

Pioneer

Operation Manual

DVD RDS AV RECEIVER

AVH-X8700BT

English

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. 

Handbrake interlock

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.

To ensure safe driving




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.

Precaution


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

If you attempt to watch video image while driving, the warning “**Viewing of front seat video source while driving is strictly prohibited.**” will appear on the screen. To watch video image on this display, stop the vehicle in a safe place and apply the handbrake. Please keep the brake pedal pushed down before releasing the handbrake. 

When using a display connected to V OUT

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


WARNING

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

To avoid battery exhaustion

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

WARNING

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


Rear view camera

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

WARNING


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

CAUTION

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


Handling the SD card slot

CAUTION

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

Handling the USB connector

CAUTION

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

In case of trouble

Should this product fail to operate properly, contact your dealer or nearest authorised Pioneer Service Station.

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.

About this product

- This product does not work correctly in areas other than Europe. The RDS (Radio Data System) function operates only in areas with FM stations broadcasting RDS signals. The RDS-TMC service can also be used in the area where there is a station that broadcasts the RDS-TMC signal.
- The Pioneer CarStereo-Pass is for use only in Germany.

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

- 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:

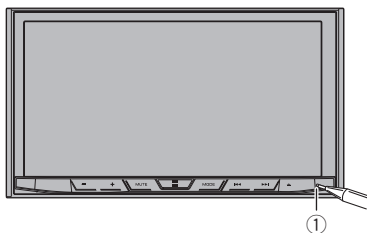
- Prior to using this product for the first time after installation.
- If this product fails to operate properly.
- If there appears to be problems with the operation of the system.

1 Turn the ignition switch OFF.

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

Settings and recorded contents are reset to the factory settings.

Precaution



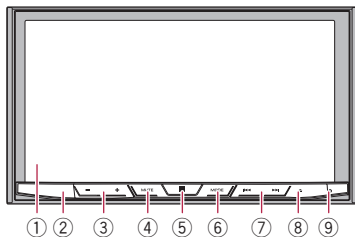
- ① RESET button

About this manual

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

Checking part names and functions

This chapter gives information about the names of the parts and the main features using the buttons.



① LCD screen

② Remote control sensor

- The remote control CD-R33 (sold separately) is available.

For details concerning operations, see the remote control manual.

③ VOL (+/-) button

Press to adjust the AV (Audio and Video) source volume.

④ MUTE button

Press to mute. Press again to unmute.

⑤ HOME button

- Press to display the Top menu screen.
 - ➔ For details of the operations, refer to *How to use the screens* on page 20.
- Press and hold to activate the voice recognition function.
 - ➔ For details, refer to *Using the voice recognition function* on page 37.

⑥ MODE button

- Press to switch between the Application screen and the AV operation screen.
 - If the display cannot switch from the AV operation screen to the Application screen when the **MODE** button is pressed, the display will turn off.
 - ➔ For details of the operations, refer to *How to use the screens* on page 20.
- Press and hold to turn the display off when the Application screen is available.
 - ➔ For details, refer to *Turning off the display* on page 18.

⑦ TRK button

Press to perform manual seek tuning, fast forward, reverse and track search controls.

⑧ ▲ button

⑨ RESET button

- ➔ For details of the operations, refer to *Resetting the microprocessor* on page 12.

⑩ Auto EQ microphone input jack

Use to connect a microphone for acoustical measurement (sold separately).

⑪ Disc-loading slot

Insert a disc to play.

- ➔ For details, refer to *Inserting and ejecting a disc* on page 16.

⑫ SD card slot

- ➔ For details, refer to *Inserting and ejecting an SD memory card* on page 17. □

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.


Basic operation

- After the front panel has been detached, the attaching plate will move back to its original position automatically. Be careful not to let hands or other objects get caught behind the monitor as it is moving back.
- Please make sure that the front panel is in its original position while the vehicle is in motion. It is dangerous to drive with the front panel sticking out.
- Do not place beverages or other objects on top of the front panel while it is fully open.

Important

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

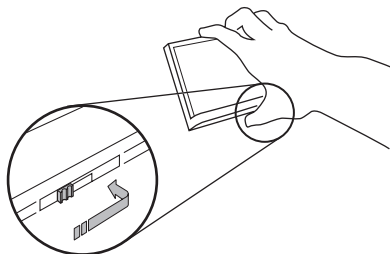
Removing the front panel

- 1 Press the  button.
- 2 Touch the following key.



The front panel automatically slides toward you.

- 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.

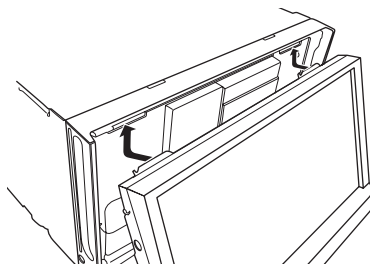


- 4 Put the front panel into the provided protective case for safe keeping.

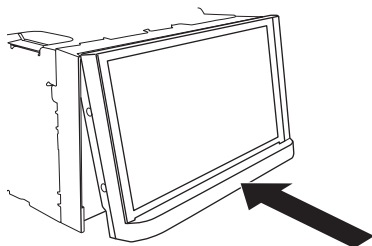
Attaching the front panel

- 1 Slide the front panel into the top of the unit 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. If the LCD panel is left open, it may result in injury in the event of an accident.

! CAUTION

- Do not open or close the LCD panel by force. This 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. Doing so may break this product. 

Adjusting the LCD panel angle

- 1 Press the **▲** button.

- 2 Touch the following keys to adjust the angle of the LCD panel.



Laying the panel down.




Returning the panel to the upright position.

- 3 Touch the following key.



Returns to the previous screen.

- The adjusted angle of the LCD panel will be memorised and the LCD panel will automatically return to that angle the next time the LCD panel is opened or closed. 

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.

Basic operation

2 Touch the following key.



Opens the LCD panel.

3 Insert a disc into the disc-loading slot.

The disc is loaded, and the LCD panel closes.

Ejecting a disc

1 Press the ▲ button.

2 Touch the following key.



The LCD panel opens, and the disc is ejected.

3 Remove the disc, and press the ▲ button.

The LCD panel closes.

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.

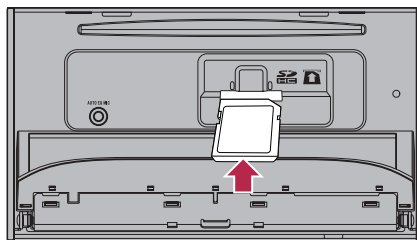
2 Touch the following key.



Opens the LCD panel.

3 Insert an SD memory card into the SD card slot.

Insert it with the label surface face-up and press the card until it clicks and completely locks.



4 Press the ▲ button.

The LCD panel closes.

Ejecting an SD memory card

1 Press the ▲ button.

2 Touch the following key.



Opens the LCD panel.

3 Press the middle of the SD memory card gently until it clicks.

The SD memory card is ejected.

4 Pull the SD memory card out straight.

5 Press the ▲ button.

The LCD panel closes.

Connecting and disconnecting an iPod

Connecting your iPod

- ➔ For details of the connections, refer to the Installation Manual.

Disconnecting your iPod

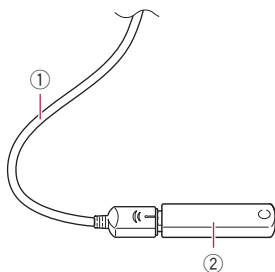
- Pull out the cables after confirming that no data is being accessed.

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.

Plugging in a USB storage device

- Plug a USB storage device into the USB cable.



- ① USB cable
- ② USB storage device

Unplugging a USB storage device

- Pull out the USB storage device after checking that no data is being accessed.

Startup and termination

1 Start the engine to boot up the system.

After a short pause, the splash screen comes on for a few seconds.

2 Turn off the vehicle engine to terminate the system.

This product is also turned off.

On first-time startup

When you use this product for the first time, select the language that you want to use.

1 Start the engine to boot up the system.

After a short pause, the splash screen comes on for a few seconds.

The “**Select Program Language**” screen appears.

2 Touch the language that you want to use on screen.

3 Touch the following key.



Displays the “**Smartphone Setup**” screen.


4 Touch the item you want to set.

- ⇒ For details, refer to *Information on the connections and functions for each device* on page 41.

5 Touch the following key.



Displays the Top menu screen.

- If you touch , the display returns to the previous screen.

Regular startup

● Start the engine to boot up the system.

After a short pause, the splash screen comes on for a few seconds.

- The screen shown will differ depending on the previous conditions.
- Enter the password for the anti-theft function if the password entry screen appears.

Turning off the display

You can turn off the display at night or when the screen is too bright.

When the Application screen is available

- **Press and hold the MODE button.**

The display turns off.

- If you touch the screen when the display is off, it reverts to the original screen.

When the Application screen is not available

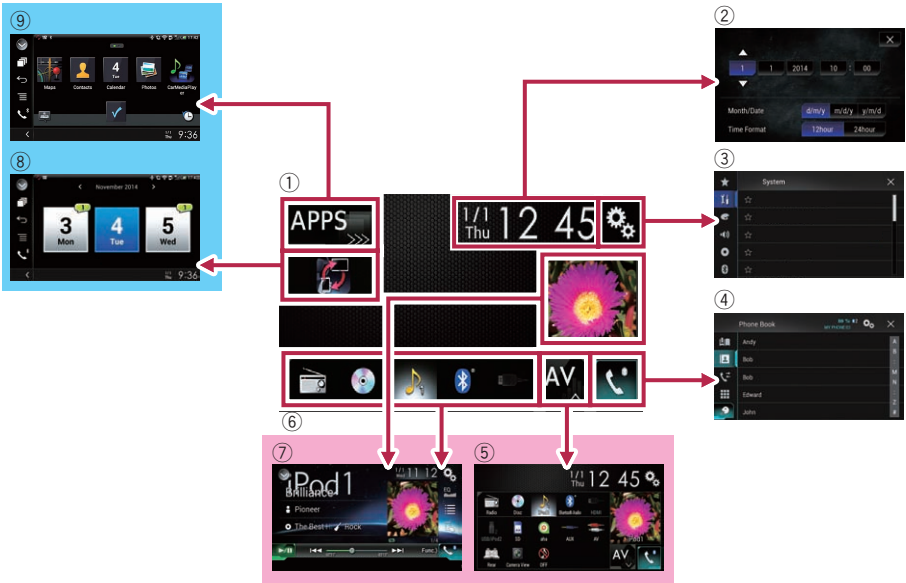
- **Press the MODE button.**

The display turns off.

- If you touch the screen when the display is off, it reverts to the original screen. □

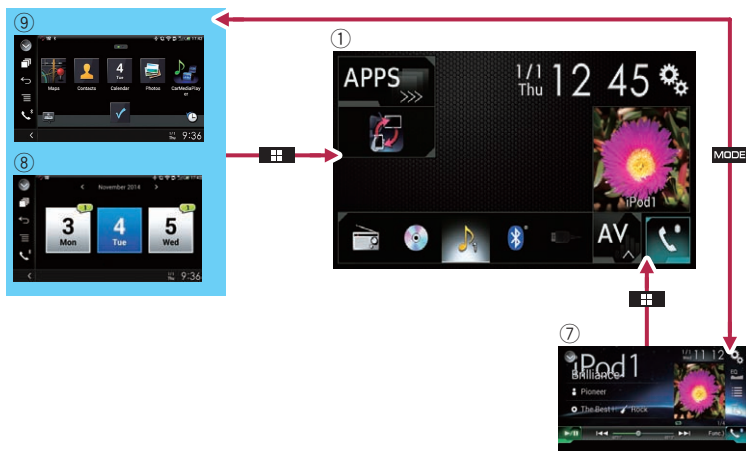
How to use the screens

Switching screens using the touch panel keys



Basic operation

Switching screens using the hardware buttons



① Top menu screen

This is the starting menu to access the desired screens and operate the various functions.

- If you press the **HOME** button, the Top menu screen is displayed.
- "APPS" is displayed when **AppRadio Mode** or **MirrorLink** mode is on.
- "Android Auto" is displayed when **Android Auto** is on.

② Time and date setting screen

You can set the time and date settings.

③ Setting menu screen

You can customise the system and audio settings, etc.

④ Phone menu screen

You can access the screen that is related to hands-free phoning.

⑤ AV source selection screen

You can select the AV source.

⑥ Favourite source icons

You can display the icons of frequently used sources by dragging the icons to the display area.

- ➔ For details of the operation, refer to *Changing the display order of source icons* on page 23.

⑦ AV operation screen

You can operate each source.

⑧ Application operation screen

You can control the iPhone or smartphone applications directly on this product.

- If applications are not available, the Application operation screen will not be displayed.

⑨ Application menu screen

This product can switch to the application menu, on which you can display and operate the application for an iPhone or a smartphone on the screen.

- If application menus are not available, the Application menu screen will not be displayed.


Supported AV source

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

- Radio (FM, MW/LW)

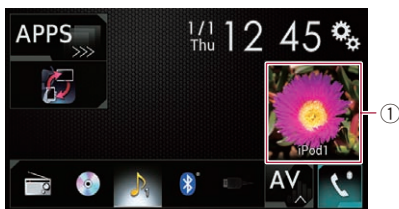
- CD
- ROM (compressed audio or video files)
- DVD-Video
- Video-CD

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

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

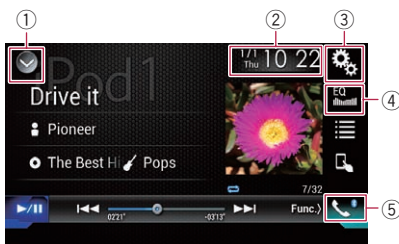
Displaying the AV operation screen

- 1 Press the HOME button to display the Top menu screen.
- 2 Touch the AV operation key.



① AV operation key

The AV operation screen appears.



① Displays the source list.

- ➔ For details, refer to *Selecting a front source on the source list* on page 22.

② Displays the Time and date setting screen.

- ➔ For details, refer to *Setting the time and date* on page 135.

③ Displays the Setting menu screen.

④ Recalls equaliser curves.

- ➔ For details, refer to *Using the equaliser* on page 117.

⑤ Displays the Phone menu screen.

- ➔ For details, refer to *Displaying the phone menu* on page 31.

Selecting a front source on the AV source selection screen

- 1 Press the HOME button to display the Top menu screen.
- 2 Touch the following key.



Displays the AV source selection screen.

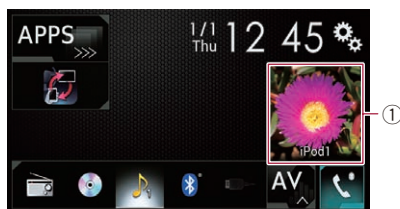
- 3 Touch the source icon you want to select.

The AV operation screen of the selected source appears.

Selecting a front source on the source list

- This function is not available during a call via this product.

- 1 Press the HOME button to display the Top menu screen.
- 2 Touch the AV operation key.



Basic operation

① AV operation key

The AV operation screen appears.

3 Touch the following key.



Displays the source list.


4 Touch the source key you want to select.

The AV operation screen of the selected source appears.

- ❑ "Camera View" is available only when "Back Camera Input" or "2nd Camera Input" is set to "On".

Selecting a rear source

You can select a source output to the rear display.

- ➔ For details of the operations, refer to *Selecting the video for the rear display* on page 138. 

Turning off the AV source

Turn off the AV source to stop playing or receiving the AV source.


1 Press the HOME button to display the Top menu screen.

2 Touch the following key.



Displays the AV source selection screen.

3 Touch [OFF].

The AV source is turned off. 

Changing the display order of source icons

You can change the display order of source icons on the AV source selection screen.

- ❑ This setting is available only when you stop your vehicle in a safe place and apply the handbrake.
- ❑ This function is not available during a call via this product.


1 Press the HOME button to display the Top menu screen.

2 Touch the following key.



Displays the AV source selection screen.

3 Touch and hold a source icon, and drag the icon to the desired position.

- ❑ If the source icon is moved, the order of the source list is also changed. 

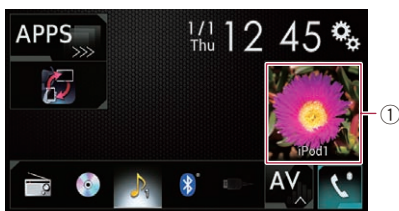
Changing the display order of source keys

You can change the display order of source keys on the source list.

- ❑ This setting is available only when you stop your vehicle in a safe place and apply the handbrake.
- ❑ This function is not available during a call via this product.

1 Press the HOME button to display the Top menu screen.

2 Touch the AV operation key.



① AV operation key

The AV operation screen appears.

3 Touch the following key.



Displays the source list.

4 Touch the following key.



The source keys can be moved.

5 Drag the source key to the desired position.

6 Touch the following key.



Returns to the previous screen.

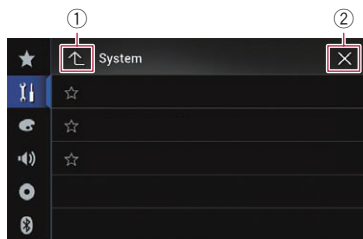
- ❑ If the source key is moved, the source icons displayed on the Top menu screen and the AV source screen are also moved. ❑

Using the touch panel

You can operate this product by touching the marks and items (touch panel keys) displayed on the screen directly with your fingers.

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

Using the common touch panel keys



- ① Returns to the previous screen.
- ② Closes the screen.

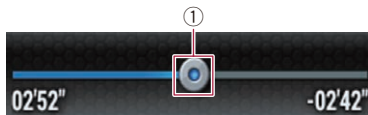
Operating list screens



- ① Touching an item on the list selects the item or narrows down the options.
- ② Appears when all characters are not displayed on the display area.
If you touch the key, the rest of the characters are scrolled for display.
- ③ Appears when items cannot be displayed on a single page only.
Drag the slider bar to view any hidden items. Also, you can drag the list to view any hidden items.

Basic operation

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 when using iPod function with an iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5, or iPod touch (5th generation).
 - ❑ This function is not available for some media or sources.

- ⑦ Switches between alphabet and numbers/symbols.
- ⑧ Switches between capital and lower case letters.

Operating the on-screen keyboard



- ① Displays the characters that are entered. If there is no text in the box, an informative guide with text appears.
- 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. Continuing to touch the key deletes all of the text.
- ⑤ Confirms the entry and proceeds to the next step.
- ⑥ Enters a space.
A space equivalent to the number of touches is inserted.

If your devices feature Bluetooth® technology, this product can be connected to your devices wirelessly. This section describes how to set up a Bluetooth connection.

For details about connectivity with the devices featuring Bluetooth wireless technology, refer to the information on our website.

- ❑ The **"Bluetooth"** menu is available only when you stop your vehicle in a safe place and apply the handbrake.

Preparing communication devices

This product has a built-in function that enables to use devices featuring Bluetooth wireless technology.

➔ For details, refer to *Notes for hands-free phoning* on page 37.

You can register and use devices that feature the following profiles with this product.

- HFP (Hands-Free Profile)
- A2DP (Advanced Audio Distribution Profile)
- SPP (Serial Port Profile)
- ❑ When this product is turned off, the Bluetooth connection is also disconnected. When the system restarts, the system automatically attempts to reconnect the previously-connected device. Even when the connection is severed for some reason, the system automatically reconnects the specified device (except when the connection is severed due to device operation). ❑

Registering your Bluetooth devices

You need to register your devices featuring Bluetooth wireless technology when you connect it to this product for the first time. A total of three devices can be registered. Two registration methods are available:

- Searching for nearby Bluetooth devices
- Pairing from your Bluetooth devices
- ❑ If three devices are already paired, **"Memory Full"** is displayed and pairing cannot be performed. In such cases, delete a paired device first.
 - ➔ For details, refer to *Deleting a registered device* on page 28.

Searching for nearby Bluetooth devices

The system searches for available Bluetooth devices near this product, displays them in a list, and registers them for connection.

- ❑ When the device is already connected, this function is inactive.

1 Activate the Bluetooth wireless technology on your devices.

- ❑ For some Bluetooth devices, no specific action is necessary to activate Bluetooth wireless technology. For details, refer to the instruction manual of your devices.
- ❑ Set the device visible to other devices.

2 Press the HOME button to display the Top menu screen.

3 Touch the following keys in the following order.



The **"Bluetooth"** screen appears.

4 Touch [Connection].

5 Touch the following key.



Starts searching.

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

- ❑ Up to 20 devices will be listed in the order that the devices are found.

Registering and connecting a Bluetooth device

6 Wait until your Bluetooth device appears in the list.

- ❑ If you cannot find the Bluetooth device that you want to connect, check that the device is waiting for a Bluetooth wireless technology connection.

7 Touch the name of the Bluetooth device you want to register.

While connecting, “**Pairing... Please wait.**” is displayed. If the connection is established, “**Paired.**” is displayed.

- ❑ If your device supports SSP (Secure Simple Pairing), a six-digit number appears on the display of this product. Touch **[Yes]** to pairing the device.
- ❑ If the connection fails, “**Error**” is displayed. In such cases, try again from the beginning.
- ❑ The PIN code is set to “0000” as the default, but can be changed.
 - ➔ For details, refer to *Entering the PIN code for Bluetooth wireless connection* on page 29.
- ❑ Once the connection is established, the device name is displayed. Touch the device name to disconnect.

After the device is successfully registered, a Bluetooth connection is established from the system.

The profile icons displayed on the registered device list screen light up as follows.



Lights up when your mobile device is successfully connected with the HFP (Hands-Free Profile).



Lights up when your audio device is successfully connected with the A2DP (Advanced Audio Distribution Profile)/AVRCP (Audio/Video Remote Control Profile).



Lights up when the Bluetooth connection is established with the SPP (Serial Port Profile).

- ❑ After pairing, the phone book registered in the device may be automatically transmitted to this product.

- If you touch the following key, you can switch the display between the device names and Bluetooth device addresses.



Switches between the device names and Bluetooth device addresses.

Pairing from your Bluetooth devices

You can register a Bluetooth device by setting this product to standby mode and requesting a connection from the Bluetooth device.

- ❑ Before registration, make sure that “**Visibility**” in the “**Bluetooth**” menu is set to “**On**”.
- ➔ For details, refer to *Switching visibility* on page 29.

1 Activate the Bluetooth wireless technology on your devices.

- ❑ For some Bluetooth devices, no specific action is necessary to activate Bluetooth wireless technology. For details, refer to the instruction manual of your devices.

2 Use the Bluetooth setting in the device to pair this product with the device.

- ❑ If a PIN code input is required, enter a PIN code. (The default PIN code is “0000”.)
When the device is successfully registered, the connection settings are made from the device.
- ❑ If registration fails, repeat the procedure from the beginning.

Connecting to a Bluetooth device automatically

If this function is set to on, a connection between your Bluetooth device and this product will take place automatically as soon as the two devices are less than a few metres apart. Initially, this function is set to on.

Registering and connecting a Bluetooth device

- If this function is set to on, a connection with the last connected Bluetooth device will be established automatically when the ignition switch is turned on.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “Bluetooth” screen appears.

3 Touch [Auto Connect] repeatedly until the desired setting appears.

- **On** (default):
Turns the automatic connection on.
- **Off**:
Turns the automatic connection off.

If your Bluetooth device is ready for a Bluetooth wireless connection, a connection to this product will automatically be established.

If connection fails, “**Bluetooth auto connection failed. Retry?**” appears.

Touch [**Yes**] to reconnect.

Deleting a registered device

When you have already registered three Bluetooth devices and you want to add another one, you must first delete one of the registered devices.

- If a registered phone is deleted, all the phone book entries and call history lists that correspond to the phone will be also cleared.

CAUTION

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

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “Bluetooth” screen appears.

3 Touch [Connection].

4 Touch the following key.



Deletes a paired device.

A confirmation message appears.

5 Touch [Yes].

The device is deleted. □

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.

To start the connection manually, carry out the following procedure.

1 Activate the Bluetooth wireless technology on your devices.

- For some Bluetooth devices, no specific action is necessary to activate Bluetooth wireless technology. For details, refer to the instruction manual of your devices.

2 Press the HOME button to display the Top menu screen.

Registering and connecting a Bluetooth device

3 Touch the following keys in the following order.



The “Bluetooth” screen appears.

4 Touch [Connection].

5 Touch the name of the device that you want to connect.

Switching visibility

This function sets whether or not to make this product visible to other devices. Initially, this function is set to on.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “Bluetooth” screen appears.

3 Touch [Visibility] repeatedly until the desired setting appears.

- **On** (default):
Turns the visibility on.
- **Off**:
Turns the visibility off.

Entering the PIN code for Bluetooth wireless connection

To connect your Bluetooth device to this product via Bluetooth wireless technology, you need to enter a PIN code on your Bluetooth device to verify the connection.

- The default code is “0000”, but you can change it with this function.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “Bluetooth” screen appears.

3 Touch [PIN Code Input].

The “PIN Code” screen appears.

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

5 Touch the following key.



Stores the PIN code in this product.



Displaying the Bluetooth address

You can check the Bluetooth address of this product.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “Bluetooth” screen appears.

3 Touch [Device Information].

The Bluetooth address is displayed.

Clearing the Bluetooth memory

CAUTION

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

- 1 Press the HOME button to display the Top menu screen.
- 2 Touch the following keys in the following order.



The “Bluetooth” screen appears.

- 3 Touch [Bluetooth Memory Clear].

- 4 Touch [Clear].

The confirmation screen appears.

- 5 Touch [OK].

The Bluetooth memory is cleared.

- If you do not want to clear the memory, touch [Cancel].

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.

- The source is turned off and the Bluetooth connection is disconnected before the process starts.

CAUTION

Never turn this product off while the software is being updated.

- 1 Press the HOME button to display the Top menu screen.

- 2 Touch the following keys in the following order.



The “Bluetooth” screen appears.

- 3 Touch [BT Software Update].

- 4 Touch [Start].

The data transfer screen is displayed.

- 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, you may be asked to specify the software version. Perform the following procedure to check the version on this unit.

