoofer to the highest frequency.
- The distance has been calculated by a computer to provide optimum delay to ensure accurate results. Do not change this value.
 - The reflected sound within the vehicle is strong and delay occurs.
 - The LPF on active subwoofers or external amps delay the lower sounds.
- If an error occurs during measurement, check the following before measuring the vehicle's acoustics.
 - Front speakers (left/right)
 - Rear speakers (left/right)
 - Noise
 - Microphone for acoustical measurement (sold separately)
 - Low battery

► Performing Auto EQ

⚠ CAUTION

Do not turn off the engine while the measurement is in progress.

NOTES

- Auto EQ changes the audio settings as follows:
 - The fader/balance settings return to the centre position (page 47).
- Previous settings for Auto EQ will be overwritten.

1 Stop the vehicle in a quiet place, close all doors, windows, and sun roof, and then turn the engine off.

If the engine is left running, engine noise may prevent correct Auto EQ.

NOTE

If driving restrictions are detected during measurement, the measurement is cancelled.

2 Fix the microphone for acoustical measurement (sold separately) in the centre of the headrest of the driver's seat, facing forwards.

The Auto EQ may differ depending on where you place the microphone. If desired, place the microphone on the front passenger seat and perform Auto EQ.

3 Disconnect the iPhone or smartphone device.

4 Turn on the ignition switch (ACC ON).

If the vehicle's air conditioner or heater is turned on, turn it off.

5 Switch the AV source to [Source OFF] (page 16).

6 Press .

7 Touch then .

8 Touch [A-EQ&TA Measurement].

9 Connect the microphone for acoustical measurement (sold separately) with this product.

Plug the microphone into the Auto EQ microphone input jack on this product (page 5).

NOTE

Use an extension cable (sold separately) if the cord of the microphone (sold separately) is not long enough.

10 Touch [Front Left] or [Front Right] to select the current listening position.

11 Touch [Start].

A 10-second countdown starts.

NOTE

The Bluetooth connection is disconnected before the process starts.

12 Exit the vehicle and keep the doors closed until the countdown finishes.

When the countdown finishes, a measurement tone (noise) is emitted from the speakers and Auto EQ measurement begins.

13 Wait until the measurement is completed.

When Auto EQ is completed, a message is displayed.

NOTE

The measurement time varies depending on the type of vehicle.

TIP

To stop the measurement, touch [Stop].

14 Store the microphone carefully in the glove box or another safe place.

If the microphone is subjected to direct sunlight for an extended period, high temperatures may cause distortion, colour change, or malfunction.

Adjusting the cutoff frequency value

You can adjust the cutoff frequency value of each speaker.


The following speakers can be adjusted:

[**Standard Mode**]: Front, Rear, Subwoofer.

[**Network Mode**]: High, Mid, Subwoofer.

NOTES

- Subwoofer settings are available only when [Subwoofer] is [On].
- Rear speaker settings are available only when [Rear Speaker Output] is [Rear].

1 Press .

2 Touch  then .


3 Touch [Crossover] or [Subwoofer Settings].

4 Touch  or  to switch the speaker.

5 Drag the graph line to set the cutoff position.

6 Drag the lowest point of the graph to set the cutoff slope.

The following items can also be set.


| | |
|--|--|
|  | Switches the subwoofer phase between normal and reverse position. |
| LPF/HPF | Switches the LPF/HPF setting to [On] or [Off]. When it is turned off, the high-pass filter or low-pass filter of each speaker can also be turned on by touching the graph lines. |




Video settings

The menu items vary according to the source.

[DVD/DivX Setup]

This setting is available only when [Disc] is selected as the source.

| Menu Item | Description |
|----------------------------------|---|
| [Subtitle Language]*1*2 | Set a subtitle language preference. When you select [Others], a language code input screen is shown. Input the four-digit code of the desired language then touch  . |

| Menu Item | Description |
|--------------------------------------|--|
| [Audio Language]*1*2 | Set an audio language preference. When you select [Others], a language code input screen is shown. Input the four-digit code of the desired language then touch  . |
| [Menu Language]*1*2 | Set a menu language preference. When you select [Others], a language code input screen is shown. Input the four-digit code of the desired language then touch  . |
| [Multi Angle] [On] [Off] | Set to display the angle icon on the screen. |
| [TV Aspect] | Set the aspect ratio suitable for your rear display 16:9 (wide screen display) or 4:3 (regular display). (We recommend use of this function only when you want to fit the aspect ratio to the rear display.) NOTES <ul style="list-style-type: none"> When playing discs that do not have a panscan system, the disc is played back with [Letter Box] even if you select the [Pan Scan] setting. Confirm whether the disc package bears the  mark. The TV aspect ratio cannot be changed for some discs. For details, refer to the disc's instructions. |
| [16:9] | Displays the wide screen image (16:9) as it is (initial setting). |
| [Letter Box] | Makes the image in the shape of a letterbox with black bands on the top and bottom of the screen. |
| [Pan Scan] | Cuts the image short on the right and left sides of the screen. |

| Menu Item | Description |
|--------------------|---|
| [Parental] | <p>Set restrictions so that children cannot watch violent or adult-oriented scenes. You can set the parental lock level in steps as desired.</p> <ol style="list-style-type: none"> 1 Touch [0] to [9] to input a four-digit code number. 2 Touch [OK]. Registers the code number, and you can now set the level. 3 Touch any number between [1] to [8] to select the desired level. The lower the level is set, the tighter the restriction is applied. 4 Touch [OK]. Sets the parental lock level. <p>NOTES</p> <ul style="list-style-type: none"> We recommend keeping a record of your code number in case you forget it. The parental lock level is recorded on the disc. You can confirm it by looking at the disc package, the included booklet, or the disc itself. You cannot use parental lock with discs that do not feature a recorded parental lock level. With some discs, parental lock operates to skip certain scenes only, after which normal playback resumes. For details, refer to the disc's instructions. When you set a parental lock level and then play a disc featuring parental lock, code number input indications may be displayed. In this case, playback will begin when the correct code number is input. |
| [DivX® VOD] | <p>Displays this product's registration and deregistration code to register this product with your DivX VOD content provider to play DivX® VOD (video on demand) content on this product.</p> <p>TIP</p> <p>You can do this by generating a DivX VOD registration code, which you submit to your provider. [Registration Code] is 10-digit. [Deregistration Code] is 8-digit.</p> <p>NOTE</p> <p>Make a note of the code as you will need it when you register or deregister from a DivX VOD provider.</p> |

| Menu Item | Description |
|--------------------------------------|---|
| [DVD Auto Play] [On] [Off] | <p>Set to display the DVD menu automatically and start playback from the first chapter of the first title when a DVD disc with a DVD menu is inserted.</p> <p>NOTE</p> <p>Some DVDs may not operate properly. If this function is not fully operable, turn this function off and start playback.</p> |

- *1 You can switch the language by touching the switch languages key during playback.
*2 The setting made here will not be affected even if the language is switched during playback using the appropriate key.

