

Pioneer

AVH-X8800BT
DVD RDS AV RECEIVER

English

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 screens 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 of laser products, 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.

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 or reading the display, park your vehicle in a safe location and apply the handbrake before making the necessary adjustments.
- Never set the volume of this product so high that you cannot hear outside traffic and emergency vehicles.
- To promote safety, certain functions are disabled unless the vehicle is stopped and/or 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.

⚠CAUTION

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

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, and apply the handbrake. Please keep the brake pedal pushed down before releasing the handbrake.

⚠WARNING

- **LIGHT GREEN LEAD AT POWER CONNECTOR IS DESIGNED TO DETECT PARKED STATUS AND MUST BE CONNECTED TO THE POWER SUPPLY SIDE OF THE PARKING BRAKE 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

Precaution

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

- 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.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

Before removing the vehicle battery

If the battery is disconnected or discharged, the memory will be erased and must be reprogrammed.

- Some of the settings and recorded contents will not be reset.

Data subject to erasure

The information is 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.

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.
- If your vehicle position is shown on the map with a significant positioning error.

1 Turn the ignition switch OFF.

2 Press the **RESET** button with a pen tip or other pointed implement.

☞ Refer to *Checking part names and functions* on page 6
Settings and recorded contents are reset to the factory settings.

About this manual

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

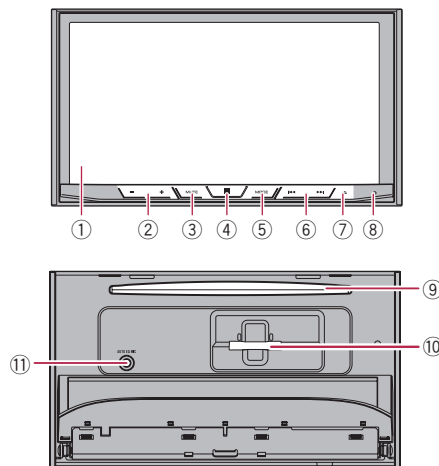
Precaution

Meanings of Symbols Used in This Manual

	This indicates to touch an appropriate soft key on the touch screen.
	This indicates to touch and hold an appropriate soft key on the touch screen.
	This indicates that there is a reference or supplementary for the key or screen.

Basic operation

Checking part names and functions



1	LCD screen
2	VOL (+/-) button
3	MUTE button
4	button Press to display the top menu screen. Press and hold to activate the voice recognition function. ➡ Refer to <i>Using the voice recognition function</i> on page 14
5	MODE button Press to switch between the Application screen and the AV operation screen. Press and hold to switch to the camera view mode. Press to turn the display off. <input type="checkbox"/> Press and hold to turn the display off when the Application screen is available. <input type="checkbox"/> When the display is turned off, touch the screen to revert to the original screen.

6	TRK () button Press to return to the previous track (chapter) or go to the next track (chapter). Press and hold to perform fast reverse or fast forwards. Press to answer or end a call.
7	button
8	RESET button ➡ Refer to <i>Resetting the microprocessor</i> on page 5
9	Disc-loading slot ➡ Refer to <i>Inserting and ejecting a disc</i> on page 7
10	SD card slot ➡ Refer to <i>Inserting and ejecting an SD memory card</i> on page 8
11	Auto EQ microphone input jack Use to connect a microphone for acoustical measurement (sold separately).

- The remote control CD-R33 (sold separately) is available.
- ➡ For details, refer to the remote control manual.

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

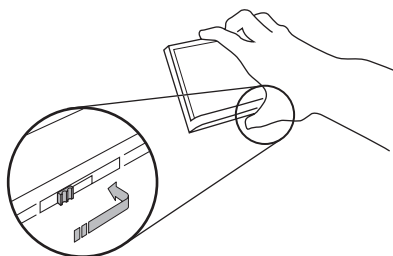
- Handle the front panel with care when removing or attaching it.
- Avoid subjecting the front panel to excessive shock.
- Keep the front panel out of direct sunlight and high temperatures.

Basic operation

- If removed, replace the front panel on the product before starting up your vehicle.

Removing the front panel

- 1 Press the **▲** button.
- 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.

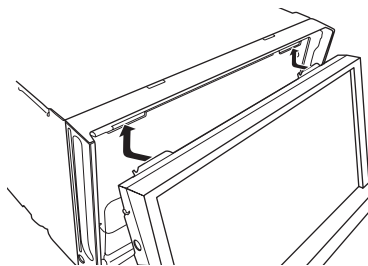


- 4 Put the front panel into the provided protective case for safe keeping.

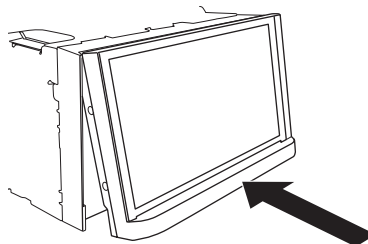
Attaching the front panel

- 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.



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 by force. 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 a glass or can on the open LCD panel.

Adjusting the LCD panel angle

- 1 Press the **▲** button.
- 2 Touch  or  to adjust the angle of the LCD panel.

- 3 Touch .

Returns to the previous screen.


Inserting/ejecting/connecting media

▲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 the **▲** button when an SD memory card is not fully inserted. Doing so may damage the card.
- Do not press the **▲** button before an SD memory card has been completely removed. Doing so may damage the card.

Inserting and ejecting a disc

Inserting a disc

- 1 Press the **▲** button.
- 2 Touch  to open the LCD panel.
- 3 Insert a disc into the disc-loading slot.

Ejecting a disc

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

Basic operation

Inserting and ejecting an SD memory card

- ❑ 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.

Inserting an SD memory card

- 1 Press the **▲** button.
- 2 Touch **[□△]** to open the LCD panel.
- 3 Insert an SD memory card into the SD card slot.
- 4 Press the **▲** button.

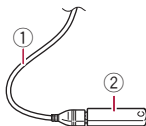
Ejecting an SD memory card

- 1 Press the **▲** button.
- 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 the **▲** button.

Plugging and unplugging a USB storage device

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



- 2 USB storage device
- ❑ Check that no data is being accessed before pulling out the USB storage device.

On first-time startup

1 Start the engine to boot up the system.

The "Select Program Language" screen appears.

- ❑ 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 "Smartphone Setup" screen appears.

4 Touch the item.

- ☞ Refer to *Information on the connections and functions for each device* on page 16

5 Touch **[→]**.

The warning message screen appears.

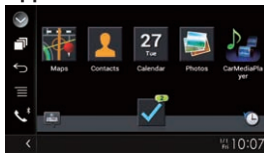
6 Touch **[OK]**.

The top menu screen appears.

Basic operation

How to use the screens

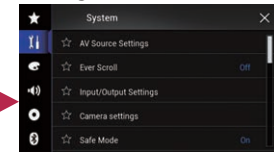
Application menu screen



Time and date setting screen



Setting menu screen



Application operation screen

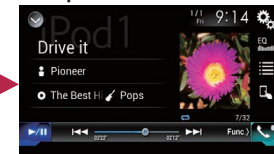


Top menu screen

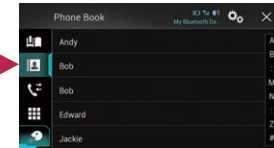


Favorite source icons

AV operation screen



Phone menu screen



AV source selection screen



Basic operation

- ❑ By pressing the **≡** button on any screen you can display the top menu screen.
- ❑ The character string "APPS" is replaced with "Apple CarPlay" when Apple CarPlay is running.
- ❑ The character string "APPS" is replaced with "Android Auto" when Android Auto is running.
- ❑ If you select "Power OFF" on the AV source selection screen, you can turn off almost all functions. The "Power OFF" mode is released in the following cases:
 - An incoming call is received.
 - The rear view camera image is input when the vehicle reverses.
 - A button on this product is pressed.
 - The ignition switch is turned off (ACC OFF), then turned on (ACC ON).
- ❑ To protect this product from damage, the cooling fan may operate in "Power OFF" mode.

Supported AV source

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

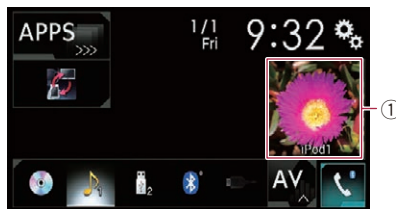
- Radio (FM, MW/LW)
- CD
- ROM (compressed audio or video files on discs)
- DVD-Video
- Video-CD

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

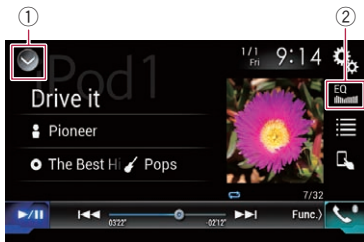
- USB
- SD
- iPod
- Bluetooth® audio
- AV input (AV)
- AUX
- HDMI

Displaying the AV operation screen

- 1 Press the **≡** button.
- 2 Touch the AV operation key.



- 1 **AV operation key**
The AV operation screen appears.



- 1 **Displays the source list.**
- 2 **Recalls equalizer curves.**
 - ➔ Refer to *Using the equaliser* on page 42

Selecting a source

Source on the AV source selection screen

- 1 Display the AV source selection screen.



- 2 **Touch the source icon.**
 - ❑ When you select "Source OFF", the AV source is turned off.

Source on the source list

- 1 **Display the source list.**
 - ➔ Refer to *Displaying the AV operation screen* on page 10
- 2 **Touch the source key.**
 - ❑ When you select "Source OFF", the AV source is turned off.

Changing the display order of sources


Changing the display order of source icons

- 1 Display the AV source selection screen.



- 2 **Touch and hold a source icon, and drag the icon to the desired position.**

Changing the display order of source keys



- 1 **Display the source list.**
 - ➔ Refer to *Displaying the AV operation screen* on page 10
- 2 **Touch .**
- 3 **Drag the source key to the desired position.**

Using the touch panel

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

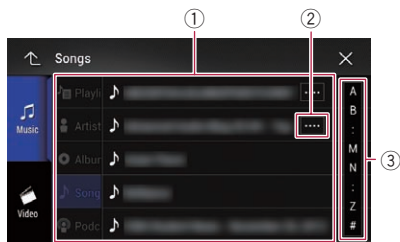
- ❑ To protect the LCD screen from damage, be sure to touch the screen only with your finger gently.

Common touch panel keys

-  Returns to the previous screen.
-  Closes the screen.

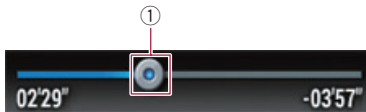
Basic operation

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 rest are scrolled for display.
- 3 Appears when items cannot be displayed on a single page.
Drag the slider bar or the list to view any hidden items.

Operating the time bar



- 1 You can change the playback point by dragging the key.
 - ❑ Playback time corresponding to the position of the key is displayed while dragging the key.
 - ❑ This function is not available for some media or sources.

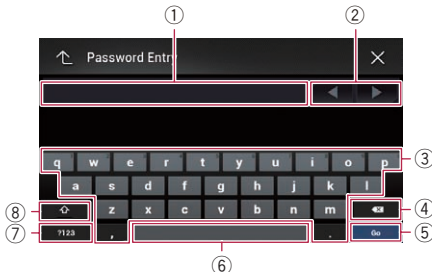
Switching the operation panel

1 Touch [Func.].

The hidden function keys appears.

- ❑ 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.

Bluetooth® connection

Displaying the "Bluetooth" screen

- 1 Press the **[Bluetooth]** button.
- 2 Touch **[Bluetooth]**, and then **[On]**.

Registering your Bluetooth devices

- 1 **Activate the Bluetooth wireless technology on your devices.**
- 2 **Display the "Bluetooth" screen.**
- 3 Refer to *Displaying the "Bluetooth" screen* on page 11
- 3 **Touch [Connection].**
- 4 **Touch [Q].**

The system searches for Bluetooth devices waiting for a connection and displays them in the list if a device is found.

5 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.

- ❑ If three devices are already paired, "Memory Full" is displayed. Delete a paired device first.
 - ➔ Refer to *Deleting a registered device* on page 12
- ❑ 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".)
 - ➔ Refer to *Entering the PIN code for Bluetooth wireless connection* on page 12
- ❑ The Bluetooth connection can be also made by detecting this product from the Bluetooth device. Before registration, make sure that "Visibility" in the "Bluetooth" menu is set to "On". For details on a Bluetooth device operations, refer to the operating instructions supplied with the Bluetooth device.
 - ➔ Refer to *Switching visibility* on page 12

Bluetooth® connection

Setting Bluetooth device auto connection

This function connects the last connected Bluetooth device to this product with the Hands-Free Profile automatically as soon as the devices is less than a few metres apart. The default setting is "On".

1 Display the "Bluetooth" screen.

☞ Refer to *Displaying the "Bluetooth" screen* on page 11

2 Touch [Auto Connect] to switch "On" or "Off".

Deleting a registered device

⚠ CAUTION

Never turn this product off while the paired Bluetooth device is being deleted.

1 Display the "Bluetooth" screen.

☞ Refer to *Displaying the "Bluetooth" screen* on page 11

2 Touch [Connection].

3 Touch .

4 Touch [Yes].

Connecting a registered Bluetooth device manually

Connect the Bluetooth device manually in the following cases:

- 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.

1 Activate the Bluetooth wireless technology on your devices.

2 Display the "Bluetooth" screen.

☞ Refer to *Displaying the "Bluetooth" screen* on page 11

3 Touch [Connection].

4 Touch the name of the device.

☐ To disconnect the device, touch the name of the connected device in the list.

Switching visibility

This function sets whether or not to make this product visible to the other device.

The default setting is "On".

1 Display the "Bluetooth" screen.

☞ Refer to *Displaying the "Bluetooth" screen* on page 11

2 Touch [Visibility] to switch "On" or "Off".

Entering the PIN code for Bluetooth wireless connection

To connect your Bluetooth device to this product, you need to enter a PIN code.

The default PIN code is "0000".

1 Display the "Bluetooth" screen.

☞ Refer to *Displaying the "Bluetooth" screen* on page 11

2 Touch [PIN Code Input].

3 Touch [0] to [9] to input the pin code (up to 8 digits).

4 Touch .

Displaying the device information

1 Display the "Bluetooth" screen.

☞ Refer to *Displaying the "Bluetooth" screen* on page 11

2 Touch [Device Information].

The device name and address of the Bluetooth device on this product are displayed.