- 1 Press the HOME button to display the Top menu screen.

- 2 Touch the following keys in the following order.



The “Bluetooth” screen appears.

- 3 Touch [Bluetooth Version Information].

The version of this product’s Bluetooth module appears.

Using hands-free phoning

CAUTION

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

If your mobile phone features Bluetooth technology, this product can be connected to your mobile phone wirelessly. Using this hands-free function, you can operate this product to make or receive phone calls. This section describes how to set up a Bluetooth connection and how to operate a mobile phone featuring Bluetooth technology on this product.

For details about connectivity with the devices featuring Bluetooth wireless technology, refer to the information on our website.

Displaying the phone menu

- ❑ Connect a mobile phone to this product for using hands-free phoning.
 - ➔ For details, refer to Chapter 3.
- ❑ The Phone icon is displayed on the following screens.
 - Top menu screen
 - AV operation screen
 - On the App control side bar on the **AppRadio Mode** and **MirrorLink** mode screens

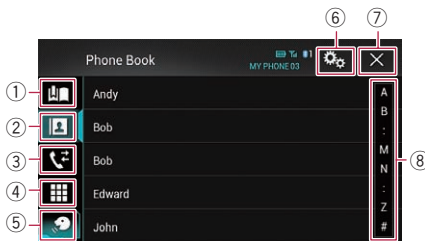
● Touch the following key.



Displays the Phone menu screen.

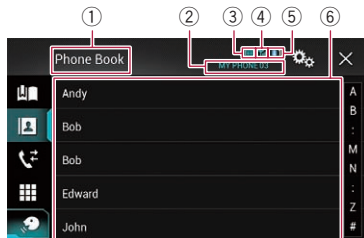
- ❑ The **"Phone Book"** screen appears when using this function for the first time. The screen of the last-used function appears from the next time.

Touch panel keys



- ① Displays the preset dial screen.
- ② Switches to the phone book list.
- ③ Switches to the missed, received and dialled call lists.
- ④ Switches the mode to enter the phone number directly.
- ⑤ Switches to the voice recognition function.
- ⑥ Displays the Setting menu screen.
- ⑦ Closes the screen.
- ⑧ Displays entries in the list by the initial character.

Reading the screen



- ① Menu title
- ② Name of the connected mobile phone
- ③ Battery status of the mobile phone
- ④ Reception status of the mobile phone
- ⑤ Indicates that a Bluetooth telephone is connected.

The list number of the connected device is displayed.
- ⑥ List display area

Making a phone call

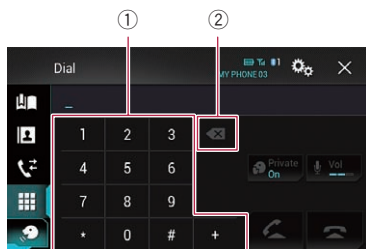
You can make a phone call in many different ways.

Direct dialling

- 1 Press the HOME button to display the Top menu screen.
- 2 Touch the following keys in the following order.



The "Dial" screen appears.



- ① Dial pad
- ② Deletes one digit. Touch and hold to delete all digits.

- 3 Touch the number keys to enter the phone number.
- 4 Touch the following key.



Makes a call.

- 5 Touch the following key.



Ends the call.

The call ends.

- ❑ You may hear a noise when you hang up the phone.

Calling a number in the phone book

After finding the number you want to call in the phone book, you can select the entry and make the call.

- ❑ The contacts on your phone will normally be transferred to this product automatically when the phone is connected. If the contacts are not transferred automatically, you can transfer the contacts using the phone menu of the mobile phone. To transfer the contacts using the phone menu of the mobile phone, set this product visible to other devices.

➔ For details, refer to *Switching visibility* on page 29.


- 1 Press the HOME button to display the Top menu screen.
- 2 Touch the following keys in the following order.



The "Phone Book" screen appears.

- 3 Touch the desired name on the list. The details screen of the phone book appears.
- 4 Touch the phone number you want to dial. The dial screen appears.

- 5 Dialling starts.

- ❑ To cancel the call, touch 

- 6 Touch the following key.



Ends the call.

The call ends.

Using hands-free phoning

Selecting a number by alphabet search mode

If many phone numbers are registered in the phone book, you can search for phone numbers by alphabet search mode.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “**Phone Book**” screen appears.

3 Drag the Initial Search Bar to find an entry by the initial character of the name.

The alphabet corresponding to the current position on the Initial Search Bar is displayed.

4 Release the Initial Search Bar at the desired alphabet.

The “**Phone Book**” entries starting with that letter (e.g. “Ben”, “Brian” and “Burt” when “B” is selected) will be displayed.

- To refine the search with a different letter, touch [**Cancel**].
- When the system language is set to Russian, the following key appears.
If you want to change the character, touch the following key until the desired character repeatedly.



Changes the character.

5 Touch an entry to display the phone number list of the entry.

The details screen of the phone book appears.

6 Touch the phone number you want to dial.

The dial screen appears.

7 Dialing starts.

- To cancel the call, touch .

8 Touch the following key.



Ends the call.

The call ends.

Dialling from the history

The most recent calls made (dialled, received and missed) are stored in the call history list. You can browse the call history list and call numbers from it.

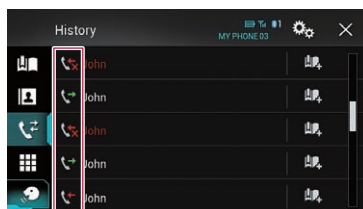
1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “**History**” screen appears.

- Depending on the type of mobile phone, some calls may not be displayed in the call history.



① Type of call history



Received calls.



Dialled calls.



Missed calls.

Using hands-free phoning

3 Touch the desired entry on the list to make a call.

The dial screen appears.

4 Dialling starts.

- To cancel the call, touch 

5 Touch the following key.



Ends the call.

The call ends.

Using the preset dial lists

You can dial a number from the preset dial list.

Registering a phone number

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

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "Phone Book" or "History" screen appears.

3 Touch the following key.



Registers the phone number to the "Preset Dial" list.

Dialling from the preset dial list

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.




The "Preset Dial" screen appears.

3 Touch the desired entry on the list to make a call.

The dial screen appears.

4 Dialling starts.

- To cancel the call, touch 

5 Touch the following key.



Ends the call.

The call ends.

Deleting a phone number

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "Preset Dial" screen appears.

3 Touch the following key.



Deletes the phone number.



Receiving a phone call

You can answer an incoming call to your mobile phone via this product.

Using hands-free phoning

Answering an incoming call

This product informs you that it is receiving a call by displaying a message and producing a ring sound.

- ❑ You can set the system to automatically answer incoming calls. If this product is not set to automatically answer incoming calls, answer the calls manually.
 - ➔ For details, refer to *Answering a call automatically* on page 35.
- ❑ The registered name appears if the phone number of the received call is already registered in “**Phone Book**”.

1 Touch the following key.



Answers an incoming call.



Rejects an incoming call.

The rejected call is recorded in the missed call history list.

- ➔ For details, refer to *Dialling from the history* on page 33.

2 Touch the following key.



Ends the call.

The call ends. ◻

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 confirm screen is minimised while talking on the phone.

1 Touch the following key.



The dial confirmation screen is minimised.

2 Touch the following key.



Displays the dial confirmation screen again.

Changing the phone settings

Answering a call automatically

This product automatically answers incoming calls to the connected mobile phone, so you can answer calls while driving without taking your hands off the steering wheel.

When “**Auto Answer**” is set to “**On**”, an incoming call will be automatically answered in 5 seconds.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “**Bluetooth**” screen appears.

3 Touch [Auto Answer] repeatedly until the desired setting appears.

- **Off** (default):
Turns the automatic answering off.
- **On**:
Turns the automatic answering on.

Switching the ring tone

You can select whether or not to use this product's ring tone.

Using hands-free phoning

- 1 Press the HOME button to display the Top menu screen.
- 2 Touch the following keys in the following order.



The "Bluetooth" screen appears.

- 3 Touch [Ring Tone] repeatedly until the desired setting appears.

- **On** (default):
Turns the ring tone on.
- **Off**:
Turns the ring tone off.

Inverting names in the phone book

When your device is connected to this product, the first and last names of your contacts may be registered to the phone book in reverse order.

You can use this function to change the order back. (Inverting the names in the phone book)

- 1 Press the HOME button to display the Top menu screen.
- 2 Touch the following keys in the following order.



The "Bluetooth" screen appears.

- 3 Touch [Invert Name].

The confirmation screen appears.

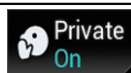
- 4 Touch [Yes].

- If the inversion fails, "Invert Name Error" appears. In such cases, try again from the beginning.
- Inverting the names of your contacts from this product does not affect the data on your mobile phone.

Setting the private mode

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

- Touch the following keys to turn private mode on or off.



Talk directly on your mobile device.



Hands-free phoning

Adjusting the other party's listening volume

To maintain good sound quality, this product can adjust the other party's listening volume. If the volume is too loud or not loud enough, use this function.

- Touch the following key.



Switches between the three volume levels.

- This function can be performed even while talking on the phone.
- Settings can be stored for each device.

Using hands-free phoning

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** and “**Mode**” in “**Smartphone Setup**” must be set to “**Android Auto**” beforehand.
 - For details, refer to *Information on the connections and functions for each device* on page 41.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys to start voice control.



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

You can use the voice recognition function in the same way as using it on the iPhone or smartphone.

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



Indicates that this product is on standby for your voice commands.



Cancels the voice recognition function.



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.
- With mobile phones, phone book transfer may not work even though your phone is paired with this product. In that case, 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. This may reduce the echo.
- With some mobile phones, even if you press the accept button on the mobile phone when a call comes in, hands-free phoning may not be performed.

- The registered name appears if the phone number of the received call is already registered in the phone book. When one phone number is registered under different names, only the phone number is displayed.
- If the phone number of the received call is not registered in the phone book, the phone number of the received call appears.

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, all entries may not be downloaded completely.
- With some mobile phones, it may not be possible to transfer all items in the phone book at one time. In this case, transfer items one by one from your mobile phone.
- Depending on the mobile phone, this product may not display the phone book correctly. (Some characters may be garbled, or the order of first and last names may be reversed.)
- If the phone book in the mobile phone contains image data, the phone book may not be transferred correctly. (Image data cannot be transferred from the mobile phone.)
- Depending on the mobile phone, phone book transfer may not be available.

iPod / iPhone or smartphone setup operation

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.
 - For details, refer to *Setting the device connection method* on page 39.
- ② Connect your device to this product.
 - For details of the connections, refer to the Installation Manual.
- ③ If necessary, connect your device to this product via Bluetooth connection.
 - For details of the Bluetooth connection, refer to Chapter 3.



Setting the device connection method

If you want to use the application for iPhone or smartphone on this product, you must select the method for connecting your device. Settings are required according to the connected device.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “**System**” screen appears.

3 Touch [Input/Output Settings].

4 Touch [Smartphone Setup].

The “**Smartphone Setup**” screen appears.

5 Configure the following settings.

- **Device:** Select the device to be connected.
- **Connection:** Select the connection method.
 - ☐ Configure the settings correctly according to the device to be connected and the connection method to be used.
 - For details, refer to *Information on the connections and functions for each device* on page 41.
 - ☐ If you change the setting, the confirmation screen appears.
 - Touch [**OK**].
 - The setting will change after the following processes are automatically executed.
 - The source is turned off.
 - **AppRadio Mode** or **MirrorLink** mode is exited.
 - The smartphone connection (USB and Bluetooth) is disconnected.
 - To cancel, touch [**Cancel**].
 - ☐ The setting cannot be changed for a while after the setting is changed.

iPod compatibility

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

Made for

- iPhone 6 Plus: iOS 8
- iPhone 6: iOS 8
- iPhone 5s: iOS 7.0.3
- iPhone 5c: iOS 7.0.3
- iPhone 5: iOS 7.0.3
- iPhone 4s: iOS 7.0.3
- iPhone 4: iOS 7.0.3
- iPhone 3GS: iOS 6.0.1
- iPod touch (5th generation): iOS 6.0.1
- iPod touch (4th 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 compatible with this product by using separately sold connector cables.
- ☐ Operation methods may vary depending on the iPod model and the software version of the iPod.
- ☐ Depending on the software version of the iPod, it may not be compatible with this product.
For details about iPod compatibility with this product, refer to the information on our website.

This manual applies to the following iPod models.

iPod with 30-pin connector

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

iPod with Lightning connector

- iPhone 6 Plus
- iPhone 6
- iPhone 5s
- iPhone 5c
- iPhone 5
- 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. ☐

AppRadio Mode Compatibility

iPod with 30-pin connector

- iPhone 4s
- iPhone 4
- iPod touch 4th generation

iPod with Lightning connector

- iPhone 6 Plus
- iPhone 6
- iPhone 5s
- iPhone 5c
- iPhone 5
- iPod touch 5th generation
- ➔ For details about Android device compatibility with this product, refer to the information on our website. ☐

MirrorLink device compatibility

- ☐ This product is compatible with **MirrorLink** version 1.0.
- ☐ Compatibility with all **MirrorLink** devices is not guaranteed.
- ➔ For details about **MirrorLink** device compatibility with this product, refer to the information on our website. ☐

iPod / iPhone or smartphone setup operation

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				
Required cable (sold separately)		Cable connection is not required.	CD-IU201V	CD-IU201S
Smartphone Setup	Device	iPhone/iPod	iPhone/iPod	iPhone/iPod
	Connection	Bluetooth	USB	USB
Bluetooth connection		Bluetooth connection is required.	—	—
Connection requirement		—	Connect to USB port 1 for using aha .	Connect to USB port 1 for using aha or AppRadio Mode .
Available source	iPod (audio)	—	✓	✓
	iPod (video)	—	✓	✓
	aha	✓	✓	✓
	AppRadio Mode	—	—	✓

iPod / iPhone with a Lightning connector				
Required cable (sold separately)		Cable connection is not required.	CD-IU52	<ul style="list-style-type: none"> • CD-IH202 • CD-IU52 • Lightning Digital AV Adapter
Smartphone Setup	Device	iPhone/iPod	iPhone/iPod	iPhone/iPod
	Connection	Bluetooth	USB	Digital AV adapter
Bluetooth connection		Bluetooth connection is required.	—	Bluetooth connection is required.
Connection requirement		—	Connect to USB port 1 for using aha .	—
Available source	iPod (audio)	—	✓	— (*1)
	iPod (video)	—	—	— (*1)
	aha	✓	✓	✓
	AppRadio Mode	—	—	✓
<p>(*1) Use AppRadio Mode to play music or videos on an iPod. For using AppRadio Mode, install the CarMedia-Player app on your iPod.</p> <p>🔗 For details about the CarMediaPlayer, refer to the information on our website.</p> <p>🔗 Refer to the CarMediaPlayer manual for more information.</p>				

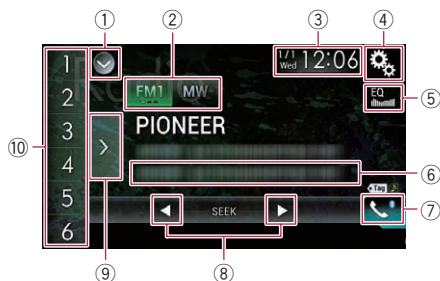
Android, MirrorLink				
Required cable (sold separately)		Cable connection is not required.	CD-MU200	CD-AH200
Smartphone Setup	Device	Others	Others	Others
	Connection	Bluetooth	USB	HDMI
	Mode	—	Android Auto/MirrorLink/Off	—
Bluetooth connection		Bluetooth connection is required.	Bluetooth connection is required for using aha or Android Auto .	Bluetooth connection is required.
Connection requirement		—	Connect to USB port 2 for using MirrorLink or Android Auto .	—
Available source	aha	✓	✓	✓
	AppRadio Mode	—	—	✓
	MirrorLink	—	✓	—
	Android Auto	—	✓ (*1)	—
Remarks		—	<ul style="list-style-type: none"> • Select "Android Auto" for "Mode" for using Android Auto. • Select "MirrorLink" for "Mode" for using MirrorLink mode. 	—
(*1) Available only when an Android Auto -compatible device is connected.				



Using the radio

You can listen to the radio using this product. This section describes operations for the radio.

Using the touch panel keys



- ① **Displays the source list.**
 - For details, refer to *Selecting a front source on the source list* on page 22.
- ② **Selects a band.**
 - For details, refer to *Selecting a band* on page 44.
- ③ **Displays the Time and date setting screen.**
 - For details, refer to *Setting the time and date* on page 135.
- ④ **Displays the Setting menu screen.**
- ⑤ **Recalls equaliser curves.**
 - For details, refer to *Using the equaliser* on page 117.
- ⑥ **Stores song information to an iPod.**
 - For details, refer to *Storing song information to an iPod (iTunes Tagging)* on page 135.
- ⑦ **Displays the Phone menu screen.**
 - For details, refer to *Displaying the phone menu* on page 31.
- ⑧ **Performs manual tuning or seek tuning.**
 - For details, refer to *Manual tuning* on page 44.
 - For details, refer to *Seek tuning* on page 44.
- ⑨ **Displays the preset channels.**

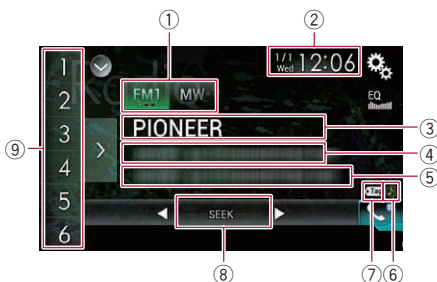
➤ For details, refer to *Selecting a preset channel from the preset channel list* on page 45.

- ⑩ **Recalls the preset channel stored to a key from memory with a single touch of the key.**

Stores the current broadcast frequency to a key for later recall by continuing to touch the key.

➤ For details, refer to *Storing broadcast frequencies* on page 45. ■

Reading the screen





- ① **Band indicator**
Shows the tuned band: FM1, FM2, FM3 or MW/LW.
- ② **Current time and date**
- ③ **Programme service name indicator**
Shows the programme service name (station name) of the current station.
 - When "MW/LW" is selected, the frequency will be displayed instead.
- ④ **Radio text display area**
Displays the radio text currently being received.
 - When "MW/LW" is selected, nothing is displayed.
- ⑤ **Song information**
Shows the title of the current song and/or the artist name for the current song (when available).
 - When "MW/LW" is selected, nothing is displayed.
- ⑥ **iTunes® tagging song status indicator**

Using the radio

Shows the status of the song information stored in this product.


- The icon is displayed on all operation screens of AV sources.

Indicator	Meaning
	Appears when the song information tag is stored in this product.
	Appears when the song information tag is being transferred to an iPod.

7 iTunes® tagging indicator

Indicates songs that are capable of iTunes tagging.

- The icon is displayed on all operation screens of AV sources.

Indicator	Meaning
	Appears when this product receives an iTunes song tag that can be stored and then downloaded to an iPod for later purchase.
	Flashes when this product is storing song tag information.

8 Frequency-seek indicator

9 Preset number indicator

- Highlights the selected preset item.

Starting procedure

1 Display the AV source selection screen.

- ➔ For details of the operations, refer to *Displaying the AV operation screen* on page 22.

2 Touch [Radio] on the AV source selection screen.



The "Radio" screen appears.

3 Use the touch panel keys on the screen to control the radio.

- ➔ For details, refer to *Using the touch panel keys* on page 43.

Selecting a band



● Touch the following key.

	Switches between the following FM bands: FM1, FM2 and FM3.
	Switches to the MW/LW band.

- This function is convenient for preparing different preset lists for each band.

Manual tuning



● Touch the following keys to tune manually.

	Moves down one step at a time.
	Moves up one step at a time.

- This function is convenient for preparing different preset lists for each band.

Seek tuning

● Touch and hold one of the following keys for about one second and then release.

	Scans frequencies until it finds a broadcast strong enough for good reception. You can cancel seek tuning by touching either key briefly.
	If you keep holding either key, you can skip broadcasting frequencies. Seek tuning will start when you release the key.



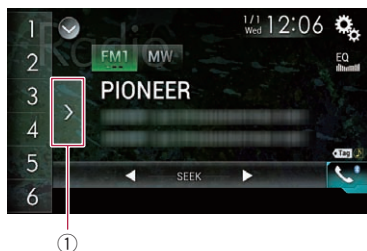
Using the radio

Selecting a preset channel from the preset channel list

Once you have stored broadcast channels, you can easily recall preset channels from memory with a single touch of a key.

➔ For details, refer to *Storing broadcast frequencies* on page 45.

1 Touch the preset channel list display key.



① Preset channel list display key

2 Touch the item on the list ("1" to "6") to switch to a channel registered as a preset channel.

- ❑ If you touch the preset channel list display key while the preset channel list is displayed, the list disappears and the preset tuning keys are displayed. ❑

Storing broadcast frequencies

With a touch of any of the preset tuning keys ("1" to "6"), you can easily store up to six broadcast channels for later recall (also with the touch of a key).

1 Select a frequency that you want to store in memory.

2 Touch and hold a preset tuning key [1] to [6].

The selected radio station is stored in memory. The next time you touch the preset tuning key "1" to "6", the broadcast channel is recalled from memory.

- ❑ Up to 18 FM stations, six for each of the three FM bands, as well as six MW/LW stations, can be stored in memory. ❑

Storing the strongest broadcast frequencies

BSM (best stations memory) function automatically stores the six strongest broadcast frequencies under the preset tuning keys "1" to "6" and, once stored there, you can tune into them with the touch of a key.

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

1 Touch the preset channel list display key.

The preset channel list appears.

2 Touch [BSM] to start a search.

A message appears. While the message is displayed, the six strongest broadcast frequencies will be stored under the preset tuning keys "1" to "6" in order of their signal strength. When this is complete, the message disappears.

- If you touch [Cancel], the storage process is cancelled. ❑

Tuning into strong frequencies

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

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

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “**System**” screen appears.

3 Touch [AV Source Settings].

4 Touch [Radio Settings].

5 Touch [Local].

The pop-up menu appears.

6 Touch the item you want to set.

FM

- **Off** (default):
Turns the seek tuning setting off.
- **Level1**:
Sets the level of sensitivity for FM to level 1.
- **Level2**:
Sets the level of sensitivity for FM to level 2.
- **Level3**:
Sets the level of sensitivity for FM to level 3.
- **Level4**:
Sets the level of sensitivity for FM to level 4.

MW/LW

- **Off** (default):
Turns the seek tuning setting off.
- **Level1**:
Sets the level of sensitivity for MW/LW to level 1.
- **Level2**:
Sets the level of sensitivity for MW/LW to level 2.
- The FM “**Level4**” (MW/LW “**Level2**”) setting allows reception of only stations with the strongest signals, while lower settings allow reception of those with weaker signals.

Receiving traffic announcements

TA (traffic announcement standby) lets you receive traffic announcements automatically, no

matter what source you are listening to. TA can be activated for both a TP station (a station that broadcasts traffic information) or another enhanced network’s TP station (a station carrying information that cross-references TP stations).

- This function can only be used on the FM band.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “**System**” screen appears.

3 Touch [AV Source Settings].

4 Touch [Radio Settings].

5 Touch [TA Interrupt] repeatedly until the desired setting appears.

- **Off** (default):
Does not receive traffic announcements automatically.
- **On**:
Receives traffic announcements automatically.

6 Tune into a TP station or another enhanced network’s TP station.

7 Use the VOL (+/–) button to adjust the TA volume when a traffic announcement begins.

The newly set volume is stored in memory and recalled for subsequent traffic announcements.

- You can cancel the news programme by changing the source.
- The system switches back to the original source following traffic announcement reception.

Using the radio

- ❑ Only TP stations and other enhanced networks' TP stations are tuned in during seek tuning or BSM when the TA function is on. ❑

Using news programme interruption

When a news programme is broadcast from a PTY code news station, this product can switch from any station to the news broadcast station. When the news programme ends, reception of the previous programme resumes.

- ❑ This function can only be used on the FM band.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "System" screen appears.

3 Touch [AV Source Settings].

4 Touch [Radio Settings].

5 Touch [News Interrupt] repeatedly until the desired setting appears.

- **Off** (default):
Deactivates the news programme interruption function.
- **On:**
Activates the news programme interruption function.
- ❑ You can cancel the news programme by changing the source. ❑

Tuning into alternative frequencies

If you are listening to a broadcast and the reception becomes weak or there are other problems, this product will automatically search for a different station in the same network that is broadcasting a stronger signal.

- ❑ This function can only be used on the FM band.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "System" screen appears.

3 Touch [AV Source Settings].

4 Touch [Radio Settings].

5 Touch [Alternative FREQ] repeatedly until the desired setting appears.

- **On** (default):
Turns the alternative frequencies function on.
- **Off:**
Turns the alternative frequencies function off.
- ❑ Only RDS stations are tuned in during seek tuning or BSM when AF is on.
- ❑ When you recall a preset station, the tuner may update the preset station with a new frequency from the station's AF list. No preset number appears on the display if the RDS data for the station received differs from that for the originally stored station.
- ❑ Sound may be temporarily interrupted by another programme during an AF frequency search.
- ❑ AF can be turned on or off independently for each FM band. ❑

Limiting stations to regional programming

When AF (alternative frequency) is used to automatically retune frequencies, the regional function limits the selection to stations broadcasting regional programmes.

- This function can only be used on the FM band.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “System” screen appears.

3 Touch [AV Source Settings].

4 Touch [Radio Settings].

5 Touch [Regional] repeatedly until the desired setting appears.

- **On** (default):
Turns the regional function on.
- **Off**:
Turns the regional function off.
- Regional programming and regional networks are organised differently depending on the country (i.e. they may change according to the time, country or broadcast area).
- The preset number on the display may disappear if the tuner tunes into a regional station that differs from the originally set station.
- The regional function can be turned on or off independently for each FM band.

Switching Auto PI seek

If this product fails to find a suitable alternative frequency, or if you are listening to a

broadcast and the reception becomes weak, this product will automatically search for a different station with the same programming.