[Time Per Photo Slide]

| Menu Item | Description |
|---|---|
| [Time Per Photo Slide] [5sec] [10sec] [15sec] [Manual] | Select the interval of image file slideshows on this product. |

[Video Signal Setting]

| Menu Item | Description |
|--|---|
| [AV] [Auto] [PAL] [NTSC] [PAL-M] [PAL-N] [SECAM] | Select the suitable video signal setting when you connect this product to an AV equipment. |
| [AUX] [Auto] [PAL] [NTSC] [PAL-M] [PAL-N] [SECAM] | Select the suitable video signal setting when you connect this product to an AUX equipment. |
| [Camera] [Auto] [PAL] [NTSC] [PAL-M] [PAL-N] [SECAM] | Select the suitable video signal setting when you connect this product to a rear view camera. |

[Video Output Format]

| Menu Item | Description |
|--|--|
| [Video Output Format] [PAL] [NTSC] | Switches the video output format of the rear display between PAL and NTSC. |

Favourite menu

Registering your favourite menu items in shortcuts allows you to quickly jump to the registered menu screen by a simple touch on the [Favorites] screen.

NOTE

Up to 12 menu items can be registered in the favourite menu.

Creating a shortcut

1 Press  then touch .

2 Touch the star icon of the menu item.

The star icon for the selected menu is filled in.

TIP

To cancel the registration, touch the star icon in the menu column again.

Selecting a shortcut

1 Press  then touch .

2 Touch .

3 Touch the menu item.

Removing a shortcut

1 Press  then touch .

2 Touch .

3 Touch and hold the favourite menu column.

The selected menu item is removed from the [Favorites] screen.



TIP

You can also remove a shortcut by touching and holding the registered menu column.

Other functions

Setting the time and date

1 Touch the current time on the screen.

2 Touch  or  to set the correct time and date.

You can operate the following items: Year, month, date, hour, minute.

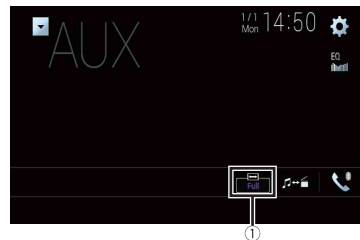
TIPS

- You can change the time display format to [12hour] or [24hour].
- You can change the order of date display format: Day-month, Month-day.

Changing the wide screen mode

You can set the screen mode for AV screen and image files.

1 Touch the screen display mode key.



①

Screen display mode key

2 Touch the desired mode.

| | |
|----------|---|
| [Full] | A 4:3 picture is enlarged in the horizontal direction only, enabling you to enjoy an image without any omissions. |
| [Zoom] | A 4:3 picture is enlarged in the same proportion both vertically and horizontally. |
| [Normal] | A 4:3 picture is displayed normally, without changing its proportion. |

| | |
|------------|---|
| [Trimming] | An image is displayed across the entire screen with the horizontal-to-vertical ratio left as is. If the screen ratio differs from the image, the image may be displayed partly cut off either at the top/bottom or sides. NOTE [Trimming] is for image files only. |
|------------|---|

TIPS

- Different settings can be stored for each video source.
- When a video is viewed in wide screen mode that does not match its original aspect ratio, it may appear different.
- The video image will appear coarser when viewed in [Zoom] mode.

NOTES

- Image files can be set to either [Normal] or [Trimming] in wide screen mode.
- This setting is available only when you stop your vehicle in a safe place and apply the handbrake.

Selecting the video for the rear display

You can choose either to show the same image as the front screen or to show the selected source on the rear display.

NOTES

- Video files on the external storage device are not available as a source for the rear display when [Apple CarPlay] is activated.
- Video files on the external storage device are not available as a source for the rear display when [Android Auto] is activated in [Smartphone Setup].

1 Press  then touch .

2 Touch [Rear].

3 Touch the source you want to show on the rear display.

| | |
|----------|---|
| [Mirror] | The video on the front screen of this product is output to the rear display. NOTE Not all videos or sounds can be output to the rear display. |
| [DVD/CD] | The video and sound of a disc are output to the rear display. NOTE Compatible video types are DVD-V, Video-CD, DivX, MPEG-1, MPEG-2, and MPEG-4 only. |
| [USB1] | The video and sound of the USB storage device is output to the rear display. NOTES <ul style="list-style-type: none"> • The port that supports the rear display will only be USB port 1. • Compatible file types are MPEG-4, H.264, WMV, MKV, and FLV only. |

| | |
|--------------|---|
| [SD] | The video and sound of the SD memory cards are output to the rear display. NOTE Compatible file types are MPEG-4, H.264, WMV, MKV, and FLV only. |
| [AV] | The video and/or sound of the AV input source are output to the rear display. NOTE The video image and sound are output only when [AV Input] is set to [Source] (page 37). |
| [Source OFF] | Nothing is output to the rear display. |




Setting the anti-theft function

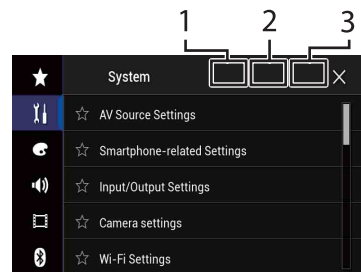
You can set a password for this product. If the back-up lead is cut after the password is set, this product prompts for the password at the time of next boot up.

Important

If you forgot your password, contact the nearest authorised Pioneer Service Station.

Setting the password

- 1** Press .
- 2** Touch  then .
- 3** Touch 1, followed by 2, and then touch 3.



- 4** Touch [Set Password].
- 5** Enter the password.
5 to 16 characters can be entered for a password.
- 6** Touch [Go].
- 7** Enter a password hint.

Up to 40 characters can be entered for a hint.

8 Touch [Go].

If you want to change the password currently set, enter the current password and then enter the new one.

9 Check the password, and then touch [OK].

Deleting the password

The current password and password hint can be deleted.

1 Press .

2 Touch then .

3 Touch 1, followed by 2, and then touch 3 (page 53).

4 Touch [Clear Password].

5 Touch [Yes].

6 Touch [OK].

7 Enter the current password.

8 Touch [Go].

A message indicating that the security setting is cancelled appears.

Restoring this product to the default settings

You can restore settings or recorded content to the default settings from [Restore Settings] in the [System] menu (page 42).


Appendix

Troubleshooting

If you have problems operating this product, refer to this section. The most common problems are listed below, along with likely causes and solutions. If a solution to your problem cannot be found here, contact your dealer or the nearest authorised Pioneer service facility.

Common problems

A black screen is displayed, and operation is not possible using the touch panel keys.

- [Power OFF] mode is on.
 - Press any button on this product to release the mode.
- Press and hold the  to release the rear view camera screen and then change the camera polarity setting to [Battery].

Problems with the AV screen

CD or DVD playback is not possible.

- The disc is inserted upside down.
 - Insert the disc with the label upward.
- The disc is dirty.
 - Clean the disc.
- The disc is cracked or otherwise damaged.
 - Insert a normal, round disc.
- The files on the disc are in an irregular file format.
 - Check the file format.
- The disc format cannot be played back.
 - Replace the disc.

- The loaded disc is a type this product cannot play.
 - Check what type of disc it is.

The screen is covered by a caution message and the video cannot be shown.

- The handbrake lead is not connected or the handbrake is not applied.
 - Connect the handbrake lead correctly, and apply the handbrake.
- The handbrake interlock is activated.
 - Park your vehicle in a safe place and apply the handbrake.