Clearing the Bluetooth memory

⚠ CAUTION

Never turn this product off while the Bluetooth memory is being cleared.

1 Display the "Bluetooth" screen.

☞ Refer to *Displaying the "Bluetooth" screen* on page 11

2 Touch [Bluetooth Memory Clear].

3 Touch [Clear].

4 Touch [OK].

Updating Bluetooth software

This function is used to update this product with the latest Bluetooth software. For details on Bluetooth software and updating, refer to our website.

- ☐ This setting is available only when you stop your vehicle in a safe place and apply the handbrake.
- ☐ The source is turned off and the Bluetooth connection is disconnected before the process starts.
- ☐ You need to store the version update file to the USB storage device in advance.

⚠ CAUTION

Never turn this product off and never disconnect the phone while the software is being updated.

1 Connect the USB storage device stored the version update file to this product.

☞ Refer to *Plugging and unplugging a USB storage device* on page 8

2 Display the "Bluetooth" screen.

☞ Refer to *Displaying the "Bluetooth" screen* on page 11

3 Touch [BT Software Update].

4 Touch [Start].

Follow the on-screen instructions to finish updating the Bluetooth software.

Displaying the Bluetooth software version

If this product fails to operate properly, you may need to consult your dealer for repair.

In such cases, perform the following procedure to check the software version on this product.

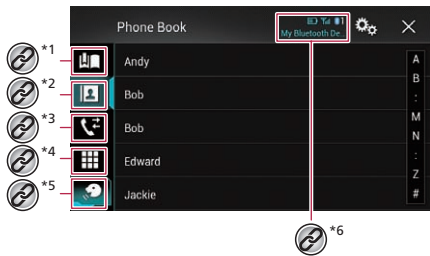
1 Display the "Bluetooth" screen.

☞ Refer to *Displaying the "Bluetooth" screen* on page 11

2 Touch [Bluetooth Version Information].

The version of this product's Bluetooth module appears.

Hands-free phoning



- *1 Switches to the preset dial screen.
➤ Refer to *Using the preset dial lists* on page 13
- *2 Switches to the phone book list.
➤ Refer to *Calling a number in the phone book* on page 13
- *3 Switches to the missed, received and dialled call lists.
➤ Refer to *Dialling from the history* on page 13
- *4 Switches the mode to enter the phone number directly.
➤ Refer to *Direct dialling* on page 13
- *5 Switches to the voice recognition function.
➤ Refer to *Using the voice recognition function* on page 14
- *6 The following items are displayed.
 - Name of the current mobile phone
 - List number of the current mobile phone
 - Indicates that a Bluetooth telephone is connected.
 - Reception status of the current mobile phone
 - Battery status of the current mobile phone

To use this function you need to connect your cellular phone to this product via Bluetooth in advance.

- Refer to *Bluetooth® connection* on page 11
- ❑ When the system language is set to Russian, **ABC** appears. If you want to change the character, touch the key repeatedly until the desired character appears.

⚠ CAUTION

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

Displaying the phone menu screen

- 1 Press the **☰** button.
- 2 Touch **☎**.

Making a phone call

You can make a phone call in many different ways.

- ❑ To end the call, touch **☎**.

Direct dialling

- 1 **Display the phone menu screen.**
➤ Refer to *Displaying the phone menu screen* on page 13
- 2 Touch **☰**.
- 3 Touch the number keys to enter the phone number.
- 4 Touch **☎** to make a call.
The dial screen appears and dialling starts.

Calling a number in the phone book

- ❑ The contacts on your phone will be automatically transferred to this product when the phone is connected.

- 1 **Display the phone menu screen.**
➤ Refer to *Displaying the phone menu screen* on page 13
- 2 Touch **☰**.
- 3 Touch the desired name on the list.
- 4 Touch the phone number.
The dial screen appears and dialling starts.

Dialling from the history

- 1 **Display the phone menu screen.**
➤ Refer to *Displaying the phone menu screen* on page 13
- 2 Touch **☎**.
- 3 Touch the item to switch the history list.
The following items are available:
 - **☎**: Received call list
 - **☎**: Dialled call list
 - **☎**: Missed call list

- 4 Touch the desired entry on the list to make a call.

The dial screen appears and dialling starts.

Using the preset dial lists

Registering a phone number

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

- 1 **Display the phone menu screen.**
➤ Refer to *Displaying the phone menu screen* on page 13
- 2 Touch **☎** or **☎**.
❑ On the "Phone Book" screen, touch the desired name to display the contact's phone number.
- 3 Touch **☎**.

Dialling from the preset dial list

- 1 **Display the phone menu screen.**
➤ Refer to *Displaying the phone menu screen* on page 13
- 2 Touch **☎**.
- 3 Touch the desired entry on the list to make a call.
The dial screen appears and dialling starts.

Deleting a phone number

- 1 **Display the phone menu screen.**
➤ Refer to *Displaying the phone menu screen* on page 13
- 2 Touch **☎**.
- 3 Touch **☎**.
- 4 Touch **[Yes]**.

Receiving a phone call


- ❑ To end the call, touch **☎**.
- 1 Touch **☎** to answer the call.
 - If you touch **☎** while getting a call waiting, you can switch to the talking person.
 - Touch **☎** to reject the call.

Hands-free phoning

Minimising the dial confirmation screen

- 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.

1 Touch .

- Touch  to display the dial confirmation screen again.

Changing the phone settings

Setting auto answering

You can select whether or not to answer a call automatically. The default setting is "Off".

1 Display the "Bluetooth" screen.

➔ Refer to *Displaying the "Bluetooth" screen* on page 11

2 Touch [Auto Answer] to switch "On" or "Off".

Switching the ring tone

You can select whether or not to use this product's ring tone. The default setting is "On".

1 Display the "Bluetooth" screen.

➔ Refer to *Displaying the "Bluetooth" screen* on page 11

2 Touch [Ring Tone] to switch "On" or "Off".

Inverting names in the phone book

You can use this function to change the order of the first and last names in the phone book.

1 Display the "Bluetooth" screen.

➔ Refer to *Displaying the "Bluetooth" screen* on page 11

2 Touch [Invert Name].

3 Touch [Yes].

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.

- Settings can be stored for each device.

1 Touch to switch between the three volume levels.

Using the voice recognition function

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


- 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.
➔ Refer to *Using Android Auto* on page 31

1 Display the phone menu screen.

➔ Refer to *Displaying the phone menu screen* on page 13

2 Touch .

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

- You can also launch the voice recognition function by pressing and holding the  button.

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. However, the actual transmission distance may be shorter than the estimated distance, depending on the usage environment.
- 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 the 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 800 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.

Setup for iPod / iPhone or smartphone

When using an iPod / iPhone or a smartphone with this product, configure the settings of this product according to the device to be connected.

This section describes the settings required for each device.

The basic flow of iPod / iPhone or smartphone setup

- ① Select the method for connecting your device.
➔ Refer to *Setting the device connection method* on page 15
- ② Connect your device to this product.
➔ Refer to the Installation Manual.
- ③ If necessary, connect your device to this product via Bluetooth connection.
➔ Refer to *Bluetooth® connection* on page 11

Setting the device connection method

To use the iPhone or smartphone on this product, select the method for connecting your device.

Settings are required according to the connected device.

1 Display the “System” setting screen.



2 Touch [Input/Output Settings].

3 Touch [Smartphone Setup].

4 Configure the following settings.

- **Device:** Select the device to be connected.
- **Connection :** Select the connection method.
➔ Refer to *Information on the connections and functions for each device* on page 16
- The setting will change after the following processes are automatically executed.
 - The source is turned off.
 - **AppRadio Mode** is exited.
 - The smartphone connection (USB and Bluetooth) is disconnected.
- The setting may not be operable right after it is changed.

iPod / iPhone compatibility

This product supports only the following iPod / iPhone models and iPod / iPhone software versions. Others may not work correctly.

- iPhone 4, 4s, 5, 5c, 5s, 6, 6 Plus: iOS 7.0 or later.
- iPhone 3GS: iOS 6.0.1
- iPod touch (4th, 5th generation): iOS 6.0.1
- iPod touch (3rd generation): iOS 5.1.1
- iPod touch (2nd generation): iOS 4.2.1
- iPod classic 160GB (2009): Ver. 2.0.4
- iPod classic 160GB (2008): Ver. 2.0.1
- iPod classic 80GB: Ver. 1.1.2
- iPod nano (7th generation)
- iPod nano (6th generation): Ver. 1.2
- iPod nano (5th generation): Ver. 1.0.2
- iPod nano (4th generation): Ver. 1.0.4
- iPod nano (3rd generation): Ver. 1.1.3
- You can connect and control an iPod / iPhone compatible with this product by using separately sold connector cables.
- Operation methods may vary depending on the iPod / iPhone model and the software version.
- Depending on the software version of the iPod / iPhone, it may not be compatible with this product.
- ➔ For details about iPod / iPhone compatibility with this product, refer to the information on our website.

This manual applies to the following iPod / iPhone models.

iPod / iPhone with a 30-pin connector

- iPhone 3GS, 4, 4s
- iPod touch 2nd, 3rd, 4th generation
- iPod classic 80GB, 160GB
- iPod nano 3rd, 4th, 5th, 6th generation

iPod / iPhone with a Lightning connector

- iPhone 6, 6 Plus
- iPhone 5, 5c, 5s
- iPod touch 5th generation
- iPod nano 7th generation

Android™ device compatibility

- Operation methods may vary depending on the Android device and the software version of the Android OS.
- Depending on the version of the Android OS, it may not be compatible with this product.
- Compatibility with all Android devices is not guaranteed.
- ➔ For details about Android device compatibility with this product, refer to the information on our website.

Setup for iPod / iPhone or smartphone

Information on the connections and functions for each device

The settings and cables required for connecting each device, and the available sources are as follows.

iPod / iPhone with a 30-pin connector				
Device connection method		When connecting via Bluetooth	When connecting via CD-IU201V (sold separately)	When connecting via CD-IU201S (sold separately)
Smartphone Setup	Device	iPhone/iPod	iPhone/iPod	iPhone/iPod
	Connection	Bluetooth	USB1	USB1
Bluetooth connection		Bluetooth connection is required.	—	—
Connection requirement		—	—	Connect to USB port 1 for using AppRadio Mode .
Available sources	iPod (audio)	—	✓	✓
	iPod (video)	—	✓	✓
	AppRadio Mode	—	—	✓

iPod / iPhone with a Lightning connector				
Device connection method		When connecting via Bluetooth	When connecting via CD-IU52 (sold separately)	When connecting via the following cables: CD-IH202 (sold separately) CD-IU52 (sold separately) Lightning Digital AV Adapter (sold separately)
Smartphone Setup	Device	iPhone/iPod	iPhone/iPod	iPhone/iPod
	Connection	Bluetooth	USB1	Digital AV adapter
	Apple CarPlay	—	On (*2)/Off	—
Bluetooth connection		Bluetooth connection is required.	—	Bluetooth connection is required.
Connection requirement		—	Connect to USB port 1 for using Apple CarPlay .	—
Available sources	iPod (audio)	—	✓	— (*1)
	iPod (video)	—	—	— (*1)
	AppRadio Mode	—	—	✓
	Apple CarPlay	—	✓ (*3)	—

(*1) Use AppRadio Mode to play music or videos on an iPod / iPhone. For using **AppRadio Mode**, install the **CarMediaPlayer** app on your iPod / iPhone.

☞ For details about the **CarMediaPlayer**, refer to the information on our website.

☞ Refer to the **CarMediaPlayer** manual for more information.

(*2) Select "On" for "Apple CarPlay" for using Apple CarPlay.


(*3) Available only when an **Apple CarPlay**-compatible device is connected.

Setup for iPod / iPhone or smartphone

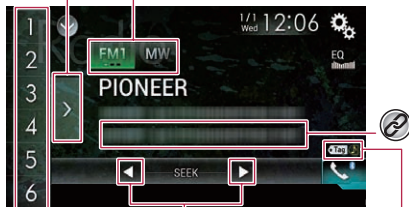
Android device

Device connection method		When connecting via Bluetooth	When connecting via CD-MU200 (sold separately)	When connecting via CD-AH200 (sold separately)
Smartphone Setup	Device	Others	Others	Others
	Connection	Bluetooth	USB2	HDMI
	Android Auto	—	On (*1)/Off	—
Bluetooth connection		Bluetooth connection is required.	Bluetooth connection is required.	Bluetooth connection is required.
Connection requirement		—	Connect to USB port 2 for using Android Auto .	—
Available sources	AppRadio Mode	—	—	✓
	Android Auto	—	✓ (*2)	—
(*1) Select "On" for "Android Auto" for using Android Auto.				
(*2) Available only when an Android Auto -compatible device is connected.				


Radio


 **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.**





 **Performs manual tuning.**





 **Performs seek tuning or non stop seek tuning.**
Releasing the key in a few seconds, skips to the nearest station from the current frequency.
Keeping holding the key for a long seconds, performs non stop seek tuning.

 **Recalls the preset channel stored to a key from memory.**

 **Stores the current broadcast frequency to a key.**

iTunes® tagging indicator and
iTunes® tagging song status indicator

 Stores song information to an iPod.
 Refer to *Storing song information to an iPod (iTunes® Tagging)* on page 48

- By pressing the  or  button, you can also switch the preset channels.
- By pressing and holding the  or  button and release, you can also perform seek tuning.

Starting procedure

1 **Display the AV source selection screen.**



2 **Touch [Radio].**

Storing the strongest broadcast frequencies

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

- 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 a search.**

The six strongest broadcast frequencies will be stored under the preset tuning keys in the order of their signal strength.

- Touch [Cancel] to cancel the storage process.

Displaying the "Radio settings" screen

1 **Display the "System" setting screen.**



2 **Touch [AV Source Settings].**

3 **Touch [Radio Settings].**

Tuning into strong frequencies

Local seek tuning allows you to only tune into those radio stations with sufficiently strong signals.

The default setting is "Off".

- This setting is available only when "Radio" is selected as the source.

1 **Display the "Radio Settings" screen.**

 Refer to *Displaying the "Radio settings" screen* on page 18

2 **Touch [Local].**

3 **Touch the item.**

- **Off:**
Turns the seek tuning setting off.
- **Level1 to Level4:**
Sets the level of sensitivity for FM to **Level1** to **Level4** (for MW and LW to **Level1** or **Level2**).
- The FM "**Level4**" (MW and LW "**Level2**") setting allows you to receive the only stations with the strongest signals.