Activating the Auto PI seek for preset stations

This product can automatically search for a different station with the same programming, even during preset recall.

- “Auto PI” can be set only when the source is turned off.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “System” screen appears.

3 Touch [AV Source Settings].

4 Touch [Radio Settings].

5 Touch [Auto PI] repeatedly until the desired setting appears.

- **Off** (default):
Deactivates the Auto PI seek function.
- **On**:
Activates the Auto PI seek function.

Switching the sound quality of the FM tuner

You can select the sound quality from the three settings according to the circumstances of use.

- This function can only be used on the FM band.

1 Press the HOME button to display the Top menu screen.

Using the radio

2 Touch the following keys in the following order.



The “**System**” screen appears.

3 Touch [AV Source Settings].

4 Touch [Radio Settings].

5 Touch [Tuner Sound].

The pop-up menu appears.

6 Touch the item you want to set.

- **Music** (default):
Switches to the settings that give priority to the sound quality.
- **Standard**:
Switches to the standard settings.
- **Talk**:
Switches to settings that prioritise noise prevention.

Storing song information to an iPod (iTunes Tagging)

➤ For details, refer to *Storing song information to an iPod (iTunes Tagging)* on page 135.

Operating with the hardware buttons

Press the TRK button.

You can move up or down the preset channels.

Press and hold the TRK button.

You can perform seek tuning.

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

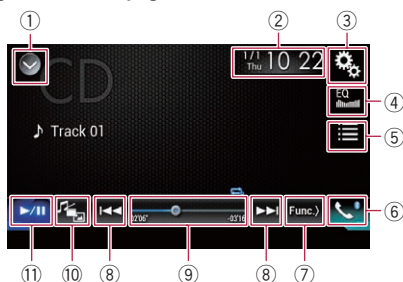
CAUTION

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

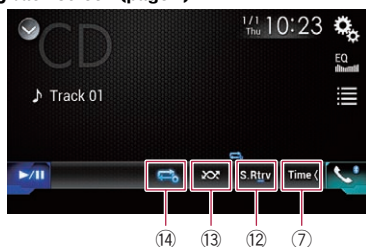
Using the touch panel keys (for audio)

Example: CD

Playback screen (page 1)



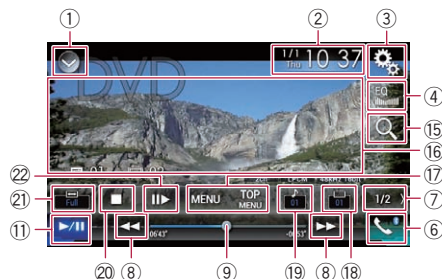
Playback screen (page 2)



Using the touch panel keys (for video)

Example: DVD

Playback screen (page 1)



Playback screen (page 2)



- ① **Displays the source list.**
➔ For details, refer to *Selecting a front source on the source list* on page 22.
- ② **Displays the Time and date setting screen.**
➔ For details, refer to *Setting the time and date* on page 135.
- ③ **Displays the Setting menu screen.**
- ④ **Recalls equaliser curves.**
➔ For details, refer to *Using the equaliser* on page 117.
- ⑤ **Selects a track from the list.**
➔ For details, refer to *Selecting files from the file name list* on page 53.
- ⑥ **Displays the Phone menu screen.**
➔ For details, refer to *Displaying the phone menu* on page 31.
- ⑦ **Switches to the next or previous page of touch panel keys.**
- ⑧ **Skips files forward or backward.**

Playing a disc

- ⑨ **Changes the playback point by dragging the key.**
 ➔ For details, refer to *Operating the time bar* on page 25.
- ⑩ **Switches the media file type.**
 ➔ For details, refer to *Switching the media file type* on page 53.
- ⑪ **Switches between playback and pause.**
- ⑫ **Uses “Sound Retriever” function.**
 ➔ For details, refer to *Setting the “Sound Retriever” function* on page 136.
- ⑬ **Plays files in random order.**
 ➔ For details, refer to *Playing tracks in random order* on page 53.
- ⑭ **Sets a repeat play range.**
 ➔ For details, refer to *Setting a repeat play range* on page 53.
- ⑮ **Searches for the part you want to play.**
 ➔ For details, refer to *Searching for the part you want to play* on page 54.
- ⑯ **Hides the touch panel keys.**
 Touching this area hides the touch panel keys.
 Touch anywhere on the LCD screen to display the touch panel keys again.
- ⑰ **Displays the DVD menu.**
 ➔ For details, refer to *Operating the DVD menu* on page 54.
- ⑱ **Switches the subtitle language.**
 ➔ For details, refer to *Switching the subtitle language* on page 54.
- ⑲ **Switches the audio language.**
 ➔ For details, refer to *Switching the audio language* on page 54.
- ⑳ **Stops playback.**
- ㉑ **Changes the wide screen mode.**
 ➔ For details, refer to *Changing the wide screen mode* on page 136.
- ㉒ **Moves ahead one frame (frame-by-frame playback) or slows down playback speed (slow-motion playback).**
 ➔ For details, refer to *Frame-by-frame playback* on page 55.
 ➔ For details, refer to *Slow motion playback* on page 55.
- ㉓ **Performs an operation (such as resuming) that is stored on the disc.**

➔ For details, refer to *Returning to a specified scene* on page 55.

㉔ **Resumes playback (Bookmark).**

➔ For details, refer to *Resuming playback (Bookmark)* on page 55.

㉕ **Displays the DVD menu keypad.**

➔ For details, refer to *Operating the DVD menu using touch panel keys* on page 56.

㉖ **Changes the viewing angle (Multi-angle).**

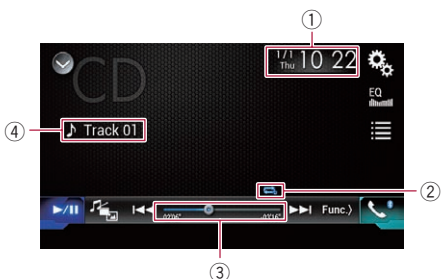
➔ For details, refer to *Switching the multi-angle DVD display* on page 56.

㉗ **Selects the audio output.**

➔ For details, refer to *Selecting the audio output* on page 56.

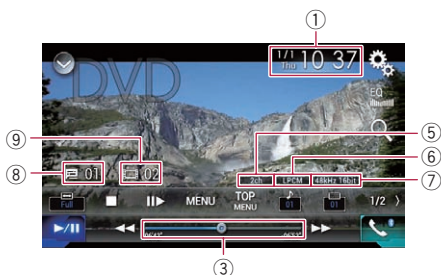
Reading the screen (for audio)

Example: CD

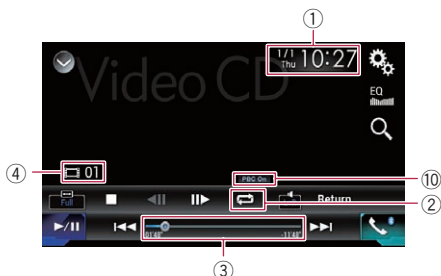


Reading the screen (for video)

Example: DVD





Example: Video-CD







- ① **Current time and date**
- ② **Playback condition indicator**
Indicates the current playback condition.


Playing tracks in random order

Indicator	Meaning
	Does not play tracks in random order.
	Plays all tracks in the current disc in random order.

Setting a repeat play range

Indicator	Meaning
	Repeats just the current track.
	Repeats the current disc.

Indicator	Meaning
	Repeats just the current chapter.
	Repeats just the current title.

- ③ **Play time indicator**
Shows the elapsed playing time within the current file.
- ④ **Track number indicator**
Shows the number of the track currently playing (when available).
- ⑤ **Audio channel indicator**
Shows the current audio channel type, such as "Mch" (Multi-channel).
- ⑥ **Digital sound format indicator**
Shows which digital sound format (surround sound format) has been selected.
- ⑦ **Sampling frequency indicator**
Shows the sampling frequency currently playing.
- ⑧ **Title number indicator**
Shows the title number currently playing.
- ⑨ **Chapter number indicator**
Shows the chapter number currently playing.
- ⑩ **PBC ON indicator**
Indicates that a disc with PBC On is being played. 

Starting procedure

- 1 **Display the AV source selection screen.**
➔ For details of the operations, refer to *Displaying the AV operation screen* on page 22.
- 2 **Insert the disc you want to play into the disc-loading slot.**


The source changes and then playback will start.

- ➔ For details, refer to *Inserting and ejecting a disc* on page 16.
- If the disc is already set, touch **[Disc]** on the source list or on the AV source selection screen.
➔ For details, refer to *Selecting a front source on the source list* on page 22.

Playing a disc

- For details, refer to *Selecting a front source on the AV source selection screen* on page 22.

3 Use the touch panel keys on the screen to control the disc.

- For details, refer to *Using the touch panel keys (for audio)* on page 50.
- For details, refer to *Using the touch panel keys (for video)* on page 50. 

Selecting files from the file name list

You can select tracks to play back using the track title list which is a list of the tracks recorded on a disc.

1 Touch the following key.



Displays a list of the tracks recorded on the disc.

2 Touch a track on the list to play back.




Playing tracks in random order

All tracks on the disc can be played at random by only touching a single key.

● Touch the following key repeatedly until the desired setting appears.



Turns random play on or off.

-  (default): Does not play tracks in random order.
- : Plays all tracks in the current repeat play range in random order.
 - If you turn random play on when the repeat play range is set to the current track, the repeat play range changes to the whole of the current disc automatically. 

Setting a repeat play range



The repeat play range can be changed by only touching a single key.

● Touch the following key repeatedly until the desired setting appears.







Changes the repeat play range.

Audio

-  (default): Repeats the current disc.
- : Repeats just the current track.
 - If you turn random play on when the repeat play range is set to the current track, the repeat play range changes to the whole of the current disc automatically.
 - If you change the repeat play range from the whole of the current disc to the current track when random play is turned on, the random play turns off automatically.

Video

-  (default): Repeats all files.
- : Repeats just the current chapter.
- : Repeats just the current title. 

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 the following key.




Displays the pop-up menu for selecting a media file type to play on the disc.

2 Touch the item you want to set.

- **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

You can use the search function to find the part you want to play.

- For DVD-Videos, you can select **Title** (title), **Chapter** (chapter) or **10Key** (numeric keypad).
- For Video-CDs, you can select **Track** (track) or **10Key** (numeric keypad).
10Key (numeric keypad) is available for Video-CDs featuring PBC (playback control) only.
- Chapter search and time search are not available when disc playback has been stopped.

1 Touch the following key.



Displays the screen for direct number search.


2 Touch [Title] (title), [Chapter] (chapter), [10Key] (numeric keypad), or [Track] (track).

3 Touch [0] to [9] to input the desired number.

- To cancel an input number, touch [C]. To cancel the input numbers, touch and hold [C].

4 Touch the following key.



Registers the numbers and starts playback. 

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 the screen to display the touch panel keys.

2 Touch the following key.

TOP
MENU

Displays the touch panel keys to operate the DVD menu.

MENU

3 Touch the desired menu item.

Switching the subtitle language

You can switch the subtitle language while a disc is playing when the disc has multilingual data (multi-subtitle).

● Touch the following key repeatedly until the desired setting appears.



Changes the subtitle language. You can specify the desired language as the default subtitle language.

- ➔ For details, refer to *Setting the top-priority languages* on page 127.



Switching the audio language

You can switch the audio language while a disc is playing when the disc has multilingual data (multi-audio).

Playing a disc

- **Touch the following key repeatedly until the desired setting appears.**



Changes the audio language. You can specify the desired language as the default audio language.

- ☞ For details, refer to *Setting the top-priority languages* on page 127.




Frame-by-frame playback

This lets you move ahead one frame at a time during pause.

- **Touch [II▶] during pause.**

The video advances one frame each time [II▶] is touched.

- To return to normal playback, touch [▶/II].
- With some discs, images may be unclear during frame-by-frame playback. 

Slow motion playback

This lets you slow down the playback speed.

- 1 **Touch and hold [II▶] until an arrow icon is displayed during playback.**


The arrow icon is displayed, and forward slow motion playback starts.

- To return to normal playback, touch [▶/II].

- 2 **Touch [II▶] to adjust playback speed during slow motion playback.**

Each time you touch [II▶], the speed changes in the following order:

1/16 → 1/8 → 1/4 → 1/2

- There is no sound during slow motion playback.
- With some discs, images may be unclear during slow motion playback.
- Reversed slow motion playback is not possible. 

Returning to a specified scene

When using a disc that has a point recorded that indicates where to return to, the disc returns to the specified point and starts playback from there.

This function cannot be used if a specified scene has not been preprogrammed on the disc.

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

- **Touch the following key.**



Return

Returns to the specified point and starts playback from there.

- The specified point differs depending on the disc. 


Resuming playback (Bookmark)

The Bookmark function lets you resume playback from a selected scene the next time the disc is loaded.

- **Touch the following key.**



Bookmarks one point for each of up to five discs.

- If you try to memorise another point for the same disc, the older bookmark will be overwritten by the new one.
- To clear the bookmark on a disc, touch and hold this key.
- The oldest bookmark is replaced by the new one. 

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 the following keys to select the desired menu item.



Selects the left menu item.




Selects the right menu item.



Selects the upper menu item.





Selects the lower menu item.

- If the touch panel keys for DVD menu selection disappear, touch anywhere on the screen, and then touch . The touch panel keys are displayed again.

2 Touch the following key.



Confirms the selected item.

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

Switching the multi-angle DVD display

With DVDs featuring multi-angle recordings (scenes shot from multiple angles), you can switch among viewing angles during playback.

- Touch the following key repeatedly until the desired setting appears.



Switches between viewing angles. During the playback of a scene shot from multiple angles, the angle icon is displayed. Turn the angle icon display on or off using the "DVD/DivX Setup" menu.

- ➔ For details, refer to *Setting the angle icon display* on page 128.



Selecting the audio output

When playing DVDs recorded with LPCM audio, you can switch the audio output.

- Touch the following key repeatedly until the desired setting appears.



Changes the audio output setting.

- **L+R:** Left and right
- **Left:** Left
- **Right:** Right
- **Mix:** Mixing left and right
- This function is not available when disc playback has been stopped.
- The appearance of this key changes according to the current setting.

Operating with the hardware buttons

Press the TRK button.

You can skip tracks or chapters forward or backward.

Press and hold the TRK button.

You can perform fast reverse or fast forward.

Playing compressed audio files

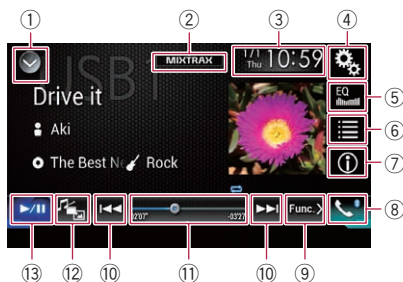
You can play compressed audio files stored in a disc or an external storage device (USB, SD) using the built-in drive of this product. This section describes how.

- For details, refer to *Media compatibility chart* on page 152.

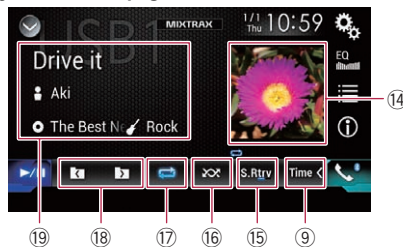
Using the touch panel keys

Example: USB


Playback screen (page 1)



Playback screen (page 2)



- For details, refer to *Selecting files from the file name list* on page 60.
 - Displays a list related to the song currently playing (link search).**
 - For details, refer to *Selecting a file from the list related to the song currently playing (link search)* on page 60.
 - ⑦ **Switches the text display between tag information and file/folder information.**
 - For details, refer to *Reading the screen* on page 58.
 - For details, refer to *Switching the browse mode* on page 59.
 - ⑧ **Displays the Phone menu screen.**
 - For details, refer to *Displaying the phone menu* on page 31.
 - ⑨ **Switches to the next or previous page of touch panel keys.**
 - ⑩ **Skips files forward or backward.**
 - ⑪ **Changes the playback point by dragging the key.**
 - For details, refer to *Operating the time bar* on page 25.
 - ⑫ **Switches the media file type.**
 - For details, refer to *Switching the media file type* on page 61.
 - ⑬ **Switches between playback and pause.**
 - ⑭ **Displays the album list.**
 - This function is available only when playing files in an external storage device (USB, SD) in the Music Browse mode.
 - ⑮ **Uses "Sound Retriever" function.**
 - For details, refer to *Setting the "Sound Retriever" function* on page 136.
 - ⑯ **Plays files in random order.**
 - For details, refer to *Playing files in random order* on page 60.
 - ⑰ **Sets a repeat play range.**
 - For details, refer to *Setting a repeat play range* on page 61.
 - ⑱ **Selects the previous folder or the next folder.**
 - ⑲ **Displays the category list including the selected item.**
- ① **Displays the source list.**
 - For details, refer to *Selecting a front source on the source list* on page 22.
 - ② **Displays the MIXTRAX screen.**
 - For details, refer to Chapter 19.
 - ③ **Displays the Time and date setting screen.**
 - For details, refer to *Setting the time and date* on page 135.
 - ④ **Displays the Setting menu screen.**
 - ⑤ **Recalls equaliser curves.**
 - For details, refer to *Using the equaliser* on page 117.
 - ⑥ **Selects a file from the list.**

- ❑ This function is available only when playing files in an external storage device (USB, SD) in the Music Browse mode. 

Reading the screen

Example: USB



① Current file information

Music Browse mode

- **Song title/File name**

Shows the title of the song currently playing (when available). If the title of a song is not available, the file name appears.

-  **Artist name**

Shows the artist name for the song currently playing (when available). "No Name" is displayed if there is no corresponding information.

-  **Album title/Folder name**

Shows the title of the album of the current file (when available). If the title of the album is not available, the folder name appears.

-  **Genre**

Shows the genre of the current file (when available). "No Genre" is displayed if there is no corresponding information.

- ❑ Nothing is displayed if the song currently playing is in a format which does not support these functions.

Folder Browse mode

-  **File name**

Shows the name of the file currently playing.

-  **Folder name**

Shows the name of the folder containing the file currently playing.

② Current time and date



③ Album artwork

Album art of the current song is displayed if it is available.




④ Playback condition indicator

Indicates the current playback condition.



Playing files in random order

Indicator	Meaning
	Does not play files in random order.
	Plays all files within the repeat range in random order.

Setting a repeat play range (for Disc)




Indicator	Meaning
	Repeats just the current file.
	Repeats just the current folder.
	Repeats all compressed audio files.

Setting a repeat play range (for Music Browse mode)


Indicator	Meaning
	Repeats just the current file.
	Repeats all compressed audio files.

Playing compressed audio files

Setting a repeat play range (for Folder Browse mode)

Indicator	Meaning
	Repeats just the current file.
	Repeats just the current folder.
	Repeats all compressed audio files.

⑤ Play time indicator

Shows the elapsed playing time within the current file. 

Starting procedure (for Disc)

1 Display the AV source selection screen.

- For details of the operations, refer to *Displaying the AV operation screen* on page 22.

2 Insert the disc you want to play into the disc-loading slot.

The source changes and then playback will start.

- For details, refer to *Inserting and ejecting a disc* on page 16.
- ❑ If the disc is already set, touch **[Disc]** on the source list or on the AV source selection screen.
 - For details, refer to *Selecting a front source on the source list* on page 22.
 - For details, refer to *Selecting a front source on the AV source selection screen* on page 22.

3 Use the touch panel keys on the screen to control the disc.

- For details, refer to *Using the touch panel keys* on page 57. 

Starting procedure (for USB/SD)

1 Display the AV source selection screen.

- For details of the operations, refer to *Displaying the AV operation screen* on page 22.


2 Insert the SD memory card into the SD card slot or plug the USB storage device into the USB connector.

- For details, refer to *Plugging in a USB storage device* on page 18.
- For details, refer to *Inserting and ejecting an SD memory card* on page 17.

3 Touch **[USB]** or **[SD]** on the AV source selection screen.

The source changes and then playback will start.

4 Use the touch panel keys on the screen to control the external storage device (USB, SD).

- For details, refer to *Using the touch panel keys* on page 57.
- ❑ Playback is performed in order of folder numbers. Folders are skipped if they contain no playable files. If there are no playable files in folder 01 (root folder), playback starts from folder 02. 

Switching the browse mode

This product supports two types of browse modes: Folder Browse mode and Music Browse mode.

- ❑ The browse modes are available only for the external storage device (USB, SD).

Music Browse mode

Displays a song title, artist name, album title and genre in the current file information display area on the AV operation screen. Select when you want to play music files narrowed down by a category of song title, artist name, album title or genre.

If connecting an external storage device (USB, SD), this product accesses the database of music files with tag information and switches to the Music Browse mode automatically.

Folder Browse mode

Displays a folder name and file name in the current file information display area on the AV operation screen. Select when you want to search for folders or music files on the list screen.

- You can switch between the browse modes for file search by touching the tabs and selecting a file on the list screen.

● Touch the following key repeatedly until the desired setting appears.



Switches the display information between the tag information (title, artist name, album title etc.) and the file/folder name information.



Selecting files from the file name list

You can find files to play back using the list of the files and folders stored on a disc or in an external storage device (USB, SD).


1 Touch the following key.



Displays the list of the files or folders stored on a disc or in the external storage device (USB, SD).

- Touch the **"File"** tab to display the file/folder list for an external storage device (USB, SD).

2 Touch a file on the list to play back.

- Files are played back in file number order.
- Touching a folder on the list shows its contents. You can play a file on the list by touching it. 

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

You can select files to play back using the category list for the files in an external storage device (USB, SD).

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

1 Touch the following key.



Displays the list of the files or folders stored in the external storage device (USB, SD).

- If the **"File"** list is displayed, touch the **"Tag"** tab to display the category list.

2 Touch the desired category to display the file list.

The list screen appears.

3 Touch the item that you want to refine.

Refine the item until the desired song title or file name is displayed on the list.

- Touching **[All]** on the list includes all options in the current list. For example, if you touch **[All]** after touching **[Artists]**, you can proceed to the next screen with all artists in the list selected.
- After you select **"Artists"**, **"Albums"** or **"Genres"**, touch one of the lists to start playing the first song in the selected list or display the next options.

4 Touch the desired song title or file name to play back.

Playing files in random order

All files on the disc or in the external storage device (USB, SD) can be played at random by only touching a single key.

Playing compressed audio files

- **Touch the following key repeatedly until the desired setting appears.**



Turns random play on or off.

- (default): Does not play files in random order.
- : Plays all audio files in the current repeat play range in random order.
 - If you turn random play on when the repeat play range is set to the current file in the Music Browse mode, the repeat play range changes to the current folder in the current disc or external storage device (USB, SD) automatically.
 - If you turn random play on when the repeat play range is set to the current file in the Folder Browse mode, the repeat play range changes to the whole of the current disc or external storage device (USB, SD) automatically. □

Setting a repeat play range

The repeat play range can be changed by only touching a single key.

- **Touch the following key repeatedly until the desired setting appears.**



Changes the repeat play range.

Disc

- (default): Repeats all compressed audio files.
- : Repeats just the current folder.
- : Repeats just the current file.

Music Browse mode

- (default): Repeats all files.
- : Repeats just the current file.

Folder Browse mode

- (default): Repeats all files.
- : Repeats the current folder.
- : Repeats just the current file. □

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 the following key.



Displays the pop-up menu for selecting a media file type to play on the disc or in the external storage device (USB, SD).

2 Touch the item you want to set.

- **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). □

Operating with the hardware buttons

Press the TRK button.

You can skip files forward or backward.

Press and hold the TRK button.

You can perform fast reverse or fast forward. □

You can play compressed video files stored on a disc or in an external storage device (USB, SD) using the built-in drive of this product. This section describes how.

➔ For details, refer to *Media compatibility chart* on page 152.

CAUTION

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

Using the touch panel keys

Example: Disc



- ① **Displays the source list.**
➔ For details, refer to *Selecting a front source on the source list* on page 22.
- ② **Displays the Time and date setting screen.**
➔ For details, refer to *Setting the time and date* on page 135.
- ③ **Displays the Setting menu screen.**
- ④ **Recalls equaliser curves.**
➔ For details, refer to *Using the equaliser* on page 117.
- ⑤ **Selects a file from the list.**
➔ For details, refer to *Selecting files from the file name list* on page 63.
- ⑥ **Hides the touch panel keys.**
Touching this area hides the touch panel keys.
☐ Touch anywhere on the LCD screen to display the touch panel keys again.
- ⑦ **Sets a repeat play range.**
➔ For details, refer to *Setting a repeat play range* on page 64.
- ⑧ **Switches the subtitle language.**
With DivX featuring multi-subtitle recordings, you can switch between subtitle languages during playback.
- ⑨ **Displays the Phone menu screen.**
➔ For details, refer to *Displaying the phone menu* on page 31.
- ⑩ **Skips files forward or backward.**
- ⑪ **Switches the audio language.**
With DivX files that provide audio playback in different languages and different audio systems (Dolby Digital, DTS, etc.), you can switch between languages or audio systems during playback.
- ⑫ **Changes the playback point by dragging the key.**
➔ For details, refer to *Operating the time bar* on page 25.
- ⑬ **Moves ahead one frame (frame-by-frame playback) or slows down playback speed (slow-motion playback).**
➔ For details, refer to *Frame-by-frame playback* on page 64.
➔ For details, refer to *Slow motion playback* on page 64.
- ⑭ **Switches the media file type.**
➔ For details, refer to *Switching the media file type* on page 64.
- ⑮ **Switches between playback and pause.**
- ⑯ **Changes the wide screen mode.**
➔ For details, refer to *Changing the wide screen mode* on page 136.
- ⑰ **Stops playback.** ☐

Playing compressed video files

Reading the screen

Example: Disc



- ① **Current time and date**
- ② **Play time indicator**
Shows the elapsed playing time within the current file.
- ③ **Current file information**
 - **File name**
Shows the name of the file currently playing.
 - **Folder name**
Shows the name of the folder containing the file currently playing.

