

# Pioneer

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## Operation Manual

DVD RDS AV RECEIVER

# AVH-8400BT



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*English*

## Thank you for purchasing this PIONEER product.

To ensure proper use, please read through this manual before using this product. It is especially important that you read and observe **WARNING**s and **CAUTION**s in this manual. *Please keep the manual in a safe and accessible place for future reference.*



### Be sure to read this

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- Handling guidelines **75**

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## IMPORTANT SAFEGUARDS

Please read all of these instructions regarding your display and retain them for future reference.

- 1 **Read this manual fully and carefully before operating your display.**
- 2 **Keep this manual handy as a reference for operating procedures and safety information.**
- 3 **Pay close attention to all warnings in this manual and follow the instructions carefully.**
- 4 **Do not allow other persons to use this system until they have read and understood the operating instructions.**
- 5 **Do not install the display 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, hazard lamp buttons or (iii) impair the driver's ability to safely operate the vehicle.**
- 6 **Do not operate this display if doing so in any way will divert your attention from the safe operation of your vehicle. Always observe safe driving rules and follow all existing traffic regulations. If you experience difficulty in operating the system or reading the display, park your vehicle in a safe location and make necessary adjustments.**
- 7 **Please remember to wear 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.**
- 8 **Never use headphones while driving.**
- 9 **To promote safety, certain functions are disabled unless the parking brake is on, and the vehicle is not in motion.**
- 10 **Never set the volume of your display so high that you cannot hear outside traffic and emergency vehicles.**



### WARNING

**Do not attempt to install or service your display by yourself. Installation or servicing of the display 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 or other hazards.** 

## 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.**
- To avoid the risk of damage and injury and the potential violation of applicable laws, this unit is not for use with a video screen that is visible to the driver.
- To avoid the risk of accident and the potential violation of applicable laws, no viewing of front seat video should ever occur while the vehicle is being driven. Also, rear displays should not be in a location where they are visibly distracting to the driver.
- In some countries or states the viewing of images on a display inside a vehicle even by persons other than the driver may be illegal. Where such regulations apply, they must be obeyed and this unit's video features should not be used.

When you attempt to watch a video image while driving, the warning "**Viewing of front seat video source while driving is strictly prohibited.**" will appear on the front display. To watch a video image on the front display, park your vehicle in a safe place and apply the parking brake.

## Precautions

### When using a display connected to V OUT

This unit's **V OUT** is for connection of a display to enable passengers in the rear seats to watch videos.




#### **WARNING**

**NEVER** install the rear display in a location where the driver can watch videos while driving.

Remember that you transcribe the audio adjustment data.



#### **WARNING**

Do not use with vehicles that do not feature an ACC position. 

### When using the rear view camera

With an optional rear view camera, this unit can be used as an aid to keep an eye on trailers, or when 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**

- The rear view camera function is to be used as an aid to keep an eye on trailers, or while backing up. Do not use for entertainment purposes.
- Please note that the edges of the rear view camera images may differ slightly according to whether full screen images are displayed when backing up, and whether the images are used for checking the rear when the vehicle is moving forward. 

### To avoid battery exhaustion

Keep the vehicle engine running when using this unit to avoid draining the battery power.

- When no power is supplied to this unit, such as when the vehicle battery is being replaced, the microcomputer of this unit returns to its initial condition. We recom-


## Before you start



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. 

### About this unit

The tuner frequencies on this unit are allocated for use in Western Europe, Asia, the Middle East, Africa and Oceania. Use in other areas may result in poor reception. The RDS (radio data system) function only operates in areas with broadcasting RDS signals for FM stations.

### 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.**

### CAUTION


- Do not allow this unit to come into contact with liquids. Electrical shock could result. Also, damage to this unit, smoke, and overheating could result from contact with liquids.
- The Pioneer CarStereo-Pass is for use only in Germany.
- Always keep the volume low enough to hear outside sounds.
- Avoid exposure to moisture.
- If the battery is disconnected or discharged, any preset memory will be erased.

### DVD video disc region numbers

Only DVD video discs with compatible region numbers can be played on this player. You can find the region number of the player on the bottom of this unit and in this manual (refer to *Specifications* on page 85). 


### Operating environment

This unit should be used within the temperature ranges shown below.


Operating temperature range:  $-10^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$   
EN300328 ETC test temperature:  $-20^{\circ}\text{C}$  and  $+55^{\circ}\text{C}$  

## Before you start

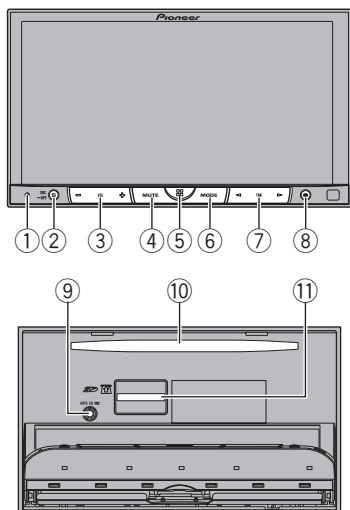
### In case of trouble

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

### Adjusting the response positions of the touch panels (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. Refer to *Adjusting the response positions of the touch panels (Touch Panel Calibration)* on page 64. 

## Head unit



Part	Part
① <b>RESET</b>	⑦ <b>◀▶ (TRK)</b> ▲ (eject) Refer to <i>Ejecting a disc</i> on page 12. Refer to <i>Ejecting an SD</i> on page 12.
② <b>SRC/OFF</b>	⑧ Refer to <i>Adjusting the LCD panel angle</i> on page 12. Refer to <i>Removing the front panel</i> on page 12.
③ <b>+/- (VOLUME/VOL)</b>	⑨ Auto EQ microphone input jack Use to connect an auto EQ microphone.
④ <b>MUTE</b>	⑩ Disc loading slot

## Part

## Part

**HOME**

Displaying the **HOME** display.  
The display returns to the Launcher screen while a 3rd-party application is being used in Advanced App Mode. Doubleclicking the icon on the Launcher screen returns the display to the **HOME** display.

⑤

⑪

SD memory card slot

**MODE**

⑥ Turning the information display off.

**CAUTION**

- Do not use unauthorized products.
- When inserting an SD card into the card slot, make sure that the label is facing up and press the card until it clicks and completely locks into place.

**Notes**

- When the navigation system is connected, press **MODE** to switch to the navigation display. Press **MODE** and hold to turn the display off.  
Press **MODE** again to turn the display on.
- For details on how to operate a navigation system from this unit, refer to its operation manual.  
When an iPhone that is running an application that supports Advanced App Mode is connected, press **MODE** to switch to the application display. You can use the application by touching the display.
- About the way to connect the USB portable audio player/USB memory to this unit, refer to installation manual. ■

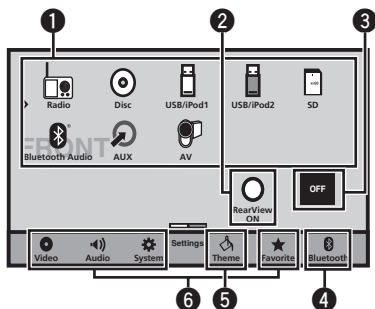
**Optional remote control**

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

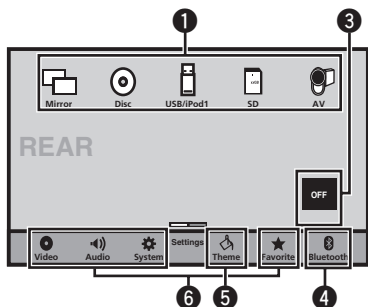
# Basic operations

## Basic operations

### HOME display (Front)

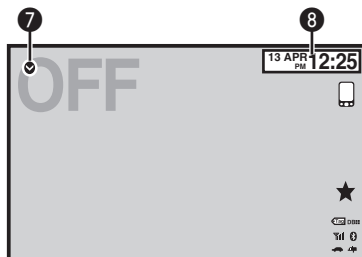


### HOME display (Rear)

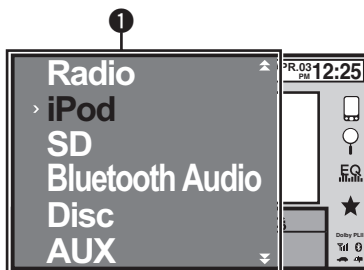


Flick/drag the icon to switch between Front and Rear for **HOME** display. Make sure to touch the display to flick/drag them. The following section describes how to switch the output source for the rear monitor. Refer to *Setting rear monitor output* on page 64.

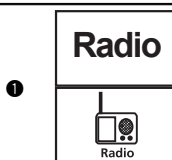
### Source off display




### Source on display



### Touch panel keys



**1** Source icon  
Selecting a favorite source. When the source icon is not displayed, it can be displayed by pressing the home key or touching .



Displaying the rear view image by turning the rear view image on.

When the rear view image is displayed, you can switch to the source display by touching the display. You can operate from the source display temporarily at this time. If you do not perform any operations within a few seconds, the display will return to the rear view image.

To turn off the rear view image, press **HOME** to return to the **HOME** display and then press the touch key again.

This unit can be setup to display the rear view image automatically when you move the shift lever to the **REVERSE (R)** position. For details about the settings, refer to *Setting the rear view camera (back up camera)* on page 55.



**3** Turning the source off.

## Basic operations

4



Displaying the Bluetooth connection menu.  
Refer to *Introduction of Bluetooth connection menu operations* on page 60.

5



Displaying the **Theme** menu.  
Refer to *Introduction of Theme setting menu operations* on page 62.

6



Displaying the menu.  
Refer to *Menu operations* on page 44.

7



Displaying the source menu.

8



Switching to clock adjustment display.  
Refer to *Setting the clock* on page 13.

Switching to **HOME** display

① Press **HOME** when you want to switch the display.

Turning the source on using the buttons

① Press **SRC/OFF** to turn the source on.

Turning the source off using the buttons

① Press **SRC/OFF** and hold until the source turns off.

Selecting a source using the buttons

① Press **SRC/OFF** to cycle through the sources listed below:

Selecting a source using the touch panel keys

① Touch the source icon and then touch the desired source name.

- **Radio** – Radio
- **Disc** – Built-in DVD player
- **USB/iPod 1** – USB/iPod 1
- **USB/iPod 2** – USB/iPod 2
- **SD** – SD memory card
- **Bluetooth Audio** – Built-in Bluetooth audio
- **AUX** – AUX
- **AV** – AV input
- When the source icon is not displayed, it can be displayed by touching the screen.
- While operating the menu, you cannot select a source by touching the source icon.

Adjusting the volume

① Press **+/- (VOLUME/VOL)** to adjust the volume.

### Notes

- In this manual, iPod and iPhone will be referred to as “iPod”.
- The **USB/iPod 1** or **USB/iPod 2** icon will change as follows:
  - **USB 1** is displayed when a USB storage device is connected to USB input 1.
  - **iPod 1** is displayed when an iPod is connected to USB input 1.
  - **USB 2** is displayed when a USB storage device is connected to USB input 2.
  - **iPod 2** is displayed when an iPod is connected to USB input 2.
  - **STEEZ** is displayed when a **STEEZ PORTABLE** (Pioneer product) is connected to USB input 1 or USB input 2.
  - **USB/iPod 1** or **USB/iPod 2** is displayed when no device is connected. 

## USB/iPod 1 and USB/iPod 2

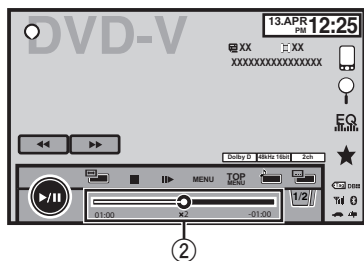
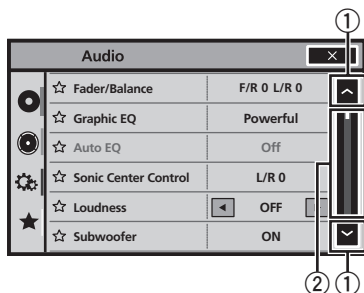
This unit has **USB/iPod 1** and **USB/iPod 2** sources.

In **USB/iPod 2**, the following functions are not available.

- Advanced App Mode
- Rear monitor output 

## Basic operations

### Operating the scroll icon and the scrubber bar



- ① Scroll icon  
Appears when selectable items are hidden.
- ② Scrubber bar  
Appears when items cannot be displayed on a single page only.

Viewing the hidden items

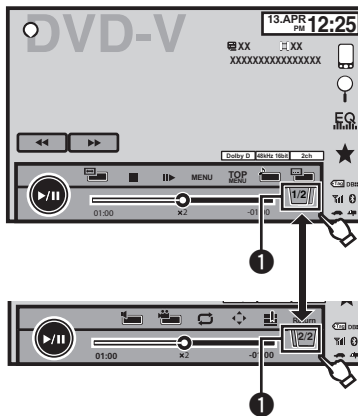
① Touch the scroll icon or drag the scrubber bar to view any hidden items.

- Also, you can drag the list to view any hidden items.

Specifying the playback point

① Drag the scrubber bar on the screen.  
(Not available when the scrubber bar is grayed out.)

### Activating the touch panel keys

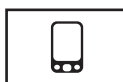


#### Touch panel keys



Switching the touch keys on the display.

### Common operations for menu settings/lists



Starting the Bluetooth telephone menu.

Refer to *Introduction of Bluetooth telephone operations* on page 28.



Displaying the list menu.  
Starting the search function.



Displaying the EQ (Audio function menu).

Refer to *Using the equalizer* on page 45.



Displaying the Favorite menu.

Refer to *Favorite menu* on page 59.



## Adjusting the LCD panel angle

### ⚠ CAUTION

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

**1 Press  $\blacktriangle$  (eject) to display the ejecting menu.**


**2 Adjust the LCD panel to an easily viewable angle.**



Laying the panel down.



Returning the panel to the upright position.

- As the set angle is saved, the LCD panel will automatically be adjusted to the same position the next time the LCD panel is opened. 

## Ejecting a disc

### ⚠ CAUTION

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

**1 Press  $\blacktriangle$  (eject) to display the ejecting menu.**

**2 Eject a disc.**



Ejecting a disc.



## Ejecting an SD

**1 Press  $\blacktriangle$  (eject) to display the ejecting menu.**

**2 Eject an SD.**



Ejecting an SD.

**3 Press an SD to eject. **

## Removing the front panel

### ⚠ CAUTION

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

### Important

- Handle gently when removing or attaching the front panel.

## Basic operations

- 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.

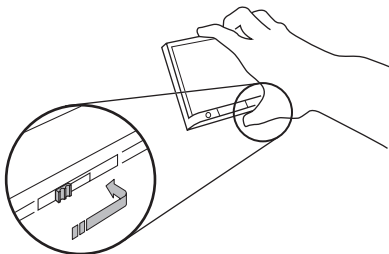
**1 Press ▲ (eject) to release the front panel.**

**2 Touch the detach 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.**

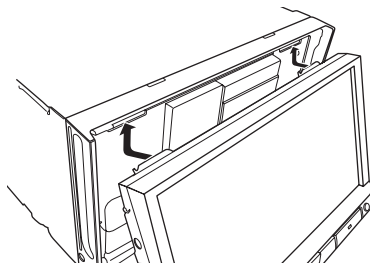


**4 Put the front panel into the provided protective case for safe keeping. ▣**

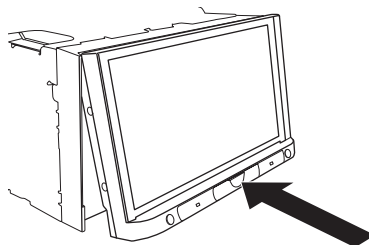
## Attaching the front panel

**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.**



## Setting the clock

**1 Switch to Clock Adjustment display.**

Refer to *Basic operations* on page 9.

**2 Select the item to set.**

**3 Touch ▲ or ▼ to set the correct date and time. ▣**

## Resetting the microprocessor

By pressing **RESET**, you can reset the microprocessor to its initial settings without changing the bookmark information.

The microprocessor must be reset in the following situations:

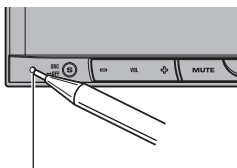
- Before using this unit for the first time after installation
- If the unit fails to operate properly

## Basic operations

- When strange or incorrect messages appear on the display

**1 Turn the ignition switch OFF.**

**2 Press RESET with a pen tip or other pointed instrument.**



RESET button

### Note

Switch your engine ON or set the ignition switch to ACC ON before pressing **RESET** in the following situations:

- After completing connections
- When erasing all stored settings
- When resetting the unit to its initial (factory) settings

## Demo mode

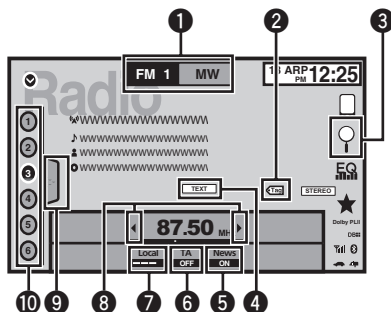
The feature demo automatically starts when you select **Off** for the source and continues while the ignition switch is set to ACC or ON. To cancel the feature demo, press and hold **MUTE**. Press and hold **MUTE** again to restart. Operating the feature demo while the car engine is turned off it may drain the battery power.