Setting the FM tuning step

You can switch the seek tuning step for the FM band.

The default setting is "100kHz".

- This setting is available when the source is turned off.
- The tuning step remains at "50kHz" during manual tuning.

1 **Display the "Radio Settings" screen.**

 Refer to *Displaying the "Radio settings" screen* on page 18

2 **Touch [FM Step] to switch the step to "50kHz" or "100kHz".**

Switching the sound quality of the FM tuner

The default setting is "Music".

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

1 **Display the "Radio Settings" screen.**

 Refer to *Displaying the "Radio settings" screen* on page 18

2 **Touch [Tuner Sound].**

3 **Touch the item.**

- **Music:**
Gives priority to the sound quality.
- **Talk:**

Radio

• Gives priority to noise prevention.

- **Standard:**
Gives no effect.

Setting the alternative frequency search

When the tuner cannot get a good reception, tunes to another broadcast station that supports the same programme in the current network.

The default setting is "On".

- ☐ This function is available only when you receive the FM band.

1 Display the "Radio Settings" screen.

➤ Refer to *Displaying the "Radio settings" screen* on page 18

2 Touch [Alternative FREQ] to switch "On" or "Off".

Setting the Auto PI search

When you switch to the broadcast station containing RDS data, searches for the same PI (Program Identification) code broadcast station from all frequency band automatically.

The default setting is "Off".

- ☐ This setting is available when the source is turned off.

1 Display the "Radio Settings" screen.

➤ Refer to *Displaying the "Radio settings" screen* on page 18

2 Touch [Auto PI] to switch "On" or "Off".

Limiting stations to regional programming

You can switch whether the area code is checked during the Auto PI search.

The default setting is "On".

- ☐ This function is available only when you receive the FM band.

1 Display the "Radio Settings" screen.

➤ Refer to *Displaying the "Radio settings" screen* on page 18

2 Touch [Regional] to switch "On" or "Off".

Receiving traffic announcements (TA)

The traffic announcement can be received from the last selected frequency, interrupting the other sources.

The default setting is "Off".

- ☐ This function is available only when you receive the FM band.

1 Display the "Radio Settings" screen.

➤ Refer to *Displaying the "Radio settings" screen* on page 18

2 Touch [TA Interrupt] to switch "On" or "Off".

Receiving news announcements

The news can be received from the last selected frequency, interrupting the other sources.

The default setting is "Off".

- ☐ This function is available only when you receive the FM band.

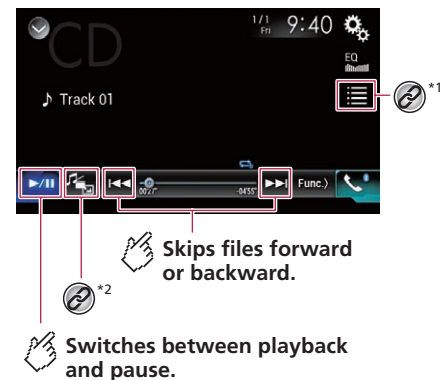
1 Display the "Radio Settings" screen.

➤ Refer to *Displaying the "Radio settings" screen* on page 18

2 Touch [News Interrupt] to switch "On" or "Off".

Disc

Audio source screen 1



Plays tracks in random order.

This function is available for music CD.

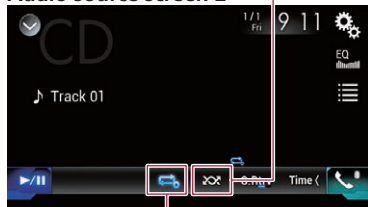


: Does not play tracks in random order.



: Plays all tracks in random order.

Audio source screen 2



Sets a repeat play range.



: Repeats the current disc.



: Repeats the current track.

Hides the touch panel keys.


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



Performs frame-by-frame playback.



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

Video source screen 1



Performs fast reverse or fast forward.

Touch again to change play back the speed.



Stops playback.

Video source screen 2



Sets a repeat play range.

 : Repeats all files.



: Repeats the current chapter.



: Repeats the current title.



Changes the viewing angle (Multi-angle).

This function is available for DVDs featuring multi-angle recordings.



Selects the audio output from [L+R], [Left], [Right], [Mix].

This function is available for Video-CDs and DVDs recorded with LPCM audio.

Video source screen 2



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.

Returns and begins playback from the specified point.

This function is available for DVD-Video and Video-CDs featuring PBC (playback control).

-  *1 Selects a track from the list.
➔ Refer to *Selecting files from the track name list* on page 21
-  *2 Switches the media file type.
➔ Refer to *Switching the media file type* on page 21
-  *3 Searches for the part you want to play.
➔ Refer to *Searching for the part you want to play* on page 21
-  *4 Displays the DVD menu.
➔ Refer to *Operating the DVD menu* on page 21

-  *5 Switches the subtitle/audio language.
➔ Refer to *Switching the subtitle/audio language* on page 21
-  *6 Displays the DVD menu keypad.
➔ Refer to *Operating the DVD menu using touch panel keys* on page 21

- By pressing the  or  button, you can also skip files/chapters forwards or backwards.
- By pressing and holding the  or  button, you can also perform fast reverse or fast forwards.
- If a Video-CD with PBC On is being played, **[PBCOn]** appears.
- You can set the screen size for the video image.
➔ Refer to *Changing the wide screen mode* on page 47

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

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


- 1 **Insert the disc.**
➔ Refer to *Inserting and ejecting a disc* on page 7
The source changes and then playback will start.
- If the disc is already set, select **[Disc]** as the playing source.

Selecting files from the track name list

- 1 **Touch .**
- 2 **Touch a track on the list to play back.**

Switching the media file type



When playing a digital media containing a mixture of various media file types you can switch between media file types to play.

- 1 **Touch .**
- 2 **Touch the item.**
 - **Music:**
Switches the media file type to music (compressed audio).
 - **Video:**
Switches the media file type to video.
 - **CD-DA:**

Switches the media file type to CD (audio data (CD-DA)).

Searching for the part you want to play

- For DVD-Videos, you can select **[Title]**, **[Chapter]** or **[10Key]**.
- For Video-CDs, you can select **[Track]** or **[10Key]** (PBC only).

- 1 **Touch .**
- 2 **Touch **[Title]**, **[Chapter]**, **[10Key]**, or **[Track]**.**
- 3 **Touch **[0]** to **[9]** to input the desired number.**
- 4 **Touch  to start playback from the number you registered.**





Operating the DVD menu

You can operate the DVD menu by touching the menu item on the screen directly.

- This function may not work properly with some DVD disc content. In that case, use touch panel keys to operate the DVD menu.






- 1 **Touch  or **[MENU]**.**
- 2 **Touch the menu item.**

Switching the subtitle/audio language



- 1 **Touch  or .**
 - : Changes the subtitle language.
 - : Changes the audio language.
- You can specify the desired language as the default subtitle/audio languages.
➔ Refer to *Setting the top-priority languages* on page 45

Operating the DVD menu using touch panel keys

If items on the DVD menu appear, the touch panel keys may overlay them. If so, select an item using those touch panel keys.

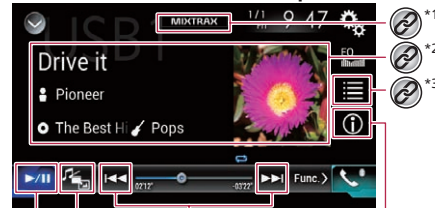
- 1 **Touch .**
- 2 **Touch , ,  or  to select the menu item.**
- 3 **Touch .**












Disc


- The way to display the menu differs depending on the disc.
- If you touch , the touch panel keys disappear and the  icon is displayed.



Compressed files

Audio source screen 1 (Example: USB)









-  *1  : Repeats all files.
-  *2  : Repeats the current folder.
-  *3  : Repeats the current file.
-  *4   : Skips files forward or backward.
-  : Switches between playback and pause.
-  : Switches the current music information display.

-  Plays files in random order.

-  : Does not play files in random order.
-  : Plays all files within the repeat range in random order.


Audio source screen 2 (Example: USB)



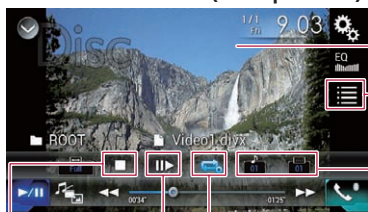
-  Sets a repeat play range.
 -  or  : Repeats all files.
 -  : Repeats the current folder.
 -  or  : Repeats the current file.

-  Selects the previous folder or the next folder.





Compressed files

 **Hides the touch panel keys.**
To display again the keys, touch anywhere on the screen.

Video source screen (Example: Disc)



 **Sets a repeat play range.**

-  or  : Repeats all files.
-  : Repeats the current folder.
-  : Repeats the current file.

 **Performs frame-by-frame playback.**
This function is available only for compressed video files stored on a disc.


 **Performs slow-motion playback.**


 **Stops playback.**


Video source screen (Example: Disc)




 **Performs fast reverse or fast forward.**
Touch again to change the playback speed.

 **Switches between playback and pause.**

 **Hides the touch panel keys.**
To display again the keys, touch anywhere on the screen.



 **Rotates the displayed picture 90° clockwise.**

 **Selects the previous or next folder.**



Still image screen



 **Sets a repeat play range.**

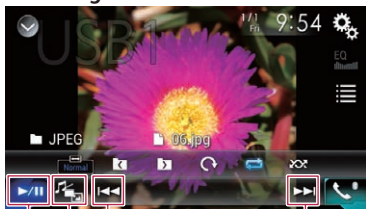
-  : Repeats all files.
-  : Repeats the current folder.

 **Plays files in random order.**

-  : Does not play files in random order.
-  : Plays all files in the current repeat play range in random order.

Compressed files

Still image screen



- *4 Performs fast reverse or fast forward.
Touch again to change the playback speed.

- Switches between playback and pause.

- *1 Displays the MIXTRAX screen.
➔ Refer to *MIXTRAX* on page 35
- *2 Displays the link search screen.
 - ☐ This function is available for the external storage device (USB, SD) only.
 - ➔ Refer to *Selecting a song from the list related to the song currently playing (link search)* on page 25
- *3 Selects a file from the list.
 - ➔ Refer to *Selecting files from the file name list* on page 24
 - ☐ When you play compressed audio files stored in an external storage device (USB, SD), you can search for a file using Music Browse.
 - ➔ Refer to *Selecting a file by Music Browse* on page 24

- *4 Switches the media file type.
 - ➔ Refer to *Switching the media file type* on page 24
- *5 Switches the subtitle/audio language.
 - ☐ This function is available only for compressed video files stored on a disc.
 - ➔ Refer to *Switching the subtitle/audio language* on page 25

You can play compressed audio, compressed video or still image files stored in a disc or an external storage device (USB, SD) using the built-in drive of this product.

- ➔ Refer to *Media compatibility chart* on page 54
- ☐ By pressing the or button, you can also skip files forwards or backwards.
- ☐ By pressing and holding the or button on the audio or video file, you can perform fast reverse or fast forwards.
- ☐ By pressing and holding the or button on the still image file, you can search through 10 JPEG files at a time. If the file currently being played is the first or last file in the folder, the search is not performed.
- ☐ JPEG images are not displayed in the rear display.
- ☐ You can set the screen size for the video and JPEG images.
 - ➔ Refer to *Changing the wide screen mode* on page 47

⚠ 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 (for Disc)

- 1 **Insert the disc.**
 - ➔ Refer to *Inserting and ejecting a disc* on page 7
 - ☐ If the disc is already set, select **[Disc]** as the playing source.

Starting procedure (for USB/SD)

- 1 **Insert the SD memory card into the SD card slot or plug the USB storage device into the USB connector.**
 - ➔ Refer to *Inserting and ejecting an SD memory card* on page 8
 - ➔ Refer to *Plugging and unplugging a USB storage device* on page 8
- 2 **Display the AV source selection screen.**



- 3 **Touch [USB] or [SD].**
 - ☐ Play back is performed in order of folder numbers. Folders are skipped if they contain no playable files.

Operations common to all file types

Selecting files from the file name list

You can find files or folders to play back using the file name or folder name list.

- 1 **Touch .**
- 2 **Touch a file on the list to play back.**
 - ☐ Touching a folder on the list shows its contents. You can play a file on the list by touching it.

Switching the media file type

When playing a digital media containing a mixture of various media file types you can switch between media file types to play.

- 1 **Touch .**
- 2 **Touch the item.**
 - **Music:**
Switches the media file type to music (compressed audio).
 - **Video:**
Switches the media file type to video.
 - **CD-DA:**
Switches the media file type to CD (audio data (CD-DA)).
 - **Photo:**
Switches the media file type to still image (JPEG data).

Audio file operations

Selecting a file by Music Browse

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

- ☐ This function is available for the external storage device (USB, SD) only.

- 1 **Touch .**

Compressed files

- 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.





Selecting a song from the list related to the song currently playing (link search)

- This function is available for the external storage device (USB, SD) only.
- If you touch the artwork, the list of songs in the album is displayed.

- 1 Touch song information to open the list of songs.
- 2 Touch the song to play back.

Video file operations

Switching the subtitle/audio language

- 1 Touch  or .
- : Changes the subtitle language.
 - : Changes the audio language.
- You can specify the desired language as the default subtitle/audio languages.
 - Refer to *Setting the top-priority languages* on page 45

Still image file operations

Setting the slideshow interval

JPEG files can be viewed as a slideshow on this product. In this setting, the interval between each image can be set. The default setting is "10sec".

- This setting is available during playback of the JPEG files.

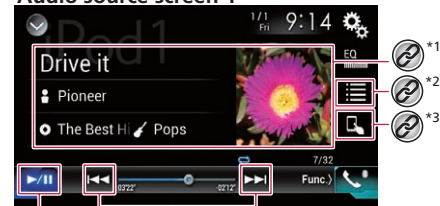
- 1 Display the "Video Setup" screen.





- 2 Touch [Time Per Photo Slide].
 - 3 Touch the item.
- The following items are available:
5sec, 10sec, 15sec, Manual.




iPod

Audio source screen 1





-  Skips files forward or backward.
-  Switches between playback and pause.

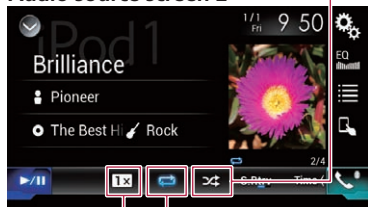
Changes the audiobook speed.