Starting procedure (for Disc)

- 1 **Display the AV source selection screen.**
➔ For details of the operations, refer to *Displaying the AV operation screen* on page 22.

- 2 **Insert the disc you want to play into the disc-loading slot.**

The source changes and then playback will start.

- ➔ For details, refer to *Inserting and ejecting a disc* on page 16.
- If the disc is already set, touch [Disc] on the source list or on the AV source selection screen.
 - ➔ For details, refer to *Selecting a front source on the source list* on page 22.
 - ➔ For details, refer to *Selecting a front source on the AV source selection screen* on page 22.

- 3 **Use the touch panel keys on the screen to control the disc.**

- ➔ For details, refer to *Using the touch panel keys* on page 62.

Starting procedure (for USB/SD)

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

- ➔ For details of the operations, refer to *Displaying the AV operation screen* on page 22.

- 2 **Insert the SD memory card into the SD card slot or plug the USB storage device into the USB connector.**

- ➔ For details, refer to *Plugging in a USB storage device* on page 18.
- ➔ For details, refer to *Inserting and ejecting an SD memory card* on page 17.

- 3 **Touch [USB] or [SD] on the AV source selection screen.**

The image is displayed on the screen.

- 4 **Use the touch panel keys on the screen to control the external storage device (USB, SD).**

- ➔ For details, refer to *Using the touch panel keys* on page 62.
- Playback is performed in order of folder numbers. Folders are skipped if they contain no playable files. If there are no playable files in folder 01 (root folder), playback starts from folder 02.

Selecting files from the file name list

You can select files to view using the file name list of the files stored on a disc or in the external storage device (USB, SD).

- 1 **Touch the following key.**



Displays the list of the files or folders stored on a disc or in the external storage device (USB, SD).

2 Touch a file on the list to play back.

- Files are played back in file number order and folders are skipped if they contain no files. (If folder 01 (root folder) contains no files, playback commences with folder 02.)
- Touching a folder on the list shows its contents. You can play a file on the list by touching it.
 - Touch the playback sign of the thumbnail to preview the file.





Setting a repeat play range

The repeat play range can be changed by only touching a single key.

- **Touch the following key repeatedly until the desired setting appears.**



Changes the repeat play range.

-  or  (default):
Repeats all files.
- :
Repeats just the current folder.
- :
Repeats just the current file.

Frame-by-frame playback

This lets you move ahead one frame at a time during pause.

- This function is available while a compressed video file stored on a disc is being played.
- **Touch [II▶] during pause.**
The video advances one frame each time [II▶] is touched.
 - To return to normal playback, touch [▶/II].
 - With some discs, images may be unclear during frame-by-frame playback.

Slow motion playback

This lets you slow down the playback speed.

- **Touch [II▶] (external storage device (USB, SD)) or touch and hold [II▶] (disc) during playback.**

The arrow icon is displayed, and forward slow motion playback starts.

- There is no sound during slow motion playback.
- With some discs and external storage devices (USB, SD), images may be unclear during slow motion playback.
- To return to normal playback, touch [▶/II].
- Reversed slow motion playback is not possible.

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 the following key.



Displays the pop-up menu for selecting a media file type to play on the disc or in the external storage device (USB, SD).

2 Touch the item you want to set.

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

Operating with the hardware buttons

Press the TRK button.

You can skip files forward or backward.

Press and hold the TRK button.

You can perform fast reverse or fast forward.

Playing compressed still image files

You can view still images (JPEG images) stored in an external storage device (USB, SD) using the built-in drive of this product. This section describes how.

Using the touch panel keys

Example: USB

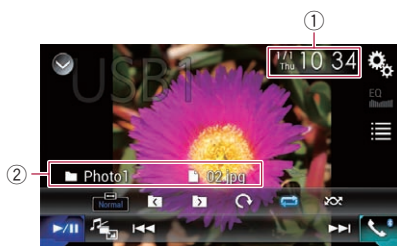


- ① **Displays the source list.**
 ➔ For details, refer to *Selecting a front source on the source list* on page 22.
- ② **Displays the Time and date setting screen.**
 ➔ For details, refer to *Setting the time and date* on page 135.
- ③ **Displays the Setting menu screen.**
- ④ **Recalls equaliser curves.**
 This key is not available while you are viewing still images stored in an external storage device (USB, SD).
- ⑤ **Selects a file from the list.**
 ➔ For details, refer to *Selecting files from the file name list* on page 66.
- ⑥ **Hides the touch panel keys.**
 Touching this area hides the touch panel keys.
 Touch anywhere on the LCD screen to display the touch panel keys again.
- ⑦ **Plays files in random order.**
 ➔ For details, refer to *Playing files in random order* on page 66.
- ⑧ **Displays the Phone menu screen.**
 ➔ For details, refer to *Displaying the phone menu* on page 31.
- ⑨ **Skips files forward or backward.**
- ⑩ **Sets a repeat play range.**
 ➔ For details, refer to *Setting a repeat play range* on page 66.

- ⑪ **Rotates the displayed picture 90° clockwise.**
- ⑫ **Selects the previous folder or the next folder.**
- ⑬ **Switches the media file type.**
 ➔ For details, refer to *Switching the media file type* on page 66.
- ⑭ **Switches between playback and pause.**
- ⑮ **Changes the wide screen mode.**
 ➔ For details, refer to *Changing the wide screen mode* on page 136.

Reading the screen

Example: USB



- ① **Current time and date**
- ② **Current file information**
 - **File name**
Shows the name of the file currently playing.
 - **Folder name**
Shows the name of the folder containing the file currently playing.

Starting procedure

- 1 **Display the AV source selection screen.**
 ➔ For details of the operations, refer to *Displaying the AV operation screen* on page 22.
- 2 **Insert the SD memory card into the SD card slot or plug the USB storage device into the USB connector.**
 ➔ For details, refer to *Plugging in a USB storage device* on page 18.
 ➔ For details, refer to *Inserting and ejecting an SD memory card* on page 17.

3 Touch [USB] or [SD] on the AV source selection screen.

The image is displayed on the screen.

4 Use the touch panel keys on the screen to control the external storage device (USB, SD).

- For details, refer to *Using the touch panel keys* on page 65.
- ☐ Playback is performed in order of folder numbers. Folders are skipped if they contain no playable files. If there are no playable files in folder 01 (root folder), playback starts from folder 02. ☐

Selecting files from the file name list

You can select files to view using the file name list of the files stored in the external storage device (USB, SD).

1 Touch the following key.



Displays the list of the files stored in the external storage device (USB, SD).

2 Touch a file on the list to play back.

- ☐ Files are played back in file number order and folders are skipped if they contain no files. (If folder 01 (root folder) contains no files, playback commences with folder 02.)
- ☐ Touching a folder on the list shows its contents. You can play a file on the list by touching it. ☐


Playing files in random order

All files in the external storage device (USB, SD) can be played at random by only touching a single key.

● Touch the following key repeatedly until the desired setting appears.



Turns random play on or off.

-  (default): Does not play files in random order.



Plays all files in the current repeat play range in random order. ☐

Setting a repeat play range

The repeat play range can be changed by only touching a single key.

● Touch the following key repeatedly until the desired setting appears.



Changes the repeat play range.



(default): Repeats all files.



Repeats the current folder. ☐

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 the following key.



Displays the pop-up menu for selecting a media file type to play in the external storage device (USB, SD).

2 Touch the item you want to set.

- **Music:** Switches the media file type to music (compressed audio).
- **Video:** Switches the media file type to video.
- **Photo:** Switches the media file type to still image (JPEG data). ☐

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.

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

Playing compressed still image files

- 1 Press the HOME button to display the Top menu screen.
- 2 Touch the following keys in the following order.



The “**Video Setup**” screen appears.

- 3 Touch [Time Per Photo Slide].

The pop-up menu appears.

- 4 Touch the item you want to set.
 - **10sec** (default):
JPEG images switch at intervals of 10 seconds.
 - **5sec**:
JPEG images switch at intervals of 5 seconds.
 - **15sec**:
JPEG images switch at intervals of 15 seconds.
 - **Manual**:
JPEG images can be switched manually.

Operating with the hardware buttons

Press the TRK button.

You can skip files forward or backward.

Press and hold the TRK button.

You can search 10 JPEG files at a time.

- If the number of files in the folder (from the file currently being played to the first or last file) is fewer than 10, the first or last file in the folder is automatically played.
- If the file currently being played is the first or last file in the folder, the search is not performed.

For iPod with a 30-pin connector users

- ❑ Depending on your iPod, there may not be any output unless you use a USB interface cable for iPod / iPhone (CD-IU201S/CD-IU201V) (sold separately). Be sure to use a USB interface cable for iPod / iPhone (CD-IU201S/CD-IU201V) (sold separately) to connect your iPod.
- iPod audio and/or video sources are enabled if either of the cables is connected.
- ➔ For details of the connections, refer to the Installation Manual.

For iPod / iPhone with a Lightning connector users

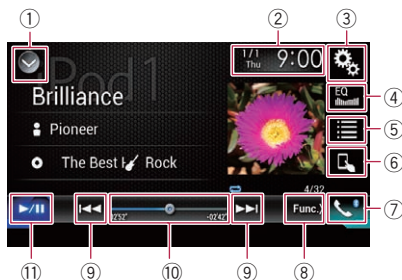
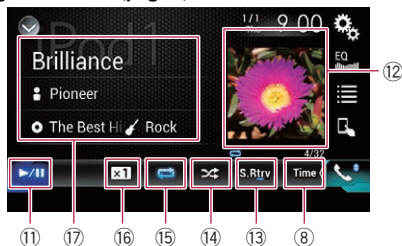
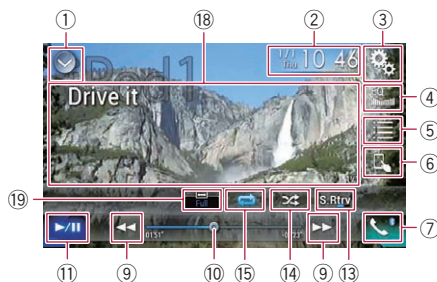
- ❑ To use iPod audio source, you must connect your iPod to this product using a USB interface cable for iPod / iPhone (CD-IU52) (sold separately). However, functions related to iPod video files and **AppRadio Mode** are not available.
- ❑ iPod audio and/or video sources are not available when an iPod with a Lightning connector is connected to this product with a interface cable (CD-IH202) (sold separately).
- ➔ For details of the connections, refer to the Installation Manual.

When you want to play audio and/or video files on your iPod with a Lightning connector, first install **CarMediaPlayer** on your iPod with a Lightning connector and then launch **CarMediaPlayer** while in **AppRadio Mode**.

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

CAUTION

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

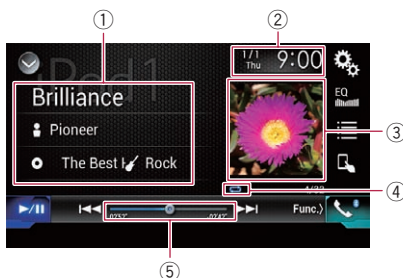
Using the touch panel keys (for audio)**Playback screen (page 1)****Playback screen (page 2)****Using the touch panel keys (for video)**

- ① **Displays the source list.**
➔ For details, refer to *Selecting a front source on the source list* on page 22.
- ② **Displays the Time and date setting screen.**

Using an iPod

- ➔ For details, refer to *Setting the time and date* on page 135.
- ③ **Displays the Setting menu screen.**
- ④ **Recalls equaliser curves.**
 - ➔ For details, refer to *Using the equaliser* on page 117.
- ⑤ **Selects a track from the list.**
 - ➔ For details, refer to *Selecting song or video sources from the playlist screen* on page 71.
- ⑥ **Switches the control mode to “App Mode”.**
 - ➔ For details, refer to *Using this product’s iPod function from your iPod* on page 72.
- ⑦ **Displays the Phone menu screen.**
 - ➔ For details, refer to *Displaying the phone menu* on page 31.
- ⑧ **Switches to the next or previous page of touch panel keys.**
- ⑨ **Skips files forward or backward.**
- ⑩ **Changes the playback point by dragging the key.**
 - ➔ For details, refer to *Operating the time bar* on page 25.
- ⑪ **Switches between playback and pause.**
- ⑫ **Displays the song list of the album currently playing.**
 - ➔ For details, refer to *Displaying lists related to the song currently playing (link search)* on page 73.
- ⑬ **Uses “Sound Retriever” function.**
 - ➔ For details, refer to *Setting the “Sound Retriever” function* on page 136.
- ⑭ **Plays files in random order.**
 - ➔ For details, refer to *Setting the shuffle play* on page 70.
- ⑮ **Sets a repeat play range.**
 - ➔ For details, refer to *Setting a repeat play range* on page 70.
- ⑯ **Changes the audiobook speed.**
 - ➔ For details, refer to *Changing the speed of audiobook playback* on page 72.
- ⑰ **Displays the category list including the selected item.**
- ⑱ **Hides the touch panel keys.**
 - Touching this area hides the touch panel keys.
 - Touch anywhere on the LCD screen to display the touch panel keys again.
- ⑲ **Changes the wide screen mode.**
 - ➔ For details, refer to *Changing the wide screen mode* on page 136.

Reading the screen (for audio)





Reading the screen (for video)





- ① **Current track information**
 - **Song title**
Shows the title of the song currently being played (when available). “**No Title**” is displayed if there is no corresponding information.
 - **Artist name**
Shows the artist name for the song currently being played (when available). “**No Name**” is displayed if there is no corresponding information.
 - **Album title**
Shows the title of the album of the current file (when available). “**No Title**” is displayed if there is no corresponding information.
 - **Genre**
Shows the genre of the current file (when available). “**No Genre**” is displayed if there is no corresponding information.


- ② **Current time and date**
- ③ **Album artwork**
Album art of the current song is displayed if it is available.
- ④ **Playback condition indicator**
Indicates the current playback condition.

Setting the shuffle play

Indicator	Meaning
	Plays back songs or videos in random order within the selected list.
	Selects an album randomly, and then plays back all songs in that album in order.

Setting a repeat play range

Indicator	Meaning
	Repeats all songs or videos in the selected list.
	Repeats just the current song or video.

- ⑤ **Play time indicator**
Shows the elapsed playing time within the current file. 

Starting procedure

When connecting an iPod to this product, you must select the method for connecting your device. Settings are required according to the connected device.

➔ For details, refer to Chapter 5.

1 Display the AV source selection screen.

➔ For details of the operations, refer to *Displaying the AV operation screen* on page 22.


2 Connect your iPod.

- If connecting an iPhone or iPod touch, quit applications before connecting.
- If an iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5, or iPod touch (5th generation) is connected, the media library (song information) will be imported from the connected device and saved to this product. Wait until the process completes.

The media library will not be imported if an updated media library of the connected device has been imported or the memory of this product is full.

3 Touch [iPod] on the AV source selection screen.

4 Use the touch panel keys on the screen to control your iPod.

- ➔ For details, refer to *Using the touch panel keys (for audio)* on page 68.
- ➔ For details, refer to *Using the touch panel keys (for video)* on page 68.
- 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.
 - ➔ For details of the operations, refer to *Selecting the video for the rear display* on page 138. 




Setting the shuffle play

This function shuffles songs, albums or videos and plays them in random order.

- **Touch the following key repeatedly until the desired setting appears.**



Turns random play on or off.

-  Plays back songs or videos in random order within the selected list.
-  Selects an album randomly, and then plays back all songs in that album in order.
 - This icon may not be displayed when an iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5, or iPod touch (5th generation) is used. 

Setting a repeat play range

The repeat play range can be changed by only touching a single key.

Using an iPod

- **Touch the following key repeatedly until the desired setting appears.**



Changes the repeat play range.

- Repeats all songs or videos in the selected list.
 - Repeats just the current song or video.
- The repeat setting can be turned off when an iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5, or iPod touch (5th generation) is used.

Selecting song or video sources from the playlist screen

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

- 1 Touch the following key.**



Displays the list of the category.

The “**ROOT**” screen appears.

- 2 Touch the following keys to switch the music or video category list.**



Switches to the music category list.



Switches to the 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 you want to search for.**

Category lists (for music):

- Playlists

- Artists
- Albums
- Songs
- Podcasts
- Genres
- Composers
- Audiobooks

Category lists (for video):

- Video Playlists
 - Movies
 - Music Videos
 - TV Shows
 - Video Podcasts
- Category items that do not correspond to the connected iPod are not displayed.

- 4 Drag the Initial Search Bar to find a file by the initial character of the file name.**

The alphabet corresponding to the current position on the Initial Search Bar is displayed and the list scrolls as the bar is slid.

- The Initial Search Bar is not displayed in the top category list or the song list.

- 5 Release the Initial Search Bar at the desired alphabet.**

The items whose initial character is the selected alphabet are displayed.

- 6 Touch the title of the list that you want to play.**

Repeat this operation until you find the desired song or video.

- 7 Start playback of the selected list.**

- Depending on the generation or version of the iPod, some functions may not be available.
- You can play playlists created with the **MusicSphere** application. The application is available on our website.
- Playlists that you created with the **MusicSphere** application are displayed in abbreviated form.

Using this product's iPod function from your iPod


You can control this product's iPod function from the connected iPod if the control mode is set to "**App Mode**". The application screen of the iPod can be displayed on this product, and the music files and video files in the iPod can be 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 the following key.



Switches the control mode.

- ❑ The control mode switches to "**App Mode**". The icon changes to .

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

- ❑ The following 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.
 - Playing/pausing
 - Fast forwarding/reversing
 - Tracking up/down
 - Moving up/down to a chapter

3 Touch the following key.







Switches the control mode, to control iPod functions from this product.



● Touch the following key.



Changes the playback speed.

-  (default):
Plays back in normal speed.
- :
Plays back faster than normal speed.
- :
Plays back slower than normal speed.
- ❑ The 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... 

Changing the speed of audiobook playback

The playback speed can be changed while playing an audiobook.

Using an iPod

Displaying lists related to the song currently playing (link search)

1 Touch the artwork to open a list of the names of songs on the album currently playing.

2 Touch the name of the song you want to play to start playing that song.

- If part of the recorded information is not displayed, a scroll key appears on the right side of list. Touch the scroll key to scroll. □

Operating with the hardware buttons

Press the TRK button.

You can skip songs or videos forward or backward.

When a song or video with chapters is played, you can skip a chapter forward or backward.

Press and hold the TRK button.

You can perform fast reverse or fast forward. □

Playing back music from a music app other than iPod music, as the iPod source

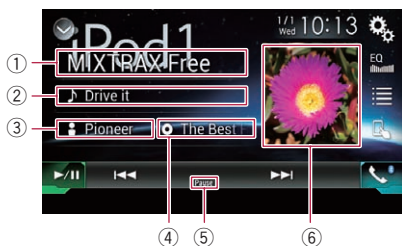
The app name and the song information are also displayed.

Using the touch panel keys



- ① **Displays the source list.**
 - ➔ For details, refer to *Selecting a front source on the source list* on page 22.
- ② **Displays the Time and date setting screen.**
 - ➔ For details, refer to *Setting the time and date* on page 135.
- ③ **Displays the Setting menu screen.**
- ④ **Recalls equaliser curves.**
 - ➔ For details, refer to *Using the equaliser* on page 117.
- ⑤ **Selects a track from the list.**
 - ➔ For details, refer to *Selecting song or video sources from the playlist screen* on page 71.
- ⑥ **Switches the control mode to “App Mode”.**
 - ➔ For details, refer to *Using this product’s iPod function from your iPod* on page 72.
- ⑦ **Displays the Phone menu screen.**
 - ➔ For details, refer to *Displaying the phone menu* on page 31.
- ⑧ **Skips files forward or backward.**
- ⑨ **Switches between playback and pause.**

Reading the screen



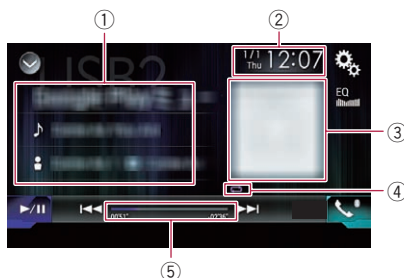
- ① **App name**
Shows the App name of the currently playing.
- ② **Song title**
Shows the title of the song currently being played (when available). "No Title" is displayed if there is no corresponding information.
- ③ **Artist name**
Shows the artist name for the song currently being played (when available). "No Name" is displayed if there is no corresponding information.
- ④ **Album title**
Shows the title of the album of the current file (when available). "No Title" is displayed if there is no corresponding information.
- ⑤ **Pause indicator**
- ⑥ **Album artwork**
Album art of the current song is displayed if it is available.

Playing music output from the Android Auto-compatible device

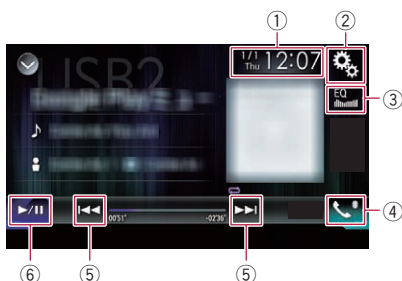
If an **Android Auto**-compatible device is connected to this product, you can listen to the music output from the Android device with this product, and control the playback directly from this product.

- This function is available only when **Android Auto** is turned on. Start the **Android Auto** before using this function.
 - ➔ For details, refer to *Using Android Auto* on page 82.

Reading the screen



Using the touch panel keys



- ① **Displays the Time and date setting screen.**
 - ➔ For details, refer to *Setting the time and date* on page 135.
- ② **Displays the Setting menu screen.**
- ③ **Recalls equaliser curves.**
 - ➔ For details, refer to *Using the equaliser* on page 117.
- ④ **Displays the Phone menu screen.**
 - ➔ For details, refer to *Displaying the phone menu* on page 31.
- ⑤ **Skips files forward or backward.**
 - Operations may vary depending on the application used on the **Android Auto**-compatible device.
- ⑥ **Switches between playback and pause.** □

① Current track information

- **Application name**
Shows the application name (when available). "No Name" is displayed if there is no corresponding information.
- **Song title**
Shows the title of the song currently playing (when available). "No Title" is displayed if there is no corresponding information.
- **Artist name**
Shows the artist name for the song currently being played (when available). "No Name" is displayed if there is no corresponding information.
- **Album title**
Shows the title of the album of the current file (when available). "No Title" is displayed if there is no corresponding information.

② Current time and date


③ Album artwork

Album art of the current song is displayed if it is available.

④ Playback condition indicator



Indicates the current playback condition.

Setting the shuffle play

Indicator	Meaning
	Plays all files in the current repeat play range in random order.

Playing music output from the Android Auto-compatible device

Setting a repeat play range

Indicator	Meaning
	Repeats all songs in the selected list.
	Repeats just the current song.

Playback condition indicators may not be displayed depending on the Android device.

⑤ Play time indicator

Shows the elapsed playing time within the current file.

Starting procedure

1 Start up Android Auto.

➔ For details, refer to *Using Android Auto* on page 82.

2 Press the HOME button to display the Top menu screen.

3 Touch [USB2] on the AV source selection screen.

4 Use the touch panel keys on the screen to control the playback.

➔ For details, refer to *Using the touch panel keys* on page 75.

The **Android Auto** function may not operate properly if the Bluetooth connection with the **Android Auto**-compatible device is terminated.

Using your iPhone or smartphone applications

! 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.

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.

- For details of **AppRadio Mode** compatible devices, refer to *AppRadio Mode Compatibility* on page 40.
- ❑ 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.
- ❑ When an application not compatible with **AppRadio Mode** is started, depending on the application, you can see an image of the application on the screen of this product. However, you will not be able to operate the application.

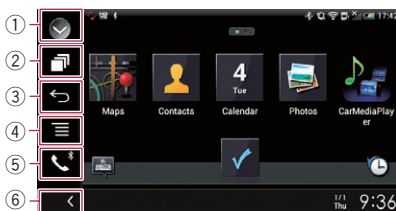
To use **AppRadio Mode**, install the **AppRadio app** on the iPhone or smartphone beforehand to enable launching of the application on this product. For details about the **AppRadio app**, visit the following site:

<http://www.pioneer.eu/AppRadioMode>

- ❑ Be sure to read *Using app-based connected content* before you perform this operation.
 - For details, refer to *Using app-based connected content* on page 158.

- 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.

Using the touch panel keys (App control side bar)



- ① **Displays the source list.**
 - For details, refer to *Selecting a front source on the source list* on page 22.
- ② **Displays the launcher application screen.**
- ③ **Displays the previous screen.**
 - ❑ When you use an iPhone, this key is not available.
- ④ **Displays the menu screen.**
 - ❑ When you use an iPhone, this key is not available.
- ⑤ **Displays the Phone menu screen.**
 - For details, refer to *Displaying the phone menu* on page 31.
- ⑥ **Displays the current source.**
 - ❑ In **AppRadio Mode**, App control side bar will appear.

Using your iPhone or smartphone applications

- ❑ If you press the **HOME** button twice, the App control side bar will disappear. Press the **HOME** button twice again, and the App control side bar will appear.

Starting procedure

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

➔ For details, refer to Chapter 5.

The procedure varies depending on the type of device.

For iPhone with a 30-pin connector users

1 Connect your iPhone.

- ➔ For details of the connections, refer to the Installation Manual.

2 Press the HOME button to display the Top menu screen.

3 Touch [APPS].

A message, which notifies you that your iPhone can launch the application, appears on the screen.

A message, which asks you whether you want to launch your application, appears on your iPhone.

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.

- ❑ If you connect your device while an **AppRadio Mode**-compatible application is already running, the application operation screen will appear on this product.

6 Touch the desired application icon.

The desired application is launched, and the application operation screen appears.

7 Operate the application.

8 Press the HOME button to go back to the Top menu screen.

For iPhone with a Lightning connector users

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

- ❑ The registered device must be selected as the priority device.