### Important



Failure to connect the red lead (ACC) of this unit to a terminal coupled with ignition switch on/off operations may lead to battery drain.



## Tuner

## Introduction of tuner operations



## Touch panel keys

1	<div style="border: 1px solid black; padding: 5px; text-align: center; font-weight: bold; font-size: 1.2em;">FM1</div> <div style="border: 1px solid black; padding: 5px; text-align: center; font-weight: bold; font-size: 1.2em;">MW</div> <div style="border: 1px solid black; padding: 5px; text-align: center; font-weight: bold; font-size: 1.2em;">LW</div>	<p>Selecting a band (<b>FM1</b>, <b>FM2</b> or <b>FM3</b>) by touching the left icon. Switching to the <b>MW/LW</b> band by touching the right icon. The icon for the selected band is highlighted.</p>
2	<div style="border: 1px solid black; padding: 5px; text-align: center;">  </div>	<p>Saving song information (tag) from the broadcasting station to your iPod. Refer to <i>Using iTunes tagging</i> on page 30.</p>
3	<div style="border: 1px solid black; padding: 5px; text-align: center;">  </div>	<p>Displaying the PTY information. Refer to <i>Using PTY functions</i> on page 30.</p>
4	<div style="border: 1px solid black; padding: 5px; text-align: center; font-weight: bold; font-size: 1.2em;">Text</div>	<p>Displaying radio text. Refer to <i>Displaying radio text</i> on page 30. Storing and recalling radio text. Refer to <i>Storing and recalling radio text</i> on page 30.</p>
5	<div style="border: 1px solid black; padding: 5px; text-align: center; font-weight: bold; font-size: 1.2em;">News</div>	<p>Turning news program interruption on or off. Refer to <i>Using news program interruption</i> on page 32.</p>

6	<div style="border: 1px solid black; padding: 5px; text-align: center; font-weight: bold; font-size: 1.2em;">TA</div>	<p>Turning TA (traffic announcement standby) on or off. Refer to <i>Receiving traffic announcements</i> on page 31.</p>
7	<div style="border: 1px solid black; padding: 5px; text-align: center; font-weight: bold; font-size: 1.2em;">Local</div>	<p>Setting the local seek level. Refer to <i>Tuning in to strong signals</i> on page 30.</p>
8	<div style="border: 1px solid black; padding: 5px; text-align: center;">     </div>	<p>Tuning up or down manually. Touch and hold for more than two seconds to skip stations. Seek tuning starts as soon as you release. Touch again to cancel seek tuning.</p>

Displaying the preset channel list.

Refer to *Storing and recalling stations* on page 30.

- 9
- Refer to *Storing the strongest stations* on page 30.

- 10 Select a preset channel.

Switching preset channels using the buttons

- 1 Press ◀ or ▶ (**TRK**).

Seek tuning using the buttons

- 1 Press and hold ◀ or ▶ (**TRK**).

## Notes

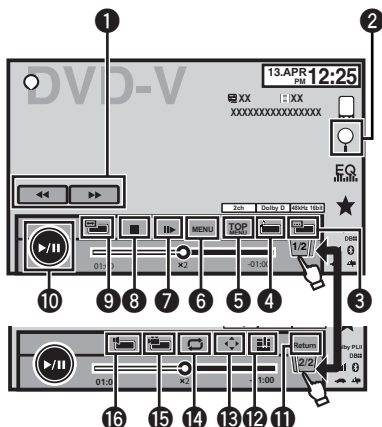
- Noise may be generated when listening to MW/LW radio while charging an iPod with this unit. In such cases, disconnect the iPod from the unit.
- Touch panel keys not listed under *Introduction of tuner operations* may appear on the display. Refer to *Indicator list* on page 72. ■

## Introduction of video playback operations

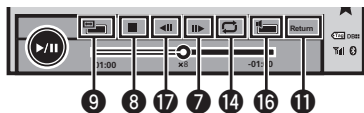
You can view DVD/DVD-R/DVD-RW/CD/CD-R/CD-RW/USB/SD/iPod.

- Depending on your iPod, there may not be any output unless you use CD-IU201S/CD-IU201V (sold separately). Be sure to use CD-IU201S/CD-IU201V to connect your iPod.

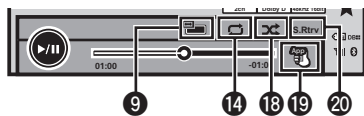
### DVD video



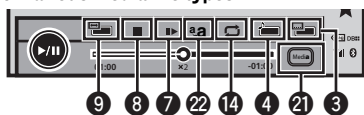
### Video CD



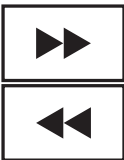
### iPod video





### When playing a disc containing a mixture of various media file types





### Touch panel keys


- 


Fast forwarding or reversing  
Press to change the fast forward and reverse speed.
- 

Starting the search function.  
Refer to *Searching for the part you want to play* on page 36.  
Refer to *Selecting files from the file name list* on page 38.  
Displaying iPod menus.  
Refer to *Playing videos from your iPod* on page 34 and *Browsing for a video/music on the iPod* on page 35.
- 

Switching between subtitle languages during playback.  
Refer to *Changing the subtitle language during playback (Multi-subtitle)* on page 37.
- 
















Switching between languages/audio systems during playback.  
Refer to *Changing audio language during playback (Multi-audio)* on page 37.
- 

Returning to the top menu during DVD playback.
- 

Displaying the DVD menu during DVD playback.  
Refer to *Operating the DVD menu* on page 32.
- 

Moving ahead one frame at a time during playback.  
Refer to *Frame-by-frame playback* on page 36.  
Touch and hold for more than two seconds to slow down playback speed.  
Speeding up the playback speed in four steps during slow motion playback on DVD video/Video CD.

## Playing moving images

8		Stopping playback. If you resume playback, playback will start from the point where you stopped. Touch the key again to stop playback completely.
9		Changing the screen mode. Refer to <i>Changing the wide screen mode</i> on page 40.
10		Pausing playback. Returning to normal playback during paused, slow motion, or frame-by-frame playback.
11		Returning to the specified scene to which the DVD currently being played has been preprogrammed to return. Refer to <i>Return to the specified scene</i> on page 37.
12		During playback, touch the point at which you want to resume playback the next time the disc is loaded. Refer to <i>Resume playback (Bookmark)</i> on page 36.
13		Displaying arrow keys to operate the DVD menu. Refer to <i>Using the arrow keys</i> on page 33.
14		Selecting the repeat range. Refer to <i>Repeating playback</i> on page 34.
15		Switching among viewing angles during playback. Refer to <i>Changing the viewing angle during playback (Multi-angle)</i> on page 37.
16		Switching the audio output, when playing video discs recorded with LPCM audio. Refer to <i>Selecting audio output</i> on page 37.
17		Speeding down the playback speed in four steps, during slow motion playback on DVD video/Video CD.
18		Playing the video on your iPod in a random order. Refer to <i>Random play (shuffle)</i> on page 34.
19		Conducting operation from your iPod and listening to it using your car's speakers. Refer to <i>Operating this unit's iPod function from your iPod</i> on page 33.
20		Switching the <b>S.Rtrv</b> (sound retriever) function setting when playing audio. Refer to <i>Using sound retriever</i> on page 38.
21		Switching between media file types to play on DVD/CD/USB/SD. Refer to <i>Switching the media file type</i> on page 32.
22		Adjusting the images on the display. For details, refer to <i>Setting the Advanced Display Resolution</i> on page 39.

## Playing moving images

### Playing back videos

- 1 Insert the disc into the disc loading slot with the label side up.  
Playback will automatically start.
- If you are playing a DVD or Video CD, a menu may appear. Refer to *Operating the DVD menu* on page 32 and *PBC playback* on page 38.
  - When the automatic playback function is on, the unit will skip the DVD menu and automatically start playback from the first chapter of the first title. Refer to *Automatic playback of DVDs* on page 51.
  - While an iPod is connected to this unit, **PIONEER, Accessory Attached** or ✓ (check mark) is displayed on the iPod.
  - When the source icon is not displayed, it can be displayed by touching the screen.
  - Disconnect headphones from the iPod before connecting it to this unit.
  - Depending on the iPod model and the amount of data stored in the iPod, it may take some time for playback to begin.
  - Use the touch panel keys to select the iPod after connecting it to this unit.
  - **No Device** is displayed when disconnecting the iPod.
  - If a message is displayed after loading a disc containing DivX VOD content, touch **Play**. Refer to *Playing DivX® VOD content* on page 39.

### Ejecting a disc/SD

- Refer to *Ejecting a disc* on page 12.
- Refer to *Ejecting an SD* on page 12.

### Selecting a chapter using the buttons

- 1 Press ◀ or ▶ (**TRK**).

### Fast forwarding or reversing using the buttons

- 1 Press and hold ◀ or ▶ (**TRK**).
- Fast forward/fast reverse may not always be possible on some discs. In such cases, normal playback will automatically resume.
  - The fast forward/fast reverse speed depends on the length of time you press and hold down ◀ or ▶ (**TRK**). This function is not available for Video CD.

- Do not insert anything other than a DVD-R/RW or CD-R/RW into the disc loading slot.
- If the bookmark function is on, DVD playback resumes from the selected point. For more details, refer to *Resume playback (Bookmark)* on page 36.
- Some operations may not be available while watching a media due to the programming of the disc. In such cases, the Ⓞ icon appears on the screen.
- To ensure proper operation, connect the dock connector cable from the iPod directly to this unit.
- While the iPod is connected to this unit, the iPod cannot be turned on or off.
- Touch panel keys not listed under *Introduction of video playback operations* may appear on the display.  
Refer to *Indicator list* on page 72. ◻

### Notes

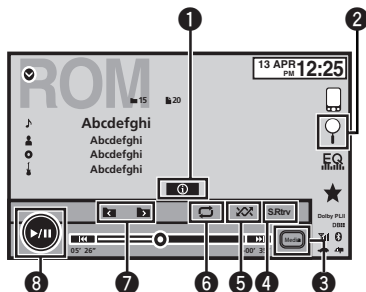
- This DVD player can play back a DivX file recorded on CD-R/RW, DVD-R/RW, or MPEG-1/MPEG-2/MPEG-4. (Please see the following section for files that can be played back. Refer to *DivX video files* on page 77.)

## Playing audio

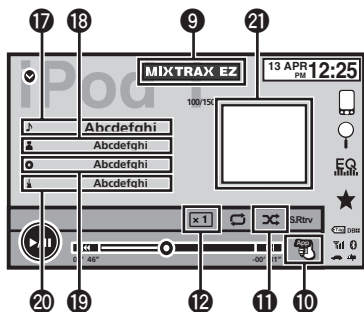
### Introduction of sound playback operations

You can listen to DVD-R/DVD-RW/CD/CD-R/CD-RW/USB/SD/iPod sound files.

#### Audio CD



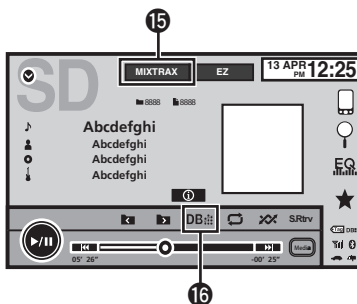
#### iPod audio (Control Audio)



#### iPod audio (App Mode)



#### USB/SD audio



- Depending on your iPod, there may not be any output unless you use CD-IU201S/CD-IU201V (sold separately). Be sure to use CD-IU201S/CD-IU201V to connect your iPod.

#### Bluetooth Audio









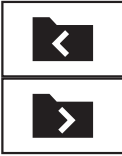




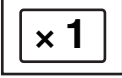




- Depending on the Bluetooth audio player connected to this unit, the available operations will be limited to the following two levels:
  - A2DP profile (Advanced Audio Distribution Profile): You can only playback songs on your audio player.
  - AVRCP profile (Audio/Video Remote Control Profile): You can perform playback, pause playback, select songs, etc.
- Since there are a number of Bluetooth audio players available on the market, available operations will vary extensively. When operating your player with this unit, refer to the instruction manual that came with your Bluetooth audio player as well as this manual.
- As the signal from your cellular phone may cause noise, avoid using it when you are listening to songs on your Bluetooth audio player.

## Playing audio

- When a call is in progress on the cellular phone connected to this unit via Bluetooth wireless technology, the sound of the Bluetooth audio player connected to this unit is muted.
- The play time may not display correctly.
- Depending on the type of Bluetooth audio player you have connected to this unit, operation and information display may not be available for some functions.

### Touch panel keys

1		Switching the text information to display on this unit when playing MP3/WMA/AAC/WAV files.
2		Displaying a list of track titles/file names to select songs on a CD. Refer to <i>Selecting tracks from the track title list</i> on page 38. Displaying the file name list to select the files. Refer to <i>Selecting files from the file name list</i> on page 38. Displaying iPod menus. Refer to <i>Browsing for a video/music on the iPod</i> on page 35.
3		Switching between media file types on a DVD/CD/USB/SD. Refer to <i>Switching the media file type</i> on page 32.
4		Switching the <b>S.Rtrv</b> (sound retriever) function setting when playing audio. Refer to <i>Using sound retriever</i> on page 38.
5		Playing songs in random order. Refer to <i>Random play (shuffle)</i> on page 34.
6		Selecting the repeat range. Refer to <i>Repeating playback</i> on page 34.

7		Selecting a folder.
8		Pausing and starting playback.
9		Starting MIXTRAX EZ. Refer to <i>Introduction of MIXTRAX EZ operation</i> on page 25.
10		Conducting operation from your iPod and listening to it using your car's speakers. Refer to <i>Operating this unit's iPod function from your iPod</i> on page 33.
11		Playing songs on the iPod in random order. Refer to <i>Random play (shuffle)</i> on page 34.
12		Changing the speed of audiobook playback on the iPod. Refer to <i>Changing audiobook speed</i> on page 38.
13		Performing operations from this unit and listening to the music on your iPod using your car's speakers.
14		Changing the screen mode. Refer to <i>Changing the wide screen mode</i> on page 40.
15		Displaying the MIXTRAX screen. Refer to <i>Introduction of MIXTRAX operation</i> on page 25.
16		Start Music browse mode. Refer to <i>Music Browse mode</i> on page 39.

## Playing audio

### Text information

17



Displaying the **Songs** list on the iPod.

This function is available for USB/SD when using Music browse mode. Refer to *Searching for a video/music by category* on page 35.

18



Displaying the **Artists** list on the iPod.

This function is available for USB/SD when using Music browse mode. Refer to *Searching for a video/music by category* on page 35.

19



Displaying the **Albums** list on the iPod.

This function is available for USB/SD when using Music browse mode. Refer to *Searching for a video/music by category* on page 35.

20



Displaying the **Genres** list on the iPod.

This function is available for USB/SD when using Music browse mode. Refer to *Searching for a video/music by category* on page 35.

### Artwork display

21

Starting **Album Link Search** on your iPod when you touch the artwork display. This function is available for USB/SD when using Music browse mode. Refer to *Displaying lists related to the currently playing song (Link Search)* on page 39.

#### Playing back sound

- 1 Insert the disc into the disc loading slot with the label side up. Playback will automatically start.
  - While an iPod is connected to this unit, **PIONEER, Accessory Attached** or ✓ (check mark) is displayed on the iPod.
  - When the source icon is not displayed, it can be displayed by touching the screen.
  - Disconnect headphones from the iPod before connecting it to this unit.
  - Depending on the iPod model and the amount of data stored in the iPod, it may take some time for playback to begin.
  - Use the touch panel keys to select the iPod after connecting it to this unit.
  - **No Device** is displayed when disconnecting the iPod.

#### Ejecting a disc/SD

- Refer to *Ejecting a disc* on page 12.
- Refer to *Ejecting an SD* on page 12.

#### Selecting a track using the buttons

- 1 Press ◀ or ▶ (TRK).

#### Fast forwarding or reversing using the buttons

- 1 Press and hold ◀ or ▶ (TRK).

### Note

Touch panel keys not listed under *Introduction of sound playback operations* may appear on the display.

Refer to *Indicator list* on page 72.

## Setting up for Bluetooth audio

Before you can use the Bluetooth audio function you must establish a Bluetooth wireless connection between the unit and your Bluetooth audio player.

- 1 Connection
 

First, you need to connect a Bluetooth audio to this unit.