-  1 : Normal playback
-  2 : Fast playback
-  1/2 : Slow-motion playback



Sets the shuffle play.

-  : Plays randomly songs or videos within the selected list.
-  : Plays album randomly.

Audio source screen 2



Sets a repeat play range.

-  : Repeats all in the selected list.
-  : Repeats the current song or video.

Hides the touch panel keys.

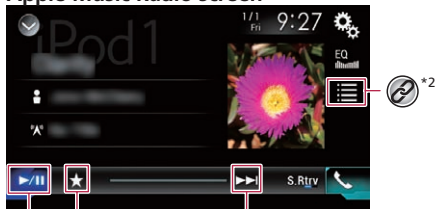
To display again the keys, touch anywhere on the screen.

Video source screen



Performs fast reverse or fast forward.










Apple Music Radio screen








Skips tracks forward.

Displays the pop-up menu for Apple Music Radio.

Switches between playback and pause.



-  *1
 -  Displays the link search screen.
 -  Refer to *Selecting a song from the list related to the song currently playing (link search)* on page 25
-  *2
 -  Selects a song or video from the list.
 -  Refer to *Selecting song or video sources from the playlist screen* on page 27
-  *3
 -  Switches the control mode to "App Mode".
 -  Refer to *Using this product's iPod function from your iPod* on page 27

- By pressing the  or  button, you can also skip files/chapters forwards or backwards.
 - Skipping backwards is not available while playing **Apple Music Radio**.
- By pressing and holding the  or  button, you can also perform fast reverse or fast forwards.
 - This function is not available while playing **Apple Music Radio**.
- You can set the screen size for the video image.
 -  Refer to *Changing the wide screen mode* on page 47
- The audiobook speed icon does not change when using this function with an iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5, or iPod touch (5th generation). The setting changes as follows when the icon is touched, even though the icon does not change.
 - Faster—Slower—Normal—Faster...

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.

Connecting your iPod

- When connecting an iPod to this product, select the method for connecting your device. Settings are required according to the connected device.
-  Refer to *Setup for iPod / iPhone or smartphone* on page 15
 - The available sources vary depending on the selected method for connecting your device.
 -  Refer to *Information on the connections and functions for each device* on page 16
 - Depending on the generation or version of the iPod, some functions may not be available.
 - The video image of the iPod may have noise if the rear display outputs the video image. When noise is produced in the video image of the iPod, turn off the output setting of the rear display.

- Refer to *Selecting the video for the rear display* on page 48

Starting procedure

- ❑ When connecting an iPhone or iPod touch, quit all applications before connecting the device.

1 Connect your iPod.

- Refer to *Connecting your iPod* on page 26

2 Display the AV source selection screen.



3 Touch [iPod].

Selecting song or video sources from the playlist screen

You can search for the song, video, or radio stations you want to play from the playlist screen.

1 Touch [List].

2 Touch [Music] or [Video] to switch the music or video category list.

- ❑ The video category list icon is not available when using iPod function with an iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5, or iPod touch (5th generation).

3 Touch the category.

- ❑ If you use English as the system language, the alphabet search function is available. Touch the initial search bar to use this function.

4 Touch the title of the list.

5 Start playback of the selected list.

- ❑ You can play playlists created with the **MusicSphere** application. The application is available on our website.

Using this product's iPod function from your iPod

You can control this product's iPod function from the iPod on "App Mode". The application screen of the iPod can be displayed on this product, and the music files and video files are played back with this product.

- ❑ This function is not available when using iPod function with an iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5, or iPod touch (5th generation).
- ❑ While this function is in use, the iPod will not turn off even if the ignition key is turned off. Operate the iPod to turn off the power.

1 Touch [Control].

2 Operate the connected iPod to select a video or song and play.

- ❑ Some functions are still accessible from this product even if the control mode is set to "App Mode". However, the operation will depend on your applications.

- Touch [Control] to switch the control mode.

Selecting a song from the list related to the song currently playing (link search)

- ❑ If you touch the artwork, the list of songs in the album is displayed.
- ❑ This function is not available while playing **Apple Music Radio**.

1 Touch song information to open the list of songs.

2 Touch the song to play back.

Using Apple Music Radio

Important

Apple Music Radio may not be available in your country or region.

For details about Apple Music, visit the following site:

<http://www.apple.com/music/>

- ❑ This function is only available when using iPod function with an iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5, or iPod touch (5th generation).

1 Touch [List].

2 Touch [Music].

3 Touch [Radio].

Playing back songs similar to the current song

You can listen to songs similar to the song currently being played.

1 Touch [Star].

2 Touch [Play More Like This].

- ❑ When the menu item is not active, the function is not available for the current song.
- ❑ If you touch [Play More Like This] when the menu item is highlighted, the function will turn off.

Setting the current song not to be played back again

You can set the current song not to be played back again.

1 Touch [Star].

2 Touch [Never Play This Song].

- ❑ When the menu item is not active, the function is not available for the current song.
- ❑ If you touch [Never Play This Song] when the menu item is highlighted, the function will turn off.

Adding the current song to the wish list

You can add the current song to the wish list for easy access to the song later.


1 Touch [Star].

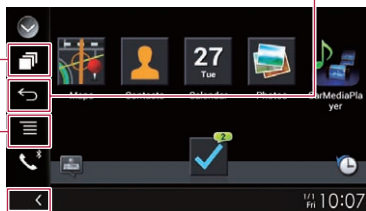
2 Touch [Add to iTunes Wish List].


- ❑ If the song is already in the wish list, [Remove from iTunes Wish List] is displayed. If you touch this key, the song will be removed from the wish list.

AppRadio Mode

 Displays the launcher application screen.

 Displays the previous screen.



 Displays the current source.

 Displays the menu screen.

- Press the **≡** button twice to hide the App control side bar. Press the **≡** button twice again to display it again.
- **S** and **≡** are not available depending on the type of device.

⚠ WARNING

Certain uses of an iPhone or a 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.

AppRadio Mode Compatibility

iPhone models

- iPhone 4, 4s, 5, 5c, 5s, 6, 6 Plus
- iPod touch (4th, 5th generation)

Smartphone (Android) models

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

Using AppRadio Mode

You can control applications for an iPhone or a smartphone directly from the screen (**AppRadio Mode**). In **AppRadio Mode**, you can operate applications with finger gestures such as tapping, dragging, scrolling or flicking on the screen of this product.

⚠ 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.eu/AppRadioMode>
- Be sure to read Using app-based connected content before you perform this operation.
- ☞ Refer to *Using app-based connected content* on page 57

- 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.

- In this chapter, iPhone and iPod touch will be referred to as "iPhone".
- The compatible finger gestures vary depending on the application for an iPhone or a smartphone.
- Even though an application is not compatible with **AppRadio Mode**, depending on the application an image may be displayed. But you can not operate the application.

Starting procedure

When connecting an iPhone or smartphone to this product, select the method for connecting your device. Settings are required according to the connected device.

- ☞ Refer to *Setup for iPod / iPhone or smartphone* on page 15
- Touch the desired application icon after the AppRadio app is launched.
After the desired application is launched, the application operation screen appears.

- If you connect your device while an **AppRadio Mode**-compatible application is already running, the application operation screen will appear on this product.
- Press the **≡** button to go back to the top menu screen.

For iPhone users

- When you use an iPhone with a Lightning connector, connect the iPhone to this product via Bluetooth wireless technology and unlock the iPhone in advance.
☞ Refer to *Registering your Bluetooth devices* on page 11

1 Connect your iPhone.

- ☞ Refer to the Installation Manual.

2 Press the **≡** button.

3 Touch [APPS].

- When you use an iPhone with a 30-pin connector, messages appear on the screen of this product and your iPhone. Proceed to the next step.
- When you use an iPhone with a Lightning connector, the **AppRadio app** is launched, and the **AppRadio Mode** screen (Application menu screen) appears after this step. In such a case, the following steps are not required.

4 Use your iPhone to launch the application.

The **AppRadio app** is launched.

5 Touch [OK] on the screen of this product.

The **AppRadio Mode** screen (Application menu screen) appears.

For smartphone (Android) users

1 Register your smartphone and connect it to this product via Bluetooth wireless technology.

- ☞ Refer to *Registering your Bluetooth devices* on page 11

2 Unlock your smartphone and connect it to this product.

- ☞ Refer to the Installation Manual.

3 Press the **≡** button.

4 Touch [APPS].

The **AppRadio app** is launched, and the **AppRadio Mode** screen (Application menu screen) appears.

AppRadio Mode

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 the desired text directly from this product.

- 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 Set the keyboard language.

- ➡ Refer to *Setting the keyboard language with the application for iPhone* on page 39

2 Start up AppRadio Mode.

- ➡ Refer to *Starting procedure* on page 28

3 Touch the text input area on the application operation screen.

A keyboard for entering text appears.

Adjusting the image size (for smartphone (Android) users)

Black dots may appear on the screen when using **AppRadio Mode** with an Android device connected to this product.

- This setting is available only when you stop your vehicle in a safe place and apply the handbrake.
- This function can be set when your Android device is able to enter **AppRadio Mode**.
- The setting screen automatically appears in the following cases:
 - When entering **AppRadio Mode** after a Bluetooth connection using SPP (Serial Port Profile) has been established.
 - When a Bluetooth connection using SPP (Serial Port Profile) has been established in **AppRadio Mode**.

1 Display the “System” setting screen.



2 Touch [Input/Output Settings].

3 Touch [AppRadio Video Adjustment].

4 Touch [OK].

5 Touch [◀], [▶], [▲] or [▼] to adjust the line to fit smartphone image size.

6 Touch [Preview].

7 Touch [OK].

- If you want to adjust the setting again from the beginning, touch [RESET].

Using the audio mix function

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

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

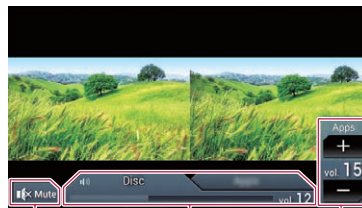
1 Start up AppRadio Mode.

- ➡ Refer to *Starting procedure* on page 28

2 Press the VOL (+/-) button.

The audio mix menu will be displayed on the screen.

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



- ① Touch to mute. Touch again to unmute.

- ② Sets whether to switch the sound mix function on or off.

- 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).

- The right tab is not displayed on the AV operation screen.

- ③ Adjusts the application audio volume.

- 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 the **VOL (+/-)** button to adjust the volume of the main sound.

Apple CarPlay

You can control applications for an iPhone directly from the screen (**Apple CarPlay**).

In **Apple CarPlay**, you can operate applications with finger gestures such as tapping, dragging, scrolling or flicking on the screen of this product.

- ❑ This function is only available when using iPod function with an iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, or iPhone 5.

⚠WARNING

Certain uses of an 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>

- Content and functionality of compatible 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, 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.

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

Starting procedure

When connecting an **Apple CarPlay**-compatible device to this product, select the method for connecting your device. Settings are required according to the connected device.

- ➡ Refer to *Setup for iPod / iPhone or smartphone* on page 15
- ❑ To achieve optimum usability of **Apple CarPlay**, set the driving position setting correctly according to the vehicle.
 - ➡ Refer to *Setting the driving position* on page 30

- ❑ You can adjust the guidance volume and alert sound volume separately from the main sound volume when **Apple CarPlay** is used.

➡ Refer to *Adjusting the volume* on page 30

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

➡ Refer to the Installation Manual.

The Application menu screen appears.

- ❑ 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 the **Apple CarPlay**-compatible device, the Bluetooth connection will be terminated after the call ends.

Setting the driving position

To achieve optimum usability of **Apple CarPlay**, set the driving position setting correctly according to the vehicle. The default setting is "Left".

1 Display the "System" setting screen.



2 Touch [Driving Position].

3 Touch the item.

- **Left:**
 - Select for a left-hand drive vehicle.
- **Right:**
 - Select for a right-hand drive vehicle.

The setting will be applied the next time an **Apple CarPlay**-compatible device is connected to this product.

Adjusting the volume

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

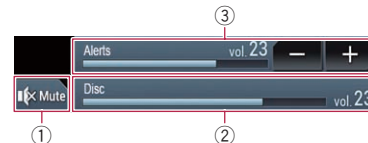
1 Start up Apple CarPlay.

➡ Refer to *Starting procedure* on page 30

2 Press the VOL (+/-) button.

The volume menu will be displayed on the screen.

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



- ① Touch to mute. Touch again to unmute.
- ② Displays the main sound volume.
 - ❑ You cannot adjust the volume of the main sound on the screen. Press the **VOL (+/-)** button to adjust the volume of the main sound.
- ③ Adjusts the guidance volume and alert sound volume.
 - ❑ Each touch of **[+]** or **[-]** increases or decreases the volume level.

You can control applications for a smartphone directly from the screen (**Android Auto**).

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

- Android devices running Android 5.0 or higher are compatible with **Android Auto**.

⚠ WARNING

Certain uses of a 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>

- Content and functionality of compatible 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, 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.**

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

Starting procedure

When connecting an **Android Auto**-compatible device to this product, select the method for connecting your device. Settings are required according to the connected device.

- Refer to *Setup for iPod / iPhone or smartphone* on page 15
- To achieve optimum usability of **Android Auto**, set the driving position setting correctly according to the vehicle.
 - Refer to *Setting the driving position* on page 31

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

- Refer to *Adjusting the volume* on page 31
- If the auto-launch function is set, **Android Auto** will launch automatically as soon as a connection to an **Android Auto**-compatible device is established.
 - Refer to *Setting the auto-launch function* on page 31

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

- Refer to the Installation Manual.

2 Press the button.

3 Touch [Android Auto].

A Bluetooth connection with the **Android Auto**-compatible device will automatically be established and a Bluetooth connection with any other device will be terminated.

- If three 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 device manually.
 - Refer to *Registering your Bluetooth devices* on 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 ends.

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.

The default setting is "On".

- Android Auto** will launch automatically only when "Smartphone Setup" is correctly set for using **Android Auto** and an **Android Auto**-compatible device is correctly connected to this product.

1 Display the "System" setting screen.



2 Touch [Android Auto Auto-launch] to switch "On" or "Off".

Setting the driving position

To achieve optimum usability of **Android Auto**, set the driving position setting correctly according to the vehicle. The default setting is "Left".

1 Display the "System" setting screen.



2 Touch [Driving Position].

3 Touch the item.

- Left:**
Select for a left-hand drive vehicle.
- Right:**
Select for a right-hand drive vehicle.