➔ For details, refer to *Registering your Bluetooth devices* on page 26.

2 Unlock your iPhone.

3 Connect your iPhone.

- ❑ The cable connection method varies depending on your device.

➔ For details of the connections, refer to the Installation Manual.

4 Press the HOME button to display the Top menu screen.

5 Touch [APPS].

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

6 Touch the desired application icon.

The desired application is launched, and the application operation screen appears.

7 Operate the application.

8 Press the HOME button to go back to the Top menu screen.

Using your iPhone or smartphone applications

For smartphone users

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

- ❑ The registered device must be selected as the priority device.
 - ➔ For details, refer to *Registering your Bluetooth devices* on page 26.

2 Unlock your smartphone.

3 Connect your smartphone to this product via the separately sold App Connectivity Kit (CD-AH200).

- ❑ The cable connection method varies depending on your device.
 - ➔ For details of the connections, refer to the Installation Manual.

4 Press the HOME button to display the Top menu screen.

5 Touch [APPS].

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

6 Touch the desired application icon.

The desired application is launched, and the application operation screen appears.

7 Operate the application.

8 Press the HOME button to go back to the Top menu screen.

Using the keyboard

⚠ CAUTION

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

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

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.

- ❑ The language preference for the keyboard of this product should be same as the setting on your iPhone. If the settings for this product and the iPhone are different, you may be unable to enter characters properly.

1 Set the keyboard language.

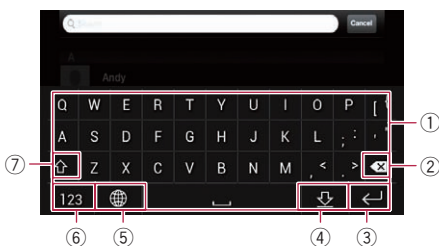
- ➔ For details of the operations, refer to *Setting the keyboard language with the application for iPhone* on page 106.

2 Start up the AppRadio Mode.

- ➔ For details, refer to *Starting procedure* on page 78.

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

A keyboard for entering text appears.



- ① Enters the characters.
- ② Deletes the entered text one letter at a time, beginning at the end of the text.
- ③ Confirms the entry and allows you to proceed to the next step.
- ④ Hides the keyboard and the text can now be entered using the keyboard of the iPhone.
- ⑤ Changes the iPhone keyboard layout.

- ❑ The iPhone keyboard layouts that can be selected by tapping  depends on the setting for Hardware Keyboard Layout set on your iPhone.
- ⑥ Switches to a keyboard offering numeric characters and symbols.
- ⑦ Converts the case of the keyboard characters.

Adjusting the image size (For smartphone users)

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

CAUTION

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

- ❑ This function can be set under the following conditions:
 - When an Android device is connected to this product using CD-AH200 (sold separately), and when **AppRadio Mode** is available after a Bluetooth connection using SPP (Serial Port Profile) has been established.
- ❑ If this setting has not been set, 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 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “**System**” screen appears.

3 Touch [Input/Output Settings].

4 Touch [AppRadio Video Adjustment].

The confirmation screen appears.

5 Touch [OK].

6 Touch the following keys to adjust the line to fit smartphone image size.



Moves the line to the left.



Moves the line to the right.



Moves the line upward.



Moves the line downward.

7 Touch [Preview].

- ❑ Confirm that the whole image fills the screen.

8 Touch [OK].

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

Displaying the image of your application (iPhone with 30-pin connector)

You can set an image of an application for iPhone, which is not compatible with **AppRadio Mode**, to be shown on the screen.

- ❑ Depending on the type of application, you may not be able to see the image on the screen.
- ❑ You can only control the application on the connected device.
- ❑ When you touch the display in this function, “Don’t Touch” mark appears on the upper right corner of the screen.

Using your iPhone or smartphone applications

1 Connect your iPhone.

- ➔ For details of the connections, refer to the Installation Manual.

2 Press the HOME button to display the Top menu screen.

3 Touch [APPS].

A message, which notifies you that your iPhone can launch the application, appears on the screen.

A message, which asks you whether you want to launch your application, appears on your iPhone.

4 Use your iPhone to refuse to launch the application.

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

The black screen appears.

6 Launch an application on your iPhone.

An image of the application appears on the screen.

7 Press the HOME button to return to the Top menu screen.

Displaying the image of your application (iPhone with Lightning connector)

You can set an image of an application for smartphone, which is not compatible with **AppRadio Mode**, to be shown on the screen.

- Depending on the type of application, you may not be able to see the image on the screen.
- When you use this function, do not connect other devices via Bluetooth wireless technology. Be sure to disconnect your Bluetooth device before using this function.
- You can only control the application on the connected device.

- When you touch the display in this function, "Don't Touch" mark appears on the upper right corner of the screen.

1 Connect your iPhone.

- The cable connection method varies depending on your device.
- ➔ For details of the connections, refer to the Installation Manual.

2 Press the HOME button to display the Top menu screen.

3 Touch [APPS].

The image in your iPhone appears on the screen.

4 Launch an application on your iPhone.

An image of the application appears on the screen.

5 Press the HOME button to return to the Top menu screen.

Displaying the image of your application (smartphone)

You can set an image of an application for smartphone, which is not compatible with **AppRadio Mode**, to be shown on the screen.

- Compatibility with all smartphones is not guaranteed.
- When you use this function, do not connect other devices via Bluetooth wireless technology. Be sure to disconnect your Bluetooth device before using this function.
- You can only control the application on the connected device.
- When you touch the display in this function, "Don't Touch" mark appears on the upper right corner of the screen.

1 Connect your smartphone to this product via the separately sold App Connectivity Kit (CD-AH200).

- The cable connection method varies depending on your device.

Using your iPhone or smartphone applications

- ➔ For details of the connections, refer to the Installation Manual.

2 Press the HOME button to display the Top menu screen.

3 Touch [APPS].

The image in your smartphone appears on the screen.

4 Launch an application on your smartphone.

An image of the application appears on the screen.

5 Press the HOME button to return to the Top menu screen. □

Using Android Auto

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 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>
- This function is available for the **Android Auto**-compatible device only.
- The compatible finger gestures vary depending on the application for a smartphone.

To use **Android Auto**, set "**Mode**" in "**Smartphone Setup**" to "**Android Auto**" beforehand.

- ➔ For details, refer to *Setting the device connection method* on page 39.

- 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.

Starting procedure

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

- ➔ For details, refer to Chapter 5.
- To achieve optimum usability of **Android Auto**, set the driving position setting correctly according to the vehicle.
 - ➔ For details, refer to *Setting the driving position* on page 83.

1 Connect an Android Auto-compatible device to this product via the separately sold USB interface cable for use with Android devices (CD-MU200).

- ➔ For details of the connections, refer to the Installation Manual.

2 Press the HOME button to display the Top menu screen.

3 Touch [Android Auto].

The Bluetooth connection with the **Android Auto**-compatible device will automatically be established.

Using your iPhone or smartphone applications

- ❑ If **Android Auto** is turned on during a call on a mobile phone other than the **Android Auto**-compatible device, the Bluetooth connection will be terminated after the call ends.

4 Operate the application.

- ➔ For details on adjusting the volume, refer to *Adjusting the volume* on page 83.
- ❑ The **Android Auto** function may not operate properly if the Bluetooth connection with the **Android Auto**-compatible device is terminated.

Setting the driving position

To achieve optimum usability of **Android Auto**, set the driving position setting correctly according to the vehicle.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “**System**” screen appears.

3 Touch [Driving Position].

4 Touch the item you want to set.

- **Left** (default):
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/alert sound volume separately from the main sound volume when **Android Auto** is used.

● Touch the VOL (+/-) button.



- ① Touch to mute. Touch again to unmute.
- ② Displays the main sound volume.
- ③ Adjusts the guidance volume/alert sound volume.

Each touch of [+] or [-] increases or decreases the volume level.

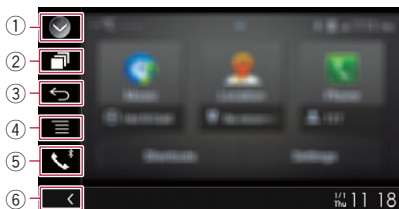
- ❑ You cannot adjust the volume of the main sound on the screen. Touch the **VOL (+/-)** button to adjust the volume of the main sound.
- ❑ The volume menu is displayed for four seconds. If the screen disappears, touch the **VOL (+/-)** button again. The screen reappears. ❑

Using MirrorLink mode

When you connect a **MirrorLink** device with compatible applications installed, you can control the applications for the mobile device directly from this product (**MirrorLink** mode). You can view and operate the compatible applications via the display with multi-touch gestures like tapping, dragging, scrolling, and flicking.

- ❑ Multi-touch gestures may be disabled depending on the **MirrorLink** device that is connected.

Using the touch panel keys (App control side bar)



- ① **Displays the source list.**
 - ➔ For details, refer to *Selecting a front source on the source list* on page 22.
- ② **Displays the launcher application screen.**
- ③ **Displays the previous screen.**
 - ❑ Depending on the type of **MirrorLink** device, this key is not available.
- ④ **Displays the menu screen.**
 - ❑ Depending on the type of **MirrorLink** device, this key is not available.
- ⑤ **Displays the Phone menu screen.**
 - ➔ For details, refer to *Displaying the phone menu* on page 31.
- ⑥ **Displays the current source.**
 - ❑ In **MirrorLink** mode, App control side bar will appear.
 - ❑ If you press the **HOME** button twice, the App control side bar will disappear. Press the **HOME** button twice again, and the App control side bar will appear.

Starting procedure

When connecting a **MirrorLink** device to this product, you must select the method for connecting your device. Settings are required according to the connected device.

➔ For details, refer to Chapter 5.

1 Unlock your MirrorLink device.

2 Connect your MirrorLink device to this product via the separately sold USB interface cable for use with MirrorLink devices (CD-MU200).

➔ For details of the connections, refer to the Installation Manual.

3 Press the HOME button to display the Top menu screen.

4 Touch [APPS].

If the launcher application is installed in the **MirrorLink** device, the application launches. If not, the Application menu screen will appear.

5 Touch the desired application icon.

The desired application is launched, and the application operation screen appears.

❑ Some applications may not launch depending on the state of the connected device. If it does not launch, launch the application according to the application startup message.

6 Operate the application.

7 Press the HOME button to go back to the Top menu screen. ■

Using the audio mix function

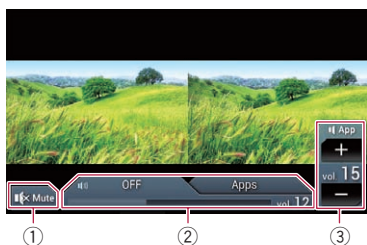
You can output audio mixing AV source and an application for iPhone or smartphone when the **AppRadio Mode** or **MirrorLink** mode is used.

1 Start up the AppRadio Mode or MirrorLink mode.

2 Press the VOL (+/-) button.

The audio mix menu will be displayed on the screen.

Using your iPhone or smartphone applications



- 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). The App volume is displayed. If you touch the App volume, the volume keys will be displayed.
 - Right tab: The audio mix function is disabled (mix off).
- ③ Adjusts the application audio volume. Each touch of [+] or [-] increases or decreases the volume level.
 - ❑ The AV operation screen and the Application screen can be switched by pressing the **MODE** button.
 - ❑ The right tab is not displayed on the AV operation screen.
 - ❑ You cannot adjust the volume of the main sound on the screen. Press the **VOL (+/-)** button to adjust the volume of the main sound.
 - ❑ The audio mix menu is displayed for four seconds. If the screen disappears, press the **VOL (+/-)** button again. The screen reappears. ■

⚠ 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.

When you connect an iPhone or a smartphone with the Aha Radio installed, you can control, view, and/or listen to Aha Radio content from this product.

- ❑ In this chapter, iPhone and iPod touch will be referred to as "iPhone".
- ❑ For details concerning operations, refer to the Help and Tips section within the Aha Radio application.
- ❑ Aha Radio stations may require initial setup or sign in before the station can be accessed.
- ❑ Be sure to read *Using app-based connected content* before you perform this operation.
 - ➔ For details, refer to *Using app-based connected content* on page 158.

Notes:

- Certain functionality of the Aha Radio service may not be available when accessing the service through this product, including, but not limited to, creating new Aha stations, deleting Aha stations, recording 'shouts' by voice, adjusting Aha Radio App settings, logging into Facebook, creating a Facebook account, logging into Twitter, or creating a Twitter account.
- Aha Radio is a service not affiliated with Pioneer. More information is available at <http://www.aharadio.com/>.
- A specific version of the Aha Radio application must be installed on your iPhone or smartphone to enjoy Aha Radio content on this product.

Because the application for the iPhone or smartphone is not provided by Pioneer, the re-

quired version of the application may not yet be available at the time of purchase of this product.

Availability, version and update information can be found at

<http://www.pioneer.eu/aharadio>










Using the touch panel keys



- ① **Displays the source list.**
 - ➔ For details, refer to *Selecting a front source on the source list* on page 22.
- ② **Displays the Time and date setting screen.**
 - ➔ For details, refer to *Setting the time and date* on page 135.
- ③ **Displays the Setting menu screen.**
- ④ **Recalls equaliser curves.**
 - ➔ For details, refer to *Using the equaliser* on page 117.
- ⑤ **Selects an Aha Radio station from the list.**

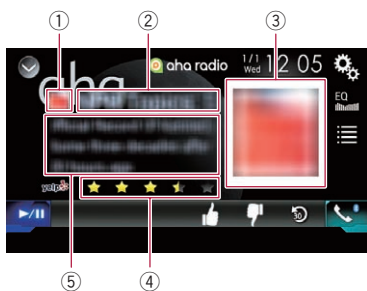
Touching this key displays the list of the available Aha Radio stations. Touch the desired Aha Radio station to change Aha Radio sources.
- ⑥ **Displays the Phone menu screen.**
 - ➔ For details, refer to *Displaying the phone menu* on page 31.
- ⑦ **Performs additional functions of each station or content currently playing.**
 - ❑ The icons displayed vary depending on each station or content.

Using Aha Radio

Indicator	Meaning
	Touching the key retweets the selected tweets with your Twitter account.
	Touching the key performs fast reverse of the current content for 30 seconds.
	Touching the key "dislikes" the current content. <input type="checkbox"/> Depending on the content, touching  or  cancels "dislikes".
	Touching the key "likes" the current content. <input type="checkbox"/> Depending on the content, touching  or  cancels "likes".
	Touching the key lets you make a call to a phone number registered in the current content using the hands-free function.

- ⑧ Switches between playback and pause.

Reading the screen



- ① **Station mark**
 ② **Station name**
 Shows the name of the Aha Radio station to which this product is currently tuned.
 ③ **Content image**
 Displays an image of the current content if available.
 ④ **Rating information**

Shows the rated value of the current content displayed if available.

- ⑤ **Current station information**
 Shows information on the content currently being played.
 The item is blank if there is no corresponding information.

Starting procedure

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

- ➔ For details, refer to Chapter 5.

For iPhone with a 30-pin connector users

- 1 **Unlock your iPhone.**
- 2 **Connect your iPhone.**
 Connect via USB or Bluetooth.
 ➔ For details of the Bluetooth connection, refer to *Registering your Bluetooth devices* on page 26.

- 3 **Display the AV source selection screen.**
 ➔ For details of the operations, refer to *Displaying the AV operation screen* on page 22.

- 4 **Touch [aha] on the AV source selection screen.**

- 5 **Use the touch panel keys on the screen to control Aha Radio.**
 ➔ For details, refer to *Using the touch panel keys* on page 86.

For iPhone with a Lightning connector users

- 1 **Unlock your iPhone.**
- 2 **Connect your iPhone.**
 Connect via USB, Bluetooth, or HDMI and Bluetooth.

- ➔ For details of the Bluetooth connection, refer to *Registering your Bluetooth devices* on page 26.
- ❑ The cable connection method varies depending on your device.
 - ➔ For details of the connections, refer to the Installation Manual.

3 Display the AV source selection screen.

- ➔ For details of the operations, refer to *Displaying the AV operation screen* on page 22.

4 Touch [aha] on the AV source selection screen.

When you touch [aha], this product will start establishing a Bluetooth connection.

After the connection is successfully established, the touch panel key on the “aha” screen is activated.

5 Use the touch panel keys on the screen to control Aha Radio.

- ➔ For details, refer to *Using the touch panel keys* on page 86.

After the connection is successfully established, the touch panel key on the “aha” screen is activated.

5 Use the touch panel keys on the screen to control Aha Radio.

- ➔ For details, refer to *Using the touch panel keys* on page 86. ❑

Operating with the hardware buttons

Press the TRK button.

You can skip contents forward or backward. ❑

For smartphone users

1 Unlock your smartphone.

2 Connect your smartphone.

- ❑ Connect via Bluetooth, or HDMI and Bluetooth.
 - ➔ For details of the Bluetooth connection, refer to *Registering your Bluetooth devices* on page 26.
- ❑ The cable connection method varies depending on your device.
 - ➔ For details of the connections, refer to the Installation Manual.

3 Display the AV source selection screen.

- ➔ For details of the operations, refer to *Displaying the AV operation screen* on page 22.

4 Touch [aha] on the AV source selection screen.

When you touch [aha], this product will start establishing a Bluetooth connection.

Using a Bluetooth audio player

You can control a Bluetooth audio player.

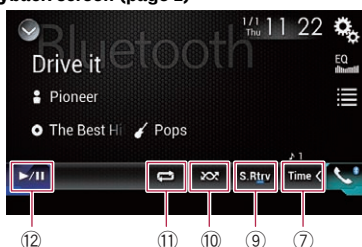
- ❑ Before using the Bluetooth audio player, you must register and connect the device to this product.
 - ➔ For details, refer to *Registering your Bluetooth devices* on page 26.
- ❑ Operations may vary depending on the Bluetooth audio player.
- ❑ Depending on the Bluetooth audio player connected to 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.
- ❑ Since a number of Bluetooth audio players are available on the market, operations with your Bluetooth audio player using this product vary considerably in range. Please refer to the instruction manual that came with your Bluetooth audio player as well as this manual while operating your player on this product.
- ❑ While you are listening to songs on your Bluetooth audio player, please refrain from operating your mobile phone as much as possible. If you try operating your mobile phone, the signal may cause noise for song playback.
- ❑ Even if you switch to another source while listening to a song on your Bluetooth audio player, song playback may continue.
- ❑ Depending on the Bluetooth audio player you connected to this product, operations on this product to control the player may differ from those explained in this manual.
- ❑ When you are talking on a mobile phone connected to this product via Bluetooth wireless technology, song playback from your Bluetooth audio player connected to this product may be paused.
- ❑ You cannot use Bluetooth audio player when the connecting cable for using **AppRadio Mode** is connected.

Using the touch panel keys

Playback screen (page 1)



Playback screen (page 2)



- ① **Displays the source list.**
 - ➔ For details, refer to *Selecting a front source on the source list* on page 22.
- ② **Displays the Time and date setting screen.**
 - ➔ For details, refer to *Setting the time and date* on page 135.
- ③ **Displays the Setting menu screen.**
- ④ **Recalls equaliser curves.**
 - ➔ For details, refer to *Using the equaliser* on page 117.
- ⑤ **Selects a file from the list.**
 - ➔ For details, refer to *Selecting files from the file name list* on page 91.
- ⑥ **Displays the Phone menu screen.**
 - ➔ For details, refer to *Displaying the phone menu* on page 31.
- ⑦ **Switches to the next or previous page of touch panel keys.**
- ⑧ **Skips files forward or backward.**
- ⑨ **Uses “Sound Retriever” function.**
 - ➔ For details, refer to *Setting the “Sound Retriever” function* on page 136.

- ⑩ **Plays files in random order.**
 - For details, refer to *Playing files in random order* on page 91.
- ⑪ **Sets a repeat play range.**
 - For details, refer to *Setting a repeat play range* on page 91.
- ⑫ **Switches between playback and pause.**

- In the following cases, file information will only be displayed after a file starts or resumes playing:
 - Bluetooth audio player compatible with AVRCP1.3 is connected, and the playback is started by the operation on the device.
 - Another file is selected while playback is paused.

Reading the screen



- ① **Current time and date**
- ② **File number indicator**
 - Shows the file number currently playing (when available).
- ③ **Play time indicator**
 - Shows the elapsed playing time within the current file (when available).
- ④ **Current file information**
 - If the connected Bluetooth audio player features AVRCP 1.3, the following file information will be displayed.
 - **Track title**
 - Shows the title of the track currently playing (when available).
 - **Artist name**
 - Shows the name of the artist for the track currently playing (when available).
 - **Album title**
 - Shows the title of the album of the current file (when available).
 - **Genre**
 - Shows the genre of the current file (when available).

Starting procedure

- 1 Press the HOME button to display the Top menu screen.
- 2 Touch the following keys in the following order.



The “System” screen appears.

- 3 Touch [AV Source Settings].
- 4 Confirm that “Bluetooth Audio” is turned on.
 - The default setting is “On”.
- 5 Display the AV source selection screen.
 - For details of the operations, refer to *Displaying the AV operation screen* on page 22.
- 6 Touch [Bluetooth Audio] on the AV source selection screen.
 - The “Bluetooth” screen appears.
- 7 Use the touch panel keys on the screen to control the Bluetooth audio player.
 - For details, refer to *Using the touch panel keys* on page 89.

Using a Bluetooth audio player

Selecting files from the file name list

The file name list lets you see the list of track titles for the Bluetooth audio player and lets you select one of them to play back.

- ❑ This function is only available when the connected Bluetooth audio player supports AVRCP 1.4.

1 Touch the following key.



Displays the file name list.

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. ❑

Playing files in random order

All of the files within the repeat play range can be played at random by only touching a single key.

- ❑ This function is only available when the connected Bluetooth audio player supports AVRCP 1.3.

● Touch the following key repeatedly until the desired setting appears.



Turns random play on or off.



Setting a repeat play range

The repeat play range can be changed by only touching a single key.

- ❑ This function is only available when the connected Bluetooth audio player supports AVRCP 1.3.

● Touch the following key repeatedly until the desired setting appears.



Changes the repeat play range between the current file and all audio files in the Bluetooth audio player.



Operating with the hardware buttons

Press the TRK button.

You can skip files forward or backward.

Press and hold the TRK button.

You can perform fast reverse or fast forward. ❑

Using an HDMI source

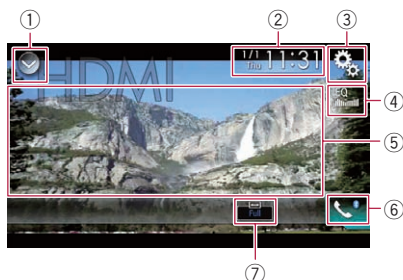
You can display the video image output by the device connected to this product. This section describes operations for an HDMI source.

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

CAUTION

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

Using the touch panel keys



- ① **Displays the source list.**
 - ➔ For details, refer to *Selecting a front source on the source list* on page 22.
- ② **Displays the Time and date setting screen.**
 - ➔ For details, refer to *Setting the time and date* on page 135.
- ③ **Displays the Setting menu screen.**
- ④ **Recalls equaliser curves.**
 - ➔ For details, refer to *Using the equaliser* on page 117.
- ⑤ **Hides the touch panel keys.**

Touching this area hides the touch panel keys.

 - ❑ Touch anywhere on the LCD screen to display the touch panel keys again.
- ⑥ **Displays the Phone menu screen.**
 - ➔ For details, refer to *Displaying the phone menu* on page 31.

- ⑦ **Changes the wide screen mode.**
 - ➔ For details, refer to *Changing the wide screen mode* on page 136. ❑

Reading the screen



- ① **Current time and date** ❑

Starting procedure

- 1 **Display the AV source selection screen.**
 - ➔ For details of the operations, refer to *Displaying the AV operation screen* on page 22.
- 2 **Touch [HDMI] on the AV source selection screen.**

The image is displayed on the screen.
- 3 **Use the touch panel keys on the screen to control the external unit.**
 - ➔ For details, refer to *Using the touch panel keys* on page 92. ❑

Using an AUX source

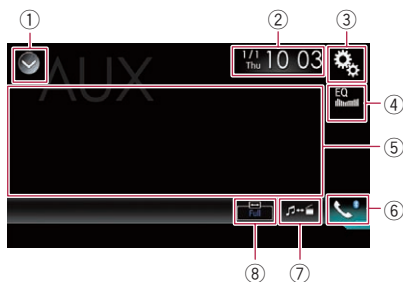
You can display the video image output by the device connected to this product. This section describes operations for an AUX source.

- ❑ A Mini-jack AV cable (CD-RM10) (sold separately) is required for connection.
 - ➔ For details of the connection method, refer to the Installation Manual.

CAUTION

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

Using the touch panel keys



- ① **Displays the source list.**
 - ➔ For details, refer to *Selecting a front source on the source list* on page 22.
- ② **Displays the Time and date setting screen.**
 - ➔ For details, refer to *Setting the time and date* on page 135.
- ③ **Displays the Setting menu screen.**
- ④ **Recalls equaliser curves.**
 - ➔ For details, refer to *Using the equaliser* on page 117.
- ⑤ **Hides the touch panel keys.**

Touching this area hides the touch panel keys.

 - ❑ Touch anywhere on the LCD screen to display the touch panel keys again.
- ⑥ **Displays the Phone menu screen.**
 - ➔ For details, refer to *Displaying the phone menu* on page 31.

- ⑦ **Switches the operation screen.**
 - ➔ For details, refer to *Switching the operation screen* on page 94.
- ⑧ **Changes the wide screen mode.**
 - ➔ For details, refer to *Changing the wide screen mode* on page 136.

Reading the screen



- ① **Current time and date**

Starting procedure

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

- 1 **Press the HOME button to display the Top menu screen.**
- 2 **Touch the following keys in the following order.**



The “System” screen appears.