For detailed instructions on connecting your Bluetooth audio to this unit via Bluetooth wireless technology, see *Introduction of Bluetooth connection menu operations* on page 60.

**Notes**

- When playing back files recorded as VBR (variable bit rate) files, the play time will not be correctly displayed if fast forward or reverse operations are used.
- To ensure proper operation, connect the dock connector cable from the iPod directly to this unit.
- While the iPod is connected to this unit, the iPod cannot be turned on or off.
- If the characters recorded on the disc are not compatible with this unit, those characters will not be displayed.
- Text information may not be correctly displayed depending on the recorded environment.
- Disconnect the USB portable audio player/USB memory when you are done using it.
- When you select **Speana** on *Selecting the background display* on page 63, the artwork is not displayed.

## Advanced App Mode

### Introduction of Advanced App Mode operation

This system can switch to the Advanced App Mode, which you can display and operate the application for iPhone on the screen. In Advanced App Mode, you can operate applications with finger gestures such as tapping, dragging, scrolling or flicking on the screen of the system.

- 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 Advanced App Mode, functionality through the product is limited while driving, with available functions determined by the App providers.
- Availability of Advanced App Mode functionality is determined by the App provider, and not determined by Pioneer.
- Advanced App Mode allows 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.

Advanced App Mode is compatible with the following iPod models.

- iPhone 4S
  - iPhone 4
  - iPod touch 4th generation
- Applications operable by switching this system to Advanced App Mode are only those available for Advanced App Mode.
- Please check iPhone applications supported Advanced App Mode at <http://www.pioneerelectronics.com/AppRadio>

#### Important

- Use the CD-IU201S (sold separately) when you use this function.

- The port that supports Advanced App Mode will only be USB input 1.
- When you use this function, set the RGB input to iPhone. For details, refer to *Setting the RGB Input* on page 52.
- Depending on the application, you can input text on the display.
- When using application which allows you to input text on the keyboard, set the language setting of this unit and your iPod. For details, refer to *Setting the Keyboard* on the next page.
- When listening to music and sounds from application simultaneously, see the following section. Refer to *Setting the App sound mixing* on page 52.

#### CAUTION

- While driving, you cannot enter text on your iPod.
- Use the connected iPod to open an application.

### Starting procedure

#### 1 Set RGB Input to iPhone.

When you use this function, set the RGB input to iPhone. For details, refer to *Setting the RGB Input* on page 52.

#### 2 Start an application available for Advanced App Mode from the iPhone.

An image of the application is displayed on the screen of this system.

- You can start an application available for Advanced App Mode also from a launcher application.

#### 3 Touch MODE to hide the AV source icons or wait until the source icons disappear.

- If the source icons are displayed, you cannot conduct the operation of application on the screen.

#### 4 Operate the application.

## Setting the Keyboard

### CAUTION

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

Depending on the application, you can input text on the display. In order to input text correctly using keyboard which appears on this unit, you need to set the language setting in this function.

When the Advanced App Mode is used, the language setting for the keyboard set for the function and the language setting for the iPhone keyboard need to be the same.

- Keyboard is available only in Advanced App Mode.

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

- The language preference for the keyboard of this system should be same as the setting on your iPhone.

If the settings for this product and the iPhone are different, you may not be able to enter characters properly.

#### 1 Display the system menu.

Refer to *Introduction of menu operations* on page 44.

#### 2 Touch Keyboard on the System menu to select desired language.

#### 3 Touch the desired language.

**French** (French)—**German** (German)—**Greek** (Greek)—**Russian** (Russian)—**English** (English)—**English (UK)** (English)—**Dutch** (Dutch)—**Italian** (Italian)—**Norwegian** (Norwegian)—**Swedish** (Swedish)—**Finnish** (Finnish)—**Spanish** (Spanish)—**Portuguese** (Portuguese)

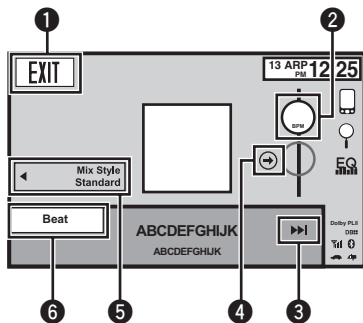
#### 4 Tap the text input area on the application screen of the iPhone.

Touch  to hide the keyboard. 

## Using MIXTRAX

### Introduction of MIXTRAX operation

You can play the audio files of USB/SD.



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.

#### Using MIXTRAX

You can enjoy your music files by installing the MIXTRAX software to your computer and using the software to transfer the files to USB devices and SD cards.

The MIXTRAX software can be downloaded from the website below.

<http://www.mixtraxnet.com>

For details on how to use the MIXTRAX software, refer to the online manual.

#### Important

The artwork display can be moved based on the music type. For details, refer to *Setting the Artwork Dance* on page 56.

#### Touch panel keys

1		Switching to the audio mode of USB/SD.
2		Changing the BPM (Beats Per Minute).

3		Starting playback of the next song.
4		Switching to the original BPM (Beats Per Minute). The original BPM (Beats Per Minute) does not display during playback.
5		Switching to the Mix style display. You can select the desired Mix style in the display.
6		Switching to the Mix play. You can select the desired Mix play.

Starting playback of the next song.

1 Press ▶ (TRK).

### Introduction of MIXTRAX EZ operation

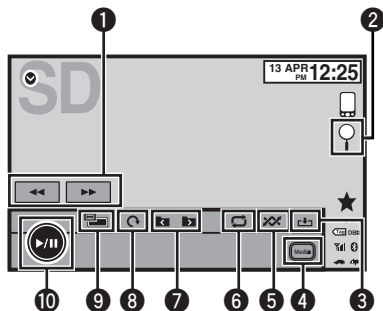
You can play the audio files of iPod/USB/SD. MIXTRAX EZ is used to add a variety of sound effects between songs for arranging the pauses between songs. It allows you to enjoy listening to music nonstop.

- This function is only available when a file on an external storage device (USB, SD) or a song on an iPod is being played.
- This function is not available when the control mode is set to **App Mode**.
- Depending on the file/song, sound effects may not be enabled for adding.
- Depending on the file/song, non-stop playback may not be available.

## Introduction of still image playback operations

You can view still images saved in USB/SD.

### Still image



When loading a USB/SD containing JPEG picture files, this unit starts a slideshow from the first folder/picture on the device.

The table below shows the controls for viewing a slideshow.

### Touch panel keys

1		Selecting a picture.
2		Displaying the file name list to select the files. Refer to <i>Selecting files from the file name list</i> on page 38.
3		Capturing an image in JPEG files. Refer to <i>Capture an image in JPEG files</i> on page 40.

4		Switching between media file types when there is more than one media file type saved to the USB or SD device. This key does not appear if there is only one media file type saved to the USB or SD device. Refer to <i>Switching the media file type</i> on page 32.
---	--	--

5		Playing files in a random order. Refer to <i>Random play (shuffle)</i> on page 34.
---	--	--

6		Selecting the repeat range. Refer to <i>Repeating playback</i> on page 34.
---	--	--

7		Selecting a folder.
---	--	---------------------

8		Rotating the displayed picture 90° clockwise.
---	--	---

9		Changing the screen mode. Refer to <i>Changing the wide screen mode</i> on page 40.
---	--	---

10		Starting or pausing the slideshow.
----	--	------------------------------------

### Playing still images

- 1 Connect the USB/SD device. Playback will automatically start.
  - When the source icon is not displayed, it can be displayed by touching the screen.

### Ejecting an SD

- Refer to *Ejecting an SD* on page 12.

## Playing still images

Selecting a file using the buttons

1 Press ◀ or ▶ (TRK).

Fast file searching

1 Press and hold ◀ or ▶ (TRK).

- You can search 10 JPEG files at a time.

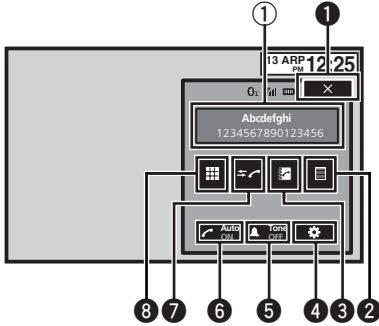
### Notes

- Files are played back in file number order and folders are skipped if they contain no files. (If folder **1** (ROOT) contains no files, playback commences with folder **2**.)
- Touch panel keys not listed under *Introduction of still image playback operations* may appear on the display.  
Refer to *Indicator list* on page 72. ◻

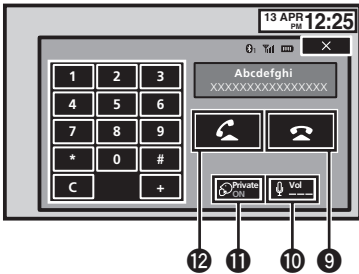
## Introduction of Bluetooth telephone operations

You can use Bluetooth telephone.

### Telephone standby display



### When switching to the entering phone number mode



### Important

- Since this unit is on standby to connect with your cellular phone via Bluetooth wireless technology, using it without the engine running can drain the battery power.
- Advanced operations that require attention such as dialing numbers on the monitor, etc., are prohibited while driving. Park your vehicle in a safe place when using these advanced operations.
- Bluetooth connection menu cannot be selected while driving.
- Operations available may be limited depending on the cellular phone connected to this unit.
- Be sure to park your vehicle in a safe place and apply the parking brake when performing this operation.
- If you are unable to complete the connection using this unit, use the device to connect to the unit.
- If you connect more than one device at a time, connected device may not operate properly. Connecting one device at a time is recommended.

### ① Incoming call notice

Indicates that an incoming call has been received and has not been checked yet.

- Not displayed for calls made when your cellular phone is disconnected from this unit.

### Touch panel keys

①



Display is closed.

②



Displaying the preset dial lists. Refer to *Using the preset dial lists* on page 43.

③



Switching to the phone book mode. Refer to *Calling a number in the phone book* on page 41. Refer to *Selecting a number by alphabet search mode* on page 41.

④



Displaying the Bluetooth connection menu. Refer to the instructions from page 60 to page 62.

⑤









Turning the ring tone for incoming calls on or off. Refer to *Switching the ring tone* on page 43.

⑥



Turning automatic answering on or off. Refer to *Setting automatic answering* on page 42.

## Bluetooth telephone

7		Switching to the call history list. Refer to <i>Using the missed, received and dialed call lists</i> on page 42.
8		Switching the mode to enter the phone number directly. Refer to <i>Making a call by entering phone number</i> on page 43.
9		Ending a call. Rejecting an incoming call. Canceling call waiting.
10		Adjusting the other party's listening volume. Refer to <i>Adjusting the other party's listening volume</i> on page 42.
11		Turning private mode on or off. Refer to <i>Setting the private mode</i> on page 43.
12		Accepting an incoming call. Making a phone call, when selecting a phone number. Switching between callers on hold.

### Notes

- Private mode can only be operated while you are talking on the phone.
- To end the call, both you and the other caller must hang up your phones.
- Touch panel keys not listed under *Introduction of Bluetooth telephone operations* may appear on the display.  
Refer to *Indicator list* on page 72.

## Setting up for hands-free phoning

Before you can use the hands-free phoning function you must set up the unit for use with your cellular phone. This entails establishing a Bluetooth wireless connection between this unit and your phone, registering your phone with this unit, and adjusting the volume level.

### 1 Connection

First, you need to connect a Bluetooth telephone to this unit.

For detailed instructions on connecting your phone to this unit via Bluetooth wireless technology, see following section. *Using a Bluetooth device to pair* on page 61 and *Pairing from this unit* on page 60.

### 2 Volume adjustment

Adjust the earpiece volume of your cellular phone to your preference. The unit will record the adjusted volume level as the default setting.

- The volume of the caller's voice and ring tone may vary depending on the type of cellular phone.
- If there is a large volume difference between the ring tone and caller's voice, the overall volume level may become unstable.
- Make sure to adjust the volume to a proper level before disconnecting the cellular phone from the unit. If the volume is muted (zero level) on your cellular phone, the volume level of your cellular phone remains muted even after the cellular phone is disconnected.

## Storing and recalling stations

You can easily store up to six stations for each band as presets.

### 1 Display the preset screen.

Refer to *Introduction of tuner operations* on page 15.

The preset screen appears in the display.


### 2 Touch and hold one of the preset tuning keys to store the selected frequency in the memory.

The selected radio station frequency has been stored in the memory.

### 3 Touch one of the preset tuning keys to select the desired station.

## Displaying radio text

Radio text data transmitted by RDS stations, such as station information, the name of the currently broadcast song and the name of the artist, can be displayed on this tuner.

- When no radio text is received, **No Text** appears in the display. 


## Storing and recalling radio text

You can store data from up to six radio text transmissions to the **Memo1** to **Memo6** keys.

### 1 Display the radio text you want to store in the memory.

Refer to *Introduction of tuner operations* on page 15.

### 2 Touch and hold one of the keys to store the selected radio text.

The memory number is displayed and the selected radio text will be stored in the memory. The next time you press the same key in radio text display the stored text will be recalled from the memory. 

## Storing the strongest stations

BSM (best stations memory) automatically stores the six strongest stations in the order of their signal strength.

Storing broadcast frequencies with BSM may replace broadcast frequencies you have saved using the preset tuning keys.


### 1 Display the preset screen.

Refer to *Introduction of tuner operations* on page 15.

The preset screen appears in the display.

### 2 Touch BSM/BSSM to turn BSM on.


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


- To cancel the storage process, touch **Cancel**. 

## Tuning in to strong signals

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

FM: Off — 

MW/LW: Off — 

The highest level setting allows reception of only the strongest stations, while lower levels allow the reception of weaker stations. 

## Using iTunes tagging

*This function can be operated with the following iPod models.*

- iPod touch 4th generation
- iPod touch 3rd generation
- iPod touch 2nd generation
- iPod touch 1st generation
- iPod classic 160GB
- iPod classic 120GB
- iPod classic
- iPod with video

## Detailed instructions

- iPod nano 6th generation
- iPod nano 5th generation
- iPod nano 4th generation
- iPod nano 3rd generation
- iPhone 4S
- iPhone 4
- iPhone 3GS
- iPhone 3G
- iPhone

The song information (tag) can be saved from the broadcasting station to your iPod. The songs will show up in a playlist called "Tagged playlist" in iTunes the next time you sync your iPod. Then you can directly buy the songs you want from the iTunes Store.

The tagged songs and the song that you can buy from the iTunes Store may be different. Make sure to confirm the song before you make the purchase.

If you cannot use this function normally, update your iPod firmware.

### Storing the tag information to this unit

#### 1 Tune in to the broadcast station.

#### 2 Store the tag information to this unit.

Refer to *Introduction of tuner operations* on page 15.

You can store the information if the **Tag** indicator is displayed while the desired song is being broadcast.

- While storing the tag data on this unit, **Tag** flashes.
- The tag information for up to 50 songs can be stored on this unit.
- Depending on the timing of when the tag information is stored, the tag information for the song played before or after the currently playing song may also be stored.
- If an SD is selected as the source while tag information is being stored to this unit, the tag information will not be transferred to the iPod.

#### 3 When completed, indicator turns off and indicator is displayed.

### Storing the tagged information to your iPod

#### 1 Connect your iPod.

When your iPod is connected to this unit, your iPod starts storing the tagged information automatically.


- While transferring the tag, you cannot select the SD source.

#### 2 When completed, indicator turns off and the tagged information is stored on your iPod. .

### Receiving traffic announcements


Regardless of the source you are listening to, you can receive traffic announcements automatically with TA (traffic announcement standby).

#### 1 Tune in to a TP or enhanced other network's TP station.

 indicator lights up.

#### 2 Turn Traffic announcement on.

Refer to *Introduction of tuner operations* on page 15.


- If the TA function is turned on when you are not tuned in to a TP or enhanced other network's TP station, the  indicator lights up dimly.

#### 3 Press +/- (VOLUME/VOL) to adjust the TA volume when a traffic announcement begins.

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

#### 4 Turn off the announcement while a traffic announcement is being received.

Refer to *Introduction of tuner operations* on page 15.

The tuner returns to the original source but remains in the TA function standby mode until the icon is touched again. .

## Using PTY functions

You can tune in to a station using PTY (program type) information.

### Searching for an RDS station by PTY information

You can search for general types of broadcast-ing programs, such as those listed in the fol-lowing section. Refer to this page.

#### 1 Display the preset screen.

Refer to *Introduction of tuner operations* on page 15.

#### 2 Touch PTY.

#### 3 Touch ▲ or ▼ to select a program type.

There are four program types:

**News&Info**—**Popular**—**Classics**—**Others**

#### 4 Touch Start to begin the search.

The unit searches for a station broadcasting that type of program. When a station is found, its program service name is displayed.