No video output from the connected equipment.


- The [AV Input] or [AUX Input] setting is incorrect.
 - Correct the settings.

The audio or video skips.

- This product is not firmly secured.
 - Secure this product firmly.

No sounds are produced. The volume level will not rise.

- Cables are not connected correctly.
 - Connect the cables correctly.
- The system is performing still, slow motion, or frame-by-frame playback with DVD-Video.
 - There is no sound during still, slow motion, or frame-by-frame playback with DVD-Video.
- The system is paused or performing fast reverse or forwards during the disc playback.
 - For the media other than music CD (CD-DA), there is no sound on fast reverse or forwards.

The icon  is displayed, and operation is impossible.

- The operation is not compatible with the video configuration.
 - The operation is not possible. (For example, the DVD playing does not feature that angle, audio system, subtitle language, etc.)

The picture stops (pauses) and this product cannot be operated.

- The reading of data is impossible during disc playback.
 - Stop playback once, then restart.

The picture is stretched, with an incorrect aspect ratio.

- The aspect setting is incorrect for the display.
 - Select the appropriate setting for that image.

A parental lock message is displayed and DVD playback is not possible.

- The parental lock is on.
 - Turn the parental lock off or change the level.

The parental lock for DVD playback cannot be canceled.

- The code number is incorrect.
 - Input the correct code number.

The DVD video is not played back with the audio/subtitle language specified in [DVD/DivX Setup].

- The DVD does not support the language selected in [DVD/DivX Setup].
 - Playback in the selected language is not possible if the language selected in [DVD/DivX Setup] is not recorded on the disc.

The picture is extremely unclear/distorted and dark during playback.

- The disc features a signal to prohibit copying. (Some discs may have this.)

– Since this product is compatible with the copy guard analogue copy protect system, the picture may suffer from horizontal stripes or other imperfections when a disc with that kind of protection signal is viewed on some displays. This is not a malfunction.

iPod cannot be operated.

- The iPod is frozen.
 - Reconnect the iPod with the USB interface cable for iPod/iPhone.
 - Update the iPod software version.
- An error has occurred.
 - Reconnect the iPod with the USB interface cable for iPod/iPhone.
 - Park your vehicle in a safe place, and then turn off the ignition switch (ACC OFF). Subsequently, turn the ignition switch to on (ACC ON) again.
 - Update the iPod software version.
- Cables are not connected correctly.
 - Connect the cables correctly.

Sound from the iPod cannot be heard.

- The audio output direction may switch automatically when the Bluetooth and USB connections are used at the same time.
 - Use the iPod to change the audio output direction.


Problems with the phone screen

Dialing is impossible because the touch panel keys for dialing are inactive.

- Your phone is out of range for service.
 - Retry after re-entering the range for service.
- The connection between the mobile phone and this product cannot be established.
 - Perform the connection process.

Problems with Application screen

A black screen is displayed.

- While operating an application, the application was ended on the smartphone side.
 - Press  to display the top menu screen.
- The smartphone OS may be awaiting screen operation.
 - Stop the vehicle in a safe place and check the screen on the smartphone.

The screen is displayed, but operation does not work at all.

- An error has occurred.
 - Park your vehicle in a safe place, and then turn off the ignition switch (ACC OFF). Subsequently, turn the ignition switch to on (ACC ON) again.
 - When an Android device is connected, disconnect the Bluetooth connection from this product and then reconnect it.

The smartphone was not charged.

- Charging stopped because the temperature of the smartphone rose due to prolonged use of the smartphone during charging.
 - Disconnect the smartphone from the cable, and wait until the smartphone cools down.
- More battery power was consumed than was gained from charging.
 - This problem may be resolved by stopping any unnecessary services on the smartphone.

The status of the vehicle for the forwards and backwards directions are reversed.

- Since part of the vehicle status is sent to the connected device when you use the Android Auto function, this problem

occurs when the reverse gear polarity setting of this product is incorrect.

- Check the polarity and re-select the correct setting.

Error messages

When problems occur with this product, an error message appears on the display. Refer to the table below to identify the problem, then take the suggested corrective action. If the error persists, record the error message and contact your dealer or your nearest Pioneer service centre.

Common

AMP Error

- This product fails to operate or the speaker connection is incorrect; the protective circuit is activated.
 - Check the speaker connection. If the message fails to disappear even after the engine is switched off/on, contact your dealer or an authorised Pioneer Service Station for assistance.

TEMP

- The temperature of this product is outside the normal operating range.
 - Wait until this product returns to a temperature within the normal operating limits.

Product overheat, For protection the System will shut down automatically in 1 minute. Re-cycle the ignition to restart the product if this message keeps showing, please contact your dealer or local service centre

- The temperature is too high for this product to operate.
 - Follow the instructions displayed on the screen. If this does not solve the

problem, contact your dealer or an authorised Pioneer Station for assistance.

DAB tuner

Check Antenna

- The aerial connection is incorrect or an unusual voltage has been detected.
 - Turn the ignition switch OFF and connect the aerial correctly. After connecting, turn back ON again.

Disc

Error-02-XX/FF-FF

- The disc is dirty.
 - Clean the disc.
- The disc is scratched.
 - Replace the disc.
- The disc is loaded upside down.
 - Check that the disc is loaded correctly.
- There is an electrical or mechanical error.
 - Press the RESET button.

Different Region Disc

- The disc does not have the same region number as this product.
 - Replace the DVD with one bearing the correct region number.

Unplayable Disc

- This type of disc cannot be played on this product.
 - Replace the disc with one that can be played on this product.

Unplayable File

- This type of file cannot be played on this product.
 - Select a file that can be played.

Skipped

- The inserted disc contains DRM protected files.

- The protected files are skipped.

Protect

- All the files on the inserted disc are embedded with DRM.
 - Replace the disc.

This DivX rental has expired.

- The inserted disc contains expired DivX VOD content.
 - Select a file that can be played.

Video resolution not supported

- Files that cannot be played on this product are included in the file.
 - Select a file that can be played.

Unable to write to flash memory

- The playback history for VOD contents cannot be saved for some reason.
 - Retry.
 - If the message appears frequently, consult your dealer.

Your device is not authorized to play this DivX protected video.

- This product's DivX registration code has not been authorised by the DivX VOD contents provider.
 - Register this product to the DivX VOD contents provider.

Video frame rate not supported

- DivX file's frame rate is more than 30 fps.
 - Select a file that can be played.

Audio Format not supported

- This type of file is not supported on this product.
 - Select a file that can be played.

External storage device (USB, SD)

Error-02-9X/-DX

- Communication failed.

- Turn the ignition switch OFF and back ON.
- Disconnect the USB storage device.
- Change to a different source. Then, return to the USB storage device.

Unplayable File

- There is no playable file in the external storage device (USB, SD).
 - Check that the files in the external storage device (USB, SD) are compatible with this product.
- Security for the connected external storage device (USB, SD) is enabled.
 - Follow the external storage device (USB, SD) instructions to disable security.

Skipped

- The connected external storage device (USB, SD) contains DRM protected files.
 - The protected files are skipped.