- 3 **Touch [Input/Output Settings].**
- 4 **Confirm that “AUX Input” is turned on.**
 - ❑ The default setting is “On”.
- 5 **Display the AV source selection screen.**
 - ➔ For details of the operations, refer to *Displaying the AV operation screen* on page 22.

6 Touch [AUX] on the AV source selection screen.

The image is displayed on the screen.

7 Use the touch panel keys on the screen to control the external unit.

- ➔ For details, refer to *Using the touch panel keys* on page 93.

Setting the video signal

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

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

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “**Video Setup**” screen appears.

3 Touch [Video Signal Setting].

4 Touch [AUX].

The pop-up menu appears.

5 Touch the item you want to set.

- **Auto** (default):
Adjusts the video signal setting automatically.
- **PAL**:
Sets the video signal to PAL.
- **NTSC**:
Sets the video signal to NTSC.
- **PAL-M**:
Sets the video signal to PAL-M.
- **PAL-N**:
Sets the video signal to PAL-N.
- **SECAM**:
Sets the video signal to SECAM.

Switching the operation screen

You can switch between the screen to operate music files and that to operate video files.

● Touch the following key.



Switches between the screen to operate video files and that to operate music files.



Using AV input

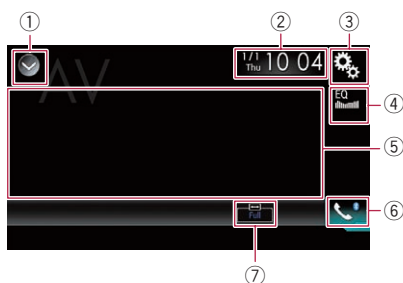
You can display the video image output by the device connected to this product.

- For details of the connection method, refer to the Installation Manual.

CAUTION

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

Using the touch panel keys

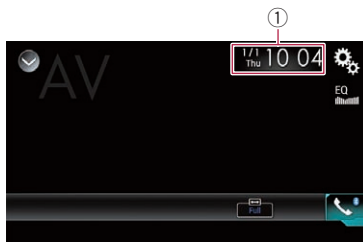


- Displays the source list.**
 - For details, refer to *Selecting a front source on the source list* on page 22.
- Displays the Time and date setting screen.**
 - For details, refer to *Setting the time and date* on page 135.
- Displays the Setting menu screen.**
- Recalls equaliser curves.**
 - For details, refer to *Using the equaliser* on page 117.
- Hides the touch panel keys.**

Touching this area hides the touch panel keys.

 - Touch anywhere on the LCD screen to display the touch panel keys again.
- Displays the Phone menu screen.**
 - For details, refer to *Displaying the phone menu* on page 31.
- Changes the wide screen mode.**
 - For details, refer to *Changing the wide screen mode* on page 136.

Reading the screen



- Current time and date**

Starting procedure

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

- Press the HOME button to display the Top menu screen.**
- Touch the following keys in the following order.**



The “System” screen appears.

- Touch [Input/Output Settings].**
- Touch [AV Input].**

The pop-up menu appears.
- Touch [Source].**

The video image output by the connected external device can be displayed.

 - If “Source” is selected, “2nd Camera Input” is automatically set to “Off”.
- Display the AV source selection screen.**
 - For details of the operations, refer to *Displaying the AV operation screen* on page 22.
- Touch [AV] on the AV source selection screen.**

The image is displayed on the screen.

8 Use the touch panel keys on the screen to control the external unit.

- ➔ For details, refer to *Using the touch panel keys* on page 95.

Setting the video signal

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

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

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “Video Setup” screen appears.

3 Touch [Video Signal Setting].

4 Touch [AV].

The pop-up menu appears.

5 Touch the item you want to set.

- **Auto** (default):
Adjusts the video signal setting automatically.
- **PAL**:
Sets the video signal to PAL.
- **NTSC**:
Sets the video signal to NTSC.
- **PAL-M**:
Sets the video signal to PAL-M.
- **PAL-N**:
Sets the video signal to PAL-N.
- **SECAM**:
Sets the video signal to SECAM.

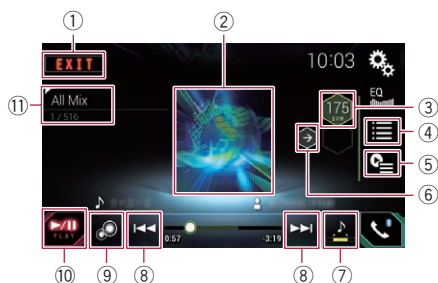
Using MIXTRAX

MIXTRAX is original technology for creating non-stop mixes of selections from your audio library, complete with DJ effects that make them sound as if a DJ is right there with you playing the music.

❑ You can turn MIXTRAX on by touching **[MIXTRAX]** on the playback screen of compressed audio files.

➔ For details, refer to *Using the touch panel keys* on page 57.

Touch panel keys



- ① Exits the MIXTRAX screen.
- ② Displays the LinkGate screen.
Touch the desired item. Songs related to the selected item are played.
- ③ Specifies the BPM.
The original BPM is not displayed during playback.
- ④ Displays the item selection screen.
➔ For details of the operations, refer to *Selecting an item to play songs* on page 97.
- ⑤ Displays the playback list screen.
➔ For details of the operations, refer to *Selecting songs not to be played* on page 97.
- ⑥ Sets to the original BPM (Beats Per Minute).
- ⑦ Specifies the playback portion.
➔ For details of the operations, refer to *Specifying the playback portion* on page 98.
- ⑧ Touch to select a track.
Touch and hold to fast forward or rewind.

- ⑨ Turns on or off the MIXTRAX original visual display.
- ⑩ Pauses and starts playback.
- ⑪ Displays the item selected on the LinkGate screen or item selection screen. ❑

Selecting an item to play songs

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

1 Touch the following key.



Displays the item selection screen.

2 Touch the following keys to select the item.



Displays the MIX pattern list.



Displays the tag list.



Displays the file list.

3 Select an item in the list.

Songs related to the selected item are played. ❑

Selecting songs not to be played

You can select items or songs not to be played.

1 Touch the following key.



Displays the playback list screen.

2 Touch the following key.



Displays the "Playback not allowed" screen.

3 Touch [Songs], [Artists] or [Albums].

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

An icon is displayed. Items displayed with the icon will not be played.

- If you touch [Unselect All], all the selections are cancelled.
- If you touch [Select All], all the items are selected.

Specifying the playback portion

You can specify the playback portion.

● Touch the following key repeatedly until the desired setting appears.



Changes the playback portion.

- (default):
Plays back a middle portion.
 - :
Plays back a long portion.
 - :
Plays back a short portion.
- The most suitable sound effect is automatically applied when switching to the next song.

Setting the flash pattern

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

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "System" screen appears.

3 Touch [AV Source Settings].

4 Touch [MIXTRAX Settings].

5 Touch [Flash Pattern].

The pop-up menu appears.

6 Touch the item you want to set.

- **Sound1** (default) to **Sound6**:
The flash pattern changes according to the sound level. Select a desired mode.
- **L-Pass1** to **L-Pass6**:
The flash pattern changes according to the bass level. Select a desired mode.
- **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.

System settings

Setting the FM tuning step

Depending on the region, the tuning step can be changed. The FM tuning step can be switched between 100 kHz and 50 kHz.

This setting is available when the source is turned off.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "System" screen appears.

3 Touch [AV Source Settings].

4 Touch [Radio Settings].

5 Touch [FM Step] repeatedly until the desired setting appears.

- **100kHz** (default):
Switches to 100 kHz.
 - **50kHz**:
Switches to 50 kHz.
- If [TA Interrupt] and [Alternative FREQ] are set to "Off", the seek step is set to "50kHz" even if "100kHz" is selected.

Activating the Bluetooth audio source

You need to activate the Bluetooth audio source in order to use a Bluetooth audio player.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "System" screen appears.

3 Touch [AV Source Settings].

4 Touch [Bluetooth Audio] repeatedly until the desired setting appears.

- **On** (default):
Activates the Bluetooth audio source.
- **Off**:
Deactivates the Bluetooth audio source.

Setting the ever scroll

When "Ever Scroll" is set to "On", recorded text information scrolls continuously in the display. Set to "Off" if you prefer the information to scroll just once.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "System" screen appears.

3 Touch [Ever Scroll] repeatedly until the desired setting appears.

- **Off** (default):
Turns the ever scroll setting off.
- **On**:
Turns the ever scroll setting on.

Setting AV input

You can use external video equipment such as portable players connected to this product with this setting.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The **"System"** screen appears.

3 Touch [Input/Output Settings].

4 Touch [AV Input].

The pop-up menu appears.

5 Touch the item you want to set.

- **Off** (default):
Deactivates the AV source.
- **Source:**
Displays the video image output by the connected external device.
- **Camera:**
Displays the image output by the connected external camera.
 - If **"Camera"** is selected, **"2nd Camera Input"** is automatically set to **"On"**.
 - If **"Off"** or **"Source"** is selected, **"2nd Camera Input"** is automatically set to **"Off"**.

Setting the rear view camera

The following two functions are available. A separately sold rear view camera (e.g. ND-BC6) 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, the screen automatically switches to full-screen rear view camera image.

- If the gearstick is aligned to the REVERSE (R) position immediately after the system of this product is started up, only the camera image will be displayed and the parking assist guidelines will not be displayed. The parking assist guidelines will be displayed on the camera image after a little while. Be sure to check the conditions around the vehicle even before the guidelines and the message are displayed.

Camera for Camera View mode

Camera View can be displayed at all times (e.g. when monitoring an attached trailer,

etc.). 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 viewable.

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 aligned 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 **"Camera Polarity"**.

Setting rear view camera activation

To view images of the rear view camera on the screen of this product, **"Back Camera Input"** needs to be set to **"On"**.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The **"System"** screen appears.

3 Touch [Camera settings].

4 Touch [Back Camera Input] repeatedly until the desired setting appears.

- **Off** (default):
Turns the back camera input setting off.
- **On:**
Turns the back camera input setting on.

System settings

Setting the polarity of the rear view camera

- 1 Press the HOME button to display the Top menu screen.
- 2 Touch the following keys in the following order.



The “System” screen appears.

- 3 Touch [Camera settings].
- 4 Touch [Camera Polarity] repeatedly until the desired setting appears.

- **Battery** (default):
When the polarity of the connected lead is positive while the gearstick is in the REVERSE (R) position.
- **Ground**:
When the polarity of the connected lead is negative while the gearstick is in the REVERSE (R) position.

When the gearstick is aligned to the REVERSE (R) position after setting the rear view camera, the rear view image appears.

Setting the reversed image display for the rear view image

Rear view camera images are displayed reversed (as mirror images) on the front screen except when a rear view camera that can output images in the correct direction is used. You can set whether to reverse the rear view camera images to be displayed on the front screen.

- This setting is available only when you stop your vehicle in a safe place and apply the handbrake.
- This function is available only when “Back Camera Input” is “On”.
 - ➔ For details, refer to *Setting rear view camera activation* on page 100.

- 1 Press the HOME button to display the Top menu screen.
- 2 Touch the following keys in the following order.



The “System” screen appears.

- 3 Touch [Camera settings].
- 4 Touch [Back Camera: Reverse Video] repeatedly until the desired setting appears.
 - **Off** (default):
Does not reverse the rear view camera images.
 - **On**:
Reverses the rear view camera images.

Setting the camera for Camera View mode

To display **Camera View** at all times, “Camera View” needs to be set to “On”.

- To set the rear view camera for **Camera View** mode, “Back Camera Input” needs to be set to “On”.
 - ➔ For details, refer to *Setting rear view camera activation* on page 100.
- To set the second camera for **Camera View** mode, set “AV Input” to “Camera” or set “2nd Camera Input” to “On”.
 - ➔ For details, refer to *Setting AV input* on page 99.
 - ➔ For details, refer to *Setting the second camera input* on page 103.
- You can also turn this function on by touching [Camera View] on the AV source selection screen or in the source list.

- 1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “System” screen appears.

3 Touch [Camera settings].

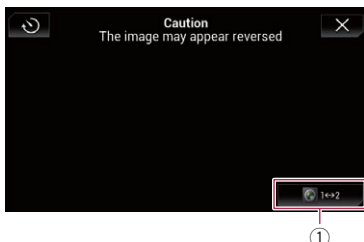
4 Touch [Camera View] repeatedly until the desired setting appears.

- **Off** (default):
Turns the camera view setting off.
- **On**:
Turns the camera view setting on.

If no operations are performed for seven seconds after the AV operation screen is displayed, the camera view will appear automatically.

- If you touch the screen while the camera view is displayed, the displayed image will turn off temporarily.

When the camera view of both rear view camera and second camera are available, the key to switch the display appears.



- ① Switches the display between rear view image and second camera image.

Displaying the parking assist guidelines

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



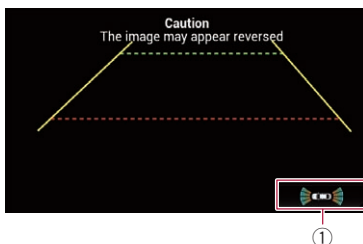
The “System” screen appears.

3 Touch [Camera settings].

4 Touch [Parking Assist Guide] repeatedly until the desired setting appears.

- **Off** (default):
Hides the guidelines.
- **On**:
Displays the guidelines.

When the gearstick is aligned to the REVERSE (R) position after setting the rear view camera, the rear view image appears.



- ① Switches the display to the “Parking Assist” screen.
- If you press and hold the **MUTE** button, the rear view image disappears.

Setting guidelines on the rear view image

! CAUTION

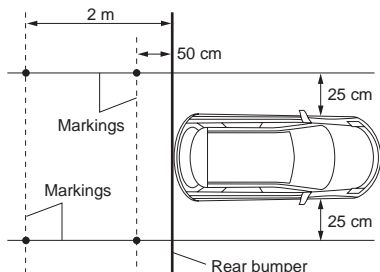
- When adjusting the guidelines, be sure to park the vehicle in a safe place and apply the handbrake.
- Before getting out of the car to place the markings, be sure to turn the ignition switch off (ACC OFF).

System settings

- 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 approximately 25 cm from each side of the vehicle, and approximately 50 cm and 2 m from the rear bumper.



3 Press the HOME button to display the Top menu screen.

4 Touch the following keys in the following order.



The “**System**” screen appears.

5 Touch [Camera settings].

6 Touch [Parking Assist Guide Adjust].

7 Set the guidelines by dragging the four points.

8 Touch the following keys to adjust the position of the point if necessary.



Moves the point to the left.



Moves the point to the right.



Moves the point upward.



Moves the point downward.



Extends the line to the left and right from the current centre point of the distance guideline. The adjustment points on the lateral coordinates at both ends will also move.



Shortens the line from the left and right to the current centre point of the distance guideline. The adjustment points on the lateral coordinates at both ends will also move.

Default

Resets the settings of the distance and vehicle width guidelines and adjustment points to the default.

- When a point is moved, the distance from the initial value is displayed at the bottom of the screen.

Setting the second camera input

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

Setting the second camera activation

- To view images of the second camera on the screen of this product, “**2nd Camera Input**” needs to be set to “**On**”.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "System" screen appears.

3 Touch [Camera settings].

4 Touch [2nd Camera Input] repeatedly until the desired setting appears.

- **Off** (default):
Turns the second camera input setting off.
- **On**:
Turns the second camera input setting on.
- ☐ The confirmation message appears if setting "2nd Camera Input" to "On" while the AV source is on. The AV source will turn off if "Yes" is selected, and "2nd Camera Input" will be set to "On". Select "No" to cancel setting "2nd Camera Input" to "On".
- ☐ If "On" is selected, "AV Input" is automatically set to "Camera".
- ☐ If "Off" is selected, "AV Input" is automatically set to "Off".

Setting the reversed image setting for the second camera input image

Second camera images are displayed reversed (as mirror images) on the front screen except when a second view camera that can output images in the correct direction is used. You can set whether to reverse the second camera images to be displayed on the front screen.

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

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "System" screen appears.

3 Touch [Camera settings].

4 Touch [2nd Camera: Reverse video] repeatedly until the desired setting appears.

- **Off** (default):
Does not reverse the second camera images.
- **On**:
Reverses the second camera images. ☐

Setting the safe mode

For safety reasons, you can limit the functions that are available while your vehicle is in motion.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "System" screen appears.

3 Touch [Safe Mode] repeatedly until the desired setting appears.

- **On** (default):
Activates the safe mode function.
- **Off**:
Deactivates the safe mode function. ☐

Turning off the demo screen

If the demo screen appears, perform the following procedure to turn off the demo screen.

1 Press the HOME button to display the Top menu screen.


System settings

2 Touch the following keys in the following order.



The “**System**” screen appears.

3 Touch [Demo Mode] repeatedly until the desired setting appears.

- **On** (default):
Displays the demo screen.
- **Off**:
Hides the demo screen.
- You can also turn off the demo screen by pressing and holding the **MUTE** button. 

Selecting the system language

The system language can be selected.

- The language can be changed for the following:
 - The “**Audio**” screen
 - The “**System**” screen
 - The “**Video Setup**” screen
 - The “**Bluetooth**” screen
 - Language for messages

Some operations on this product are prohibited from use while driving or require careful attention when operated. In such cases, a caution message will appear on the display. You can change the language for caution messages with this setting.
- 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 Press the **HOME** button to display the **Top menu** screen.

2 Touch the following keys in the following order.




The “**System**” screen appears.

3 Touch [System Language].



The pop-up menu appears.

4 Touch the desired language.

After the language is selected, the previous screen returns. 

Reversing the climate control status display

If the left/right display of the climate control status screen does not match that of the vehicle, the display can be reversed.

-  To configure this setting, the optional Vehicle Bus adapter must be connected.
-  For details of the operations, refer to *Displaying the operating status of the climate control panel* on page 133.


1 Press the **HOME** button to display the **Top menu** screen.

2 Touch the following keys in the following order.



The “**System**” screen appears.

3 Touch [Climate Reverse] repeatedly until the desired setting appears.

- **Off** (default):
Does not reverse the climate control status display.
- **On**:
Reverses the climate control status display. 

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 Press the **HOME** button to display the **Top menu screen**.
- 2 Touch the following keys in the following order.



The “**System**” screen appears.

- 3 Touch [**Keyboard**].
The pop-up menu appears.

- 4 Touch the desired language.
After the language is selected, the previous screen returns.

Setting the beep sound

- 1 Press the **HOME** button to display the **Top menu screen**.
- 2 Touch the following keys in the following order.



The “**System**” screen appears.

- 3 Touch [**Beep Tone**] repeatedly until the desired setting appears.
 - **On** (default):
Sounds a beep.
 - **Off**:
Does not sound a beep.

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 Press the **HOME** button to display the **Top menu screen**.

- 2 Touch the following keys in the following order.



The “**System**” screen appears.

- 3 Touch [**Touch Panel Calibration**].
The touch panel adjustment screen appears.

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

- 5 Press the **HOME** button.
The adjustment results are saved.

- 6 Press the **HOME** button once again.
Proceed to 16-point adjustment.
 - If you press and hold the **HOME** button, the adjustment is cancelled.

- 7 Gently touch the centre of the + mark displayed on the screen.


The target indicates the order.
After you touch all marks, the adjusted position data is saved.

- If you press the **HOME** button, the previous adjustment position returns.

System settings

- If you press and hold the **HOME** button, the adjustment is cancelled.

8 Press and hold the HOME button.

The adjustment results are saved. 

Setting the dimmer function

You can specify the timing that the dimmer function is to be turned on.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.




The “**System**” screen appears.

3 Touch [Dimmer Settings].

4 Touch [Dimmer Trigger].

The pop-up menu appears.

5 Touch the item you want to set.

- **Auto** (default):
Activates the dimmer function when the vehicle’s headlights are on (nighttime).
 - **Manual**:
Enables to set whether to activate the dimmer function.
 - **Time**:
Enables to set the duration of time for the dimmer function to be active.
- If “**Manual**” is selected, set whether to activate the dimmer function.
 - ➔ For details, refer to *Setting whether to activate the dimmer function* on page 107.
 - If “**Time**” is selected, specify the duration for the dimmer function to be active.
 - ➔ For details, refer to *Setting the duration of time for the dimmer function to be active* on page 107. 

Setting whether to activate the dimmer function

You can set whether to activate the dimmer function at nighttime.

- This function is available only when “**Dimmer Trigger**” is set to “**Manual**”.
 - ➔ For details, refer to *Setting the dimmer function* on page 107.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.




The “**System**” screen appears.

3 Touch [Dimmer Settings].

4 Touch [Day/Night].

The pop-up menu appears.

5 Touch the item you want to set.

- **Day** (default):
Deactivates the dimmer function.
- **Night**:
Activates the dimmer function. 

Setting the duration of time for the dimmer function to be active

You can set the duration of time for the dimmer function to be active.

- This function is available only when “**Dimmer Trigger**” is set to “**Time**”.
 - ➔ For details, refer to *Setting the dimmer function* on page 107.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "System" screen appears.

3 Touch [Dimmer Settings].

4 Touch [Dimmer Duration].

The duration setting bar appears.

5 Touch the desired points on the duration setting bar, or slide the cursors to specify the start time and the end time, respectively.

- The time display format depends on the "Time Format" setting.
- The value displayed at the centre of the duration setting bar ("12" for 12-hour format and "00" for 24-hour format) indicates midnight. The values to the left of the value at the centre are for the afternoon, and the values to the right of value at the centre are for the morning.
- The default values are "18:00" (start time) and "6:00" (end time).
- The value can be changed in 15-minute steps.

Adjusting the picture

You can adjust the picture for each source, the Application screen, 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 wish to adjust.

2 Press the HOME button to display the Top menu screen.

3 Touch the following keys in the following order.



The "System" screen appears.

4 Touch [Picture Adjustment].

5 Touch any of the following keys to select the function to be adjusted.

Picture adjustment items are displayed.

- **Brightness:**
Adjusts the black intensity.
- **Contrast:**
Adjusts the contrast.
- **Colour:**
Adjusts the colour saturation.
- **Hue:**
Adjusts the tone of colour (which colour is emphasised, red or green).
- **Dimmer Level:**
Adjusts the brightness of the display.
- **Temperature:**
Adjusts the colour temperature, resulting in a better white balance.
 - You can adjust **Hue** only when the colour system is set to NTSC.
 - If 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.

6 Touch the following keys to adjust the selected item.



Decreases the level of the selected item.



Increases the level of the selected item.



Selects the adjustable previous item.



Selects the adjustable next item.

System settings

Each time you touch the key, the level of the selected item increases or decreases.

- "Brightness", "Contrast", "Colour" and "Hue" can be adjusted from "-24" to "+24".
- "Dimmer Level" can be adjusted from "+1" to "+48".
- "Temperature" can be adjusted from "-3" to "+3".
- 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.
 - ➔ For details on setting the dimmer function, refer to *Setting the dimmer function* on page 107.
- The picture adjustment may not be available with some rear view cameras.
- The setting contents can be memorised separately for the following screens and video images.
 - DVD, Video-CD and Disc
 - AV
 - USB (Video) and USB (JPEG)
 - SD (Video) and SD (JPEG)
 - iPod (iPod with a 30-pin connector)
 - iPod (Video) and AppRadio Mode (iPod with a 30-pin connector)
 - HDMI and AppRadio Mode (HDMI)
 - Android Auto
 - MirrorLink
 - AUX
 - MIXTRAX, images output from the external device
 - Rear view camera

Displaying the firmware version

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "System" screen appears.

3 Touch [System Information].

4 Touch [Firmware Information].

The "Firmware Information" screen appears.

- You can check the open source licences of the functions that this product is equipped with under "Licence" on the "Firmware Information" screen.

Updating firmware

CAUTION

- 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.
- Use the USB port1 to update the firmware using a USB storage device.

1 Download the firmware update files.

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

3 Turn the source off.

- ➔ For details, refer to *Turning off the AV source* on page 23.

4 Press the HOME button to display the Top menu screen.

5 Touch the following keys in the following order.



The “**System**” screen appears.

6 Touch [System Information].

7 Touch [Firmware Update].

The “**Firmware Update**” screen appears.

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

- Follow the on-screen instructions to finish updating the firmware.
- This product will reset automatically after the firmware update is completed if the update is successful.
- When the firmware update starts, the source is turned off and the Bluetooth connection is disconnected.
- If an error message appears on the screen, touch [Continue] to proceed and start the recovery sequence.

Checking the connections of leads

Check that the leads are properly connected between this product and vehicle. Also check whether they are connected in the correct positions.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “**System**” screen appears.

3 Touch [System Information].

4 Touch [Connection Status].

The “**Connection Status**” screen appears.

- **Illumination**

When the headlights or small lamps of the vehicle are on, “**ON**” is displayed. When the small lamps of the vehicle are off, “**OFF**” is displayed. (If the orange/white lead is not connected, “**OFF**” appears.)

- **Vehicle Bus**

When the optional Vehicle Bus adapter is connected, “**OK**” is displayed. If not connected, “**NOK**” is displayed.

Audio adjustments

Using fader/balance adjustment

You can select a fader/balance setting that provides an ideal listening environment in all occupied seats.

- This function is available only when main audio is available.
- This function is available only when "**Rear Speaker**" is set to "**On**".
 - ➔ For details, refer to *Adjusting the front and rear speaker output* on page 114.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "**Audio**" screen appears.

3 Touch [Fader/Balance].

The "**Fader/Balance**" screen appears.

4 Touch the following keys to adjust the front/rear speaker balance.



Moves towards the front.



Moves towards the rear.

Each time you touch the keys, the front/rear speaker balance moves towards the front or rear.

- "**Front25**" to "**Rear25**" is displayed as the front/rear speaker balance moves from the front to rear.
- The default setting is "**F/R 0 L/R 0**".
- Set "**Front**" and "**Rear**" to "**0**" when using a dual speaker system.

5 Touch the following keys to adjust the left/right speaker balance.



Moves towards the left.



Moves towards the right.

Each time you touch the keys, the left/right speaker balance moves towards the left or right.