The setting will be applied the next time an **Android Auto**-compatible device is connected to this product.

Adjusting the volume

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

1 Start up Android Auto.

- Refer to *Starting procedure* on page 31

2 Press the VOL (+/-) button.

The volume menu will be displayed on the screen.

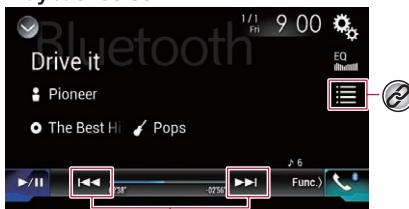
- The volume menu is displayed for four seconds. If the menu disappears, press the **VOL (+/-)** button again. The menu reappears.



- Touch to mute. Touch again to unmute.

- ② Displays the main sound volume.
 - ❑ You cannot adjust the volume of the main sound on the screen. Press the **VOL (+/-)** button to adjust the volume of the main sound.
- ③ Adjusts the guidance volume and alert sound volume.
 - ❑ Each touch of **[+]** or **[-]** increases or decreases the volume level.

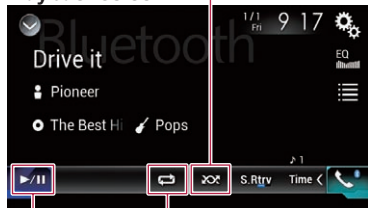
Playback screen 1



Skips files forward or backward.

Plays files in random order.

Playback screen 2



Sets a repeat play range.

Switches between playback and pause.

Selects a file from the list.
➔ Refer to *Selecting files from the file name list* on page 33

- ❑ 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 audio player connected to this product, some functions may not be available.
- ❑ While you are listening to songs on your Bluetooth device, please 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.
- ❑ By pressing the **[◀◀]** or **[▶▶]** button, you can also skip files forwards or backwards.
- ❑ By pressing and holding the **[◀◀]** or **[▶▶]** button, you can also perform fast reverse or fast forwards.

Starting procedure

- ❑ Before using the Bluetooth audio player, register and connect the device to this product.
 - ➔ Refer to *Registering your Bluetooth devices* on page 11

1 Pull out the connecting cable for using AppRadio Mode.

- ❑ You cannot use Bluetooth audio player when the connecting cable for using **AppRadio Mode** is connected.

2 Display the “System” setting screen.



3 Touch [AV Source Settings].

4 Confirm that “Bluetooth Audio” is turned on.

5 Display the AV source selection screen.



6 Touch [Bluetooth Audio].


Bluetooth audio player

Selecting files from the file name list

- ❑ This function is available only when the AVRCP version of the Bluetooth device is 1.4 or higher.

- 1 Touch .
- 2 Touch a file or a folder on the list to play back.

HDMI source

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



- ❑ A High Speed HDMI® Cable (sold separately) is required for connection.
 - ➔ Refer to the Installation Manual.
- ❑ You can set the screen size for the video image.
 - ➔ Refer to *Changing the wide screen mode* on page 47

⚠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 Display the AV source selection screen.



- 2 Touch [HDMI].

AUX source

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



-  **Switches between the video input and the sound input.**

- ❑ A Mini-jack AV cable (CD-RM10) (sold separately) is required for connection.
 - ➔ Refer to the Installation Manual.
- ❑ You can set the screen size for the video image.
 - ➔ Refer to *Changing the wide screen mode* on page 47

⚠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

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

- 1 Display the “System” setting screen.



- 2 Touch [Input/Output Settings].
- 3 Confirm that “AUX Input” is turned on.
- 4 Display the AV source selection screen.

AUX source



5 Touch [AUX].

Setting the video signal

When you connect this product to an AUX equipment, select the suitable video signal setting.

The default setting is "Auto".

- You can operate this function only for the video signal input into the AUX input.

1 Display the "Video Setup" screen.



2 Touch [Video Signal Setting].

3 Touch [AUX].

4 Touch the item.

The following items are available:

Auto, PAL, NTSC, PAL-M, PAL-N, SECAM.

AV input



Hides the touch panel keys.

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



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 (for AV source)

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

- Refer to the Installation Manual.

1 Display the "System" setting screen.



2 Touch [Input/Output Settings].

3 Touch [AV Input] repeatedly, set to "Source".

- If "Source" is selected, "2nd Camera Input" is automatically set to "Off".

- Refer to *Setting the second camera activation* on page 38

4 Display the AV source selection screen.



5 Touch [AV].

Starting procedure (for camera)

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

- Refer to the Installation Manual.

1 Display the "System" setting screen.



2 Touch [Input/Output Settings].

3 Touch [AV Input] repeatedly, set to "Camera".

4 Display the AV source selection screen.



5 Touch [Camera View].

- 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.

Setting the video signal

When you connect this product to an AV equipment, select the suitable video signal setting.

The default setting is "Auto".

- You can operate this function only for the video signal input into the AV input.

1 Display the "Video Setup" screen.



2 Touch [Video Signal Setting].

3 Touch [AV].

4 Touch the item.

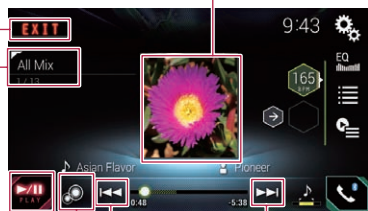
The following items are available:

Auto, PAL, NTSC, PAL-M, PAL-N, SECAM.

 Exits the MIXTRAX screen.

 Displays the LinkGate screen.


Touch the desired item. Songs related to the selected item are played.



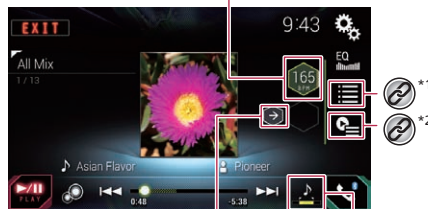
 Selects a track.

 Turns on or off the MIXTRAX original visual display.

 Switches between playback and pause.


 Displays the item selected on the LinkGate screen or item selection screen.

 Specifies the BPM.






 Sets to the original BPM (Beats Per Minute).



 Specifies the playback portion.

 : Plays back a middle portion.

 : Plays back a long portion.

 : Plays back a short portion.

 *1 Selects an item from the list.
 Refer to *Selecting an item from the list* on page 35




 *2 Selects songs not to be played.
 Refer to *Selecting songs not to be played* on page 35

Using MIXTRAX

MIXTRAX is original technology for creating non-stop mixes of selections from your audio library, complete with DJ effects that make them sound.

FLAC files are skipped during MIXTRAX playback.

Starting procedure




- 1 Insert the SD memory card into the SD card slot or plug the USB storage device into the USB connector.
 -  Refer to *Inserting and ejecting a SD memory card* on page 8
 -  Refer to *Plugging and unplugging a USB storage device* on page 8
- 2 Display the AV source selection screen.
 - 
- 3 Touch [USB] or [SD].
- 4 Touch [MIXTRAX].

Selecting an item from the list

You can specify an item to play songs related to it.

1 Touch .

The following lists are available:

-  : displays the mix pattern list.
-  : displays the tag list.
-  : displays the file list.

2 Touch an item in the list.

Selecting songs not to be played

You can select items or songs not to be played.

1 Touch .

2 Touch .

3 Touch the category.

4 Touch the box on the left of the item or song that you do not want to play.

Displaying the "MIXTRAX Settings" screen

1 Display the "System" setting screen.



- 2 Touch [AV Source Settings].
- 3 Touch [MIXTRAX Settings].

Setting the flash pattern

The flashing colour changes with the changes in the sound and bass levels.

The default setting is "Sound1".

1 Display the "MIXTRAX Settings" screen.

- ☞ Refer to *Displaying the "MIXTRAX Settings" screen* on page 35

2 Touch [Flash Pattern].

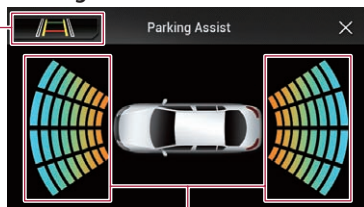
3 Touch the item.

- **Sound1 to Sound6:**
The flash pattern changes according to the sound level.
- **L-Pass1 to L-Pass6:**
The flash pattern changes according to the bass level.
- **Random1:**
The flash pattern changes randomly according to the sound level mode and low pass mode.
- **Random2:**
The flash pattern changes randomly according to the sound level mode.
- **Random3:**
The flash pattern changes randomly according to the low pass mode.
- **Off:**
The flash pattern does not flash.

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.

Parking Assist screen

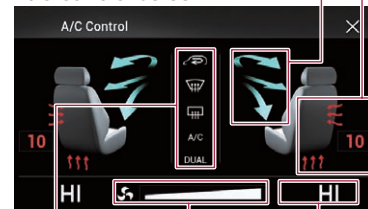


The position of detected obstacles

The heating setting for the seat

The fan direction

A/C Control screen



The fan speed

The internal temperature setting for the seat

The status of the A/C function

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

Vehicle equipment information

the model, refer to the information on our website.

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.

- ❑ 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.

- ❑ 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".
 - ➔ Refer to *Reversing the climate control status display* on page 39

System settings

Displaying the "System" setting screen

- 1 Press the **⌘** button.
- 2 Touch **[S]**, and then **[H]**.

Setting Bluetooth audio source activation

The default setting is "On".

- 1 Display the "System" setting screen.
 - ➔ Refer to *Displaying the "System" setting screen* on page 37
- 2 Touch [AV Source Settings].
- 3 Touch [Bluetooth Audio] to switch "On" or "Off".

Setting the ever scroll

When "Ever Scroll" is set to "On", the recorded text information scrolls continuously in the display while the vehicle is stopped. The default setting is "Off".

- 1 Display the "System" setting screen.
 - ➔ Refer to *Displaying the "System" setting screen* on page 37
- 2 Touch [Ever Scroll] to switch "On" or "Off".

Setting the beep tone

The default setting is "On".

- 1 Display the "System" setting screen.
 - ➔ Refer to *Displaying the "System" setting screen* on page 37
- 2 Touch [Beep Tone] to switch "On" or "Off".

Setting the rear view camera

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. Please 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 visible.

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

- ➔ Refer to *Source on the AV source selection screen* on page 10
- ❑ To set the rear view camera as the camera for Camera View mode, set "Back Camera Input" to "On".
- ❑ When using the 2nd camera, set "AV Input" to "Camera".

⚠ CAUTION

Check to make sure settings for rear view camera displays a mirror reversed image.

- ❑ Immediately verify whether the display changes to a 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 **[S]** while the camera image is displayed, the displayed image will turn 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.

Setting rear view camera activation

The default setting is "Off".

- 1 Display the "System" setting screen.
 - ➔ Refer to *Displaying the "System" setting screen* on page 37
- 2 Touch [Camera settings].
- 3 Touch [Back Camera Input] to switch "On" or "Off".

Setting the polarity of the rear view camera

The default setting is "Battery".

System settings

1 Display the "System" setting screen.

➔ Refer to *Displaying the "System" setting screen* on page 37

2 Touch [Camera settings].

3 Touch [Reverse Gear Setting].

● Battery:

The polarity of the connected lead is positive.

● Ground:

The polarity of the connected lead is negative.

- ❑ If no camera connection is made and the camera polarity setting is wrong, a black screen is displayed as the rear view camera image immediately after startup. In such a case, press and hold the **MUTE** button to release the rear view camera screen and then change the camera polarity setting to "**Battery**".

Setting the reversed image display for the rear view image

You can set whether to reverse the rear view camera images to be displayed on the front screen.

The default setting is "**Off**".

- ❑ This setting is available only when you stop your vehicle in a safe place and apply the handbrake.
- ❑ This function is available when "**Back Camera Input**" is set to "**On**".

➔ Refer to *Setting rear view camera activation* on page 37

1 Display the "System" setting screen.

➔ Refer to *Displaying the "System" setting screen* on page 37

2 Touch [Camera settings].

3 Touch [Back Camera: Reverse Video] to switch "On" or "Off".

Setting the parking assist guidelines

Displaying the parking assist guidelines

You can set whether to display the parking assist guidelines on the rear view camera images when backing up your vehicle. The default setting is "**Off**".

1 Display the "System" setting screen.

➔ Refer to *Displaying the "System" setting screen* on page 37

2 Touch [Camera settings].

3 Touch [Parking Assist Guide] to switch "On" or "Off".

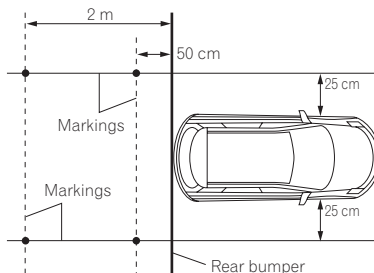
Adjusting the parking assist guidelines

▲ CAUTION

- 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.

1 Park your vehicle in a safe place and apply the handbrake.

2 Using packing tape or similar, place markings as follows.



3 Display the "System" setting screen.

➔ Refer to *Displaying the "System" setting screen* on page 37

4 Touch [Camera settings].

5 Touch [Parking Assist Guide Adjust].

6 Set the guidelines by dragging the four points.

Adjust the guidelines so that the guidelines can be overlaid to the markings

- ❑ Touch ▲/▼/◀/▶/⏪/⏩ to adjust the guidelines if necessary. Touch [Default] to reset the settings.

Setting the second camera

You can view images of the second camera (a front camera etc.) on the screen of this product.

Setting the second camera activation

The default setting is "**Off**".

- ❑ This function is synchronized with "**AV Input**" setting.

1 Display the "System" setting screen.

➔ Refer to *Displaying the "System" setting screen* on page 37

2 Touch [Camera settings].

3 Touch [2nd Camera Input] to switch "On" or "Off".

Setting the reversed image

The default setting is "**Off**".

- ❑ This setting is available only when you stop your vehicle in a safe place and apply the handbrake.
- ❑ This function is available when "**AV Input**" is set to "**Camera**" or "**2nd Camera Input**" is set to "**On**".

1 Display the "System" setting screen.

➔ Refer to *Displaying the "System" setting screen* on page 37

2 Touch [Camera settings].

3 Touch [2nd Camera: Reverse video] to switch "On" or "Off".

Setting the camera for Camera View mode

To display Camera View at all times, "**Camera View**" needs to be set to "**On**". (The same mode is turned on when [☑] is touched on the camera view screen. The setting value is synchronized.) The default setting is "**Off**".