Protect

- All the files on the connected external storage device (USB, SD) are embedded with DRM.
 - Replace the external storage device (USB, SD).

Incompatible USB

- The connected USB storage device is not supported by this product.
 - Disconnect your device and replace it with a compatible USB storage device.

Incompatible SD

- The SD memory card is not supported by this product.
 - Remove your device and replace it with a compatible SD memory card.
 - Format the SD memory card. It is recommended that you use SD Formatter for formatting SD memory cards.

Check USB

- The USB connector or USB cable has short-circuited.
 - Check that the USB connector or USB cable is not caught in something or damaged.
- The connected USB storage device consumes more than maximum allowable current.
 - Disconnect the USB storage device and do not use it. Turn the ignition switch to OFF, then to ACC or ON and then connect a compliant USB storage device.

HUB Error

- The connected USB hub is not supported by this product.
 - Directly connect the USB storage device to this product.

No Response

- This product cannot recognise the connected USB storage device.
 - Disconnect the device and replace it with another USB storage device.

Video resolution not supported

- Files that cannot be played on this product are included in the file.
 - Select a file that can be played.

USB1 was disconnected for device protection. Do not re-insert this USB memory into the unit. Press reset to restart USB memory. (USB2 was disconnected for device protection. Do not re-insert this USB memory into the unit. Press reset to restart USB memory.)

- The USB connector or USB cable is short-circuited.
 - Check that the USB connector or USB cable is not caught in something or damaged.
- The connected USB storage device consumes more than maximum allowable current.

– Disconnect the USB storage device and do not use it. Turn the ignition switch to OFF, then to ACC or ON and then connect a compliant USB storage device.

→ The USB interface cable for iPod/iPhone is short-circuited.

– Confirm that the USB interface cable for iPod/iPhone or USB cable is not caught in something or damaged.

Audio Format not supported

→ This type of file is not supported on this product.

– Select a file that can be played.

iPod

Error-02-6X/-9X/-DX

→ iPod failure.

– Disconnect the cable from the iPod. Once the iPod's main menu is displayed, reconnect the iPod and reset it.

Error-02-67

→ The iPod firmware version is old.
– Update the iPod version.

Bluetooth

Error-10

→ The power failed for the Bluetooth module of this product.

– Turn the ignition switch to OFF and then to ON.

If the error message is still displayed after performing the above action, please contact your dealer or an authorised Pioneer Service Station.

Apple CarPlay

Attempting to connect to Apple CarPlay.

→ Communication failed and the system is trying to connect.

→ Wait for a while. Then, perform the actions below if the error message is still displayed.

- Restart the iPhone.
- Disconnect the cable from the iPhone, and then connect the iPhone again after a few seconds.
- Turn the ignition switch to OFF and then to ON.

If the error message is still displayed after performing the above action, please contact your dealer or an authorised Pioneer Service Station.

Android Auto

Android Auto has stopped.

→ The connected device is not compatible with Android Auto.

– Check if the device is compatible with Android Auto.

→ The startup of Android Auto failed for some reasons.

- Disconnect the cable from the smartphone, and then connect the smartphone again after a few seconds.
- Restart the smartphone.
- Turn the ignition switch to OFF and then to ON.

If the error message is still displayed after performing the above action, please contact your dealer or an authorised Pioneer Service Station.

→ The time set in this product is not correct.

– Check if the time is correctly set.

Bluetooth pairing failed. Please pair your Android phone manually.

→ The Bluetooth pairing failed for some reasons.

– Pair this product with the device manually.

To use Android Auto, please stop your car and check your Android phone.

→ The default settings are displayed on the screen of the Android Auto compatible device or images are not output from the Android Auto compatible device.

– Park your vehicle in a safe place, and follow the instructions displayed on the screen. If the error message is still displayed after performing on-screen instructions, please reconnect the device.

Handling and care of discs

Some basic precautions are necessary when handling your discs.

Built-in drive and care

- Use only conventional, fully circular discs. Do not use shaped discs.
- Do not use cracked, chipped, warped, or otherwise damaged discs as they may damage the built-in drive.
- Use 12-cm discs. Do not use 8-cm discs or an adapter for 8-cm discs.
- When using discs that can be printed on label surfaces, check the instructions and the warnings of the discs. Depending on the discs, inserting and ejecting may not be possible. Using such discs may result in damage to this equipment.
- Do not attach labels, write on or apply chemicals to the surface of the discs.

- Do not attach commercially available labels or other materials to the discs.
- To clean a disc, wipe it with a soft cloth, moving outward from the centre.
- Condensation may temporarily impair the built-in drive's performance.
- Playback of discs may not be possible because of disc characteristics, disc format, recorded application, playback environment, storage conditions and so on.
- Road shocks may interrupt disc playback.
- Read the precautions for discs before using them.

Ambient conditions for playing a disc

- At extremely high temperatures, a temperature cutout protects this product by switching it off automatically.
- Despite our careful design of the product, small scratches that do not affect actual operation may appear on the disc surface as a result of mechanical wear, ambient conditions for use or handling of the disc. This is not a sign of the malfunction of this product. Consider it to be normal wear and tear.

Playable discs

DVD-Video



- **DVD** is a trademark of DVD Format/Logo Licensing Corporation.

- It is not possible to play DVD Audio discs. This DVD drive may not be able to play all discs bearing the marks shown above.

CD



AVCHD recorded discs

This unit is not compatible with discs recorded in AVCHD (Advanced Video Codec High Definition) format. Do not insert in AVCHD discs. If inserted, the disc may not be ejected.

Playing DualDisc

- DualDiscs are two-sided discs that have a recordable CD for audio on one side and a recordable DVD for video on the other.
- Playback of the DVD side is possible with this product. However, since the CD side of DualDiscs is not physically compatible with the general CD standard, it may not be possible to play the CD side with this product.
- Frequent loading and ejecting of a DualDisc may result in scratches to the disc.
- Serious scratches can lead to playback problems on this product. In some cases, a DualDisc may become stuck in the disc-loading slot and will not eject. To prevent this, we recommend you refrain from using DualDisc with this product.
- Please refer to the manufacturer for more detailed information about DualDiscs.

Dolby Digital

This product will down-mix Dolby Digital signals internally and the sound will be output in stereo.

- Manufactured under license from Dolby Laboratories. Dolby, Dolby Audio and the double-D symbol are trademarks of Dolby Laboratories.



Detailed information for playable media

Compatibility

Common notes about disc compatibility

- Certain functions of this product may not be available for some discs.
- Compatibility with all discs is not guaranteed.
- It is not possible to play DVD-RAM discs.
- Playback of discs may become impossible with direct exposure to sunlight, high temperatures, or depending on the storage conditions in the vehicle.

DVD-Video discs

- DVD-Video discs that have incompatible region numbers cannot be played on this DVD drive. The region number of the player can be found on this product's chassis.

DVD-R/DVD-RW/DVD-R SL (Single Layer)/DVD-R DL (Dual Layer) discs

- Unfinalised discs which have been recorded with the Video format (video mode) cannot be played back.
- Discs which have been recorded with the Video Recording format (VR mode) cannot be played back.

- DVD-R DL (Dual Layer) discs which have been recorded with Layer Jump recording cannot be played back.
- For detailed information about recording mode, please contact the manufacturer of media, recorders, or writing software.