PTY (program type) information is listed in the following section. Refer to this page.

- To cancel the search, touch **Cancel**.
- The program of some stations may differ from that indicated by the transmitted PTY.
- If no station is broadcasting the type of program you searched for, **Not Found** is displayed for about two seconds and then the tuner returns to the original station.

### Using news program interruption

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

## PTY list

### News&Info

**News** (News), **Affairs** (Current affairs), **Info** (Information), **Sport** (Sports), **Weather** (Weather), **Finance** (Finance)

### Popular

**Pop Mus** (Popular music), **Rock Mus** (Rock music), **Easy Mus** (Easy listening), **Oth Mus** (Other music), **Jazz** (Jazz), **Country** (Country music), **Nat Mus** (National music), **Oldies** (Oldies music), **Folk Mus** (Folk music)

### Classics

**L.Class** (Light classical), **Classic** (Classical)

### Others

**Educate** (Education), **Drama** (Drama), **Culture** (Culture), **Science** (Science), **Varied** (Varied), **Children** (Children's), **Social** (Social affairs), **Religion** (Religion), **Phone In** (Phone in), **Touring** (Travel), **Leisure** (Leisure), **Document** (Documentaries)



## Switching the media file type

When playing a digital media containing a mixture of various media file types, such as DivX, MPEG-1, MPEG-2, MPEG-4 and MP3, you can switch between media file types to play.

Audio data (CD-DA) and JPEG picture files on DVD-R/RW/ROM cannot be played back on this unit.

**CD** (audio data (CD-DA))—**Music/ROM** (compressed audio)—**Video** (DivX, MPEG-1, MPEG-2, MPEG-4 video files)—**Photo** (JPEG picture files)

## Operating the DVD menu

(Function for DVD video)

Some DVDs allow you to make a selection from the disc contents using a menu.

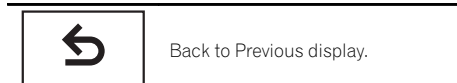
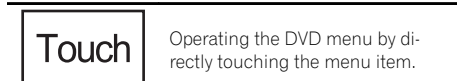
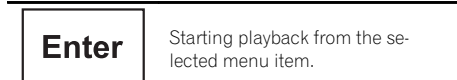
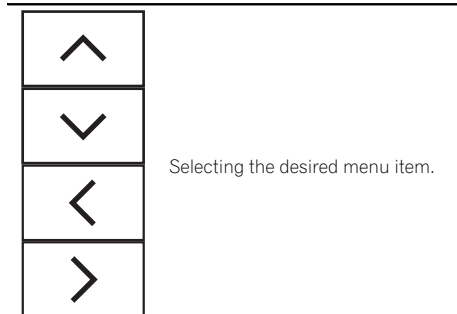
## Detailed instructions

### Using the arrow keys

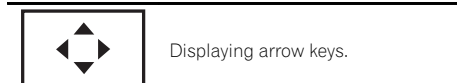
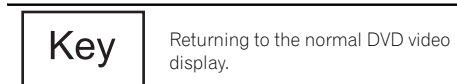
#### 1 Display arrow keys to operate the DVD menu.

Refer to *Playing moving images* on page 16.

#### 2 Select the desired menu item.



- When operating the DVD menu by directly touching the menu item, touch the icon to operate.



- Ways to display the menu will differ depending on the disc.
- Depending on the contents of the DVD disc, this function may not work properly. In such cases, use the touch panel keys to operate the DVD menu. ■

### Operating this unit's iPod function from your iPod

You can listen to the sound from your iPod applications using your car's speakers, when **App Mode** is selected.

This function is not compatible with the following iPod models.

- iPod nano 1st generation
- iPod with video
- 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 Switch the control mode to App Mode.

Refer to *Introduction of video playback operations* on page 16.


Refer to *Introduction of sound playback operations* on page 19.

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

##### Notes


- The following functions are still accessible from the unit 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 to a chapter up/down
- **App Mode** is compatible with the following iPod models.
  - iPod touch 4th generation
  - iPod touch 3rd generation
  - iPod touch 2nd generation
  - iPod touch 1st generation
  - iPod classic 160GB
  - iPod classic 120GB
  - iPod classic
  - iPod nano 6th generation
  - iPod nano 5th generation
  - iPod nano 4th generation
  - iPod nano 3rd generation

## Detailed instructions

- iPod nano 2nd generation
- iPhone 4S
- iPhone 4
- iPhone 3GS
- iPhone 3G
- iPhone 

### Random play (shuffle)


iPod-videos/songs can be played back in random order.

- **Songs** – Play back videos/songs in the selected list in random order.
- **Albums** – Play back videos/songs from a randomly selected album in order.
- **Folder** – Play back songs/tracks in the selected folder in random order.
- **Disc** – Play back songs/tracks in the selected disc in random order.
- **On** – Play back files in random order within the repeat range, **Folder** and **Disc**.
- **Off** – Cancel random play. 

### Repeating playback

- **Disc** – Play through the current disc
  - **Chapter** – Repeat the current chapter
  - **Title** – Repeat the current title
  - **Track** – Repeat the current track
  - **File** – Repeat the current file
  - **Folder** – Repeat the current folder
  - **One** – Repeat just the current video/song
  - **All** – Repeat all videos/songs in the selected list on the iPod
- This function cannot be operated during Video CD playback featuring PBC (playback control).
  - If you perform chapter search, fast forward/reverse, frame-by-frame playback or slow motion playback, the repeat play will stop.
  - When playing discs with compressed audio and audio data (CD-DA), playback is re-

peated within the type of data currently playing even if **Disc** is selected.

- If you select another folder during repeat play, the repeat play range changes to **Disc**. If you select USB or SD source, the repeat play range changes to **All**.
- If you perform track search or fast forward/reverse during **File**, the repeat play range changes to **Folder**.
- If you perform title/chapter search or fast forward/reverse during **Chapter**, the repeat play is set to off automatically.
- If you perform track search or fast forward/reverse during **Track**, the repeat play range changes to **Disc**.
- When **Folder** is selected, it is not possible to play back a subfolder of that folder. 

### Playing videos from your iPod

(Function for iPod)

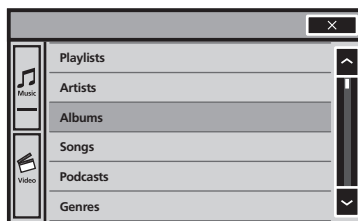
Videos can be played on this unit if an iPod with video capabilities is connected.

- This unit can play back “Movies”, “Music videos”, “Video Podcast” and “TV show” which are downloaded from the iTunes store.

#### 1 Display the iPod menus.

Refer to *Playing moving images* on page 16.

#### 2 Switch to iPod video mode.



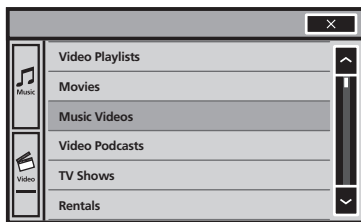
- If you want to switch to iPod video mode, touch the icon.



Switching to iPod video mode.

## Detailed instructions

### 3 Play the video from the iPod.



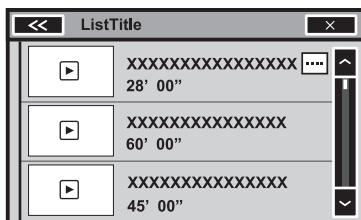
- If you want to switch to iPod music mode, touch the icon.




Switching to iPod music mode.



## Playing videos from USB storage device and SD



Touch the playback sign of the thumbnail to preview the file. Touch the title to start playback. 

## Browsing for a video/music on the iPod

(Function for iPod)

To make operating and searching easy, operations to control an iPod with this unit are designed to be as similar to the iPod as possible.

## Searching for a video/music by category

### 1 Display the iPod menus.

Refer to *Playing moving images* on page 16.  
Refer to *Playing audio* on page 19.

### 2 Touch one of the categories in which you want to search for a video/music.

- **Video Playlists** (video playlists)
- **Movies** (movies)
- **Music Videos** (music videos)
- **Video Podcasts** (video podcasts)
- **TV Shows** (TV shows)
- **Rentals** (rentals)
- **Playlists** (playlists)
- **Artists** (artists)
- **Albums** (albums)
- **Songs** (songs)
- **Podcasts** (podcasts)
- **Genres** (genres)
- **Composers** (composers)
- **Audiobooks** (audiobooks)

### 3 Touch the title of the list that you want to play.

Repeat this operation until you find the desired video/music.

#### Notes

- You can play playlists created with the PC application (MusicSphere). The application will be available on our website.
- Playlists that you created with the PC application (MusicSphere) are displayed in abbreviated form.

## Searching the list by alphabet

(Function for iPod)

### 1 Select a category.

Refer to *Searching for a video/music by category* on this page.

## 2 Switch to alphabet search mode.



Switching to alphabet search mode.

Alphabet search mode is displayed.

## 3 Touch the first letter of the title of the video/song you are looking for.

While searching, touch panel key operation is not available.

- To refine the search with a different letter, touch **Cancel**.

## 4 Touch the title of the list that you want to play.


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

## Resume playback (Bookmark)

(Function for DVD video)

By using the Bookmark function, you can resume playback from a selected scene the next time the disc is loaded.

The selected scene will be bookmarked so that playback resumes from that point next time.

- To clear the bookmark on a disc, touch and hold the key during playback.
- The oldest bookmark is replaced by the new one. 

## Frame-by-frame playback


(Function for DVD video/video CD/DivX file/MPEG-1/MPEG-2/MPEG-4)

### Note

Images during frame-by-frame playback may be unclear for some discs. 

## Slow motion playback

### Notes

- There is no sound during slow motion playback.
- Images during slow motion playback may be unclear for some discs.
- Reverse slow motion playback is not available. 

## 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).

- Chapter search is not available when disc playback is stopped.
- This function cannot be operated during some DVD videos or Video CD playback featuring PBC (playback control).

### 1 Start the search function.

Refer to *Playing moving images* on page 16.

### 2 Touch the desired search option (e.g., Chapter).

### 3 Touch 0 to 9 to input the desired number.


- To cancel the entered numbers, touch **C**.

### 4 Start playback from the selected part.



Registering the numbers and starting playback.

### Note


With discs featuring a menu, you can also use the DVD menu to make your selection. Refer to *Playing moving images* on page 16. 

## Detailed instructions

### Changing audio language during playback (Multi-audio)

With DVDs/DivX files that provides audio playback in different languages and different audio systems (Dolby Digital, DTS, etc.), you can switch between languages/audio systems during playback.


#### Notes

- With some DVDs, switching between languages/audio systems may only be possible using a menu display.
- You can also switch between languages/audio systems using **Video Setup** menu. For details, refer to *Setting the audio language* on page 48.
- Depending on the setting, the video may not be played back with the audio system used to record the DVD.
- You will return to normal playback if you change the **Audio** during fast forward/fast reverse, pause or slow motion playback. 

### Changing the subtitle language during playback (Multi-subtitle)

With DVDs/DivX files featuring multi-subtitle recordings, you can switch between subtitle languages during playback.

#### Notes


- With some DVDs, switching between subtitle languages may only be possible using a menu display.
- You can also switch between subtitle languages using **Video Setup** menu. For details, refer to *Setting the subtitle language* on page 48.
- You will return to normal playback if you change the **Subtitle** during fast forward/fast reverse, pause or slow motion playback. 

### Changing the viewing angle during playback (Multi-angle)

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


- During playback of a scene shot from multiple angles, the angle icon is displayed. Use the **Video Setup** menu to turn the angle icon display on or off. For details, refer to *Setting the multi-angle DVD display* on page 48.

#### Note

You will return to normal playback if you change the viewing angle during fast forward/fast reverse, pause or slow motion playback. 

### Return to the specified scene

(Function for DVD video)


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

### Selecting audio output

When playing DVD video discs recorded with LPCM audio, you can switch the audio output. When playing video CDs, you can switch between stereo and monaural audio output.

- This function is not available when disc playback is stopped.
- **L+R** – Left and right
- **Left** – Left
- **Right** – Right
- **Mix** – Mixing left and right

#### Note

You may not be able to select or use this function depending on the disc and the playback location. 

## PBC playback

(Function for Video CDs)

During playback of Video CDs featuring PBC (playback control), **PBC On** is displayed.

### 1 Start the search function.

Refer to *Playing moving images* on page 16.

### 2 Touch 10key to display the numeric keypad.

### 3 Touch 0 to 9 corresponding to a menu number.

### 4 Start playback from the selected part.



Registering the numbers and starting playback.

#### Notes

- You can display the menu by touching **Return** during PBC playback. For details, refer to the instructions provided with the disc.
- PBC playback of a Video CD cannot be canceled.
- During playback of Video CDs featuring PBC (playback control), you cannot select the repeat play range or use the search function.

## Selecting tracks from the track title list

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

### 1 Display the track title list.

Refer to *Playing audio* on page 19.

### 2 Touch your favorite track title.

Playback begins.

## Selecting files from the file name list

(Function for compressed audio/DivX/MPEG-1/MPEG-2/MPEG-4)

File name list is a list of file names (or folder names) from which you can select a file (or folder) to play back.

### 1 Display the file (or folder) name list.

Refer to *Playing audio* on page 19.

Refer to *Introduction of still image playback operations* on page 26.

### 2 Touch your favorite file (or folder) name.

- When you have selected a folder, a list of the names of the files (or the folders) in it can be viewed. Repeat this operation to select the desired file name.
- If folder **1** (ROOT) contains no files, playback commences with folder **2**.

#### Note

If part of the recorded information does not display, a scroll key appears on the right side of list. Touch the scroll key to scroll.

## Using sound retriever

Automatically enhances compressed audio and restores rich sound.

Off — — —

- is more effective than .

## Changing audiobook speed

(Function for iPod)

- **x2** — Playback at a speed faster than normal
- **x1** — Playback at normal speed
- **x1/2** — Playback at a speed slower than normal

## Detailed instructions

### Displaying lists related to the currently playing song (Link Search)


(Function for iPod/USB/SD)

#### 1 Touch the artwork display.

Refer to *Introduction of sound playback operations* on page 19.

#### 2 Touch the title of the list that you want to play.

##### Notes


- If part of the recorded information does not display, a scroll key appears on the right side of list. Touch the scroll key to scroll.
- This function is available for USB/SD when using Music browse mode. 

### Setting the Advanced Display Resolution

(Function for USB/SD)

You can increase the resolution of moving images on your USB/SD storage device.

#### OFF—1—2

- With some pictures, display adjustment may not be possible.
- There may not be any effect observed in some cases depending on the images being played back. 

### Music Browse mode

(Function for USB/SD)

This unit creates an index in order to facilitate browsing for a song. You can search by the categories such as Albums and Artists.

#### CAUTION

- This function is not available when the USB/SD storage device is locked.
- This function is not available when the free space of USB/SD storage device is 5MB.

- While this unit creates an index, do not turn the unit off. It may cause loss of data on your USB/SD storage device.

#### 1 Create the database in Music browse mode.

Refer to *Introduction of sound playback operations* on page 19.


#### 2 When “Save the Database to memory?” is displayed, touch “Yes”

Saving of the database is completed. If you do not save it, touch “No”.

When the saving is completed, “**Database save to memory was completed.**” appears.

#### 3 Display a list and touch the tag key.

#### 4 Select a file.

Music browse mode will start. 

### Playing DivX® VOD content

Some DivX video on demand (VOD) content may only be playable a fixed number of times. When you load a disc containing this type of content, the number of times it has been played will be shown on-screen. You can then decide whether or not to play the disc.

- If there is no limit to the number of times the DivX VOD content can be viewed, then you may load the disc into your player and play the content as often as you like, and no message will be displayed.
- You can confirm the number of times that the content can be played by checking the number displayed after **This DivX rental has used**  **out of**  **views.**

#### Important

- In order to play DivX VOD contents on this unit, you first need to register the unit with your DivX VOD contents provider. For details on your registration code, refer to *Displaying the DivX® VOD registration code* on page 51.

## Detailed instructions

- DivX VOD content is protected by a DRM (Digital Rights Management) system. This restricts playback of content to specific, registered devices.

### ● If a message is displayed after loading a disc containing DivX VOD content, touch **Play**.

Playback of the DivX VOD content will start.

- To skip to the next file, touch **Next Play**.
- If you do not want to play the DivX VOD content, touch **Stop**.

## Capture an image in JPEG files

You can capture image data and use it as wallpaper. Images can be stored and recalled easily in this unit.

- Only one image can be stored on this unit. Old image is overwritten with the new one.

### 1 Pause the slideshow when the desired image is displayed.

Refer to *Introduction of still image playback operations* on page 26.

### 2 Capture the image.

Refer to *Introduction of still image playback operations* on page 26.