- "**Left25**" to "**Right25**" is displayed as the left/right speaker balance moves from the left to right.
- The default setting is "**L/R 0**".
- You can also set the fader/balance by dragging the point on the displayed table.

Using balance adjustment

You can adjust the balance between right/left sound output.

- This function is available only when main audio is available.
- This function is available only when "**Rear Speaker**" is set to "**Off**".
 - ➔ For details, refer to *Adjusting the front and rear speaker output* on page 114.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "**Audio**" screen appears.

3 Touch [Balance].

The "**Fader/Balance**" screen appears.

Audio adjustments

4 Touch the following keys to adjust the left/right speaker balance.



Moves towards the left.



Moves towards the right.

Each time you touch the keys, the left/right speaker balance moves towards the left or right.

- "Left25" to "Right25" is displayed as the left/right speaker balance moves from the left to right.
- The default setting is "L/R0".
- You can also set the fader/balance by dragging the point on the displayed table.

Switching sound muting/attenuation

Sound from this system is automatically muted or attenuated when a signal from equipment with a mute function is received.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "Audio" screen appears.

3 Touch [Mute Level].

The pop-up menu appears.

4 Touch the item you want to set.

- **ATT** (default):
The volume becomes 1/10.
- **Mute**:
The volume becomes 0.
- **Off**:
The volume does not change.

Adjusting source levels

The **SLA** (source level adjustment) function adjusts the volume level of each source to prevent radical changes in volume when switching between sources.

- This function is available only when main audio is available.
- 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 you want to adjust.

2 Press the HOME button to display the Top menu screen.

3 Touch the following keys in the following order.



The "Audio" screen appears.

4 Touch [Source Level Adjuster].

The "Source Level Adjuster" screen appears.

5 Touch the following keys to adjust the source volume.



Increases the source volume.



Decreases 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".

Audio adjustments

The following AV sources are set to the same source level adjustment volume automatically.

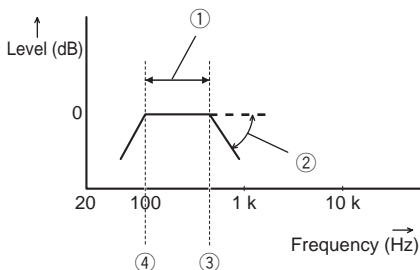
	Required cable (sold separately)	Smartphone Setup		AV sources
		Device	Connection	
iPod / iPhone with a 30-pin connector	CD-IU201V	iPhone/iPod	USB	USB1 iPod1 aha
	CD-IU201S	iPhone/iPod	USB	USB1 aha iPod1 AppRadio Mode
iPod / iPhone with a Lightning connector	<ul style="list-style-type: none"> • CD-IH202 • CD-IU52 • Lightning Digital AV Adapter 	iPhone/iPod	Digital AV adapter	aha AppRadio Mode HDMI
	CD-IU52	iPhone/iPod	USB	iPod1 aha
Android device	CD-MU200	Others	USB	Android Auto MirrorLink
	CD-AH200	Others	HDMI	aha AppRadio Mode HDMI

- ❑ When a USB storage device is connected to USB port 1 or USB port 2, the source level adjustment volume is automatically set to the same level as the USB port to which the device is connected. The source level adjustment volume that is automatically set varies depending on whether the device is connected to USB port 1 or USB port 2.
- ❑ When an iPod / iPhone with a Lightning connector is connected to USB port 1 or USB port 2 using a USB interface cable for iPod / iPhone (CD-IU52) (sold separately), the source level adjustment volume is automatically set to the same level as the USB port to which the iPod / iPhone with a Lightning connector is connected. The source level adjustment volume that is automatically set varies depending on whether the iPod / iPhone with a Lightning connector is connected to USB port 1 or USB port 2.
- ❑ When an **Android Auto**-compatible device or a MirrorLink device is connected to USB port 2, the source level adjustment volume

is automatically set to the same level as USB port 2. ❑

Adjusting the filter

The following adjustments can be made during filter adjustments. Make the appropriate adjustments for the reproduced frequency band and characteristics of the connected speaker unit.



- ① Reproduced frequency band
- ② Slope adjustment
- ③ Cut-off frequency of the LPF
- ④ Cut-off frequency of the HPF

Adjusting the front and rear speaker output

You can set the frequency range for the sound output from the front and rear speakers.

- This function is available only when main audio is available.

- 1 Press the HOME button to display the Top menu screen.
- 2 Touch the following keys in the following order.



The "Audio" screen appears.

- 3 Confirm that "Rear Speaker" is set to "On".

- The default setting is "On".

- 4 Touch [Crossover].

The "Cutoff" screen appears.

- 5 Touch the following keys to select "Front" or "Rear".



Selects the adjustable previous speaker.



Selects the adjustable next speaker.

- 6 Touch [HPF] to turn on.

- 7 Drag the line graph horizontally to adjust the range of cut-off frequency from "50" Hz to "200" Hz.

- The default setting is "100" Hz.

- 8 Drag the tip of the slope to adjust the range of level between "-6" dB/oct and "-18" dB/oct.

- The default setting is "-12" dB/oct.

Using the subwoofer output

This product is equipped with a subwoofer output mechanism, which can be turned on or off.

- This function is available only when main audio is available.

- 1 Press the HOME button to display the Top menu screen.
- 2 Touch the following keys in the following order.



The "Audio" screen appears.

- 3 Touch [Subwoofer] to set the subwoofer output "On".

- The default setting is "Off".

- 4 Touch [Subwoofer].

The "Cutoff" screen appears.

Audio adjustments

5 Touch the following keys to select "Subwoofer".



Selects the adjustable previous speaker.



Selects the adjustable next speaker.

6 Touch [LPF] to turn on.

7 Touch the following keys to select the phase of subwoofer output.



Sets the phase of subwoofer output to normal.



Sets the phase of subwoofer output to reverse.

8 Drag the line graph horizontally to adjust the range of cut-off frequency from "50" Hz to "200" Hz.

- The default setting is "100" Hz.

9 Drag the tip of the slope to adjust the range of level between "-6" dB/oct and "-18" dB/oct.

- The default setting is "-18" dB/oct.

Selecting the listening position

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

- This function is available only when main audio is available.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "Audio" screen appears.

3 Touch [Listening Position].

The "Listening Position" screen appears.

4 Touch the desired position.

- **Off** (default):
Changes the listening position setting to off.
- **Front:**
Changes the listening position setting to front.
- **Front-L:**
Changes the listening position setting to front left.
- **Front-R:**
Changes the listening position setting to front right.
- **All:**
Changes the listening position setting to all.

Adjusting the speaker output levels finely

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

- This function is available only when main audio is available.
- This function is available only when "Rear Speaker" is set to "On".
➤ For details, refer to *Adjusting the front and rear speaker output* on page 114.
- This function is available only when "Subwoofer" is set to "On".
➤ For details, refer to *Using the subwoofer output* on page 114.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "Audio" screen appears.

Audio adjustments

3 Touch [Speaker Level].

The “Speaker Level” screen appears.

4 Touch the following keys to select the listening position if necessary.



Selects the listening position.



- **Off:**
Changes the listening position setting to off.
 - **Front Left:**
Changes the listening position setting to front left.
 - **Front Right:**
Changes the listening position setting to front right.
 - **Front:**
Changes the listening position setting to front.
 - **All:**
Changes the listening position setting to all.
- If you change the listening position setting, the output levels of all the speakers will change in conjunction with the setting.

5 Touch the following keys to adjust the speaker output level.



Decreases the speaker level.



Increases the speaker level.

- “-24” dB to “10” dB is displayed as the distance to be corrected is increased or decreased.
- **Front Left:**
Changes the speaker level of the front left speaker.
 - **Front Right:**

Changes the speaker level of the front right speaker.

- **Rear Left:**
Changes the speaker level of the rear left speaker.
- **Rear Right:**
Changes the speaker level of the rear right speaker.
- **Subwoofer:**
Changes the speaker level of the subwoofer speaker.
 - If you touch [**Apply Auto EQ**], the result of “A-EQ&TA Measurement” will be applied to the speaker level setting.
 - To use this function, the vehicle’s acoustics must be measured in advance.

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.

- This function is available only when main audio is available.
- This function is available only when “Rear Speaker” is set to “On”.
 - ➔ For details, refer to *Adjusting the front and rear speaker output* on page 114.
- This function is available only when “Subwoofer” is set to “On”.
 - ➔ For details, refer to *Using the subwoofer output* on page 114.
- This function is available only when the listening position setting is set to “Front Left” or “Front Right”.
 - ➔ For details, refer to *Selecting the listening position* on page 115.

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

2 Press the HOME button to display the Top menu screen.

Audio adjustments

3 Touch the following keys in the following order.



The "Audio" screen appears.

4 Touch [Time Alignment].

The "Time Alignment" screen appears.

5 Touch the following keys to select the listening position if necessary.



Selects the listening position.



- **Off:**
Changes the listening position setting to off.
 - **Front Left:**
Changes the listening position setting to front left.
 - **Front Right:**
Changes the listening position setting to front right.
 - **Front:**
Changes the listening position setting to front.
 - **All:**
Changes the listening position setting to all.
- If you change the listening position setting, the output levels of all the speakers will change in conjunction with the setting.

6 Touch the following keys to input the distance between the selected speaker and the listening position.



Decreases the distance between the selected speaker and the selected listening position.



Increases the distance between the selected speaker and the selected listening position.

- "0.0" cm to "500.0" cm is displayed as the distance to be corrected is increased or decreased.
- **Front Left:**
Changes the distance between the front left speaker and the selected listening position.
- **Front Right:**
Changes the distance between the front right speaker and the selected listening position.
- **Rear Left:**
Changes the distance between the rear left speaker and the selected listening position.
- **Rear Right:**
Changes the distance between the rear right speaker and the selected listening position.
- **Subwoofer:**
Changes the distance between the subwoofer speaker and the selected listening position.
 - If you touch [TA On], the time alignment is turned off.
 - If you touch [Apply Auto EQ], the result of "A-EQ&TA Measurement" will be applied to the time alignment setting.
 - To use this function, the vehicle's acoustics must be measured in advance.

Using the equaliser

The equaliser lets you adjust equalisation to match the vehicle interior acoustic characteristics as desired.

Recalling equaliser curves

There are seven stored equaliser curves that you can easily recall at any time. Here is a list of the equaliser curves:

Equaliser curve

S.Bass is a curve in which only low-pitched sound is boosted.

Powerful is a curve in which low- and high-pitched sounds are boosted.

Natural is a curve in which low- and high-pitched sounds are slightly boosted.

Vocal is a curve in which the midrange, which is the human vocal range, is boosted.

Flat is a flat curve in which nothing is boosted.

Custom1 is an adjusted equaliser curve that you create. If you select this curve, the effect is applied to all AV sources.

Custom2 is an adjusted equaliser curve that you create. If you select this curve, the effect is applied to all AV sources.

- This function is available only when main audio is available.
- The default setting is **“Powerful”**.
- When **“Flat”** is selected, no supplement or correction is made to the sound. This is useful to check the effect of the equaliser curves by switching alternatively between **“Flat”** and a set equaliser curve.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The **“Audio”** screen appears.

3 Touch [Graphic EQ].

The **“Graphic EQ”** screen appears.

4 Touch the equaliser you want.

Customising the equaliser curves

You can adjust the currently selected equaliser curve setting as desired. Adjustments can be made with a 13-band graphic equaliser.

- This function is available only when main audio is available.
- If you make adjustments when a curve **“S.Bass”**, **“Powerful”**, **“Natural”**, **“Vocal”**, or **“Flat”** is selected, the equalizer curve settings will be changed to **“Custom1”** automatically.
- If you make adjustments when the **“Custom2”** curve is selected for example, the **“Custom2”** curve will be updated.
- “Custom1”** and **“Custom2”** curves can be created common to all sources.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The **“Audio”** screen appears.

3 Touch [Graphic EQ].

The **“Graphic EQ”** screen appears.

4 Touch one of the keys to select a curve that you want to use as the basis of customising.

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

- 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.

Using the auto-adjusted equaliser

You can set the auto-adjusted equaliser to suit the vehicle's acoustics. To use this function, the vehicle's acoustics must be measured in advance.

Audio adjustments

- For details of the operations, refer to *Adjusting the equaliser curve automatically (Auto EQ)* on page 119.
- ❑ To manually adjust the equaliser curve, set "Auto EQ&TA" to "Off".

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "Audio" screen appears.

3 Touch [Auto EQ&TA] repeatedly until the desired setting appears.

- **Off** (default):
Turns the Auto EQ&TA setting off.
- **On:**
Turns the Auto EQ&TA setting on. ❑

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 from the vehicle before performing Auto EQ. Sounds other than the measurement tone (surrounding sounds, engine sound, telephones ringing, etc.) may prevent correct measurement of the vehicle's acoustics.
- Be sure to perform Auto EQ using 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.

Audio adjustments

- The LPF on active subwoofers or external amps delay the lower sounds.
- If an error occurs during measurement, a message appears and measurement is cancelled. 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

- ❑ Auto EQ changes the audio settings as follows:
 - “**Auto EQ&TA**” is set to “**On**”.
 - ➔ For details, refer to *Using the auto-adjusted equaliser* on page 118.
 - The fader/balance settings return to the centre position.
 - ➔ For details, refer to *Using balance adjustment* on page 111.
 - The equaliser curve switches to “**Flat**”.
 - ➔ For details, refer to *Using the equaliser* on page 117.
 - The front and rear speakers will automatically be adjusted to a high pass filter setting.
- ❑ Previous settings for Auto EQ will be overwritten.
- ❑ Do not press the ▲ button to open or close the panel when you are using the microphone.

CAUTION

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

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 forward.

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. Noise from the fan in the air conditioner or heater may prevent correct Auto EQ.

5 Switch the AV source to “OFF”.

- ➔ For details of the operations, refer to *Displaying the AV operation screen* on page 22.

6 Press the HOME button to display the Top menu screen.

7 Touch the following keys in the following order.



The “**Audio**” screen appears.

8 Touch [A-EQ&TA Measurement].

The “**A-EQ&TA Measurement**” screen appears.

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

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

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

11 Touch [Start].

A 10-second countdown starts.

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

Audio adjustments

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

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

13 Wait until the measurement is completed.

When Auto EQ is completed, a message is displayed indicating that the measurement is completed.

- ❑ If the vehicle's acoustics cannot be measured correctly, an error message will be displayed.
- ❑ The measurement time varies depending on the type of vehicle.
- ❑ To stop the measurement, touch **[Stop]**.

14 Store the microphone carefully in the glove compartment 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. ▣

Selecting the background display

The background display can be selected from 8 different preset displays for the AV operation screen and 5 different preset displays for the Top menu screen. Furthermore, you can change the background display to other images imported from an external storage device (USB, SD).

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “Theme” screen appears.



3 Touch [Background].

- You can also change the screen for settings by touching [**illumination**], [**Theme**] or [**Clock**] on this screen.

4 Touch [Home] or [AV] to switch the screen displays.

- The setting contents can be memorised separately for the AV operation screen and the Top menu screen.

5 Touch the item you want to set.

- **Preset displays:**
Selects the desired preset background display.
-  (custom):
Displays the background display image imported from the external storage device (USB, SD).
➔ For details, refer to *Changing to the background display image stored on the external storage device (USB, SD)* on page 122.
-  (off):
Hides the background display.

Changing to the background display image stored on the external storage device (USB, SD)

You can change the background display image to an image imported from the external storage device (USB, SD).

- 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



CAUTION

Do not turn off the engine while importing an image from the external storage device (USB, SD).

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “Theme” screen appears.

3 Touch [Background].

- You can also change the screen for settings by touching [**illumination**], [**Theme**] or [**Clock**] on this screen.

4 Touch the following key.




Displays the list of the background display images stored on the external storage device (USB, SD).

5 Touch the desired external storage device (USB, SD).

6 Touch the image to use as the background display from the list.

The image is set as the background display.

Theme menu

- ❑ You can delete the imported image and restore the setting for the background display to the default by touching and holding the custom key. 

Setting the illumination colour

The illumination colour can be selected from 5 different colours. Furthermore, the illumination can be switched between these 5 colours in order.

Selecting the colour from the preset colours

You can select an illumination colour from the colour list.

- 1 Press the HOME button to display the Top menu screen.
- 2 Touch the following keys in the following order.





The “Theme” screen appears.

3 Touch [Illumination].

- ❑ You can also change the screen for settings by touching [Theme], [Background] or [Clock] on this screen.

4 Touch the colour you want.

- **Coloured keys:**
Selects the desired preset colour.
-  (custom):
Displays the screen to customise the illumination colour.
➔ For details, refer to *Creating a user-defined colour* on page 123.
-  (rainbow):
Shifts through the rainbow of colours gradually.

- ❑ You can preview the Top menu screen or the AV operation screen by touching [Home] or [AV] respectively.

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 Press the HOME button to display the Top menu screen.
- 2 Touch the following keys in the following order.



The “Theme” screen appears.

3 Touch [Illumination].

- ❑ You can also change the screen for settings by touching [Theme], [Background] or [Clock] on this screen.

4 Touch the following key.



Displays the screen to create a user-defined colour and store it to memory.

5 Touch the following keys.




Adjusts the brightness and the level of red, green and blue to create a favourite colour.



- ❑ You can also adjust the colour tone by dragging the colour bar.

6 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

A theme colour can be selected from 5 different colours.

1 Press the **HOME** button to display the **Top menu screen**.

2 Touch the following keys in the following order.



The “**Theme**” screen appears.

3 Touch **[Theme]**.

- You can also change the screen for settings by touching **[Illumination]**, **[Background]** or **[Clock]** on this screen.

4 Touch the colour you want.

- You can preview the Top menu screen or the AV operation screen by touching **[Home]** or **[AV]** respectively. □

Selecting the clock image

The clock on the AV operation screen and the Top menu screen can be selected from 3 different images.

1 Press the **HOME** button to display the **Top menu screen**.

2 Touch the following keys in the following order.



The “**Theme**” screen appears.


3 Touch **[Clock]**.

- You can also change the screen for settings by touching **[Illumination]**, **[Theme]** or **[Background]** on this screen.

4 Touch the item you want to set.

- **Preset images:**

Selects the desired preset clock image.

-  (off):
Hides the clock display.
- You can preview the Top menu screen or the AV operation screen by touching **[Home]** or **[AV]** respectively. □

Changing the preinstalled splash screen

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

1 Press the **HOME** button to display the **Top menu screen**.


2 Touch the following keys in the following order.



The “**Theme**” screen appears.

3 Touch **[Splash Screen]**.

4 Touch the item you want to set.

- **Preset images:**
Selects the desired preset splash screen image.
-  (custom):
Displays the splash screen image imported from the external storage device (USB, SD).
- ⇒ For details, refer to *Changing to the splash screen stored on the external storage device (USB, SD)* on page 125.

Theme menu

Changing to the splash screen stored on the external storage device (USB, SD)

You can change the splash screen to other images imported from the external storage device (USB, SD).

! CAUTION

Do not turn off the engine while importing an image from the external storage device (USB, SD).

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “Theme” screen appears.

3 Touch [Splash Screen].

4 Touch the following key.




Displays the list of the splash screens stored on the external storage device (USB, SD).

5 Touch the desired external storage device (USB, SD).

6 Touch the image to use as the splash screen from the list.

The image is set as the splash screen.

- ❑ You can delete the imported image and restore the setting on the splash screen to the default by touching and holding the custom key. 

Replicating the settings

Exporting “Theme” settings

You can export settings you have made on the “Theme” screen to an external storage device (USB, SD). These settings can be exported separately.

- ❑ This setting is available only when you stop your vehicle in a safe place and apply the handbrake.
- ❑ If multiple external storage devices are connected to this product, the order of priority for the targets that the “Theme” settings are exported to is as follows:
 - ① SD memory card
 - ② USB storage device that is connected to USB port 1
 - ③ USB storage device that is connected to USB port 2

! CAUTION

Do not turn off the engine while exporting the settings.

1 Insert the SD memory card into the SD card slot or plug the USB storage device into the USB connector.

- For details, refer to *Plugging in a USB storage device* on page 18.
- For details, refer to *Inserting and ejecting an SD memory card* on page 17.

2 Press the HOME button to display the Top menu screen.

3 Touch the following keys in the following order.



The “Theme” screen appears.

4 Touch [Export].

The “Settings Export” screen appears.

5 Touch the desired item.

- **Illumination:**
Selects the illumination colour setting.
- **Splash Screen:**
Selects the splash screen setting.
- **Select All:**
Selects all settings.

6 Touch [Export].

Data export starts.

After the data is exported, a completion message appears.

- The source is turned off and the Bluetooth connection is disconnected before the process starts.

➔ For details, refer to *Inserting and ejecting an SD memory card* on page 17.

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

2 Touch [Import].

Data import starts.

When the data is successfully imported, an import complete message is displayed.

- The source is turned off and the Bluetooth connection is disconnected before the process starts.

Importing “Theme” settings

The settings made on the “**Theme**” screen that were exported to an external storage device (USB, SD) can be imported.

- This setting is available only when you stop your vehicle in a safe place and apply the handbrake.
- 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 imported from is as follows:
 - ① SD memory card
 - ② USB storage device that is connected to USB port 1
 - ③ USB storage device that is connected to USB port 2



CAUTION

- Do not turn off the engine while importing the settings.
- To prevent data loss and damage to the SD memory card, never edit the data exported to the SD memory card.

1 Insert the SD memory card into the SD card slot or plug the USB storage device into the USB connector.

- ➔ For details, refer to *Plugging in a USB storage device* on page 18.

Setting up the video player

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.

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


Setting the subtitle language

You can set a desired subtitle language. When available, the subtitles will be displayed in the selected language.

- 1 Press the HOME button to display the Top menu screen.
- 2 Touch the following keys in the following order.



The "Video Setup" screen appears.

- 3 Touch [DVD/DivX Setup].
- 4 Touch [Subtitle Language].
The pop-up menu appears.
- 5 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 .

- If the selected language is not available, the language specified on the disc is displayed.
- You can switch the subtitle language by touching the subtitle language switching key during playback.
- The setting made here will not be affected even if the subtitle language is switched during playback using the subtitle language switching key.


Setting the audio language

You can set the preferred audio language.

- 1 Press the HOME button to display the Top menu screen.
- 2 Touch the following keys in the following order.



The "Video Setup" screen appears.

- 3 Touch [DVD/DivX Setup].
 - 4 Touch [Audio Language].
The pop-up menu appears.
 - 5 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 .
- The audio language is set.
- If the selected language is not available, the language specified on the disc is applied.
 - You can switch the audio language by touching the audio language switching key during playback.
 - The setting made here will not be affected even if the audio language is switched during playback using the audio language switching key.

Setting the menu language

You can set the preferred language in which the menus recorded on a disc are displayed.

- 1 Press the HOME button to display the Top menu screen.
- 2 Touch the following keys in the following order.




The “**Video Setup**” screen appears.

3 Touch [DVD/DivX Setup].


4 Touch [Menu Language].

The pop-up menu appears.

5 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 .

The menu language is set.

- If the selected language is not available, the language specified on the disc is displayed. .

Setting the angle icon display

You can set whether to display the angle icon on the scenes where the angle can be switched.

- This setting is available only when “**Disc**” is selected as the source.

1 Press the HOME button to display the Top menu screen.


2 Touch the following keys in the following order.



The “**Video Setup**” screen appears.

3 Touch [DVD/DivX Setup].

4 Touch [Multi Angle] repeatedly until the desired setting appears.

- **On** (default):
Turns the multi-angle setting on.
- **Off**:
Turns the multi-angle setting off. .

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.)

- When using a regular display, select either “**Letter Box**” or “**Pan Scan**”. Selecting “**16:9**” may result in an unnatural image.
- If you select the TV aspect ratio, this product’s display will change to the same setting.
- This setting is available only when “**Disc**” is selected as the source.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “**Video Setup**” screen appears.

3 Touch [DVD/DivX Setup].



4 Touch [TV Aspect].

The pop-up menu appears.

5 Touch the item you want to set.

- **16:9** (default):
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.

Setting up the video player

- ❑ When playing discs that do not have a pan-scan 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.

- ❑ This setting is available only when "Disc" is selected as the source.
- ❑ 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 start when the correct code number is input.

Setting the code number and level

When you first use this function, register your code number. If you do not register a code number, the parental lock will not operate.

- 1 Press the HOME button to display the Top menu screen.**
- 2 Touch the following keys in the following order.**



The "Video Setup" screen appears.

- 3 Touch [DVD/DivX Setup].**

- 4 Touch [Parental].**

The "Parental" screen appears.

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

- 6 While the input number is displayed, touch the following key.**



Registers the code number.


- 7 Touch any number between [1] to [8] to select the desired level.**

- **8:**
Enables playback of the entire disc (initial setting).
- **7 to 2:**
Enables playback of discs for children and non-adult oriented discs.
- **1:**
Enables only playback of discs for children.

- 8 While the input number is displayed, touch the following key.**



Sets the parental lock level.

- ❑ We recommend that you 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.
- This setting is available only when "Disc" is selected as the source.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "Video Setup" screen appears.

3 Touch [DVD/DivX Setup].

4 Touch [DivX® VOD].

The "DivX® VOD" screen appears.

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

5 Touch [Registration Code].

Your 10-digit registration code is displayed.

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

Displaying your DivX VOD deregistration code

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

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

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "Video Setup" screen appears.

3 Touch [DVD/DivX Setup].

4 Touch [DivX® VOD].

The "DivX® VOD" screen appears.

5 Touch [Deregistration Code].

Your eight-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.

- Some DVDs may not operate properly. If this function is not fully operable, turn this function off and start playback.
- This setting is available only when "Disc" is selected as the source.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "Video Setup" screen appears.

3 Touch [DVD/DivX Setup].

Setting up the video player

4 Touch [DVD Auto Play] repeatedly until the desired setting appears.

- **Off** (default):
Turns the DVD Auto Play setting off.
- **On:**
Turns the DVD Auto Play setting on.