CD-R/CD-RW discs

- Unfinalised discs cannot be played back.
- It may not be possible to playback CD-R/CD-RW discs recorded on a music CD recorder or a computer because of disc characteristics, scratches or dirt on the disc, or dirt, scratches or condensation on the lens of the built-in drive.
- Playback of discs recorded on a computer may not be possible, depending on the recording device, writing software, their settings, and other environmental factors.
- Please record with the correct format. (For details, please contact manufacturer of media, recorders, or writing software.)
- Titles and other text information recorded on a CD-R/CD-RW disc may not be displayed by this product (in the case of audio data (CD-DA)).
- Read the precautions with CD-R/CD-RW discs before using them.

Common notes about the external storage device (USB, SD)

- Do not leave the external storage device (USB, SD) storage device in any location with high temperatures.
- Depending on the kind of the external storage device (USB, SD) storage device you use, this product may not recognise the storage device or files may not be played back properly.
- The text information of some audio and video files may not be correctly displayed.
- File extensions must be used properly.
- There may be a slight delay when starting playback of files on an external storage

device (USB, SD) storage device with complex folder hierarchies.

- Operations may vary depending on the kind of an external storage device (USB, SD) storage device.
- It may not be possible to play some music files from SD or USB because of file characteristics, file format, recorded application, playback environment, storage conditions, and so on.
- Copyright protected files cannot be played back.

SD memory cards

- For details about SD memory card compatibility with this product, refer to Specifications (page 63).
- Some SD memory cards may not be recognised by this unit even if the SD memory cards can be recognised by a computer. Formatting the SD memory cards using a dedicated formatter may resolve the problem. SD memory cards formatted using the standard formatting function on a computer do not comply with the SD standard. Problems such as that those cards cannot be read or written could occur. It is recommended that you use a dedicated formatter to avoid such problems. All of the data stored on an SD memory card will be deleted when the card is formatted. Back up any needed data beforehand as necessary. A dedicated formatter for SD memory cards can be obtained from the following site.
<https://www.sdcard.org/>
- This product is not compatible with the Multi Media Card (MMC).

USB storage device

- For details about USB storage device compatibility with this product, refer to Specifications (page 63).
- Protocol: bulk
- You cannot connect a USB storage device to this product via a USB hub.

- Partitioned USB storage device is not compatible with this product.
- Firmly secure the USB storage device when driving. Do not let the USB storage device fall onto the floor, where it may become jammed under the brake or accelerator.
- There may be a slight delay when starting playback of audio files encoded with image data.
- Some USB storage devices connected to this product may generate noise on the radio.
- Do not connect anything other than the USB storage device.

Common notes about DivX files

- Only DivX files downloaded from DivX partner sites are guaranteed for proper operation. Unauthorised DivX files may not operate properly.
- DRM rental files cannot be operated until playing back is started.
- This product corresponds to a DivX file display of up to 1 590 minutes 43 seconds. Search operations beyond this time limit are prohibited.
- DivX VOD file playback requires supplying the ID code of this product to the DivX VOD provider. Regarding the ID code, refer to Displaying your DivX VOD registration code on page 51.
- For details on the DivX video versions that can be played on this product, refer to Specifications (page 63).
- For more details about DivX, visit the following site: <http://www.divx.com/>

DivX subtitle files

- Srt format subtitle files with the extension ".srt" can be used.
- Only one subtitle file can be used for each DivX file. Multiple subtitle files cannot be associated.
- Subtitle files that are named with the same character string as the DivX file before the extension are associated with

the DivX file. The character strings before the extension must be exactly the same. However, if there is only one DivX file and one subtitle file in a single folder, the files are associated even if the file names are not the same.

- The subtitle file must be stored in the same folder as the DivX file.
- Up to 255 subtitle files may be used. Any more subtitle files will not be recognised.
- Up to 64 characters can be used for the name of the subtitle file, including the extension. If more than 64 characters are used for the file name, the subtitle file may not be recognised.
- The character code for the subtitle file should comply with ISO-8859-1. Using characters other than ISO-8859-1 may cause the characters to be displayed incorrectly.
- The subtitles may not be displayed correctly if the displayed characters in the subtitle file include control code.
- For materials that use a high transfer rate, the subtitles and video may not be completely synchronised.
- If multiple subtitles are programmed to display within a very short time frame, such as 0.1 seconds, the subtitles may not be displayed at the correct time.

Media compatibility chart

General

- Files may not be played back properly depending on the environment in which the file was created or on the contents of the file.
- This product may not play back files, depending on the application used to encode the files.
- This product may not operate correctly, depending on the application used to encode WMA files.
- Depending on the version of Windows Media™ Player used to encode WMA files,

album names and other text information may not be correctly displayed.

- There may be a slight delay when starting playback of audio files encoded with image data.
- This product is not compatible with packet write data transfer.
- This product can recognise up to 32 characters, beginning with the first character, including extension for the file and folder name. Depending on the display area, this product may try to display them with a reduced font size. However, the maximum number of the characters that you can display varies according to the width of each character, and of the display area.
- Folder selection sequence or other operations may be altered, depending on the encoding or writing software.
- Regardless of the length of blank section between the songs of original recording, compressed audio discs play with a short pause between songs.
- Maximum playback time of audio file stored in the disc: 60 h
- Maximum playback time of audio file stored on an external storage device (USB, SD): 7.5 h (450 minutes)
- This product assigns folder numbers. The user cannot assign folder numbers.

CD-R/-RW

| | |
|-----------------|--|
| CODEC FORMAT | MP3, WMA, AAC, DivX, MPEG1, MPEG2, MPEG4 |
| FILE SYSTEM | ISO 9660 level 1, level 2, Romeo Joliet |
| MAX. DIRECTORY | No limit |
| MAX. FOLDER No. | 700 |
| MAX. FILE No. | 999 |

DVD-R/-R SL/-R DL/DVD-RW

| | |
|-----------------|---|
| CODEC FORMAT | MP3, WMA, AAC, MPEG2, MPEG4 |
| FILE SYSTEM | ISO 9660 level 1, level 2, Romeo Joliet |
| MAX. FOLDER No. | 700 |
| MAX. FILE No. | 3 500 |

USB storage device/SD memory card

| | |
|-----------------|--|
| CODEC FORMAT | MP3, WMA, AAC, WAV, FLAC, H.264, MPEG2, MPEG4, WMV, FLV, MKV, JPEG |
| FILE SYSTEM | FAT16/32/NTFS |
| MAX. DIRECTORY | 8 |
| MAX. FOLDER No. | FAT16, FAT32: 65 536 NTFS: No limit |
| MAX. FILE No. | FAT16, FAT32: 65 536 NTFS: No limit |

MP3 compatibility

- Ver. 2.x of ID3 tag is prioritised when both Ver. 1.x and Ver. 2.x exist.
- This product is not compatible with the following: MP3i (MP3 interactive), mp3 PRO, m3u playlist

| | |
|--------------------|--|
| SAMPLING FREQUENCY | 16 kHz to 48 kHz |
| TRANSMISSION RATE | 8 kbps to 320 kbps, VBR |
| ID3 TAG | USB: v1,v1.1,v2.2,v2.3,v2.4 Disc: v1,v1.1,v2.2,v2.3 |