- ❑ To set the rear view camera as the camera for Camera View mode, set "**Back Camera Input**" to "**On**".

➔ Refer to *Setting rear view camera activation* on page 37

- ❑ When using the second camera, set "**AV Input**" to "**Camera**" or "**2nd Camera Input**" to "**On**" (both settings are synchronized).

System settings

➤ Refer to *Setting the second camera* on page 38

- 1 **Display the “System” setting screen.**
➤ Refer to *Displaying the “System” setting screen* on page 37
- 2 **Touch [Camera settings].**
- 3 **Touch [Camera View] to switch “On” or “Off”.**
 You can also turn this function on by touching [Camera View] on the AV source selection screen or in the source list.

Setting the safe mode

You can set the safe mode that regulate operating some functions only when you stop your vehicle in a safe place and apply the handbrake.

The default setting is “On”.

- 1 **Display the “System” setting screen.**
➤ Refer to *Displaying the “System” setting screen* on page 37
- 2 **Touch [Safe Mode] to switch “On” or “Off”.**

Setting the demo mode

The default setting is “On”.

- 1 **Display the “System” setting screen.**
➤ Refer to *Displaying the “System” setting screen* on page 37
- 2 **Touch [Demo Mode] to switch “On” or “Off”.**

Selecting the system language

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

- 1 **Display the “System” setting screen.**
➤ Refer to *Displaying the “System” setting screen* on page 37
- 2 **Touch [System Language].**
- 3 **Touch the language.**

Reversing the climate control status display

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.

The default setting is “Off”.

- 1 **Display the “System” setting screen.**
➤ Refer to *Displaying the “System” setting screen* on page 37
- 2 **Touch [Climate Reverse] to switch “On” or “Off”.**

Setting the keyboard language with the application for iPhone

You can use the keyboard in **AppRadio Mode** by setting the language of the keyboard for iPhone.

- This function is only available in **AppRadio Mode** on the iPhone.

- 1 **Display the “System” setting screen.**
➤ Refer to *Displaying the “System” setting screen* on page 37
- 2 **Touch [Keyboard].**
- 3 **Touch the language.**

Adjusting the response positions of the touch panel (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.

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

- 1 **Display the “System” setting screen.**
➤ Refer to *Displaying the “System” setting screen* on page 37
- 2 **Touch [Touch Panel Calibration].**



- 3 **Touch two corners of the screen along the arrows, and then touch the centres of two + marks at the same time twice.**

- 4 **Press the  button.**
The adjustment results are saved.

- 5 **Press the  button once again.**
Proceed to 16-point adjustment.

- 6 **Gently touch the centre of the “+” mark displayed on the screen.**

The target indicates the order.

- When you press the  button, the previous adjustment position returns.
- When you press and hold the  button, the adjustment is cancelled.

- 7 **Press and hold the  button.**
The adjustment results are saved.

Setting the dimmer

Setting the dimmer trigger

The default setting is “Auto”.

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

- 1 **Display the “System” setting screen.**
➤ Refer to *Displaying the “System” setting screen* on page 37

- 2 **Touch [Dimmer Settings].**

- 3 **Touch [Dimmer Trigger].**

- 4 **Touch the item.**

- **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.

Setting the dimmer duration in day or night

The default setting is “Day”.

System settings

- You can use this function when "Dimmer Trigger" is set to "Manual".
- This setting is available only when you stop your vehicle in a safe place and apply the handbrake.

1 Display the "System" setting screen.

- ☞ Refer to *Displaying the "System" setting screen* on page 37

2 Touch [Dimmer Settings].

3 Touch [Day/Night] to switch the following items.

- **Day:**
Turns the dimmer function to off.
- **Night:**
Turns the dimmer function to on.

Setting the dimmer duration optional

You can adjust the time that the dimmer is turned on or off. The default setting is 18:00-6:00 (6:00 PM-6:00 AM).

- You can use this function when "Dimmer Trigger" is set to "Time".
- This setting is available only when you stop your vehicle in a safe place and apply the handbrake.

1 Display the "System" setting screen.

- ☞ Refer to *Displaying the "System" setting screen* on page 37

2 Touch [Dimmer Settings].

3 Touch [Dimmer Duration].

4 Drag the cursors to set the dimmer duration.

- You can also set the dimmer duration touching **[←]** or **[→]**.
- The time display of the dimmer duration adjusting bar is depending on the clock display setting.
- ☞ Refer to *Setting the time and date* on page 47

Adjusting the picture

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.

1 Display the screen you want to adjust.

2 Display the "System" setting screen.

- ☞ Refer to *Displaying the "System" setting screen* on page 37

3 Touch [Picture Adjustment].

4 Touch the item to select the function to be adjusted.

- **Brightness:**
Adjusts the black intensity. (-24 to +24)
- **Contrast:**
Adjusts the contrast. (-24 to +24)
- **colour:**
Adjusts the colour saturation. (-24 to +24)
- **Hue:**
Adjusts the tone of colour (which colour is emphasised, red or green). (-24 to +24)
- **Dimmer Level:**
Adjusts the brightness of the display. (+1 to +48)
- **Temperature:**
Adjusts the colour temperature, resulting in a better white balance. (-3 to +3)
- With some pictures, you cannot adjust "Hue" and "colour".
 - When you touch [Rear View] or [2nd Camera], the mode changes to the selected camera mode. By touching [Source], [Navi] or [Apps], you can return to the selected mode.
- 5 Touch **[←]**, **[→]**, **[▲]**, **[▼]** to adjust.
 - The adjustments of "Brightness", "Contrast" and "Dimmer Level" are stored separately for the on/off status of the dimmer function. These are switched automatically depending on whether the dimmer function is on or off.
 - The picture adjustment may not be available with some rear view cameras.
 - The setting contents can be memorised separately.

Displaying the firmware version

1 Display the "System" setting screen.

- ☞ Refer to *Displaying the "System" setting screen* on page 37

2 Touch [System Information].

3 Touch [Firmware Information].

Displaying the open source licences

You can check the open source licenses of the functions that this product is equipped with.

1 Display the "System" setting screen.

- ☞ Refer to *Displaying the "System" setting screen* on page 37

2 Touch [System Information].

3 Touch [Firmware Information].

4 Touch [Licence].

Updating firmware

▲CAUTION

- 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.

1 Download the firmware update files into your computer.

2 Connect a blank (formatted) storage device to your computer, and then locate the correct update file and copy it onto the storage device.

3 Set the external storage device to this product.

- ☞ Refer to *Inserting and ejecting an SD memory card* on page 8
- ☞ Refer to *Plugging and unplugging a USB storage device* on page 8

4 Turn the source off.

- ☞ Refer to *Selecting a source* on page 10

5 Display the "System" setting screen.

- ☞ Refer to *Displaying the "System" setting screen* on page 37

6 Touch [System Information].

7 Touch [Firmware Update].

8 Touch [Continue] to display the data transfer mode.

System settings

Follow the on-screen instructions to finish updating the firmware.

- ❑ If an error message appears on the screen, touch the display and perform the above steps again.




Checking the connections of leads

Check that the leads are properly connected between this product and vehicle.





- 1 **Display the “System” setting screen.**
 - Refer to *Displaying the “System” setting screen* on page 37
- 2 **Touch [System Information].**
- 3 **Touch [Connection Status].**
 - **Illumination**
Displays the status of headlights or small lamps of the vehicle.
 - **Vehicle Bus**
Displays the status of the vehicle bus adapter.

Audio adjustments

Displaying the “Audio” setting screen

- 1 **Press the  button.**
- 2 **Touch , and then .**

Using fader/balance adjustment

- 1 **Display the “Audio” setting screen.**
 - Refer to *Displaying the “Audio” setting screen* on page 41
- 2 **Touch [Fader/Balance].**
 - ❑ Only the balance can be adjusted when “On” is selected in “Rear Speaker”. Touch [Balance] and skip to step 4.
 - Refer to *Setting the rear speaker output* on page 41.
- 3 **Touch  or  to adjust the front/rear speaker balance.**
 - ❑ Set “Front” and “Rear” to “0” when using a dual speaker system.
- 4 **Touch  or  to adjust the left/right speaker balance.**
 - You can also set the value by dragging the point on the displayed table.

Switching sound muting/attenuation



You can automatically mute or attenuate the AV source volume and the iPhone or smartphone application volume when the navigation outputs the guidance voice. The default setting is “ATT”.

- 1 **Display the “Audio” setting screen.**
 - Refer to *Displaying the “Audio” setting screen* on page 41
- 2 **Touch [Mute Level].**
- 3 **Touch the item.**
 - **ATT:**
The volume becomes 20 dB lower than the current volume.
 - **Mute:**
The volume becomes 0.
 - **Off:**
The volume does not change.

Adjusting source levels

SLA (source level adjustment) lets you adjust the volume level of each source to prevent radical changes in volume when switching between sources.

- ❑ 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.

- 1 **Compare the FM tuner volume level with the level of the source.**
- 2 **Display the “Audio” setting screen.**
 - Refer to *Displaying the “Audio” setting screen* on page 41
- 3 **Touch [Source Level Adjuster].**
- 4 **Touch  or  to adjust the source volume.**
 - ❑ If you directly touch the area where the cursor can be moved, the SLA setting will be changed to the value of the touched point.
 - ❑ “+4” to “-4” is displayed as the source volume is increased or decreased.
 - ❑ The default setting is “0”.

Setting the rear speaker output

A rear speaker output of this product can be turned on or off. The default setting is “On”.

- 1 **Display the “Audio” setting screen.**
 - Refer to *Displaying the “Audio” setting screen* on page 41
- 2 **Touch [Rear Speaker] to switch “On” or “Off”.**
 - ❑ If “Off” is selected, the rear speaker adjustment is not available in “Speaker Level”, “Time Alignment” and “Crossover”.

Setting the subwoofer output

This product is equipped with a subwoofer output mechanism, which can be turned on or off. The default setting is “On”.

- 1 **Display the “Audio” setting screen.**
 - Refer to *Displaying the “Audio” setting screen* on page 41
- 2 **Touch [Subwoofer] to switch “On” or “Off”.**
 - ❑ If “Off” is selected, the rear speaker adjustment is not available in “Speaker Level”, “Time Alignment” and “Crossover”.

Audio adjustments

Adjusting the cutoff frequency value

You can adjust the cutoff frequency value of each speaker. The following speakers can be adjusted:

Front, Rear, Subwoofer

- "Rear" is available only when "Rear Speaker" is set to "On".
- Refer to *Setting the rear speaker output* on page 41
- "Subwoofer" is available only when "Subwoofer" is set to "On".

➔ Refer to *Setting the subwoofer output* on page 41

1 Display the "Audio" setting screen.

➔ Refer to *Displaying the "Audio" setting screen* on page 41

2 Touch [Crossover] or [Subwoofer Settings].

3 Touch [<] or [>] to switch the speaker.

4 Drag the graph line to set the cutoff position.

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

The following items can also be set.

● [Phase < >]

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.

Selecting the listening position

You can select a listening position that you want to make as the centre of sound effects.

The default setting is "Off".

1 Display the "Audio" setting screen.

➔ Refer to *Displaying the "Audio" setting screen* on page 41

2 Touch [Listening Position].

3 Touch the desired position to change the listening position.

The following items are available:

Off, Front-L, Front-R, Front, All.

Adjusting the speaker output levels finely

Fine adjustments of the speaker output level can be made by listening to audio output.

1 Display the "Audio" setting screen.

➔ Refer to *Displaying the "Audio" setting screen* on page 41

2 Touch [Speaker Level].

3 Touch [<] or [>] to select the listening position if necessary.

The following items are available:

Off, Front-L, Front-R, Front, All.

The default setting is "Off".

If you change the setting for the listening position, the output levels of all the speakers will change according to the setting.

4 Touch [<] or [>] to adjust the speaker output level.

"-24" dB to "10" dB is displayed as the level to be corrected is increased or decreased.

The following items are available:

Front Left, Front Right, Rear Left, Rear Right, Subwoofer

If the Auto EQ measurement has been done, the result of the Auto EQ measurement will be applied by touching [Apply Auto EQ] (the results are also applied to some settings simultaneously).

Adjusting the time alignment

By adjusting the distance from each speaker to the listening position, time alignment is able to correct the time required for sound to reach the listening position.

1 Measure the distance between the head of the listener and each speaker unit.

2 Display the "Audio" setting screen.

➔ Refer to *Displaying the "Audio" setting screen* on page 41

3 Touch [Time Alignment].

4 Touch [<] or [>] to select the listening position if necessary.

The following items are available:

Off, Front-L, Front-R, Front, All.

The default setting is "Off".

If you change the listening position setting, the distance value of all the speakers will change in conjunction with the setting.

5 Touch [<] or [>] to input the distance between the selected speaker and the listening position.

The following items are available:

Front Left, Front Right, Rear Left, Rear Right, Subwoofer

You can input the value between 0 cm and 500 cm.

The distance can be adjusted manually only when the listening position setting is set to "Front-L" or "Front-R".

If the Auto EQ measurement has been done, the result of the Auto EQ measurement will be applied by touching [Apply Auto EQ] (the results are also applied to some settings simultaneously).

▪ If you touch [TA On], the time alignment is turned off mandatorily.

Using the equaliser

Recalling equaliser curves

There are multiple equalizer curves that you can easily recall at any time. The equalizer curves you can recall are as follows:

S, Bass, Powerful, Natural, Vocal, Flat, Custom1 and Custom2

The default setting is "Powerful".

1 Display the "Audio" setting screen.

➔ Refer to *Displaying the "Audio" setting screen* on page 41

2 Touch [Graphic EQ].

3 Touch the equalizer curve name.

Customising the equaliser curves

If the preset equalizer curve other than "Custom1" or "Custom2" is modified, the equalizer curve settings in "Custom1" will be overwritten.

If the equalizer curve stored in "Custom1" or "Custom2" is modified, each stored curve will be overwritten.

1 Display the "Audio" setting screen.

➔ Refer to *Displaying the "Audio" setting screen* on page 41

2 Touch [Graphic EQ].

3 Select a curve that you want to use as the basis of customising.

4 Touch the frequency for which you want to adjust the level.

If you touch "Custom1" or "Custom2", recall the equalizer curve currently stored in "Custom1" or "Custom2".

Audio adjustments

- ❑ If you trail a 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.