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.

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

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “Video Setup” screen appears.

3 Touch [Video Signal Setting].

4 Touch [Camera].

The pop-up menu appears.

5 Touch the item you want to set.

- **Auto** (default):
Adjusts the video signal setting automatically.
- **PAL:**
Sets the video signal to PAL.
- **NTSC:**
Sets the video signal to NTSC.
- **PAL-M:**
Sets the video signal to PAL-M.
- **PAL-N:**
Sets the video signal to PAL-N.
- **SECAM:**
Sets the video signal to SECAM.

Setting the video output format

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

- The video output format setting has no effect on AUX, AV, and iPod sources (when the control mode is set to iPod).
- This function is available when nothing is output to the front screen, and a source other than Disc, USB1, USB2, and SD is output to the rear display.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “Video Setup” screen appears.

3 Touch [Video Output Format] repeatedly until the desired setting appears.

- **PAL** (default):
Sets the video output format to PAL.
- **NTSC:**
Sets the video output format to NTSC.

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 Touch the HOME button to display the Top menu screen.
- 2 Touch the following key.



Displays the Setting menu screen.

- 3 Touch the star icon of the menu item that you want to add to the favourite menu.

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 Press the HOME button to display the Top menu screen.
- 2 Touch the following keys in the following order.



The "Favorites" screen appears.

- 3 Touch the desired item. □

Removing a shortcut

- 1 Press the HOME button to display the Top menu screen.

- 2 Touch the following keys in the following order.



The "Favorites" screen appears.

- 3 Touch and hold the star icon of the favourite menu you want to remove.

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

Displaying the operation status of vehicle equipment

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.

CAUTION

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

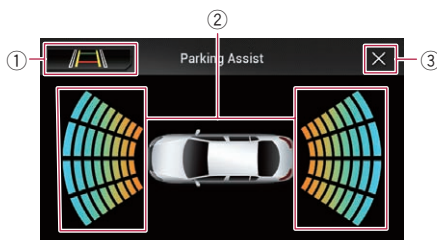
Displaying obstacle detection information

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.

Turn on the parking assist sensor on your vehicle, and the screen will switch to the "Parking Assist" screen.

- This function is only available for vehicles equipped with a parking sensor system.
- The "Parking Assist" screen is not displayed until the navigation screen has started.

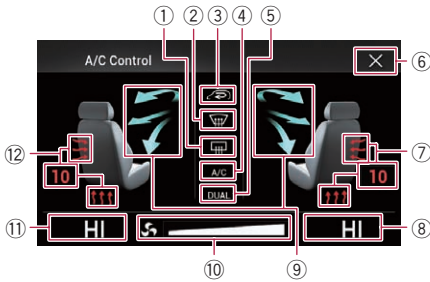


- ① Switches the display to the rear view camera image.
 - The display switches only when the rear view camera setting is set to "On" and the gearstick is in the REVERSE (R) position.
- ② Displays the position of detected obstacles.
- ③ The previous screen returns.

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".
 - ➡ For details of the operations, refer to *Reversing the climate control status display* on page 105.



- ① Displays that the rear window heating setting is on.
- ② Displays that the front window heating setting is on.
- ③ Displays that the internal circulation mode setting is on.
- ④ Displays that the A/C setting is on.
- ⑤ Displays that the dual A/C function is on.
- ⑥ The previous screen returns.
 - ❑ If you do not operate the climate control panel for a few seconds, the previous screen is displayed automatically.
- ⑦ Displays the seat heating setting for the right seat.
- ⑧ Displays the internal temperature setting for the right seat.
- ⑨ Displays the fan direction.
- ⑩ Displays the fan speed.
- ⑪ Displays the internal temperature setting for the left seat.
- ⑫ Displays the seat heating setting for the left seat. ❑

Setting the time and date

1 Touch the current time on the screen to display the Time and date setting screen.

2 Touch ▲ or ▼ to set the correct time and date.

On this screen, you can operate the following items.

Month/Date

- **d/m/y** (default):
Changes the date display format to date/month/year.
- **m/d/y**:
Changes the date display format to month/date/year.
- **y/m/d**:
Changes the date display format to year/month/date.

Time Format

- **12hour** (default):
Changes the display to 12-hour format with am/pm.
- **24hour**:
Changes the display to 24-hour format.

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 synchronise your iPod. You can directly buy the songs via this product.

Depending on when the song information is stored, information for the previous song or the song after the current song may also be stored. Be sure to confirm the song before you purchase it.

- The iTunes Tagging function is available when the song information is available.
- This function is available for the following iPod models:
 - iPhone 4s
 - iPhone 4

- iPhone 3GS
- iPhone 3G
- iPhone
- iPod touch 5th generation
- iPod touch 4th generation
- iPod touch 3rd generation
- iPod touch 2nd generation
- iPod touch 1st generation
- iPod classic
- iPod nano 6th generation
- iPod nano 5th generation
- iPod nano 4th generation
- iPod nano 3rd generation

The version of iTunes must be 7.4 or higher.

1 Press the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.




The "System" screen appears.

3 Touch [AV Source Settings].

4 Touch [Tag Forwarding] repeatedly until the desired setting appears.

- **USB1** (default):
Transfers the song information to your iPod which is connected to USB port 1.
- **USB2**:
Transfers the song information to your iPod which is connected to USB port 2.


5 Tune into a broadcast station.



When the song information is received,  is displayed while the desired song is being broadcast, and the touch panel key becomes active.

- ☉ For details, refer to **iTunes® tagging indicator** on page 44.
- ☉ For details, refer to *Using the touch panel keys* on page 43.

6 Touch the touch panel key on which song information is displayed.

The information on the song on air is stored in this product.


While the information is being acquired,  is displayed.

When it is completed,  turns off and  is displayed.

- The song information for up to 50 songs can be stored in this product. Depending on when the song information is stored, information for the previous song or the song after the current song may also be stored.

7 Connect your iPod.

The song information is transferred to your iPod.

- If the iPod is already connected, the song information will be transferred to your iPod every time you touch the touch panel key on which song information is displayed. When the song information transfer to your iPod is completed,  disappears.
- When the song information transfer is completed, the information stored in this product will be automatically deleted.
- If you turn off this product or disconnect the iPod while transferring song information, the transfer may not successfully complete.
- While this product is storing song information, transfer to an iPod is not possible.




Setting the "Sound Retriever" function

The "Sound Retriever" function automatically enhances compressed audio and restores rich sound.

- Touch the following key repeatedly until the desired setting appears on the AV operation screen.



Sets the "Sound Retriever" function.

-  (Mode1) (default):
Activates the "Sound Retriever" function.
 -  (Mode2):
Activates the "Sound Retriever" function.
 -  (Off):
Deactivates the "Sound Retriever" function.
- Mode2 has a stronger effect than Mode1.

Changing the wide screen mode

You can set the screen size for the video and JPEG images.

- This setting is available only when you stop your vehicle in a safe place and apply the handbrake.
- The default setting is "Full" for video, and "Normal" for JPEG images.

1 Touch the following key.



Displays the setting screen to select the appropriate screen ratio for the playback video.

- The appearance of this key changes according to the current setting.

2 Touch the desired mode.

- **Full**
A 4:3 picture is enlarged in the horizontal direction only, enabling you to enjoy a 4:3 TV picture (normal picture) without any omissions.
 This setting is for video only.
- **Zoom**
A 4:3 picture is enlarged in the same proportion both vertically and horizontally; ideal for a wide screen picture.

Common operations

This setting is for video only.

- **Normal**

A 4:3 picture is displayed normally, giving you no sense of disparity since its proportions are the same as those of the normal picture.

- **Trimming**

An image is displayed across the entire screen with the horizontal-to-vertical ratio left as is. If the horizontal-to-vertical ratio differs between the display and the image, the image may be displayed partly cut off either at the top/bottom or sides.

This setting is for JPEG images only.

- 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.

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.

- ❑ This function is not available during a call via this product or while using the voice recognition function.

1 Press the HOME button to display the Top menu screen.

2 Touch the following key.



Displays the AV source selection screen.

3 Touch [Rear].

The "Rear" screen appears.

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

The source you can select is as follows.

- **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 DVDs are output to the rear display.
— Compatible file types are DVD-V, Video-CD, DivX, MPEG-1, MPEG-2, and MPEG-4 only.
- **USB/iPod**
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 sound of the AV input are output to the rear display.

— The video image and sound are output only when "AV" has both video and sound.

— The video image and sound are output only when "AV Input" is set to "Source".

➔ For details, refer to *Setting AV input* on page 99.

- **OFF**

Nothing is output to the rear display.

- Touch the following key.



Closes the "Rear" screen.

- You can also select "Rear" on the source list.
➔ For details, refer to *Selecting a front source on the source list* on page 22.
- ❑ Video files on the external storage device (USB, SD) are not available as a source for the rear display when **Android Auto** is on. ❑

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.

Setting the password

1 Press the HOME button to display the Top menu screen.

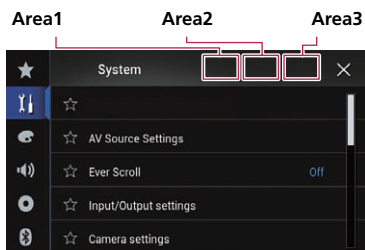
2 Touch the following keys in the following order.



The "System" screen appears.

Other functions

- 3 Touch Area1, followed by Area2, and then touch and hold Area3.



The “Anti-theft Setting Menu” screen appears.

- 4 Touch [Set Password].

The “Password Entry” screen appears.

- 5 Enter the password you want to set.

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

- 6 Touch [Go].

The “Hint Entry” screen appears.

- 7 Enter a password hint.

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

- 8 Touch [Go].

The “Password Confirmation” screen appears.

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

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

The “Anti-theft Setting Menu” screen appears.

Entering the password

On the password input screen, you must enter the current password.

- 1 Enter the password.

- 2 Touch [Go].

When the correct password is entered, this product will be unlocked.

Deleting the password

The current password and password hint can be deleted.

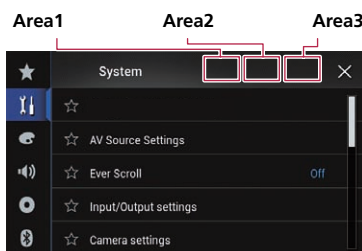
- 1 Press the HOME button to display the Top menu screen.

- 2 Touch the following keys in the following order.



The “System” screen appears.

- 3 Touch Area1, followed by Area2, and then touch and hold Area3.



The “Anti-theft Setting Menu” screen appears.

- 4 Touch [Clear Password].

A message confirming whether to delete the password appears.

- 5 Touch [Yes].

The password setting screen appears.

A message confirming a password hint appears.

- 6 Touch [OK].


The “Password Entry” screen appears.

- 7 Enter the current password.

8 Touch [Go].

A message indicating that the security setting is cancelled appears.

Forgotten password

Contact the nearest authorised Pioneer Service Station. 

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

Resets various settings registered to this product.

Method 2: Touch the item you want to initialise on the "System" screen

➔ For details, refer to *Restoring the default settings* on page 140.

Method 3: Press the RESET button

➔ For details of the operations, refer to *Resetting the microprocessor* on page 12.

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

Restoring the default settings

Resets various settings registered to this product to the default settings.

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

**CAUTION**

Do not turn off the engine while restoring the settings.

1 Press the HOME button to display the Top menu screen.**2 Touch the following keys in the following order.**

The "System" screen appears.

3 Touch [Restore Settings].**4 Touch the item you want to initialise.**


- **All Settings**
- **Audio Settings**
 - This setting is available when the source is turned off.
- **Theme Settings**
- **Bluetooth Settings**

A message confirming whether to initialise the settings appears.

- If you want to return settings or recorded content to the default, touch [**All Settings**].
- Some of the settings configured on the "Theme" setting will not be reset.

5 Touch [Restore].

When the selected item is successfully initialised, a completion message appears.


- The source is turned off and the Bluetooth connection is disconnected before the process starts. 

Appendix

Troubleshooting

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

Problems with the AV screen

Symptom	Cause	Action (Reference)
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 screen is covered by a caution message and the video cannot be shown.	The handbrake lead is not connected or 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" setting is incorrect.	Correct the settings. (Page 99)
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 icon  is displayed, and operation is impossible.	The system is paused or performing, fast reverse or forward during the disc playback.	For the media other than music CD (CD-DA), there is no sound on fast reverse or forward.
	The operation is not compatible with the video configuration.	This 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. (Page 128)
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. (Page 129)
The parental lock for DVD playback cannot be cancelled.	The code number is incorrect.	Input the correct code number. (Page 129)

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Symptom	Cause	Action (Reference)
Playback is not with the audio language and subtitle language settings selected in " DVD/DivX Setup ".	The DVD playing does not feature dialogue or subtitles in the language selected in " DVD/DivX Setup ".	Switching to a selected language is not possible if the language selected in " DVD/DivX Setup " is not recorded on the disc. (Page 127)
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.	<ul style="list-style-type: none"> • Reconnect the iPod with the USB interface cable for iPod / iPhone. • Update the iPod software version.
	An error has occurred.	<ul style="list-style-type: none"> • 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

Symptom	Cause	Action
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 now.	Perform the connection process.

Problems with the Application screen

Symptom	Cause	Action
A black screen is displayed.	While operating an application, the application was ended on the smartphone side.	Press the HOME 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.	<ul style="list-style-type: none"> • 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.

Appendix

Symptom	Cause	Action
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.



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

Message	Cause	Action
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.

Aha Radio

Message	Cause	Action
Communication Error	iPod failure.	Disconnect the cable from the iPod. Once the iPod's main menu is displayed, reconnect the iPod and reset it.
Error-02-6X	iPod failure.	Disconnect the cable from the iPod. Once the iPod's main menu is displayed, reconnect the iPod and reset it.

Appendix

Disc

Message	Cause	Action (Reference)
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. (Page 12)
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. (Page 152, Page 161)
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. (Page 152, Page 161)
Unable to write to flash memory	The playback history for VOD contents cannot be saved for some reason.	<ul style="list-style-type: none"> • Retry. • If the message appears frequently, consult your dealer.
Your device is not authorized to play this DivX protected video.	This product's DivX registration code has not been authorised by the DivX VOD contents provider.	Register this product to the DivX VOD contents provider.
Video frame rate not supported	DivX file's frame rate is more than 30 fps.	Select a file that can be played.
Audio Format not supported	This type of file is not supported on this product.	Select a file that can be played. (Page 152, Page 161)

External storage device (USB, SD)

Message	Cause	Action (Reference)
Error-02-9X/-DX	Communication failed.	<ul style="list-style-type: none"> • 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. (Page 152, Page 161)
	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.

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Message	Cause	Action (Reference)
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.	<ul style="list-style-type: none"> 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. (Page 150)
Check USB	<p>The USB connector or USB cable is short-circuited.</p> <p>The connected USB storage device consumes more than maximum allowable current.</p>	<p>Check that the USB connector or USB cable is not caught in something or damaged.</p> <p>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.</p>
Video resolution not supported	Files that cannot be played on this product are included in the file.	Select a file that can be played. (Page 152, Page 161)
USB1 was disconnected for device protection. Do not reinsert this USB memory into the unit. Press reset to restart USB memory. USB2 was disconnected for device protection. Do not reinsert this USB memory into the unit. Press reset to restart USB memory.	<p>The USB connector or USB cable is short-circuited.</p> <p>The connected USB storage device consumes more than maximum allowable current.</p> <p>The USB interface cable for iPod / iPhone is short-circuited.</p>	<p>Check that the USB connector or USB cable is not caught in something or damaged.</p> <p>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.</p> <p>Confirm that the USB interface cable for iPod / iPhone or USB cable is not caught in something or damaged.</p>
Audio Format not supported	This type of file is not supported on this product.	Select a file that can be played. (Page 152, Page 161)

iPod

Message	Cause	Action
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

Message	Cause	Action
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.

Appendix

Message	Cause	Action
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.

Bluetooth

Message	Cause	Action
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

Message	Cause	Action (Reference)
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.	<ul style="list-style-type: none"> • Disconnect the cable from the smartphone, and then connect the smartphone again after a few seconds. • Restart the smartphone. • Turn the ignition switch to OFF and then to ON. If the error message is still displayed after performing the above action, please contact your dealer or an authorised Pioneer Service Station.
	The time set in this product is not correct.	Check if the time is correctly set.
Bluetooth pairing failed. Please pair your Android phone manually.	The Bluetooth pairing failed for some reasons.	Pair this product with the device manually. (Page 26, Page 28)

Appendix

MirrorLink

Message	Cause	Action
The application list could not be read out.	Failed to load the application list.	<ul style="list-style-type: none"> • Disconnect the cable from the smartphone, and then connect the smartphone again after a few seconds. • Turn the ignition switch to OFF and then to ON. <p>If the error message is still displayed after performing the above action, reset the smartphone.</p> <p>If the error message is still displayed after performing the above action, please contact your dealer or an authorised Pioneer Service Station.</p>
There is no supported application on your MirrorLink device.	No supported applications can be found.	Install MirrorLink compliant applications to your MirrorLink device.
Communication error occurred.	There was a communication error.	<ul style="list-style-type: none"> • Disconnect the cable from the smartphone, and then connect the smartphone again after a few seconds. • Turn the ignition switch to OFF and then to ON. <p>If the error message is still displayed after performing the above action, reset the smartphone.</p> <p>If the error message is still displayed after performing the above action, please contact your dealer or an authorised Pioneer Service Station.</p>
Launching the application failed.	Failed to launch the application.	Try again.
Failed to display the screen of your device because of irregular resolution.	The image size is too large.	The size of the images transferred from the device exceeds 800 × 480.
If your MirrorLink device is locked, please unlock it when it is safe and lawful for you to do so.	The MirrorLink device is locked.	Unlock the MirrorLink 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.

Appendix

- 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.
- Condensation may temporarily impair the built-in drive's performance.
- Playback of discs may not be possible because of disc characteristics, disc format, recorded application, playback environment, storage conditions and so on.
- Road shocks may interrupt disc playback.
- Read the precautions for discs before using them.

Ambient conditions for playing a disc

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

Playable discs

DVD-Video and CD

DVD-Video



CD



- 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.

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.

Appendix

Dolby Digital

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

- Manufactured under licence 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 playback DVD-ROM/ 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 recognise the storage device or files may not be played back properly.
- The text information of some audio and video files may not be correctly displayed.
- File extensions must be used properly.

Appendix

- There may be a slight delay when starting playback of files on an external storage device (USB, SD) with complex folder hierarchies.
- 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.

Notes on SD memory cards

- 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/>

USB storage device compatibility

- For details about USB storage device compatibility with this product, refer to *Specifications* on page 161.
- 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 pedal.

- 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.

The sequence of audio files on USB storage device

For USB storage device, the sequence is different from that of USB storage device.

SD memory card and SDHC memory card

- For details about SD memory card compatibility with this product, refer to *Specifications* on page 161.

Handling guidelines and supplemental information

- This product is not compatible with the Multi Media Card (MMC).
- Copyright protected files cannot be played back.

Notes specific to 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 130.

Appendix

- Plays all versions of DivX video, except for DivX 7 with standard playback of DivX media files.
- 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.

Appendix

Media compatibility chart

General

Media	CD-R/-RW	DVD-R/-R SL/-R DL/DVD-RW	USB storage device	SD memory card
File system	<ul style="list-style-type: none"> ISO9660 level 1 ISO9660 level 2 Romeo, Joliet UDF 1.02 / 1.50 / 2.00 / 2.01 / 2.50 	<ul style="list-style-type: none"> ISO9660 level 1 ISO9660 level 2 Romeo, Joliet UDF 1.02 / 1.50 / 2.00 / 2.01 / 2.50 	FAT16/FAT32/NTFS	
Maximum number of folders	700		1 500	
Maximum number of files	999	3 500	15 000	
Playable file types	MP3, WMA, AAC, DivX, MPEG-1, MPEG-2, MPEG-4		MP3, WMA, AAC, WAV, FLAC, H.264, MPEG-2, MPEG-4, WMV, FLV, MKV, JPEG	
Notes:				
<ul style="list-style-type: none"> 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) 				

MP3 compatibility

Media	CD-R/-RW	DVD-R/-R SL/-R DL/DVD-RW	USB storage device	SD memory card
File extension	.mp3		.mp2, .mp3, .m2a, .mka	
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)		8 kHz to 48 kHz	
ID3 tag	ID3 tag Ver. 1.0, 1.1, 2.2, 2.3		ID3 tag Ver. 1.0, 1.1, 2.2, 2.3, 2.4	
Notes:				
<ul style="list-style-type: none"> 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 				

Appendix

WMA compatibility

Media	CD-R/-RW	DVD-R/-R SL/-R DL/DVD-RW	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			
Note: This product is not compatible with the following: Windows Media™ Audio 9 Professional, Lossless, Voice				

WAV compatibility

Media	CD-R/-RW	DVD-R/-R SL/-R DL/DVD-RW	USB storage device	SD memory card
File extension	WAV files on the CD-R/-RW, DVD-R/-RW/-R SL/-R DL cannot be played.		.wav	
Format			Linear PCM (LPCM)	
Sampling frequency			16 kHz to 48 kHz	
Quantisation bits			8 bits and 16 bits	
Note: The sampling frequency shown in the display may be rounded.				

AAC compatibility

Media	CD-R/-RW	DVD-R/-R SL/-R DL/DVD-RW	USB storage device	SD memory card
File extension	.m4a		.aac, .adts, .mka, .m4a	
Bit rate	8 kbps to 320 kbps (CBR)			
Sampling frequency	8 kHz to 44.1 kHz		8 kHz to 48 kHz	
Note: This product plays back AAC files encoded by iTunes.				

Appendix

DivX compatibility

Media	CD-R/-RW	DVD-R/-R SL/-R DL/DVD-RW	USB storage device	SD memory card
File extension	.avi/.divx		DivX files on the external storage device (USB, SD) cannot be played.	
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			
Notes: <ul style="list-style-type: none"> • 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. 				

Appendix

Video files compatibility (USB, SD)

File extension	.avi	.mkv	.mov	.f4v	.mp4
Compatible video codec	MPEG-4, H.264, H.263, Xvid	MPEG-4, H.264, VC-1, Xvid	MPEG-4, H.264, H.263	H.264, H.263	MPEG-4, H.264, H.263
Compatible audio codec	MP3, AAC, LPCM	MP3, AAC, Vorbis	MP3, AAC	MP3, AAC	MP3, AAC
Maximum frame rate	30 fps				
Maximum file size	4 GB				
Maximum playback time	150 minutes				

File extension	.3gp	.wmv	.asf	.flv	.vob
Compatible video codec	MPEG-4, H.264, H.263	WMV, VC-1	WMV, VC-1	H.264	H.264, MPEG-2
Compatible audio codec	AAC	WMA	WMA	MP3, AAC	MP3, AAC, LPCM
Maximum frame rate	30 fps				
Maximum file size	4 GB				
Maximum playback time	150 minutes				

Common notes

- 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.

Appendix

Example of a hierarchy



Note

This product assigns folder numbers. The user cannot assign folder numbers. □

Bluetooth



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SDHC



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

WMA/WMV

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

- This product includes technology owned by Microsoft Corporation and cannot be used or distributed without a licence from Microsoft Licensing, Inc. □

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 favorite DivX movies.

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

- ➔ For details, refer to *Displaying your DivX VOD registration code* on page 130. □

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. □

Appendix

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MirrorLink

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MIXTRAX

MIXTRAX is a trademark of the PIONEER CORPORATION. □

Detailed information regarding connected iPod devices

⚠ CAUTION

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

For details, refer to the iPod manuals.

iPod and iPhone



“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.

Appendix

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

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

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 al-

lowing 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** and **Android Auto**, functionality through the product is limited while driving, with available functions determined by the App providers.
- Availability of **AppRadio Mode** and **Android Auto** functionalities is determined by the App provider, and not determined by Pioneer.
- **AppRadio Mode** 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.

Aha Radio

Aha, Aha Radio and the Aha and Aha Radio logos are either the trademarks or the registered trademarks of Harman International Industries, Incorporated. 

Appendix

HDMI



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

MHL

MHL, the MHL Logo, and Mobile High-Definition Link are trademarks or registered trademarks of MHL, LLC in the United States and other countries. ■

Notice regarding video viewing

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

Notice regarding DVD-Video viewing

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

Notice regarding MP3 file usage

Supply of this product only conveys a licence for private, non-commercial use and does not convey a licence 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 licence 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*.
- 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.

Appendix

- 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.
- 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. 

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.

Appendix

Specifications

General

Rated power source	14.4 V DC (allowable voltage range: 12.0 V to 14.4 V DC)
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
Tolerable 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, 4Ω LOAD, Both Channels Driven)
Load impedance	4Ω (4Ω to 8Ω 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, JPEG, 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 net- work) (RCA level)
Output level:	
Video	1.0 Vp-p/75Ω (±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 (only encoded by iTunes): .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.	USB1.1, USB2.0 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

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AAC decoding format	MPEG-2 AAC-LC, MPEG-4 AAC-LC
WAVE signal format	Linear-PCM
H.264 video decoding format	BaseLine Profile, Main Profile, High Profile
WMV video decoding format	VC-1 SP/MP/AP, WMV 7/8
MPEG4 video decoding format	SimpleProfile, Advanced-SimpleProfile (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
WAVE signal format	Linear-PCM
H.264 video decoding format	BaseLine Profile, Main Profile, High Profile
WMV video decoding format	VC-1 SP/MP/AP, WMV 7/8
MPEG4 video decoding format	SimpleProfile, Advanced-SimpleProfile (except GMC)
JPEG decoding format	JPEG

Bluetooth

Version	Bluetooth 3.0+EDR certified
Output power	+4 dBm Max. (Power class 2)

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)

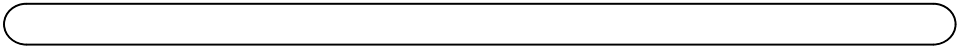
LW tuner

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)



Note

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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