WMA compatibility

- This product is not compatible with the following: Windows Media™ Audio 9 Professional, Lossless, Voice

| | |
|--------------------|--|
| SAMPLING FREQUENCY | USB: 32 kHz to 48 kHz Disc: 8 kHz to 48 kHz |
| TRANSMISSION RATE | USB: 48 kbps to 320 kbps (CBR), VBR Disc: 5 kbps to 320 kbps (CBR), VBR |

WAV compatibility

- The sampling frequency shown in the display may be rounded.
- WAV files on the CD-R/-RW, DVD-R/-RW/-R SL/-R DL cannot be played.

| | |
|--------------------|------------------|
| DECODING FORMAT | LPCM |
| SAMPLING FREQUENCY | 16 kHz to 48 kHz |
| TRANSMISSION RATE | Approx. 1.5 Mbps |

AAC compatibility

- This product plays back AAC files encoded by iTunes.

| | |
|--------------------|--|
| SAMPLING FREQUENCY | 11.025 kHz to 48 kHz |
| TRANSMISSION RATE | USB: 16 kbps to 320 kbps (CBR) Disc: 8 kbps to 320 kbps (CBR) |

FLAC compatibility

- FLAC files on the CD-R/-RW, DVD-R/-RW/-R SL/-R DL cannot be played.

| | |
|--------------------|------------------|
| SAMPLING FREQUENCY | 8 kHz to 192 kHz |
|--------------------|------------------|

DivX compatibility

- This product is not compatible with the following: DivX Ultra format, DivX files

without video data, DivX files encoded with LPCM (Linear PCM) audio codec

- Depending on the file information composition, such as the number of audio streams, there may be a slight delay in the start of playback on discs.
- If a file contains more than 4 GB, playback stops before the end.
- Some special operations may be prohibited because of the composition of DivX files.
- Files with high transfer rates may not be played back correctly. The standard transfer rate is 4 Mbps for CDs and 10.08 Mbps for DVDs.
- DivX files on the external storage device (USB, SD) cannot be played.

CD-R/-RW, DVD-R/-R SL/-R DL/DVD-RW

| | |
|----------------|----------------------|
| EXTENSION | .avi/.divx |
| PROFILE | Home Theater Profile |
| MAX RESOLUTION | 720 x 576 |

Audio and video files compatibility (USB, SD)

- Files may not be able to be played back depending on the bit rate.
- Only USB storage devices can play back VOB files.

.avi

| | |
|------------------------|---------------------------|
| Compatible video codec | MPEG4, H.264, H.263, Xvid |
| Maximum resolution | 1 920 x 1 080 |
| Maximum frame rate | 30 fps |

.mp4

| | |
|------------------------|---------------------|
| Compatible video codec | MPEG4, H.264, H.263 |
| Maximum resolution | 1 920 x 1 080 |
| Maximum frame rate | 30 fps |

.3gp

| | |
|------------------------|---------------------|
| Compatible video codec | MPEG4, H.264, H.263 |
| Maximum resolution | 1 920 x 1 080 |
| Maximum frame rate | 30 fps |

.mkv

| | |
|------------------------|--------------------|
| Compatible video codec | MPEG4, H.264, Xvid |
| Maximum resolution | 1 920 x 1 080 |
| Maximum frame rate | 30 fps |

.mov

| | |
|------------------------|---------------------|
| Compatible video codec | MPEG4, H.264, H.263 |
| Maximum resolution | 1 920 x 1 080 |
| Maximum frame rate | 30 fps |

.flv

| | |
|------------------------|---------------|
| Compatible video codec | H.264 |
| Maximum resolution | 1 920 x 1 080 |
| Maximum frame rate | 30 fps |

.f4v

| | |
|------------------------|---------------|
| Compatible video codec | H.264 |
| Maximum resolution | 1 920 x 1 080 |
| Maximum frame rate | 30 fps |

.asf

| | |
|------------------------|---------------|
| Compatible video codec | WMV/VC-1 |
| Maximum resolution | 1 920 x 1 080 |
| Maximum frame rate | 30 fps |

.wmv

| | |
|------------------------|---------------|
| Compatible video codec | WMV/VC-1 |
| Maximum resolution | 1 920 x 1 080 |
| Maximum frame rate | 30 fps |

.vob

| | |
|------------------------|---------------|
| Compatible video codec | MPEG2, H.264 |
| Maximum resolution | 1 920 x 1 080 |
| Maximum frame rate | 30 fps |

Bluetooth



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Wi-Fi



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SDXC



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

WMA/WMV

Windows Media is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.

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FLAC

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Foundation

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DivX



DivX® Home Theater Certified devices have been tested for high-quality DivX Home Theater video playback (including .avi, .divx). When you see the DivX logo, you know you have the freedom to play your favorite videos.

DivX®, DivX Certified® and associated logos are trademarks of DivX, LLC and are used under license.

This DivX Certified® device has passed rigorous testing to ensure it plays DivX® video.

To play purchased DivX movies, first register your device at vod.divx.com. Find your registration code in the DivX VOD section of your device setup menu.

AAC

AAC is short for Advanced Audio Coding and refers to an audio compression technology standard used with MPEG-2 and MPEG-4. Several applications can be used to encode AAC files, but file formats and extensions differ depending on the application which is used to encode. This unit plays back AAC files encoded by iTunes.

Google™, Google Play, Android

Google, Google Play and Android are trademarks of Google LLC.

Android Auto



Android Auto is a trademark of Google LLC.

Detailed information regarding connected iPod devices

- Pioneer accepts no responsibility for data lost from an iPod, even if that data is lost while using this product. Please back up your iPod data regularly.
- Do not leave the iPod in direct sunlight for extended amounts of time. Extended exposure to direct sunlight can result in iPod malfunction due to the resulting high temperature.
- Do not leave the iPod in any location with high temperatures.
- Firmly secure the iPod when driving. Do not let the iPod fall onto the floor, where it may become jammed under the brake or accelerator.
- For details, refer to the iPod manuals.

iPhone, iPod and Lightning



Use of the Made for Apple badge means that an accessory has been designed to connect specifically to the Apple product(s) identified in the badge, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

Please note that the use of this accessory with an Apple product may affect wireless performance.

iPhone, iPod, iPod nano, iPod touch, and Lightning are trademarks of Apple Inc., registered in the U.S. and other countries.

App Store

App Store is a service mark of Apple Inc.

iOS

iOS is a trademark on which Cisco holds the trademark right in the US and certain other countries.

iTunes

iTunes is a trademark of Apple Inc., registered in the U.S. and other countries.

Apple Music

Apple Music is a trademark of Apple Inc., registered in the U.S. and other countries.

Apple CarPlay



Apple CarPlay is a trademark of Apple Inc. Use of the Works with Apple badge means that an accessory has been designed to work specifically with the technology identified in the badge and has been certified by the developer to meet Apple performance standards.

Siri

Works with Siri through the microphone.