### 3 When "Do you save this image?" is displayed, touch **Yes**.

While storing the image to this unit, "**Saving the image. Don't switch off the battery.**" is displayed. When the process is finished, "**Image saved.**" is displayed.

- To cancel the storage process, touch **No**.

## Changing the wide screen mode

You can select a desired mode for enlarging a 4:3 picture to a 16:9 picture.

### 1 Display the screen mode.

Refer to *Introduction of video playback operations* on page 16.

Refer to *Introduction of still image playback operations* on page 26.

### 2 Touch the desired wide mode setting.

#### FULL (full screen)

The 4:3 picture is enlarged in the horizontal direction only, giving you a 4:3 TV picture (normal picture) without any omissions.

#### ZOOM (zoom)

The 4:3 picture is enlarged in the same proportion both vertically and horizontally; ideal for a cinema sized picture (wide screen picture).

#### NORMAL (normal)

The 4:3 picture is displayed as it is, giving you no sense of disparity since its proportions are the same as that of the normal picture.

#### TRIMMING (trimming)

The 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.

#### Notes

- You cannot operate this function while driving.
- 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.
- Remember that using the wide mode feature of this system for commercial or public viewing purposes may constitute an infringement on the author's rights protected by the Copyright Law.
- The video image will appear coarser when viewed in **ZOOM** mode.
- **FULL/ZOOM/NORMAL** is used for videos. **NORMAL/TRIMMING** is used for JPEG images.

## Detailed instructions

### Calling a number in the phone book

The phone book in your cellular phone will be transferred automatically when the phone is connected to this unit.

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

#### 1 Switch to phone book mode.

Refer to *Introduction of Bluetooth telephone operations* on page 28.

The phone book display appears.

#### 2 Select the phone number list.

The detailed phone number list of the selected entry is displayed.

#### 3 Select the phone number.

- If you want to store the phone number, touch and hold the list.


#### 4 Make the call.

Refer to *Introduction of Bluetooth telephone operations* on page 28.

#### 5 End the call.

Refer to *Introduction of Bluetooth telephone operations* on page 28.

#### Note

Depending on the cellular phone, the phone book may not be transferred automatically. In this case, operate your cellular phone to transfer the phone book. The visibility of this unit should be on. Refer to *Switching visible unit* on page 61. 

### Selecting a number by alphabet search mode

If a lot of numbers are registered in the phone book, you can search for the phone number by alphabet search mode.

#### 1 Switch to phone book mode.

Refer to *Introduction of Bluetooth telephone operations* on page 28.

The phone book display appears.

#### 2 Touch ABC to switch to alphabet search mode.

#### 3 Touch the first letter of the entry you are looking for.

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

- If you want to change the character to Russian, touch the icon. To return to English, touch the icon again.



Changing the character to Russian.

- The order of the first name and last name may be different from that of the cellular phone.

#### 4 Touch the list to display the phone number list of the selected entry.

- If several phone numbers are included in an entry, select one by touching the list.
- If you want to switch to the call history list, touch the icon.



Switching to the call history list.

#### 5 Make the call.

Refer to *Introduction of Bluetooth telephone operations* on page 28.

#### 6 End the call.

Refer to *Introduction of Bluetooth telephone operations* on page 28. 

## Inverting names in phone book

When your cellular phone is connected to this unit, 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 Switch to phone book mode.

Refer to *Introduction of Bluetooth telephone operations* on page 28.

The phone book display appears.

### 2 Invert names in phone books.




Inverting names in phone books.

### 3 “Would you like to invert all names?” appears. Touch Yes to continue.

While the names are inverted,  is displayed.

- If the inversion fails, “Invert Name Error” appears. In such cases, try again from the beginning.

#### Note

Inverting the names of your contacts from this unit does not affect the data on your Bluetooth device. .

## Using the missed, received and dialed call lists

The 80 most recent calls dialed, received, and missed are stored in the memory. You can browse them and call numbers from these lists.

### 1 Switch to the call history list.

Refer to *Introduction of Bluetooth telephone operations* on page 28.

### 2 Select Missed Calls, Dialed Calls or Received Calls.



Displaying the received call list.



Displaying the dialed call list.



Displaying the missed call list.

### 3 Touch the list number to select a phone number.

Name and phone number are displayed in the detailed list.

- If you want to store the phone number, touch and hold the list.

### 4 Make the call.

Refer to *Introduction of Bluetooth telephone operations* on page 28.

### 5 End the call.

Refer to *Introduction of Bluetooth telephone operations* on page 28. .

## Setting automatic answering

If this function is on, this unit automatically answers all incoming calls.

### • Turn automatic answering on or off.

Refer to *Introduction of Bluetooth telephone operations* on page 28. .

## Adjusting the other party's listening volume

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

## Detailed instructions

### ● Select Far-End VOL.

Refer to *Introduction of Bluetooth telephone operations* on page 28.

#### 1—2—3

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

## Switching the ring tone

You can select whether or not to use this unit's ring tone. If this function is set to on, the ring tone for this unit will sound.

### 1 Connect your cellular phone to this unit.

### 2 Turn ring tone on or off.

Refer to *Introduction of Bluetooth telephone operations* on page 28.

## Using the preset dial lists

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

### 1 Display the preset screen.

Refer to *Introduction of Bluetooth telephone operations* on page 28.

### 2 Touch one of preset dial keys to select the desired phone number.

- If you want to delete a preset phone number, touch and hold the preset dial key.

### 3 Make the call.

Refer to *Introduction of Bluetooth telephone operations* on page 28.

### 4 End the call.

Refer to *Introduction of Bluetooth telephone operations* on page 28.

## Making a call by entering phone number



### Important

Be sure to park your vehicle in a safe place and apply the parking brake when performing this operation.

### 1 Switch to the entering phone number mode.

Refer to *Introduction of Bluetooth telephone operations* on page 28.

### 2 Touch the number icons to input the numbers.

- Up to 24 digits can be entered.

### 3 Make the call.

Refer to *Introduction of Bluetooth telephone operations* on page 28.

### 4 End the call.

Refer to *Introduction of Bluetooth telephone operations* on page 28.

### Note

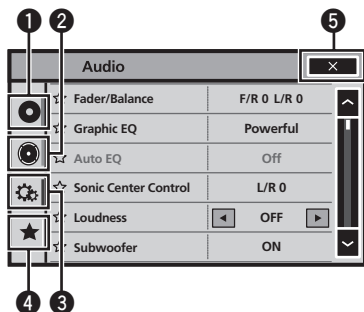
Entering phone number mode cannot be operated unless a Bluetooth telephone is connected to this unit.

## Setting the private mode

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

Refer to *Introduction of Bluetooth telephone operations* on page 28.

## Introduction of menu operations



- You cannot display the Audio function menu when the mute function is on or a JPEG file is playing.

### 1 Display menus.

Refer to *Basic operations* on page 9.

### 2 Touch any of the following touch panel keys to select the menu to be adjusted.

#### Touch panel keys

1		Video Setup menu Refer to <i>Setting up the Video player</i> on page 48.
2		Audio function menu Refer to <i>Audio adjustments</i> on the next page.
3		System menu Refer to <i>System settings</i> on page 52.
4		Favorite menu You can choose menus within each menu (Audio function menu, etc.) and register them to this favorite menu. Refer to <i>Favorite menu</i> on page 59.
5		Returning to the current source display

#### Notes

- You can display the **Video Setup** menu when a **Disc**, **USB** or **SD** source is selected.
- If you start the **Video Setup** menu, playback is stopped.

## Menu operations

### Audio adjustments

#### Using fader/balance adjustment

You can change the fader/balance setting to provide an ideal listening environment for all of the occupied seats.

##### 1 Display the audio function menu.

Refer to *Introduction of menu operations* on the previous page.

##### 2 Touch Fader/Balance on the audio function menu.

##### 3 Touch ▲ or ▼ to adjust the front/rear speaker balance.

Range: **Front 15** to **Rear 15**

- Select **F/R 0 L/R 0** when only using two speakers.
- The front/rear speaker balance cannot be adjusted when the rear output setting is **Subwoofer**. Refer to *Setting the rear output and subwoofer controller* on page 52.

##### 4 Touch ◀ or ▶ to adjust the left/right speaker balance.

Range: **Left 15** to **Right 15**

#### Note

You can also set the fader/balance by dragging the dot on the displayed table.

#### Using the equalizer

You can adjust the equalization to match the car's interior acoustic characteristics as desired.

#### Recalling equalizer curves

There are seven stored equalizer curves which you can easily recall at any time. Here is a list of the equalizer curves.

Display	Equalizer curve
Powerful	Powerful
Natural	Natural
Vocal	Vocal

Display	Equalizer curve
Flat	Flat
Custom1	Custom 1
Custom2	Custom 2
S.Bass	Super bass

- The equalizer curves for **Custom1** and **Custom2** can be adjusted.
- You cannot select **Custom1** and **Custom2** when using the auto-equalizer.
- When **Flat**, no changes are made to the sound. You can check the effects of the equalizer curves by switching alternatively between **Flat** and another equalizer curve.

##### 1 Display the audio function menu.

Refer to *Introduction of menu operations* on the previous page.

##### 2 Touch Graphic EQ on the audio function menu.

- You cannot select or adjust the equalizer curves of **Custom1** and **Custom2** when using the auto-equalizer.

##### 3 Touch the desired setting.

**S.Bass—Powerful—Natural—Vocal—Flat—Custom1—Custom2**

#### Adjusting the 8-band graphic equalizer

You can adjust the level of each band for the equalizer curves.

- A separate **Custom1** curve can be created for each source. If you make adjustments when a curve other than **Custom2** is selected, the equalizer curve settings will be stored in **Custom1**.
- A **Custom2** curve that is common for all sources can be created. If you make adjustments when the **Custom2** curve is selected, the **Custom2** curve will be updated.

##### 1 Display the audio function menu.

Refer to *Introduction of menu operations* on the previous page.

**2 Touch Graphic EQ on the audio function menu.**

**3 Touch the desired setting.**

**S.Bass—Powerful—Natural—Vocal—Flat—Custom1—Custom2**

**4 Touch the table to adjust the level of the equalizer band.**

Range: **+12dB** to **-12dB**

## Using the auto-equalizer

The auto-equalizer is an equalizer curve created by auto EQ (refer to *Auto EQ (auto-equalizing)* on page 57).

You can turn the auto-equalizer on or off.

If you connect an optional microphone to this unit, you can use this function.

**1 Display the audio function menu.**

Refer to *Introduction of menu operations* on page 44.

**2 Touch Auto EQ to turn the auto-equalizer on or off.**

- You cannot use this function if auto EQ has not been carried out.

## Using sonic center control

Sound that is suited for the listening position can easily be created with this function.

**1 Display the audio function menu.**

Refer to *Introduction of menu operations* on page 44.

**2 Touch Sonic Center Control on the audio function menu.**

**3 Touch ◀ or ▶ to select a listening position.**

Range: **Left 7** to **Right 7**

## Adjusting loudness

Loudness compensates for deficiencies in the low-frequency and high-frequency ranges at low volume.

**1 Display the audio function menu.**

Refer to *Introduction of menu operations* on page 44.

**2 Touch ◀ or ▶ to select a desired level for loudness.**

**Off** (off)—**Low** (low)—**Mid** (mid)—**High** (high)

## Using subwoofer output

This unit is equipped with a subwoofer output which can be turned on or off.

- The cut-off frequency and output level can be adjusted when the subwoofer output is on.

**1 Display the audio function menu.**

Refer to *Introduction of menu operations* on page 44.

**2 Touch Subwoofer on the audio function menu.**

**3 Touch On or Off next to Subwoofer to turn the subwoofer output on or off.**

**4 Touch Normal or Reverse next to Phase to select the phase of subwoofer output.**

**5 Touch ◀ or ▶ next to Level to adjust the output level of the subwoofer.**

Range: **+6** to **-24**

**6 Touch ◀ or ▶ next to Frequency to select the cut-off frequency.**

**50Hz—63Hz—80Hz—100Hz—125Hz**

Only frequencies lower than those in the selected range are outputted from the subwoofer.

## Boosting the bass

You can boost the bass level.

## Menu operations

### 1 Display the audio function menu.

Refer to *Introduction of menu operations* on page 44.

### 2 Touch ◀ or ▶ to select a desired level.

Range: 0 to +6

## Using the high pass filter

When you do not want low sounds from the subwoofer output frequency range to play from the front or rear speakers, turn on the HPF (high pass filter). Only frequencies higher than those in the selected range are output from the front or rear speakers.

### 1 Display the audio function menu.

Refer to *Introduction of menu operations* on page 44.

### 2 Touch ◀ or ▶ next to the frequency to select cut-off frequency.

Off (off)—50Hz—63Hz—80Hz—100Hz—125Hz

Only frequencies higher than those in the selected range are output from the front or rear speakers.

## Adjusting source levels

With SLA (source level adjustment), the volume levels of each source can be adjusted to prevent significant differences between sources.

- Settings are based on the FM volume level, which remains unchanged.

### 1 Display the audio function menu.

Refer to *Introduction of menu operations* on page 44.

### 2 Compare the FM volume level with the level of the source you wish to adjust.

### 3 Touch Source Level Adjuster on the audio function menu.

### 4 Touch ▲ or ▼ to adjust the source volume.

Range: +4 to -4

#### Notes

- When selecting FM as the source, you cannot switch to **Source Level Adjuster**.
- The MW/LW volume level can also be adjusted with this function.
- Video CD, CD, compressed audio, DivX, MPEG-1, MPEG-2 and MPEG-4 are automatically set to the same source level adjustment volume.
- When an iPod and a USB storage device are connected to USB input 1 or USB input 2, the source level adjustment volume for each is automatically set to the same level for each USB input. USB input 1 and USB input 2 are not automatically set to the same setting. ◻

## Setting up the Video player

### Setting the subtitle language

You can set a desired subtitle language. When available, the subtitles will be displayed in the selected language.

#### 1 Display the Video Setup menu.

Refer to *Introduction of menu operations* on page 44.

#### 2 Touch Subtitle Language on the Video Setup menu.

A subtitle language menu is displayed.

#### 3 Touch the desired language.

The subtitle language is set.

- If you have selected **Others**, refer to *When you select Others* on this page.

#### Notes

- If the selected language is not available, the language specified on the disc is displayed.
- You can also switch the subtitle language by touching the icon during playback. (Refer to *Playing moving images* on page 16.)
- The setting made here will not be affected even if the subtitle language is switched during playback using **Subtitle**.

### When you select Others

A language code input display is shown when **Others** is selected. Refer to *Language code chart for DVD* on page 84.

#### ● Touch 0 to 9 to input the language code.

- To cancel the entered numbers, touch **C**.
- To register the code, touch the following touch panel key.



Registering the code.

### Setting the audio language

You can set the preferred audio language.

#### 1 Display the Video Setup menu.

Refer to *Introduction of menu operations* on page 44.

#### 2 Touch Audio Language on the Video Setup menu.

An audio language menu is displayed.

#### 3 Touch the desired language.

The audio language is set.

- If you have selected **Others**, refer to *When you select Others* on this page.

#### Notes

- If the selected language is not available, the language specified on the disc is used.
- You can also switch the audio language by touching **Audio** during playback. (Refer to *Playing moving images* on page 16.)
- The setting made here will not be affected even if the audio language is switched during playback using **Audio**.

### Setting the menu language

You can set the preferred language in which the menus recorded on a disc are displayed.

#### 1 Display the Video Setup menu.

Refer to *Introduction of menu operations* on page 44.

#### 2 Touch Menu Language on the Video Setup menu.

A menu language menu is displayed.

#### 3 Touch the desired language.

The menu language is set.

- If you have selected **Others**, refer to *When you select Others* on this page.

#### Note

If the selected language is not available, the language specified on the disc is displayed.

### Setting the multi-angle DVD display

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

## Menu operations

### 1 Display the Video Setup menu.

Refer to *Introduction of menu operations* on page 44.

### 2 Touch Multi Angle on the Video Setup menu to turn angle icon display on or off.

## Setting the aspect ratio

There are two kinds of display: a wide screen display that has a width-to-height ratio (TV aspect ratio) of 16:9, and regular display that has a TV aspect of 4:3. Be sure to select the correct TV aspect for the display connected to **V OUT**.

- When using regular display, select either **Letter Box** or **Pan Scan**. Selecting **16:9** may result in an unnatural picture.
- If you select the TV aspect ratio, the unit's display will change to the same setting.

### 1 Display the Video Setup menu.

Refer to *Introduction of menu operations* on page 44.

### 2 Touch TV Aspect on the Video Setup menu to select the TV aspect ratio.

Touch **TV Aspect** repeatedly until the desired aspect ratio appears.