Setting the auto-adjusted equaliser

You can set the auto-adjusted equalizer to suit the vehicle's acoustics. To use this function, the Auto EQ measurement must be done in advance.

- ➔ Refer to *Adjusting the equaliser curve automatically (Auto EQ)* on page 43

The default setting is "Off".

1 Display the "Audio" setting screen.

- ➔ Refer to *Displaying the "Audio" setting screen* on page 41

2 Touch [Auto EQ&TA] to switch "On" or "Off".

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 an 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 as quiet a place as possible, with the vehicle engine and air conditioning switched off. Also, cut

power to 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 another microphone 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 cut-off 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 delays occur.
 - The LPF on active subwoofers or external amps delays 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.

- ❑ Auto EQ changes the audio settings as follows:
 - The fader/balance settings return to the centre position.
- ➔ Refer to *Using fader/balance adjustment* on page 41 — "Mute Level" is set to "Off".
- ➔ Refer to *Switching sound muting/attenuation* on page 41
- ❑ Previous settings for Auto EQ will be overwritten.

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

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

- ❑ If driving restrictions are detected during measurement, 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 Turn the source off.

- ➔ Refer to *Selecting a source* on page 10

6 Display the "Audio" setting screen.

- ➔ Refer to *Displaying the "Audio" setting screen* on page 41

7 Touch [A-EQ&TA Measurement].

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

Plug the microphone into the auto EQ microphone input jack on this product.

- ➔ Refer to *Checking part names and functions* on page 6
- ❑ Use an extension cable (sold separately) if the cord of the Microphone (sold separately) is not long enough.

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

10 Touch [Start].

A 10-second countdown starts.

- ❑ The Bluetooth connection is disconnected before the process starts.

11 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 the Auto EQ measurement begins.

12 Wait until the measurement is completed.

When Auto EQ is completed, a message is displayed.

- ❑ The measurement time varies depending on the type of vehicle.

- To stop the measurement, touch [Stop].

13 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.

Theme menu

Displaying the “Theme” setting screen

- 1 Press the **⏏** button.
- 2 Touch **[⏏]**, and then **[⏏]**.

Selecting the wallpaper

The wallpaper can be selected from some preset items. Furthermore, you can set your original pictures.

- 1 **Display the “Theme” screen.**
 - Refer to *Displaying the “Theme” setting screen* on page 44
- 2 Touch **[Background]**.
- 3 Touch **[Home]** or **[AV]** to switch the screen displays.

The setting contents can be memorized separately for the AV operation screen and the top menu screen.

- 4 **Touch the item.**
 - Preset displays: Selects the desired preset background display.
 - **[⏏]** (custom): Displays the background display image imported from the external storage device.
 - Refer to *Changing to the wallpaper stored on the external storage device* on page 44
 - **[⏏]** (off): Hides the background display.

Changing to the wallpaper stored on the external storage device

⚠ CAUTION

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

- Background display image must be used within the following formats.
 - 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

- 1 **Set the external storage device.**
 - Refer to *Inserting and ejecting an SD memory card* on page 8
 - Refer to *Plugging and unplugging a USB storage device* on page 8
- 2 **Display the “Theme” screen.**

- 3 Refer to *Displaying the “Theme” setting screen* on page 44
- 3 **Touch [Background].**
- 4 **Touch [⏏].**
- 5 **Touch the desired external storage device.**
- 6 **Touch the image.**

Setting the illumination colour

The illumination colour can be selected from some preset colors. Furthermore, the illumination can be switched between these colors in order.

Selecting the colour from the preset colours

You can select an illumination colour from the colour list.

- 1 **Display the “Theme” screen.**
 - Refer to *Displaying the “Theme” setting screen* on page 44
- 2 **Touch [Illumination].**
- 3 **Touch the colour.**
 - Coloured keys: Selects the desired preset colour.
 - **[⏏]** (custom): Displays the screen to customise the illumination colour.
 - Refer to *Creating a user-defined colour* on page 44
 - **[⏏]** (rainbow): Shifts gradually between the preset colors in sequence.

Creating a user-defined colour

You can create a user-defined colour. The created colour is stored, and you can select the colour when setting the illumination colour the next time.

- 1 **Display the “Theme” screen.**
 - Refer to *Displaying the “Theme” setting screen* on page 44
- 2 **Touch [Illumination].**
- 3 **Touch [⏏].**
- 4 **Drag the colour bar to adjust the colour tone.**
 - You can also adjust the colour tone by touching **[◀]** or **[▶]**.
- 5 **Touch and hold [Memo] to store the customised colour in the memory.**

The customised colour is stored in the memory.

The set colour will be recalled from the memory the next time you touch the same key.

Selecting the theme colour

- 1 **Display the “Theme” screen.**
 - Refer to *Displaying the “Theme” setting screen* on page 44
- 2 **Touch [Theme].**
- 3 **Touch the colour.**
 - You can preview the top menu screen or the AV operation screen by touching **[Home]** or **[AV]** respectively.

Selecting the style of the clock

- 1 **Display the “Theme” screen.**
 - Refer to *Displaying the “Theme” setting screen* on page 44
- 2 **Touch [Clock].**
- 3 **Touch the item.**
 - Preset images: Selects the desired preset style for the clock.
 - **[⏏]** (off): Hides the clock display.

Changing the preinstalled splash screen

You can change the splash screen to other images preinstalled in this product.

- 1 **Display the “Theme” screen.**
 - Refer to *Displaying the “Theme” setting screen* on page 44
- 2 **Touch [Splash Screen].**
- 3 **Touch the item.**
 - Preset images: Selects the desired preset splash screen image.
 - **[⏏]** (custom): Displays the splash screen image imported from the external storage device.
 - Refer to *Changing to the splash screen stored on the external storage device* on page 45

Theme menu

Changing to the splash screen stored on the external storage device

⚠ CAUTION

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

1 Set the external storage device.

☞ Refer to *Inserting and ejecting an SD memory card* on page 8

☞ Refer to *Plugging and unplugging a USB storage device* on page 8

2 Display the "Theme" screen.

☞ Refer to *Displaying the "Theme" setting screen* on page 44

3 Touch [Splash Screen].

4 Touch .

5 Touch the desired external storage device.

6 Touch the image.

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.

- ❑ 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:

- ① 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.

☞ Refer to *Inserting and ejecting an SD memory card* on page 8

☞ Refer to *Plugging and unplugging a USB storage device* on page 8

2 Display the "Theme" screen.

☞ Refer to *Displaying the "Theme" setting screen* on page 44

3 Touch [Export].

4 Touch the item you want to export.

The following items are available:

Illumination, Theme, Splash Screen, Select All

5 Touch [Export].

Importing "Theme" settings

1 Set the external storage device.

☞ Refer to *Inserting and ejecting an SD memory card* on page 8

☞ Refer to *Plugging and unplugging a USB storage device* on page 8

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

2 Touch [Import].

Video settings

Setting up the video player

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

Displaying the "DVD/DivX Setup" screen

1 Press the button.

2 Touch , and then .

3 Touch [DVD/DivX Setup].

Setting the top-priority languages


You can assign the top-priority language to the top-priority subtitle, audio and menu in initial playback. If the selected language is recorded on the disc, subtitles, audio and menu are displayed or output in that language.

1 Display the "DVD/DivX Setup" screen

☞ Refer to *Displaying the "DVD/DivX Setup" screen* on page 45

2 Touch [Subtitle Language], [Audio Language] or [Menu Language].

3 Touch the desired language.

When you select "Others", a language code input screen is shown. Input the four-digit code of the desired language then touch .

❑ You can switch the language by touching the switch languages key during playback.

❑ The setting made here will not be affected even if the language is switched during playback using the appropriate key.

Setting the angle icon display

The angle icon can be set so it appears on scenes where the angle can be switched.

The default setting is "On".

1 Display the "DVD/DivX Setup" screen

☞ Refer to *Displaying the "DVD/DivX Setup" screen* on page 45

2 Touch [Multi Angle] to switch "On" or "Off".

Video settings

Setting the aspect ratio


There are two kinds of displays. A wide screen display has a width-to-height ratio (TV aspect) of 16:9, while a regular display has a TV aspect of 4:3. If you use a regular rear display with a TV aspect of 4:3, you can set the aspect ratio suitable for your rear display. (We recommend use of this function only when you want to fit the aspect ratio to the rear display.) The default setting is "16:9".

1 Display the "DVD/DivX Setup" screen

➔ Refer to *Displaying the "DVD/DivX Setup" screen* on page 45

2 Touch [TV Aspect].

3 Touch the item.

- **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.
- 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.

Setting parental lock

Some DVD-Video discs let you use parental lock to set restrictions so that children cannot watch violent or adult-oriented scenes. You can set the parental lock level in steps as desired.

- 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.

1 Display the "DVD/DivX Setup" screen

➔ Refer to *Displaying the "DVD/DivX Setup" screen* on page 45

2 Touch [Parental].

3 Touch [0] to [9] to input a four-digit code number.

4 Touch .

5 Touch any number between [1] to [8] to select the desired level.

- The lower the level is set, the tighter the restriction is applied.
- The default setting is "8".

6 Touch .

- We recommend to keep 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 literature 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.

Displaying your DivX VOD registration code

If you want to play DivX® VOD (video on demand) content on this product, you must first register this product with your DivX VOD content provider. You do this by generating a DivX VOD registration code, which you submit to your provider.

- Keep a record of the code as you will need it when you register this product to the DivX VOD provider.

1 Display the "DVD/DivX Setup" screen

➔ Refer to *Displaying the "DVD/DivX Setup" screen* on page 45

2 Touch [DivX® VOD].

- If a registration code has already been activated, it cannot be displayed.

3 Touch [Registration Code].

Your 10-digit registration code is displayed.

- Make a note of the code as you will need it when you deregister from a DivX VOD provider.

Displaying your DivX VOD deregistration code

A registration code registered with a deregistration code can be deleted.

1 Display the "DVD/DivX Setup" screen

➔ Refer to *Displaying the "DVD/DivX Setup" screen* on page 45

2 Touch [DivX® VOD].

3 Touch [Deregistration Code].

Your 8-digit deregistration code is displayed.

- Make a note of the code as you will need it when you deregister from a DivX VOD provider.

Automatic playback of DVDs

When a DVD disc with a DVD menu is inserted, this product will cancel the menu automatically and start playback from the first chapter of the first title.

The default setting is "Off".

- Some DVDs may not operate properly. If this function is not fully operable, turn this function off and start playback.

1 Display the "DVD/DivX Setup" screen

➔ Refer to *Displaying the "DVD/DivX Setup" screen* on page 45

2 Touch [DVD Auto Play] to switch "On" or "Off".

Setting the video signal for the rear view camera

When you connect a rear view camera to this product, select the suitable video signal setting.

The default setting is "Auto".

- You can operate this function only for the video signal input into the AV input.

1 Display the "Video Setup" screen.



2 Touch [Video Signal Setting].

3 Touch [Camera].

4 Touch the item.

The following items are available:

Auto, PAL, NTSC, PAL-M, PAL-N, SECAM.

Setting the video output format

You can switch the video output format of the rear display between PAL and NTSC.

The default setting is "PAL".

- The video output format setting has no effect on "AUX", "AV", and "iPod" sources (when the control mode is set to iPod).

Video settings

- This function is available when "Source OFF" is selected on the AV source, and a source for the rear display other than "Disc", "USB1", "USB2", and "SD" is selected.

- 1 Display the "DVD/DivX Setup" screen.
- Refer to *Displaying the "DVD/DivX Setup" screen* on page 45
- 2 Touch [Video Output Format] to switch "PAL" or "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.

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

Creating a shortcut

- 1 Display the setting menu screen.



- 2 Touch the star icon of the menu item.

The star icon for the selected menu is filled in.

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

Selecting a shortcut

- 1 Display the "Favorites" screen.



- 2 Touch the menu item.

Removing a shortcut

- 1 Display the "Favorites" screen.



- 2 Touch the favourite menu column.

The selected menu item is removed from the "Favorites" screen.

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

Other functions

Setting the time and date

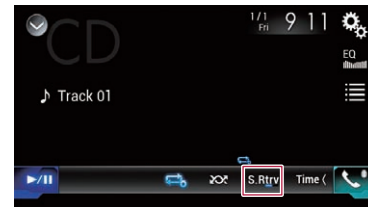
- 1 Touch the current time on the screen.
- 2 Touch one of the items to adjust.
- 3 Touch ▲ or ▼ to set the correct time and date.

- You can change the time display format to "12hour" (default) or "24hour".
- You can change the order of date display format: Day-month-year, Month-day-year, Year-month-date.

Setting the "Sound Retriever" function

The "Sound Retriever" function automatically enhances compressed audio and restores rich sound. The default setting is "Mode1".

- 1 Touch [S.Rtrv] to switch the settings.



- [S.Rtrv] (Mode1), [S.Rtrv] (Mode2): Activates the "Sound Retriever" function.
- Mode2 has a stronger effect than Mode1.
- [S.Rtrv] (Off): Deactivates the "Sound Retriever" function.

Changing the wide screen mode

The default setting is "Full", and for JPEG images is "Normal".

- JPEG 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.

- 1 Touch the following key.

Other functions



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.
 - Different settings can be stored for each video source.
 - When a video is viewed in a 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.

Storing song information to an iPod (iTunes® Tagging)

- You can store song information to the iPod when this product receives song information. The songs will appear in a playlist called "Tagged playlist" in iTunes the next time you synchronize your iPod. You can directly buy the songs via iTunes.
- The iTunes® Tagging function is available when the song information is available.
 - This function is available for the following iPod models:
 - iPhone 3G, 3GS, 4, 4s
 - iPod touch 1st, 2nd, 3rd, 4th generation
 - iPod classic 1st, 2nd generation
 - The version of iTunes must be 7.4 or higher.

1 Display the "System" setting screen.

- ➔ Refer to *Displaying the "System" setting screen* on page 37



2 Touch [AV Source Settings].

3 Touch [Tag Forwarding] to select the USB port you use.

4 Tune into the broadcast station.

- ➔ Refer to *Radio* on page 18

5 Touch the song information.

- The information on the song on air is stored in this product. When the information is acquired,  turns off and  is displayed.
- The song information for up to 50 songs can be stored in this product.
- ## 6 Connect your iPod.
- The song information is transferred to your iPod.
- When your iPod is already connected, the song information will be transferred directly to your iPod every time you touch the song information.

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



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.
 - 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.

- Compatible video types are DVD-V, Video-CD, DivX, MPEG-1, MPEG-2, and MPEG-4 only.