Using app-based connected content

Important

Requirements to access app-based connected content services using this product:

- Latest version of the Pioneer compatible connected content application(s) for the smartphone, available from the service provider, downloaded to your smartphone.
- A current account with the content service provider.
- Smartphone Data Plan.
Note: if the Data Plan for your smartphone does not provide for unlimited data usage, additional charges from your carrier may apply for accessing app-based connected content via 3G, EDGE and/or LTE (4G) networks.
- Connection to the Internet via 3G, EDGE, LTE (4G) or Wi-Fi network.

- Optional Pioneer adapter cable connecting your iPhone to this product.

Limitations:

- Access to app-based connected content will depend on the availability of cellular and/or Wi-Fi network coverage for the purpose of allowing your smartphone to connect to the Internet.
- Service availability may be geographically limited to the region. Consult the connected content service provider for additional information.
- Ability of this product to access connected content is subject to change without notice and could be affected by any of the following: compatibility issues with future firmware versions of smartphone; compatibility issues with future versions of the connected content application(s) for the smartphone; changes to or discontinuation of the connected Content application(s) or service by its provider.
- Pioneer is not liable for any issues that may arise from incorrect or flawed app-based content.
- The content and functionality of the supported applications are the responsibility of the App providers.
- In AppRadio Mode +, Apple CarPlay and Android Auto, functionality through the product is limited while driving, with available functions determined by the App providers.
- Availability of AppRadio Mode +, Apple CarPlay and Android Auto functionalities is determined by the App provider, and not determined by Pioneer.
- AppRadio Mode +, Apple CarPlay and Android Auto allow access to applications other than those listed (subject to limitations while driving), but the extent to which content can be used is determined by the App providers.

HDMI



The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. in the United States and other countries.

Notice regarding video viewing

Remember that use of this system for commercial or public viewing purposes may constitute an infringement on the author's rights as protected by the Copyright Law.

Notice regarding DVD-Video viewing

This item incorporates copy protection technology that is protected by U.S. patents and other intellectual property rights of Rovi Corporation. Reverse engineering and disassembly are prohibited.

Notice regarding MP3 file usage

Supply of this product only conveys a license for private, non-commercial use and does not convey a license nor imply any right to use this product in any commercial (i.e. revenue-generating) real time broadcasting (terrestrial, satellite,

cable and/or any other media), broadcasting/streaming via internet, intranets and/or other networks or in other electronic content distribution systems, such as pay-audio or audio-on-demand applications. An independent license for such use is required. For details, please visit <http://www.mp3licensing.com>.

Notice regarding open source licenses

For details about the open source licenses for the functions that this product is equipped with, please visit <http://www.oss-pioneer.com/car/multimedia/>

Using the LCD screen correctly

Handling the LCD screen

- When the LCD screen is subjected to direct sunlight for a long period of time, it will become very hot, resulting in possible damage to the LCD screen. When not using this product, avoid exposing it to direct sunlight as much as possible.
- The LCD screen should be used within the temperature ranges shown in Specifications (page 63).
- Do not use the LCD screen at temperatures higher or lower than the operating temperature range, because the LCD screen may not operate normally and could be damaged.
- The LCD screen is exposed in order to increase its visibility within the vehicle. Please do not press strongly on it as this may damage it.

- Do not push the LCD screen with excessive force as this may scratch it.
- Never touch the LCD screen with anything besides your finger when operating the touch panel functions. The LCD screen can scratch easily.

Liquid crystal display (LCD) screen

- If the LCD screen is near the vent of an air conditioner, make sure that air from the air conditioner is not blowing on it. Heat from the heater may break the LCD screen, and cool air from the cooler may cause moisture to form inside this product, resulting in possible damage.
- Small black dots or white dots (bright dots) may appear on the LCD screen. These are due to the characteristics of the LCD screen and do not indicate a malfunction.
- The LCD screen will be difficult to see if it is exposed to direct sunlight.
- When using a mobile phone, keep the aerial of the mobile phone away from the LCD screen to prevent disruption of the video in the form of disturbances such as spots or coloured stripes.

Maintaining the LCD screen

- When removing dust from or cleaning the LCD screen, first turn this product off and then wipe the screen with a soft dry cloth.
- When wiping the LCD screen, take care not to scratch the surface. Do not use harsh or abrasive chemical cleaners.

LED (light-emitting diode) backlight

A light emitting diode is used inside the display to illuminate the LCD screen.

- At low temperatures, using the LED backlight may increase image lag and degrade the image quality because of the characteristics of the LCD screen. Image quality will improve with an increase in temperature.
- The product lifetime of the LED backlight is more than 10 000 hours. However, it may decrease if used in high temperatures.
- If the LED backlight reaches the end of its product lifetime, the screen will become dimmer and the image will no longer be visible. In that case, please consult your dealer or the nearest authorised Pioneer Service Station.

Specifications

General

Rated power source:
14.4 V DC (12.0 V to 14.4 V allowable)

Earthing system:
Negative type

Maximum current consumption:
10.0 A

Dimensions (W × H × D):
Chassis DIN:
178 mm × 100 mm × 158 mm

Nose:
188 mm × 118 mm × 25 mm

Chassis D:
178 mm × 100 mm × 165 mm

Nose:
171 mm × 97 mm × 18 mm

Weight:
2.1 kg

Display

Screen size/aspect ratio:
6.94 inch wide/17.2:9 (effective display area: 156.24 mm × 81.6 mm)

Pixels:
1 209 600 (2 520 × 480)

Display method:
TFT Active matrix driving

Colour system:
PAL/NTSC/PAL-M/PAL-N/SECAM compatible

Durable temperature range:
-20 °C to +80 °C (Power off)

Audio

Maximum power output:
• 50 W × 4 ch/4 Ω
• 50 W × 2 ch/4 Ω + 70 W × 1 ch/2 Ω (for subwoofer)

Continuous power output:
22 W × 4 (50 Hz to 15 kHz, 5 %THD, 4 Ω LOAD, Both Channels Driven)

Load impedance:
4 Ω (4 Ω to 8 Ω allowable)

Preout output level (max): 4.0 V

Equaliser (13-Band Graphic Equaliser):
Frequency:
50 Hz/80 Hz/125 Hz/200 Hz/315 Hz/
500 Hz/800 Hz/1.25 kHz/2 kHz/3.15 kHz/5 kHz/8 kHz/12.5 kHz

Gain: ±12 dB

<Standard Mode>

HPF:
Frequency:
25 Hz/31.5 Hz/40 Hz/50 Hz/63 Hz/80 Hz/100 Hz/125 Hz/160 Hz/200 Hz/250 Hz

Slope:
-6 dB/oct, -12 dB/oct, -18 dB/oct, -24 dB/oct, OFF

Subwoofer/LPF:
Frequency:
25 Hz/31.5 Hz/40 Hz/50 Hz/63 Hz/80 Hz/100 Hz/125 Hz/160 Hz/200 Hz/250 Hz

Slope:
-6 dB/oct, -12 dB/oct, -18 dB/oct, -24 dB/oct, -30 dB/oct, OFF

Gain:
+10 dB to -24 dB (1 dB/step)

Phase: Normal/Reverse

Time alignment:
0 to 140 step (2.5 cm/step)

Base boost:
Gain: +12 dB to 0 dB

Speaker level:
+10 dB to -24 dB (1 dB/step)