- **16:9** – Wide screen picture (16:9) is displayed as is (initial setting)
- **Letter Box** – The picture is the shape of a letterbox with black bands on the top and bottom of the screen
- **Pan Scan** – The picture is cut short on the right and left sides of the screen

### Notes

- When playing discs that do not specify **Pan Scan**, the disc is played back in **Letter Box** display even if you select the **Pan Scan** setting. Confirm whether the disc package bears the **16:9 LB** mark.
- The TV aspect ratio cannot be changed for some discs. For details, refer to the disc's instructions.

## Setting the slideshow interval

JPEG files can be viewed as a slideshow on this unit. In this setting, the interval between each image can be set.

### 1 Display the Video Setup menu.

Refer to *Introduction of menu operations* on page 44.

### 2 Touch Time Per Photo Slide on the Video Setup menu to select the slideshow interval.

Touch **Time Per Photo Slide** repeatedly until the desired setting appears.

- **5sec** – JPEG images switch at intervals of 5 seconds
- **10sec** – JPEG images switch at intervals of 10 seconds
- **15sec** – JPEG images switch at intervals of 15 seconds
- **Manual** – JPEG images can be switched manually

## Setting parental lock

Some DVD video discs let you use parental lock to restrict children from viewing violent and adult-oriented scenes. You can set parental lock to the desired level.

- When you have a parental lock level set and play a disc featuring parental lock, code number input indications may be displayed. In such cases, playback will begin when the correct code number is entered.

## Setting the code number and level

A code number must be registered in order to play back discs with parental lock.

### 1 Display the Video Setup menu.

Refer to *Introduction of menu operations* on page 44.

### 2 Touch Parental on the Video Setup menu.

### 3 Touch 0 to 9 to input a four digit code number.

- To cancel the entered numbers, touch **C**.

## Menu operations

- To register the code, touch the following touch panel key.



Registering the code.

The code number is set, and the level can now be set.

#### 4 Touch 1 to 8 to select the desired level.

#### 5 Touch Enter.

The parental lock level is set.

- **8** – Playback of the entire disc is possible (initial setting)
- **7 to 2** – Playback of discs for children and non-adult-oriented discs is possible
- **1** – Playback of discs for children only is possible

#### Notes

- We recommend to keep a record of your code number in case you forget it.
- The parental lock level is stored on the disc. Look for the level indication written on the disc package, included literature or on the disc itself. Parental lock of this unit is not possible if a parental lock level is not stored on the disc.
- With some discs, the parental lock may be active only for certain levels of scenes. The playback of those scenes will be skipped. For details, refer to the instruction manual that came with the disc.

### Changing the level

You can change the set parental lock level.

#### 1 Display the Video Setup menu.

Refer to *Introduction of menu operations* on page 44.

#### 2 Touch Parental on the Video Setup menu.


#### 3 Touch 0 to 9 to input the registered code number.

#### 4 Registering the code.



Registering the code.

This sets the code number, and the level can now be changed.

- If you enter an incorrect code number, the  icon is displayed. Touch **C** and enter the correct code number.
- If you forget your code number, refer to *If you forget your code number* on this page.

#### 5 Touch 1 to 8 to select the desired level.

#### 6 Touch Enter.

The new parental lock level is set.

### If you forget your code number

Press **RESET**.

### Setting the DivX subtitle file

You can select whether or not to display DivX external subtitles.

- The DivX subtitles will be displayed even when **Custom** is selected if no DivX external subtitle files exist.

#### 1 Display the Video Setup menu.

Refer to *Introduction of menu operations* on page 44.

#### 2 Touch DivX® Subtitle on the Video Setup menu to select the desired subtitle setting.

- **Original** – Display the DivX subtitles
- **Custom** – Display the DivX external subtitles

#### Notes

- Up to 42 characters can be displayed on one line. If more than 42 characters are set, the line breaks and the characters are displayed on the next line.
- Up to 126 characters can be displayed on one screen. If more than 126 characters are set, the excess characters will not be displayed.

## Menu operations

### Displaying the DivX® VOD registration code

In order to play DivX VOD (video on demand) contents on this unit, the unit must first be registered with a DivX VOD contents provider. For registration, generate a DivX VOD registration code and submit it to your provider.

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

#### 1 Display the Video Setup menu.

Refer to *Introduction of menu operations* on page 44.

#### 2 Touch DivX® VOD on the Video Setup menu.

**Registration Code** and **Deregistration Code** appear.

#### 3 Touch Registration Code.

Your registration code is displayed.

### Displaying the deregistration code

If your device is already registered, deregister it by entering the deregistration code.

#### 1 Display the Video Setup menu.

Refer to *Introduction of menu operations* on page 44.

#### 2 Touch DivX® VOD on the Video Setup menu.

#### 3 Touch Deregistration Code.

- To cancel deregistration, touch **Cancel**.

#### 4 Touch OK.

The deregistration is complete.

### Automatic playback of DVDs


When a DVD disc with a DVD menu is inserted, this unit 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 operated, turn this function off and start playback.

#### 1 Display the Video Setup menu.

Refer to *Introduction of menu operations* on page 44.

#### 2 Touch DVD Auto Play to turn automatic playback on.

- To turn automatic playback off, touch **DVD Auto Play** again. 

## System settings

### Switching the auxiliary setting

Activate this setting when using an auxiliary device connected to this unit.

#### 1 Display the system menu.

Refer to *Introduction of menu operations* on page 44.

#### 2 Touch AUX Input on the system menu to turn AUX Input on or off.

### Setting AV input

Activate this setting when using an external video component connected to this unit.

#### 1 Display the system menu.

Refer to *Introduction of menu operations* on page 44.

#### 2 Touch AV Input on the system menu to turn AV Input on or off.

### Setting the RGB Input

You can switch the setting of RGB input.

#### 1 Display the system menu.

Refer to *Introduction of menu operations* on page 44.

#### 2 Touch RGB Input on the system menu to turn iPhone or NAVI.

#### Note

If you use Advanced App Mode, set to **iPhone**.

### Setting the App sound mixing

You cannot turn on or off Mixing when this unit is playing a song of iPod.

The sound of application during Advanced App Mode can be adjusted.

Enable this setting when you want to mix the App sound with the sound from a built-in source (such as the radio). The volume of the App sound can be selected from 3 levels.

#### 1 Display the system menu.

Refer to *Introduction of menu operations* on page 44.

#### 2 Touch App sound mixing on the System menu to select desired setting.

**OFF** (off)—**Low** (low)—**Mid** (mid)—**High** (high)

### Setting the rear output and subwoofer controller

This unit's rear output (rear speaker leads output and RCA rear output) can be used for full-range speaker (**Full**) or subwoofer (**Subwoofer**) connection. If you switch the rear output setting to **Subwoofer**, you can connect a rear speaker lead directly to a subwoofer without using an auxiliary amp. Initially, the unit is set for a rear full-range speaker connection (**Full**).

#### 1 Turn the unit off.

Refer to *Basic operations* on page 9.

#### 2 Press HOME to switch to the HOME display.

#### 3 Touch System key.

System menu is displayed.

#### 4 Touch Rear Speaker on the system menu to switch the subwoofer output or full-range speaker.

- When no subwoofer is connected to the rear output, select **Full** (full-range speaker).
- When a subwoofer is connected to the rear output, select **Subwoofer** (subwoofer).

#### Notes

- Even if you change this setting, there will be no output unless you turn the subwoofer output on (refer to *Using subwoofer output* on page 46).
- Both rear speaker lead outputs and RCA rear output are switched simultaneously in this setting.

## Menu operations

### Setting the FM tuning step

Normally, the FM tuning step employed by seek tuning is 50 kHz. When AF or TA is on, the tuning step automatically changes to 100 kHz. It may be preferable to set the tuning step to 50 kHz when AF is on.

- The tuning step remains at 50 kHz during manual tuning.

#### 1 Turn the unit off.

Refer to *Basic operations* on page 9.

#### 2 Display the system menu.

Refer to *Introduction of menu operations* on page 44.

#### 3 Touch FM Step on the system menu to select the FM tuning step.

Touching **FM Step** will switch the FM tuning step between 50 kHz and 100 kHz. The selected FM tuning step will appear.

## RDS setting

### Limiting stations to regional programming

When AF is used, the regional function limits the selection of stations to those broadcasting regional programs.

#### 1 Turn the unit off.

Refer to *Basic operations* on page 9.

#### 2 Display the system menu.

Refer to *Introduction of menu operations* on page 44.

#### 3 Touch RDS Setup on the system menu.

#### 4 Touch Regional on the menu to turn the regional function on.

- To turn the regional function off, touch **Regional** again.

### Selecting alternative frequencies

When the tuner cannot get a good reception, the unit automatically searches for a different station in the same network.

#### 1 Turn the unit off.

Refer to *Basic operations* on page 9.

#### 2 Display the system menu.

Refer to *Introduction of menu operations* on page 44.

#### 3 Touch RDS Setup on the system menu.

#### 4 Touch Alternative FREQ to turn AF on.

- To turn AF off, touch **Alternative FREQ** again.

#### Note

Sound may be temporarily interrupted by another program during an AF frequency search.

## Switching Auto PI Seek

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

#### 1 Turn the unit off.

Refer to *Basic operations* on page 9.

#### 2 Display the system menu.

Refer to *Introduction of menu operations* on page 44.

#### 3 Touch Auto PI on the system menu to turn Auto PI Seek on.

- To turn Auto PI Seek off, touch **Auto PI** again.

## Setting the Tag forwarding

The song information (tag) can be saved from the broadcasting station of HD Radio to your iPod.

#### 1 Display the system menu.

Refer to *Introduction of menu operations* on page 44.

#### 2 Touch Tag forwarding on the system menu to turn USB1 or USB2.

## Switching sound muting/attenuation

Sound from this system is automatically muted or attenuated when a signal from equipment with a mute function is received.

- Sound from this system returns to normal when the muting or attenuation is canceled.

## Menu operations

### 1 Display the system menu.

Refer to *Introduction of menu operations* on page 44.

### 2 Touch Mute/ATT until the desired setting appears.

Touch **Mute/ATT** until the desired setting appears in the display.

- **Mute** – Muting
- **ATT –20dB** – Attenuation (**ATT –20dB** has a stronger effect than **ATT –10dB**)
- **ATT –10dB** – Attenuation
- **Off** – Turns the sound muting/attenuation off

#### Notes

- When **Mute** is displayed, the sound is turned off and no audio adjustments can be made.
- When **ATT** is displayed, the sound is attenuated and only the volume can be adjusted. (No other audio adjustments can be made.)
- Operation returns to normal when the phone connection is ended.

## Selecting the system language

The system language can be selected from ten languages.

If text information such as the title name, artist name or a comment is embedded in a European language, they can also be displayed on this unit.

- The language can be changed for the following:
  - System menu
  - Video Setup menu
  - Bluetooth menu
  - On-screen display (English and Russian only)
  - Multi language setting for DivX (English and Russian only)
  - Language for cautions
 

Some operations on this unit are prohibited from use while driving or require careful attention when operated. In such cases, a caution 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 Display the system menu.

Refer to *Introduction of menu operations* on page 44.

### 2 Touch System Language on the system menu to select the desired language.

### 3 Touch the desired language.

**English** (English)—**Português** (Portuguese)—**Español** (Spanish)—**Français** (French)—**فارسی** (Persian)—**Deutsch** (German)—**ไทย** (Thai)—**Русский** (Russian)—**العربية** (Arabic)—**עברית** (Hebrew)

## 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 Display the system menu.

Refer to *Introduction of menu operations* on page 44.

### 2 Touch Ever Scroll on the system menu to turn ever scroll on or off.

## Setting the Bluetooth audio

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

### 1 Display the system menu.

Refer to *Introduction of menu operations* on page 44.

### 2 Touch Bluetooth Audio on the system menu to turn Bluetooth audio on or off.

## Clearing Bluetooth memory

### Important

Never turn the unit off while the Bluetooth memory is being cleared.

### 1 Turn the unit off.

Refer to *Basic operations* on page 9.

## Menu operations

**2 Press HOME to switch to the HOME display.**

**3 Touch System key.**

System menu is displayed.

**4 Touch Bluetooth Memory Clear on the system menu.**

**5 Touch Clear.**

After selecting a desired item, a confirmation display appears. Touch **OK** to delete the memory.

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

### Updating Bluetooth connection software

This function is used to update this unit with the latest bluetooth software. For about bluetooth software and updating, refer to our website.

#### Important

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

**1 Turn the unit off.**

Refer to *Basic operations* on page 9.

**2 Press HOME to switch to the HOME display.**

**3 Touch System key.**

System menu is displayed.

**4 Touch BT Software Update.**

**5 Touch Start to display the data transfer mode.**

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

### Displaying the Bluetooth system version

If this unit fails to operate properly, you may need to consult your dealer for repair. In such cases, you may be asked to specify the system version. Perform the following procedure to check the version on this unit.

**1 Turn the unit off.**

Refer to *Basic operations* on page 9.

**2 Press HOME to switch to the HOME display.**

**3 Touch System key.**

System menu is displayed.

**4 Touch Bluetooth Version Information to display to the version of the Bluetooth module of this unit.**

### Setting the Bluetooth safe mode

This setting restricts your operation for Bluetooth device while driving.

If this mode is set to on, the following operations are not possible.

- Calling using entering phone number mode
- All operations in the Bluetooth connection menu



#### CAUTION

For your safety, safe mode must always be set "On" while driving.

**1 Display the system menu.**

Refer to *Introduction of menu operations* on page 44.

**2 Touch Safe Mode on the system menu to turn Bluetooth safe mode on or off.**

### Setting the rear view camera (back up camera)



#### CAUTION

**Pioneer recommends the use of a camera which outputs mirror-reversed images.**

**Otherwise, the screen image will appear reversed.**

This unit features a function that automatically switches to the rear view camera video (**R.C IN**) when a rear view camera is installed on your car and the shift lever is moved to the **REVERSE (R)** position. (For more details, consult your dealer.)

- After you set up the rear view camera setting, move the shift lever to **REVERSE (R)** and confirm that the rear view camera video is shown on the display.
- Change this setting if the display switches to the rear view camera video by error while you are driving forward.
- To stop watching the rear view camera video and return to the source display, press and hold **MUTE**.
- Touch the **RearView** source icon to display the rear view camera image while driving. Touch the source icon again to turn the rear view camera off. For details, refer to *Selecting a source using the touch panel keys* on page 10.

### 1 Display the system menu.

Refer to *Introduction of menu operations* on page 44.

### 2 Touch Camera Polarity on the system menu to select the appropriate setting.

- **Battery** – When the polarity of the connected lead is positive while the shift lever is in **REVERSE (R)** position
- **Ground** – When the polarity of the connected lead is negative while the shift lever is in **REVERSE (R)** position
- **Off** – When a rear view camera is not connected to this unit

### Note

You can also switch the rear view image by pressing the touch key, regardless of the **Camera Polarity** setting on the system menu. Refer to *Basic operations* on page 9.

## Selecting the video format

You can switch the video output format of **V OUT** between NTSC and PAL.

### 1 Display the system menu.

Refer to *Introduction of menu operations* on page 44.

### 2 Touch Video Output Format on the system menu to select the video output format.

NTSC—PAL

### Note

You can switch the video output format only for the source from this unit.

## Setting the video signal

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

- As this function is initially set to **Auto**, the unit will automatically adjust the video signal setting.
- You can operate this function only for the video signal input into the AV input.

### 1 Display the system menu.

Refer to *Introduction of menu operations* on page 44.

### 2 Touch Video Signal Setting on the function menu.

**Video Signal Setting** items are displayed.

- **AV** – Adjusts the AV video signal
- **AUX** – Adjusts the AUX video signal
- **Camera** – Adjusts the rear view camera video signal

### 3 Touch ◀ or ▶ to select the desired video signal appears.

Auto—PAL—NTSC—PAL-M—PAL-N—SECAM

## Setting the Artwork Dance

When a song is played by MIXTRAX, the artwork display can be moved based on the music type.

### 1 Display the system menu.

Refer to *Introduction of menu operations* on page 44.

### 2 Touch Artwork Dance setting on the system menu to turn On or Off.

## Changing the picture adjustment

You can adjust the **Brightness** (brightness), **Contrast** (contrast), **Color** (color), **Hue** (hue), **Dimmer** (dimmer), and **Temperature** (temperature) for each source and rear view camera.

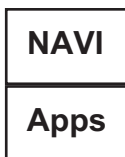
## Menu operations

- You cannot adjust **Color, Hue** and **Contrast** for the audio source.

### 1 Display the system menu.

Refer to *Introduction of menu operations* on page 44.

### 2 If you are adjusting the Picture Adjustment, select the unit.



Completing **Picture Adjustment** for the Navigation system when the RGB input setting is set to **NAVI**.

Completing **Picture Adjustment** for the Advanced App Mode when the RGB input setting is set to **iPhone**.