● USB/iPod1

- The video and sound of the USB storage device or iPod are output to the rear display.
- 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.
- 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.
- The video image and sound are output only when "AV Input" is set to "Source".

- ➔ Refer to *Starting procedure (for AV source)* on page 34.

● 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

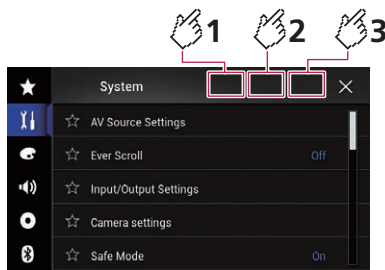
If you forgot your password, contact the nearest authorized Pioneer Service Station.

Setting the password

1 Display the "System" setting screen.

- ➔ Refer to *Displaying the "System" setting screen* on page 37

2 Touch , followed by , and then touch and hold .



3 Touch [Set Password].

4 Enter the password.

- 5 to 16 characters can be entered for a password.

5 Touch [Go].

6 Enter a password hint.

- Up to 40 characters can be entered for a hint.

7 Touch [Go].

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

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

Deleting the password

The current password and password hint can be deleted.

1 Display the "System" setting screen.

- Refer to *Displaying the "System" setting screen* on page 37

2 Touch 1, followed by 2, and then touch and hold 3.

- Refer to *Setting the password* on page 48.

3 Touch [Clear Password].

4 Touch [Yes].

5 Touch [OK].

6 Enter the current password.

7 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. Various methods are used to clear user data.

Method 1: Remove the vehicle battery

- Some of the settings and recorded contents will not be reset.

Method 2: Restore the default settings from the "System" menu

- Refer to *Restoring the default settings* on page 49.

Method 3: Press the RESET button

- Refer to *Resetting the microprocessor* on page 5
- Some of the settings and recorded contents will not be reset.

Restoring the default settings

⚠CAUTION

Do not turn off the engine while restoring the settings.

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

1 Display the "System" setting screen.

- Refer to *Displaying the "System" setting screen* on page 37

2 Touch [AV Source Settings].

3 Touch [Restore Settings].

A message confirming whether to initialise the settings appears.

4 Touch the item you want to initialise.

- **All Settings**
Almost all settings or recorded content returns to the default.
 - **Audio Settings**
 This setting is available when the source is turned off.
 - **Theme Settings**
 - **Bluetooth Settings**
- #### 5 Touch [Restore].

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.
- The rear view camera image is displayed with no camera connection and the wrong camera polarity setting.
 - Press and hold the MUTE button 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 cancelled.

- 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**Dialling is impossible because the touch panel keys for dialling 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 the Application screen**A black screen is displayed.**

- While operating an application, the application was ended on the smartphone side.
 - Press the  button 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.

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 authorized 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

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

- 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.

Appendix

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.

iTunes tagging

Error-8D

- Built-in FLASH ROM encountered an error.
 - Turn the ignition switch to OFF and then to ON.

Tag store failed.

- Tag information cannot be stored in this product.
 - Try again.

Already stored.

- This tag information is already stored in memory.
 - Tag information can only be saved once for any given song. Tag information cannot be saved for the same song more than once.

Memory full. Connect iPod.

- The tag information is successfully stored. The flash memory of this product has become full.
 - The tag information on this product is transferred to the iPod automatically when an iPod is connected.

Memory full. Tags not stored. Connect iPod.

- This product's flash memory used as the temporary storage area is full.
 - The tag information on this product is transferred to the iPod automatically when an iPod is connected.

iPod full. Tags not transferred.

- Memory used for tag information on the iPod is full.
 - Synchronize the iPod with iTunes and clean up the tagged playlist.

Tag transfer failed. Reconnect your iPod.

- This product's tag information cannot transfer to the iPod.
 - Check the iPod and try again.

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.

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.

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 GPS signals are received and 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.

Android Auto cannot connect right now. When safe to do so, please 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 a 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.

Appendix

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 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 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 back 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) in any location with high temperatures.
- Depending on the kind of the external storage device (USB, SD) you use, this product may not recognize 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) with complex folder hierarchies.

Appendix

- Operations may vary depending on the kind of an external storage device (USB, SD).
- 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* on page 58
- 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 devices

- For details about USB storage device compatibility with this product, refer to *Specifications* on page 58.
- 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.
- For a USB storage device that plays music files alone, the playback or search sequence with this product may be different from that of the 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 46.
- For details on the DivX video versions that can be played on this product, refer to *Specifications* on page 58.
- 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

File system: ISO9660 level 1.ISO9660 level 2.Romeo, Joliet.UDF 1.02/1.50/2.00/2.01/2.50

Maximum number of folders: 700

Maximum number of files: 999

Playable file types: MP3, WMA, AAC, DivX, MPEG1, MPEG2, MPEG4

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

File system: ISO9660 level 1.ISO9660 level 2.Romeo, Joliet.UDF 1.02/1.50/2.00/2.01/2.50

Maximum number of folders: 700

Maximum number of files: 3 500

Playable file types: MP3, WMA, AAC, DivX, MPEG1, MPEG2, MPEG4

USB storage device/SD memory card

File system: FAT16/FAT32/NTFS

Maximum number of folders: 1 500

Maximum number of files: 15 000

Playable file types: MP3, WMA, AAC, WAV, FLAC, H.264, MPEG-2, MPEG-4, WMV, FLV, MKV, JPEG

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

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

File extension: .mp3
Bit rate: 8 kbps to 320 kbps (CBR), VBR
Sampling frequency: 16 kHz to 48 kHz (32 kHz, 44.1 kHz, 48 kHz for emphasis)
ID3 tag: ID3 tag Ver. 1.0, 1.1, 2.2, 2.3

USB storage device/SD memory card

File extension: .mp2, .mp3, .m2a, .mka
Bit rate: 8 kbps to 320 kbps (CBR), VBR
Sampling frequency: 8 kHz to 48 kHz
ID3 tag: ID3 tag Ver. 1.0, 1.1, 2.2, 2.3, 2.4

WMA compatibility

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

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

File extension: .wma
Bit rate: 5 kbps to 320 kbps (CBR), VBR
Sampling frequency: 8 kHz to 48 kHz

USB storage device/SD memory card

File extension: .wma
Bit rate: 5 kbps to 320 kbps (CBR), VBR
Sampling frequency: 8 kHz to 48 kHz

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.

USB storage device/SD memory card

File extension: .wav
Format: Linear PCM (LPCM)
Sampling frequency: 16 kHz to 48 kHz
Quantization bits: 8 bits and 16 bits

AAC compatibility

- This product plays back AAC files encoded by iTunes.

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

File extension: .m4a
Bit rate: 8 kbps to 320 kbps (CBR)
Sampling frequency: 8 kHz to 44.1 kHz

USB storage device/SD memory card

File extension: .aac, .adts, .mka, .m4a
Bit rate: 8 kbps to 320 kbps (CBR)
Sampling frequency: 8 kHz to 48 kHz

FLAC compatibility

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

USB storage device/SD memory card

File extension: .flac, .ogg
Bit rate: 8 kbps, 16 kbps, 24 kbps
Sampling frequency: 8 kHz to 48 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

File extension: .avi, .divx
Profile (DivX version): Home Theater Ver. 3.11/Ver. 4.x/Ver. 5.x/Ver. 6.x
Compatible audio codec: MP3, Dolby Digital
Bit rate (MP3): 8 kbps to 320 kbps (CBR), VBR
Sampling frequency (MP3): 16 kHz to 48 kHz (32 kHz, 44.1 kHz, 48 kHz for emphasis)
Maximum image size: 720 pixels × 576 pixels
Maximum file size: 4 GB

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: MPEG-4/H.264/H.263/Xvid
Compatible audio codec: Linear PCM (LPCM)/MP3/AAC

Maximum resolution: 720 pixels × 480 pixels
Maximum Frame rate: 30 fps
Maximum file size: 4 GB
Maximum playback time: 150 minutes

.mp4

Compatible video codec: MPEG-4/H.264/H.263
Compatible audio codec: MP3/AAC
Maximum resolution: 720 pixels × 480 pixels
Maximum Frame rate: 30 fps
Maximum file size: 4 GB
Maximum playback time: 150 minutes

.3gp

Compatible video codec: MPEG-4/H.264/H.263
Compatible audio codec: AAC
Maximum resolution: 720 pixels × 480 pixels
Maximum Frame rate: 30 fps
Maximum file size: 4 GB
Maximum playback time: 150 minutes

.mkv

Compatible audio codec: MPEG-4/H.264/VC-1/Xvid
Compatible audio codec: MP3/AAC/Vorbis
Maximum resolution: 720 pixels × 480 pixels
Maximum Frame rate: 30 fps
Maximum file size: 4 GB
Maximum playback time: 150 minutes

.mov

Compatible video codec: MPEG-4/H.264/H.263
Compatible audio codec: MP3/AAC
Maximum resolution: 720 pixels × 480 pixels
Maximum Frame rate: 30 fps
Maximum file size: 4 GB
Maximum playback time: 150 minutes

.f4v

Compatible video codec: H.264/H.263
Compatible audio codec: MP3/AAC
Maximum resolution: 720 pixels × 480 pixels
Maximum Frame rate: 30 fps
Maximum file size: 4 GB
Maximum playback time: 150 minutes

.wmv

Compatible video codec: WMV/VC-1
Compatible audio codec: WMA
Maximum resolution: 720 pixels × 480 pixels
Maximum Frame rate: 30 fps
Maximum file size: 4 GB
Maximum playback time: 150 minutes

.asf

Compatible video codec: WMV/VC-1

Appendix

Compatible audio codec: WMA
Maximum resolution: 720 pixels × 480 pixels
Maximum Frame rate: 30 fps
Maximum file size: 4 GB
Maximum playback time: 150 minutes

.flv

Compatible video codec: H.264
Compatible audio codec: MP3/AAC
Maximum resolution: 720 pixels × 480 pixels
Maximum Frame rate: 30 fps
Maximum file size: 4 GB
Maximum playback time: 150 minutes

.vob

Compatible video codec: H.264/MPEG-2
Compatible audio codec: Linear PCM (LPCM)/MP3/AAC
Maximum resolution: 720 pixels × 480 pixels
Maximum Frame rate: 30 fps
Maximum file size: 4 GB
Maximum playback time: 150 minutes

Bluetooth



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SDHC



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WMA/WMV

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FLAC

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DivX



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

- ☞ Refer to *Displaying your DivX VOD registration code* on page 46

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™

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Android Auto



Android Auto is a trademark of Google Inc.

MIXTRAX

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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.

Appendix

- 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 and iPod



"Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod or iPhone, respectively, 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 iPod or iPhone may affect wireless performance.

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

Lightning

Lightning is a trademark of Apple Inc.

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

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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 Apple CarPlay logo means that a vehicle user interface meets Apple performance standards. Apple is not responsible for the operation of this vehicle or its compliance with safety and regulatory standards. Please note that the use of this product with iPhone or iPod may affect wireless performance.

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



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MHL

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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 licences

For details about the open source licences 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* on page 58.

- 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 - 14.4 V allowable)
Earthing system	Negative type
Maximum current consumption	10.0 A
Dimensions (W × H × D):	
DIN	
Chassis	178 mm × 100 mm × 157 mm
Nose	188 mm × 118 mm × 27 mm
D	
Chassis	178 mm × 100 mm × 164 mm
Nose	171 mm × 97 mm × 20 mm
Weight	2.2 kg

Display

Screen size/aspect ratio	6.95 inch wide/16:9 (effective display area: 156.6 mm × 81.6 mm)
Pixels	1 152 000 (2 400 × 480)
Display method	TFT Active matrix driving
Colour system	PAL/NTSC/PAL-M/PAL-N/SECAM compatible
Durable temperature range:	
Power off	-20 °C to +80 °C

Audio

Maximum power output	50 W × 4
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
HPF:	
Frequency	50 Hz/63 Hz/80 Hz/100 Hz/125 Hz/160 Hz/200 Hz
Slope	-6 dB/oct, -12 dB/oct, -18 dB/oct
Subwoofer (mono):	
Frequency	50 Hz/63 Hz/80 Hz/100 Hz/125 Hz/160 Hz/200 Hz
Slope	-6 dB/oct, -12 dB/oct, -18 dB/oct
Gain	-24 dB to +10 dB
Phase	Normal/Reverse
Time alignment	0 to 200 step (2.5 cm/step)

DVD drive

System	.....DVD-Video, VCD, CD, MP3, WMA, AAC, DivX, MPEG player
Region number	.....2
Usable discs	..DVD-VIDEO, VIDEO-CD, CD, CD-R, CD-RW, DVD-R, DVD-RW, DVD-RDL
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 Vp-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, Ver.4.X, Ver.5.X, Ver.6.X : .avi, .divx
MPEG video decoding format	..... MPEG-1: mpg, mpeg, dat
MPEG-2 PS: mpg, mpeg	
MPEG-4 Part2 (Visual), MS MPEG-4 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) device, iPod (AudioClass, HID Class) device
File system	..... FAT16, FAT32, NTFS
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	.....WMA10 Std, WMA10 Pro, WMA9 Lossless
AAC decoding format	.....MPEG-2 AAC-LC, MPEG-4 AAC-LC
WAV signal format	..... Linear PCM
FLAC decoding format	.....Ver. 1.3.0 (Free Lossless Audio Codec)
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)
JPEG decoding format	.....JPEG

SD

Compatible physical format	..... Version 2.0
File system	..... FAT16, FAT32, NTFS
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	.....WMA10 Std, WMA10 Pro, WMA9 Lossless
AAC decoding format	.....MPEG-2 AAC-LC, MPEG-4 AAC-LC
WAV signal format	..... Linear PCM
FLAC decoding format	..... Ver. 1.3.0 (Free Lossless Audio Codec)
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)
JPEG decoding format	.....JPEG

Bluetooth

Version	.....Bluetooth 3.0 + EDR certified
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 108.0 MHz
Usable sensitivity	..... 11 dBf (0.8 μ V/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	..... 25 μ V (S/N: 20 dB)
Signal-to-noise ratio	.....62 dB (IEC-A network)

LW tuner

Frequency range	..... 153 kHz to 281 kHz
Usable sensitivity	..... 28 μ V (S/N: 20 dB)
Signal-to-noise ratio	.....62 dB (IEC-A network)

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

<http://www.pioneer.eu>

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

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