Gain: +12 dB to 0 dB

Speaker level:
+10 dB to -24 dB (1 dB/step)

<Network Mode>

HPF (High):
Frequency:
1.25 kHz/1.6 kHz/2 kHz/2.5 kHz/3.15 kHz/4 kHz/5 kHz/6.3 kHz/8 kHz/10 kHz/12.5 kHz

Slope:
-6 dB/oct, -12 dB/oct, -18 dB/oct, -24 dB/oct

HPF (Mid):
Frequency:
25 Hz/31.5 Hz/40 Hz/50 Hz/63 Hz/80 Hz/100 Hz/125 Hz/160 Hz/200 Hz/250 Hz

Slope:
-6 dB/oct, -12 dB/oct, -18 dB/oct, -24 dB/oct, OFF

LPF (Mid):
Frequency:
1.25 kHz/1.6 kHz/2 kHz/2.5 kHz/3.15 kHz/4 kHz/5 kHz/6.3 kHz/8 kHz/10 kHz/12.5 kHz

Slope:
-6 dB/oct, -12 dB/oct, -18 dB/oct, -24 dB/oct, OFF

Subwoofer:
Frequency:
25 Hz/31.5 Hz/40 Hz/50 Hz/63 Hz/80 Hz/100 Hz/125 Hz/160 Hz/200 Hz/250 Hz

Slope:
-6 dB/oct, -12 dB/oct, -18 dB/oct, -24 dB/oct, -30 dB/oct, OFF

Gain:
+10 dB to -24 dB (1 dB/step)

Phase: Normal/Reverse

Time alignment:
0 to 140 step (2.5 cm/step)

Base boost:
Gain: +12 dB to 0 dB

Speaker level:
+10 dB to -24 dB (1 dB/step)

DVD drive

System:
DVD-V, VCD, CD, MP3, WMA, AAC, DivX,
MPEG player
Usable discs:
DVD-VIDEO, VIDEO-CD, CD, CD-R, CD-
RW, DVD-R, DVD-RW, DVD-R DL
Region number: 2
Signal Format:
Frequency response:
5 Hz to 44 000 Hz (with DVD, at sampling
frequency 96 kHz)
Signal-to-noise ratio:
96 dB (1 kHz) (IEC-A network) (RCA level)
Output level:
Video:
1.0 V p-p/75 Ω (±0.2 V)
Number of channels: 2 (stereo)
MP3 decoding format:
MPEG-1 & 2 & 2.5 Audio Layer 3
WMA decoding format:
Ver. 7, 8, 9 (2 ch audio) (Windows
Media Player)
AAC decoding format:
MPEG-4 AAC (iTunes encoded only):
.m4a (Ver. 11 and earlier)
DivX decoding format:
Home Theater Ver. 3.11, 4.x, 5.x, 6.x:
.avi, divx
MPEG video decoding format:
MPEG1:
.mpeg, .mpe, .dat
MPEG-2 PS:
.mpg, .mpeg
MPEG4 part 2 (visual), MS-MPEG4 Ver.
3:
.avi

USB

USB standard spec:
USB 1.1, USB 2.0 high speed
Max current supply: 1.6 A
USB Class:
MSC (Mass Storage Class), iPod (Audio
Class, HID Class)
File system: FAT16, FAT32, NTFS

<USB audio>
MP3 decoding format:
MPEG-1/Layer-1, MPEG-1/Layer-2, MPEG-
1/Layer-3
MPEG-2/Layer-1, MPEG-2/Layer-2, MPEG-
2/Layer-3
MPEG-2.5/Layer-3
WMA decoding format:
WMA 10 Std, WMA 10 Pro, WMA 9
Lossless
AAC decoding format:
MPEG-2 AAC-LC, MPEG-4 AAC-LC
FLAC signal format:
Ver. 1.3.0
WAV signal format:
Linear PCM

<USB image>
JPEG decoding format:
JPEG

<USB video>
H.264 video decoding format:
Base Line Profile, Main Profile, High
Profile
WMV video decoding format:
VC-1 SP/MP/AP, WMV 7/8
MPEG4 video decoding format:
Simple Profile, Advanced Simple Profile
(except GMC)

SD

Compatible physical format:
Version 2.0
File system: FAT16, FAT32, NTFS

<SD audio>
MP3 decoding format:
MPEG-1/Layer 1, MPEG-1/Layer 2, MPEG-
1/Layer 3,
MPEG-2/Layer 1, MPEG-2/Layer 2, MPEG-
2/Layer 3,
MPEG-2.5/Layer 3

WMA decoding format:
WMA 10 Std, WMA 10 Pro, WMA 9
Lossless
AAC decoding format:
MPEG-2 AAC-LC, MPEG-4 AAC-LC
WAV signal format:
Linear PCM
FLAC signal format:
Ver. 1.3.0

<SD image>
JPEG decoding format:
JPEG

<SD video>
H.264 video decoding format:
Base Line Profile, Main Profile, High
Profile
WMV video decoding format:
VC-1 SP/MP/AP, WMV 7/8
MPEG4 video decoding format:
Simple Profile, Advanced Simple Profile
(except GMC)

Bluetooth

Version:
Bluetooth 4.1
Output power:
+4 dBm Max. (Power class 2)
Frequency band:
2 400 MHz to 2 483.5 MHz

FM tuner

Frequency range:
87.5 MHz to 108 MHz
Usable sensitivity:
11 dBf (0.8 μV/75 Ω, mono, S/N: 30 dB)
Signal-to-noise ratio:
72 dB (IEC-A network)

MW tuner

Frequency range:
531 kHz to 1 602 kHz (9 kHz)
Usable sensitivity:
28 μV (S/N: 20 dB)
Signal-to-noise ratio:
62 dB (IEC-A network)

LW tuner

Frequency range:
153 kHz to 281 kHz
Usable sensitivity:
30 μV (S/N: 20 dB)
Signal-to-noise ratio:
62 dB (IEC-A network)

DAB tuner

Frequency range (Band III):
174.928 MHz to 239.200 MHz (5A to 13F)
Frequency range (L Band):
1 452.960 MHz to 1 490.624 MHz (LA to
LW)
Usable sensitivity:
-100 dBm
Signal-to-noise ratio: 85 dB

Wi-Fi

Frequency channel:
1, 6, 11 ch (2.4 GHz)
149, 151, 155 ch (5 GHz)
Security:
WPA 2 (personal)
Output power:
+16 dBm Max (2.4 GHz)
+13 dBm Max (5 GHz)

GPS

GNSS receiver
System:
GPS L1C/A, SBAS L1C/A, GLONASS
L1OF SPS (Standard Positioning
Service)
Reception system:
72 channel Multi-channel reception
system
Reception frequency:
1 575.42 MHz/1 602 MHz
Sensitivity:
-140 dBm (typ)
Frequency:
Approx. once per second
GPS aerial

Aerial:
Micro strip flat aerial/right-handed
helical polarization
Aerial cable:
3.55 m
Dimensions (W × H × D):
33 mm × 14.7 mm × 36 mm
Weight:
73.7 g

NOTE

Specifications and design are subject to possible modifications without notice due to improvements.

<http://www.pioneer-car.eu>

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

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