Adjusting the **Picture Adjustment** for the rear view camera.



Adjusting the **Picture Adjustment** for the source.

### 3 Touch any of the following touch panel keys to select the function to be adjusted.

**Picture Adjustment** items are displayed.

- Brightness** – Adjusts the black intensity
  - Contrast** – Adjusts the contrast
  - Color** – Adjusts the color saturation
  - Hue** – Adjusts the tone of color (red or green is emphasized)
  - Dimmer** – Adjusts the brightness of the display
  - Temperature** – Adjusts the color temperature, resulting in a better white balance
  - RGB Dot Adjustment** – Adjusts phase shifting by dot clock when a Navigation system is connected
- You can adjust **Hue** only when the color system is set to NTSC.
  - With some rear view cameras, picture adjustment may not be possible.

### 4 Touch ◀ or ▶ to adjust the selected item.

Each time you touch ◀ or ▶, the level of the selected item increases or decreases.

- Dimmer** can be adjusted from **+1** to **+48**.
- Temperature** can be adjusted from **+3** to **-3**.

### 5 Touch RGB Dot Adjustment to adjust.

- RGB Dot Adjustment** can be set to **1** or **2**.

#### Notes

- You cannot operate this function while driving.
- Different **Brightness/Contrast/Dimmer** settings can be set for when the illumination switch is on and when it is off.

## Auto EQ (auto-equalizing)

The auto-equalizer automatically measures the car's interior acoustic characteristics, and then creates an auto-equalizer curve based on that information.

- To perform this function, dedicated microphone (e.g. CD-MC20) is required.

### ⚠ WARNING

As a loud tone (noise) may be emitted from the speakers when measuring the car's interior acoustic characteristics, never perform auto TA or auto EQ while driving.

### ⚠ CAUTION

- Thoroughly check the conditions before performing auto EQ as the speakers may be damaged if these functions are performed when:
  - The speakers are incorrectly connected. (For example, when a rear speaker is connected as a subwoofer output.)
  - A speaker is connected to a power amp delivering output higher than the speaker's maximum input power capability.
- If the microphone is placed in an unsuitable position 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

- Carry out auto EQ in as quiet a place as possible, with the car engine and air conditioning switched off. Also cut power to car phones or portable telephones in the car, or remove them from the car before carrying out auto EQ. Sounds other than the measurement tone (surrounding sounds, engine sound, telephones ringing etc.) may prevent correct measurement of the car interior acoustic characteristics.
- Be sure to carry out auto EQ using the optional microphone. Using another microphone may prevent measurement, or result in incorrect measurement of the car interior acoustic characteristics.
- In order to perform auto EQ, the front speaker must be connected.
- When this unit is connected to a power amp with input level control, auto EQ may not be possible if the power amp's input level is set below the standard level.
- When this unit is connected to a power amp with an LPF, turn this 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 computer to be the optimum delay to give accurate results for the circumstances, so please continue to use this value.
  - The reflected sound within the car is strong and delays occur.
  - The LPF on active subwoofers or external amps delay the lower sounds.
- Auto EQ changes the audio settings as follows:
  - The fader/balance settings return to the center position. (Refer to *Using fader/balance adjustment* on page 45.)
  - The equalizer curve switches to **Flat**. (Refer to *Recalling equalizer curves* on page 45.)
  - The front, center and rear speakers will automatically be adjusted to a high pass filter setting.
- Previous settings for auto EQ will be overwritten.

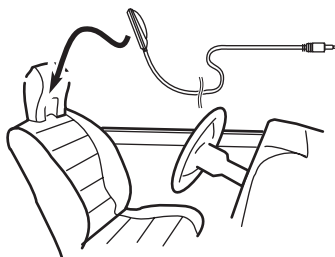
### Performing auto EQ

**1 Stop the car in a place that is quiet, 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.

**2 Fix the optional microphone in the center 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 to carry out auto EQ.



**3 Turn the ignition switch to ON or ACC.**

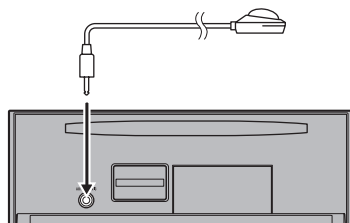
If the car's air conditioner or heater is turned on, turn it off. Noise from the fan in the air conditioner or heater may prevent correct auto EQ.

**4 Display the system menu.**

Refer to *Introduction of menu operations* on page 44.

**5 Touch Auto EQ Measurement to enter auto EQ measurement mode.**

**6 Plug the microphone into the microphone input jack on this unit.**



**7 Touch Start to start auto EQ.**

## Menu operations

### 8 When the 10-second countdown starts, get out of the car and close the door within 10 seconds.

A measurement tone (noise) is emitted from the speakers, and auto EQ measurement begins.

When auto EQ is completed, **The measurement has finished. Please disconnect the microphone and then push HOME key.** is displayed.

When the car's interior acoustic characteristics cannot be measured correctly, an error message will be displayed. (Refer to *Understanding auto EQ error messages* on page 71.)

- It takes about nine minutes for auto EQ measurement to be completed when all the speakers are connected.
- To stop auto EQ, touch **Stop**.

### 9 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, color change or malfunction.

### 10 Press ▲(eject) to close the panel.

## Favorite menu

### 1 Display menu columns to register.

Refer to *Introduction of menu operations* on page 44.

- You can customize menus except **Video Setup** menu.

### 2 Touch and hold the menu column to register it.

- To cancel registration, touch and hold the menu column again.

### 3 Display the favorite menu and choose a registered menu.

Refer to *Introduction of menu operations* on page 44.

#### Note

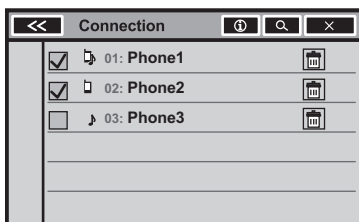
You can register up to 12 columns. 

## Introduction of Bluetooth connection menu operations

Refer to *Basic operations* on page 9.

If you are using a cellular phone that can be connected via Bluetooth wireless technology, we recommend that you use your phone to search for this unit and establish a connection between it and your phone. The PIN code is set to **0000** as default. The product name for this unit will display on your phone as the device name. For details, refer to *Entering PIN code for Bluetooth wireless connection* on page 62. For further details concerning the procedures for establishing Bluetooth wireless connections, refer to the instruction manual for the phone.

### Pairing from this unit



#### 1 Display the Bluetooth Connection Menu.


Refer to *Introduction of Bluetooth telephone operations* on page 28.

#### 2 Touch Connection to select a device.

#### 3 Start to search.



Starting to search.

While searching,  is displayed and when available devices are found, the device names or Bluetooth device addresses (if names cannot be obtained) are displayed.

- If you want to switch between the device names and Bluetooth device addresses, touch the icon.



Switching between the device names and Bluetooth device addresses.

- To cancel searching, touch **Stop**.
- If three devices are already paired, **Memory Full** is displayed and pairing cannot be performed. In such cases, delete a paired device first. Refer to this page.
- If no device can be found, **Not Found** is displayed. In such cases, check the status of the Bluetooth device and search again.

#### 4 Touch a device name to select the device you want to connect to.

While connecting, **Pairing** is displayed. If the connection is established, **Paired** is displayed.

- If your device support SSP (Secure Simple Pairing), 6-digit number appears on the display of this unit. Once the connection is established, this number disappears.
- 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. Refer to *Entering PIN code for Bluetooth wireless connection* on page 62.
- Once the connection is established, the device name is displayed. Touch the device name to disconnect.
- If you want to delete a paired Bluetooth telephone, display **Delete OK?**. Touch **Yes** to delete the device.



Deleting a paired device.

- Never turn the unit off while the paired Bluetooth telephone is being deleted.

## Menu operations

### Using a Bluetooth device to pair

If you cannot open the connection between your Bluetooth device and this unit from your Bluetooth device, you can use this function to establish a connection.

#### 1 Display the Bluetooth Connection Menu.

Refer to *Introduction of Bluetooth telephone operations* on page 28.

#### 2 Touch Special Device to select the special device.

- Bluetooth devices that are difficult to establish a connection with are called special devices. If your Bluetooth device is listed as a special device, select the appropriate one.

#### 3 Touch the special device list to open the connection.

This unit is now on standby for a connection with the Bluetooth device.

- If three devices are already paired,

**Memory Full** is displayed and pairing cannot be performed. In such cases, delete a paired device first. Refer to the previous page.

#### 4 Use your Bluetooth device to establish a connection.

The connection method is different depending on the Bluetooth device. Refer to the manual for your Bluetooth device to establish a connection.

While connecting, **Pair your phone** is displayed. If the connection is established, **Paired** is displayed.

- If the connection fails, **Error** is displayed. In such cases, try again from the beginning.
- You may also need to enter a PIN code into this unit. If your telephone requires a PIN code to establish a connection, look for the code on the telephone or in its accompanying documentation.
- The PIN code is set to **0000** as the default, but can be changed. Refer to *Entering PIN code for Bluetooth wireless connection* on the next page.

### Connecting to a Bluetooth device automatically

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

#### 1 Display the Bluetooth Connection Menu.

Refer to *Introduction of Bluetooth telephone operations* on page 28.

#### 2 Touch Auto Connect to turn automatic connection on.

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

- To turn automatic connection off, touch **Auto Connect** again.

If connection fails, "**Auto connection failed. Retry?**" appears. Touch **Yes** to reconnect.

#### 3 Once you turn your vehicle's ACC switch on again, a connection is established automatically.

### Switching visible unit

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

Initially, this function is set to on.

#### 1 Display the Bluetooth Connection Menu.

Refer to *Introduction of Bluetooth telephone operations* on page 28.

#### 2 Touch Visibility to select visibility off.

- To turn visibility on, touch **Visibility** again.

### Displaying Bluetooth Device address

This unit displays its Bluetooth device address.

### 1 Display the Bluetooth Connection Menu.

Refer to *Introduction of Bluetooth telephone operations* on page 28.

### 2 Touch Device Information to display device information.

The Bluetooth device address is displayed.

## Entering PIN code for Bluetooth wireless connection

To connect your Bluetooth device to this unit 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 Display the Bluetooth Connection Menu.

Refer to *Introduction of Bluetooth telephone operations* on page 28.

### 2 Touch PIN Code Input to select PIN Code Input.

### 3 Touch 0 to 9 to input pin code.

### 4 After inputting PIN code (up to 8 digits), store in this unit.



Storing the PIN code in this unit.



## Introduction of Theme setting menu operations

Refer to *Basic operations* on page 9.

### Selecting the illumination color

This unit is equipped with multiple-color illumination.

#### Direct selection from preset illumination colors

You can select an illumination color from the color list.

#### 1 Display the Theme menu.

Refer to *Basic operations* on page 9.

#### 2 Touch Illumination and then touch a color on the list.

#### Customizing the illumination color

#### 1 Display the Theme menu.

Refer to *Basic operations* on page 9.

#### 2 Touch Illumination and then touch Custom.

#### 3 Display the customizing menu.



Displaying the customizing menu.

#### 4 Touch the color bar to customize the color.

#### 5 Touch ◀ or ▶ to fine-tune the color.

#### 6 Touch the icon and hold to store the customized color in the memory.

**Memo**

Storing the customized color in the memory.

The customized color has been stored in the memory.

The set color will be recalled from the memory the next time you touch the same icon.

## Menu operations

### Selecting the OSD (on-screen display) color

The OSD color can be changed.

#### 1 Display the Theme menu.

Refer to *Basic operations* on page 9.

#### 2 Touch Screen.

#### 3 Touch one of the colors on the list.

### Selecting the background display


You can switch the background that is displayed when listening to a source.

#### 1 Display the Theme menu.

Refer to *Basic operations* on page 9.

#### 2 Touch Background.

#### 3 Touch the desired setting.


- If no JPEG images are stored in this unit, you cannot select photo. To store a JPEG image to this unit, refer to *Capture an image in JPEG files* on page 40.
- If you want to delete the captured JPEG image, touch and hold the key of the JPEG image.
- You can view the hidden settings by dragging/flicking the display. 

## Setting rear monitor output

The output source for the rear monitor can be switched to the following:

- **Mirror** – The source on the front screen of this unit
- **Disc** – The video and sound from the disc
- **USB/iPod 1** – The video and sound from the USB storage device
- **SD** – The video and sound from the SD card
- **AV** – The video and sound from AV input
- **Off** – No source

### Notes

- You cannot play DivX files on the rear and front monitors at the same time.
- The port that supports the rear monitor will only be USB input 1.
- **USB/iPod 1** and **SD** are compatible DivX/MPEG-4/WMV/H.264 only.
- You cannot use this function while using MIX-TRAX. If you use MIXTRAX while this function is in use, this function will turn off. 

## Adjusting the response positions of the touch panels (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. There are two adjustment methods: 4-point adjustment, in which you touch four corners of the screen; and 16-point adjustment, in which you make fine-adjustments on the entire screen.

- Park your car in a safe place and use this function. Do not operate it while driving.
- Touch the screen gently for adjustment. Forcefully pressing the touch panel may damage the touch panel. Do not use a sharp pointed tool such as a ballpoint pen or mechanical pen. Doing so may damage the screen.
- If the touch panel cannot be adjusted properly, consult your local Pioneer dealer.

### 1 Turn the unit off.

Refer to *Basic operations* on page 9.

### 2 Press and hold HOME to start Touch Panel Calibration.

The 4-point touch panel adjustment screen appears. When 2-point appears at once, touch both.

### 3 Touch each of the arrows on the four corners of the screen.

- To cancel the adjustment, press and hold **HOME**.

### 4 Press HOME to complete 4-point adjustment.

Data for the adjusted position is saved.

- Do not turn off the engine while the data is being saved.

### 5 Press HOME to proceed to 16-point adjustment.

The 16-point touch panel adjustment screen appears.

- To cancel the adjustment, press and hold **HOME**.

### 6 Gently touch the center of the + mark displayed on the screen.

After you touch all the marks, the data for the adjusted position is saved.

- Do not turn off the engine while the data is being saved.

### 7 Press and hold HOME to complete the adjustment.

## Using an AUX source

A separately sold auxiliary device such as a VCR or portable device can be connected to this unit. When connected, the auxiliary device is automatically recognized as an AUX source and is assigned to **AUX**.

## About AUX connection methods

You can connect auxiliary devices to this unit.

## Other functions

### Mini pin plug cable (AUX)

*When connecting an auxiliary device using a mini plug cable*

iPods and portable audio/video players can be connected to this unit via mini plug cable.

- If an iPod with video capabilities is connected to this unit via 3.5 mm plug (4 pole) cable (such as the CD-V150M), you can enjoy the video contents of the connected iPod.
- A portable audio/video player can be connected by using a 3.5 mm plug (4 pole) with an RCA cable (sold separately). However, depending on the cable, a reverse connection between the red (right side audio) cable and yellow (video) cable may be required in order for the sound and video image to be reproduced correctly.

- **Insert the stereo mini plug into the AUX input jack on this unit.**

For more details, refer to the installation manual.


Refer to *What's what* on page 8. 

## Additional information

### Troubleshooting

#### Common

Symptom	Cause	Action (Reference page)
The power will not turn on. The unit will not operate.	Leads and connectors are incorrectly connected.	Confirm once more that all connections are correct.
	The fuse is blown.	Rectify the cause and then replace the fuse. Be sure to install a fuse with the same rating.
	Noise and/or other factors are causing the built-in microprocessor to operate incorrectly.	Press <b>RESET</b> . (Page 13)
Operation with the remote control is not possible. The unit does not operate correctly even when the appropriate remote control buttons are pressed.	Battery power is low.	Load a new battery.
	Some operations are prohibited with certain discs.	Try operating with another disc.
Playback is not possible.	The disc is dirty.	Clean the disc.
	The type of disc loaded cannot be played on this unit.	Check the disc type.
	The disc loaded is not compatible with this video system.	Change the disc to one that is compatible with your video system.
There is no sound. The volume level will not rise.	Cables are not connected correctly.	Connect the cables correctly.
	The unit is performing still, slow motion or frame-by-frame playback.	There is no sound during still, slow motion or frame-by-frame playback.

Symptom	Cause	Action (Reference page)
There is no image displayed.	The parking brake cable is not connected.	Connect the parking brake cable, and apply the parking brake.
	The parking brake is not applied.	Connect the parking brake cable, and apply the parking brake.
The  icon is displayed, and operation is not possible.	The operation is prohibited for the disc.	This operation is not possible.
	The operation is not compatible with the configuration of the disc.	This operation is not possible.
The image displayed stops (pauses) and the unit cannot be operated.	The data could no longer be read during playback.	Stop playback once, and start playback again.
There is no sound. The volume level is low.	The volume level is low.	Adjust the volume level.
	The attenuator is on.	Turn the attenuator off.
The sound and video skip.	The unit is not firmly secured.	Firmly secure the unit.
	File size and transmission rate are above recommended rates.	Create a DivX file that is within the recommended size and transmission rate.
The aspect ratio is incorrect and the image is stretched.	The aspect ratio setting is incorrect for the display.	Select the appropriate setting for your display. (Page 49)
The motor sounds when the ignition switch is turned ON (or is turned to ACC).	The unit is confirming whether or not a disc is loaded.	This is a normal operation.

## Additional information

Symptom	Cause	Action (Reference page)
Nothing is displayed. The touch panel keys cannot be used.	The rear view camera is not connected. <b>Camera Polarity</b> is at incorrect setting.	Connect a rear view camera.  Press and hold <b>HOME</b> to return to the source display and then select the correct setting for <b>Camera Polarity</b> . (Page 56)
<b>No xxxx</b> appears when a display is changed ( <b>No Title</b> , for example).	There is no embedded text information.	Switch the display or play another track/file.
Subfolders cannot be played back.	Folder repeat play has been selected.	Select the repeat range again.
The repeat range changes automatically.	Another folder was selected during repeat play.  Track search or fast forward/reverse was performed during file repeat play.	Select the repeat range again.  Select the repeat range again.

### DVD

Symptom	Cause	Action (Reference page)
Playback is not possible.	The loaded disc has a different region number from this unit.	Replace the disc with one featuring the same region number as this unit.
A parental lock message is displayed and playback is not possible.	Parental lock is activated.	Turn parental lock off or change the level. (Page 49)
Parental lock cannot be canceled.	The code number is incorrect.  You have forgotten your code number.	Enter the correct code number. (Page 49)  Press <b>RESET</b> . (Page 13)

Symptom	Cause	Action (Reference page)
Dialog language (and subtitle language) cannot be switched.	The DVD being played does not feature multiple language recordings.  You can only switch between items indicated in the disc menu.	The language cannot be switched if they are not recorded on the disc.  Switch the language using the disc menu.
No subtitles are displayed.	The DVD being played does not feature subtitles.  You can only switch between items indicated in the disc menu.	Subtitles are not displayed if they are not recorded on the disc.  Switch the language using the disc menu.
Playback is not performed with the audio language and subtitle language settings selected in <b>Video Setup</b> menu.	The DVD being played does not feature dialog or subtitles in the selected language.	The language cannot be switched if the selected language is not recorded on the disc.
The viewing angle cannot be switched.	The DVD being played does not feature scenes shot from multiple angles.  You are trying to switch to multi-angle viewing for a scene that was not recorded from multiple angles.	The viewing angle cannot be switched if the DVD does not feature scenes recorded from multiple angles.  Switch between multiple angles when watching scenes recorded from multiple angles.

## Additional information

Symptom	Cause	Action (Reference page)
The image is extremely unclear/distorted and dark during playback.	Some discs feature a signal to prohibit copying.	Since this unit is compatible with the analog copy generation management system, when playing a disc that has a signal prohibiting copying, horizontal stripes or other imperfections may appear when viewed on some displays. This is not a malfunction.

### Video CD

Symptom	Cause	Action
The PBC (playback control) menu cannot be called up.	The Video CD being played does not feature PBC.	This operation is not available for Video CDs that do not feature PBC.
Repeat play and track/time search are not possible.	The Video CD being played features PBC.	This operation is not available for Video CDs that feature PBC.

### iPod

Symptom	Cause	Action
The iPod does not operate correctly.	The cables are incorrectly connected.	Disconnect the cable from the iPod. Once the iPod's main menu is displayed, reconnect the iPod and reset it.
	The iPod version is old.	Update the iPod version.
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.

### Bluetooth audio/telephone

Symptom	Cause	Action
The sound from the Bluetooth audio source is not played back.	There is a call in progress on a Bluetooth connected cellular phone.	The sound will be played back when the call is terminated.
	A Bluetooth connected cellular phone is currently being operated.	Do not operate the cellular phone at this time.
	A call was made with a Bluetooth connected cellular phone and then immediately terminated. As a result, communication between this unit and the cellular phone was not terminated properly.	Reconnect the Bluetooth connection between this unit and the cellular phone.



## Error messages

When you contact your dealer or your nearest Pioneer Service Center, be sure to note the error message.

### Tuner

Message	Cause	Action
<b>No Data Provided</b>	This unit cannot receive artist name/song title information.	Move to the desirable location with good reception.
<b>No Data</b>	This unit cannot receive program service name information.	Move to the desirable location with good reception.

### DVD

Message	Cause	Action
<b>Different Region Disc</b>	The disc does not have the same region number as this unit.	Replace the DVD with one bearing the correct region number.

## Additional information

Message	Cause	Action
<b>Error-02-XX/ FF-FF</b>	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 <b>RESET</b> . (Page 13)
<b>Unplayable Disc</b>	This type of disc cannot be played on this unit.	Replace the disc with one that can be played on this unit.
	The inserted disc does not contain any playable files.	Replace the disc.
<b>Protect</b>	All the files on the inserted disc are embedded with DRM.	Replace the disc.
<b>Skipped</b>	The inserted disc contains DRM protected files.	Play an audio file not embedded with Windows Media DRM 9/10.
<b>TEMP</b>	The temperature of the unit is outside the normal operating range.	Wait until the unit returns to a temperature within the normal operating limits.
<b>This DivX rental has expired.</b>	The inserted disc contains expired DivX VOD content.	Select a file that can be played.
<b>Video resolution not supported</b>	The inserted external storage device contains a high definition DivX/MPEG-1/MPEG-2/MPEG-4 file.	Select a file that can be played.
<b>It is not possible to write it in the flash.</b>	This unit's flash memory used as the temporary storage area is full.	Select a file that can be played.

Message	Cause	Action
<b>Your device is not authorized to play this DivX protected video.</b>	This unit's DivX registration code has not been authorized by the DivX VOD contents provider.	Register this unit to the DivX VOD contents provider.
<b>Unplayable File</b>	This type of file cannot be played on this unit.	Select a file that can be played.
<b>Format Read</b>	Sometimes there is a delay between the start of playback and when you start to hear any sound.	Wait until the message disappears and you hear sound.
<b>Video frame rate not supported</b>	DivX file's frame rate is more than 30 fps.	Select a file that can be played.
<b>Audio Format not supported</b>	This type of file is not supported on this unit.	Select a file that can be played.
<b>External storage device (USB, SD)</b>		
Message	Cause	Action
<b>Unplayable File</b>	This type of file cannot be played on this unit.	Select a file that can be played.
	There are no songs.	Transfer the audio files to the USB portable audio player/USB memory and connect.
	Security for the connected USB memory is enabled.	Follow the USB memory instructions to disable security.
<b>Format Read</b>	Sometimes there is a delay between the start of playback and when you start to hear any sound.	Wait until the message disappears and you hear sound.
<b>Skipped</b>	The connected USB portable audio player/USB memory contains WMA files that are protected by Windows Media™ DRM 9/10.	Play an audio file not embedded with Windows Media DRM 9/10.

## Additional information

Message	Cause	Action
<b>Protect</b>	All the files on the connected USB portable audio player/USB memory are protected by Windows Media DRM 9/10.	Transfer audio files not protected by Windows Media DRM 9/10 to the USB portable audio player/USB memory and connect.
<b>Incompatible USB</b>	The USB device connected to is not supported by this unit.	Connect a USB portable audio player or USB memory that is USB Mass Storage Class compliant.
	The USB device is not formatted with FAT12, FAT16 or FAT32.	The connected USB device should be formatted with FAT12, FAT16 or FAT32.
<b>Incompatible SD</b>	Unsupported SD card is inserted.	Use the supported SD card.
	Non-compatible SD storage device	Remove your device and replace it with a compatible SD storage device.
	The SD device is not formatted with FAT12, FAT16 or FAT32.	The connected SD device should be formatted with FAT12, FAT16 or FAT32.
<b>Check USB</b>	The USB connector or USB cable has short-circuited.	Check that the USB connector or USB cable is not caught in something or damaged.
	The connected USB portable audio player/USB memory consumes more than maximum allowable current.	Disconnect the USB portable audio player/USB memory and do not use it. Turn the ignition switch to OFF, then to ACC or ON and then connect a compliant USB portable audio player/USB memory.

Message	Cause	Action
<b>Error-02-9X/-DX</b>	Communication failed.	Perform one of the following operations. –Turn the ignition switch OFF and back ON. –Disconnect the USB portable audio player/USB memory. –Change to a different source. Then, return to the USB portable audio player/USB memory.
<b>This DivX rental has expired.</b>	The inserted external storage device contains expired DivX VOD content.	Select a file that can be played.
<b>Video resolution not supported</b>	The inserted external storage device contains a high definition DivX/MPEG-1/MPEG-2/MPEG-4 file.	Select a file that can be played.
<b>It is not possible to write it in the flash.</b>	This unit's flash memory used as the temporary storage area is full.	Select a file that can be played.
<b>Your device is not authorized to play this DivX protected video.</b>	This unit's DivX registration code has not been authorized by the DivX VOD contents provider.	Register this unit to the DivX VOD contents provider.
<b>Format Read</b>	Sometimes there is a delay between the start of playback and when you start to hear any sound.	Wait until the message disappears and you hear sound.
<b>Video frame rate not supported</b>	DivX file's frame rate is more than 30 fps.	Select a file that can be played.
<b>Audio Format not supported</b>	This type of file is not supported on this unit.	Select a file that can be played.

## Additional information

### iPod

Message	Cause	Action
<b>Format Read</b>	Sometimes there is a delay between the start of playback and when you start to hear any sound.	Wait until the message disappears and you hear sound.
<b>Error-02-6X/-9X/-DX</b>	Communication failed.	Disconnect the cable from the iPod. Once the iPod's main menu is displayed, reconnect the iPod and reset it.
	iPod failure.	Disconnect the cable from the iPod. Once the iPod's main menu is displayed, reconnect the iPod and reset it.
<b>Error-02-67</b>	The iPod firmware version is old.	Update the iPod version.
<b>Stop</b>	There are no songs.	Transfer songs to the iPod.
	There are no songs in the current list.	Select a list that contains songs.
<b>Not Found</b>	No related songs.	Transfer songs to the iPod.

### iTunes tagging

Message	Cause	Action
<b>iPod full. Tags not transferred.</b>	Memory used for tag information on the iPod is full.	Sync the iPod with iTunes and clean up the tagged playlist.
<b>Memory full. Tags not stored. Connect iPod.</b>	This unit's flash memory used as the temporary storage area is full.	Connect the iPod to this unit and transfer this unit's tag information to the iPod.
<b>Tag transfer failed. Reconnect your iPod.</b>	This unit's tag information cannot transfer to the iPod.	Check the iPod and try again.
<b>Tag store failed.</b>	Tag information cannot be stored in this unit.	Try again.

Message	Cause	Action
<b>Error-8D</b>	Built-in FLASH ROM encountered an error	Turn the ignition OFF or ON.

### Bluetooth

Message	Cause	Action
<b>Error-10</b>	The power failed for the Bluetooth module of this unit.	Turn the ignition switch OFF and then to ACC or ON. If the error message is still displayed after performing the above action, please contact your dealer or an authorized Pioneer Service Station.

## Understanding auto EQ error messages

When correct measurement of the car's interior acoustic characteristics is not possible using auto EQ, an error message may appear on the display. In such cases, refer to the table below to see what the problem is and how it may be corrected. After checking, try again.

Message	Cause	Action
<b>Please connect the microphone for measurement. When finished, please push HOME key.</b>	The microphone is not connected.	Plug the optional microphone securely into the jack.

## Additional information

Message	Cause	Action
<b>Error. Please check xxxx speaker.</b>	The microphone cannot pick up the measuring tone of a speaker.	<ul style="list-style-type: none"> <li>• Confirm that the speakers are connected correctly.</li> <li>• Correct the input level setting of the power amp connected to the speakers.</li> <li>• Plug the microphone securely into the jack.</li> </ul>
<b>Error. Please check noise.</b>	The surrounding noise level is too high.	<ul style="list-style-type: none"> <li>• Stop your car in a place that is quiet, and switch off the engine, air conditioner and heater.</li> <li>• Set the microphone correctly.</li> </ul>
<b>Error. Please check battery.</b>	Power is not being supplied from the battery to this unit.	<ul style="list-style-type: none"> <li>• Connect the battery correctly.</li> <li>• Check the battery voltage.</li> </ul>

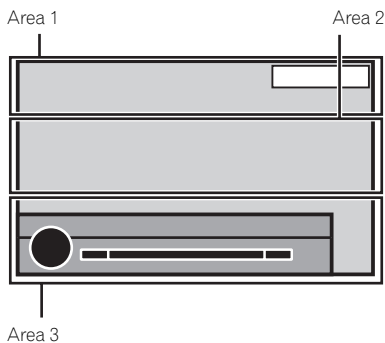


## Understanding messages

Messages	Translation
Screen image may appear reversed.	<b>Pioneer recommends the use of a camera which outputs mirror-reversed images. Otherwise, the screen image will appear reversed.</b>



## Indicator list



















### Area 1

	<b>Vol.</b>	Indicates that the volume is adjusted.
	<b>MUTE</b>	Indicates that the mute function is on.
	<b>ATT</b>	Indicates that the sound is attenuated.








### Area 2

		Shows when radio signal is received.
	<b>STEREO</b>	Indicates that the selected frequency is being broadcast in stereo.
	<b>TAG</b>	Shows when downloadable song information (tag) from a radio station is received.
		Shows when song information (tag) from a radio station is being saved to this unit.
	<b>Dolby D</b>	Indicates that the digital format is Dolby Digital.









## Additional information

<b>MPEG-A</b>	Indicates that the digital format is MPEG Audio.		Indicates that the connected Bluetooth device only supports Bluetooth telephone.
<b>LPCM</b>	Indicates that the digital format is Linear PCM.		Indicates that the connected Bluetooth device only supports Bluetooth audio.
<b>48k16</b>	Indicates the sampling frequency.		Show the album title when receiving the tag information. Shows the album title of the song currently being played for MP3/WMA/AAC files.
<b>DTS</b>	Indicates that the digital format is DTS.		Shows the song title when receiving the tag information. Shows the song title of the song currently being played for MP3/WMA/AAC files.
<b>1 ch</b>	Indicates the audio channel.		Shows the comment currently being played.
<b>1+1ch</b>			Shows the station name currently tuned in to.
<b>2 ch</b>			Shows the artist name when receiving the tag information. Shows the artist name of the artist currently being played for MP3/WMA/AAC files.
<b>Multi ch</b>			Shows cellular phone information.
<b>PBC On</b>			Shows general phone information.
	<ul style="list-style-type: none"> <li>Indicates that a cellular phone is connected.</li> <li>Indicates that an incoming call has been received and has not been checked yet.</li> </ul>		Shows home phone information.
	<p>Indicates the battery strength of the cellular phone.</p> <ul style="list-style-type: none"> <li>The level shown on the indicator may differ from the actual battery strength.</li> <li>If the battery strength is not available, nothing is displayed in the battery strength indicator area.</li> </ul>		Shows office phone information.
	Indicates that the connected Bluetooth device supports both Bluetooth telephone and Bluetooth audio.		Shows other phone information.
			Shows the folder name of the folder containing the MP3/WMA/AAC file currently being played.

## Additional information

	Shows the file name of the MP3/WMA/AAC file currently being played.		Indicates that TA (traffic announcement standby) is on.
	Shows the preset number of the station currently being tuned in to.		Indicates that the news program interruption is on.
	Shows the title number currently being played.		
	Shows the chapter number currently being played.		
	Shows the genre of the track/song currently being played.		

### Area 3

	Touch to turn BSM on.
	Indicates that Auto EQ is on.
	Shows when this unit has the song information (tag).
	Shows while searching a song/video in alphabet search mode. Shows when song information (tag) is being saved to your iPod.
	Shows when creating the database in Music browse mode.
	Shows when saving the database in Music browse mode.
	Indicates the signal strength of the cellular phone.
	Indicates that a Bluetooth telephone is connected.

## Additional information

### Handling guidelines

#### Discs and player

Use only discs featuring any of following logos.



Use 12-cm discs. Do not use 8-cm discs or an adapter for 8-cm discs.

Use only conventional, fully circular discs. Do not use shaped discs.



Do not insert anything other than a DVD-R/RW or CD-R/RW into the disc loading slot.

Do not use cracked, chipped, warped, or otherwise damaged discs as they may damage the player.

Unfinalized CD-R/RW discs cannot be played back.

Do not touch the recorded surface of the discs.

Store discs in their cases when not in use.

Do not attach labels, write on or apply chemicals to the surface of the discs.

To clean a disc, wipe the disc with a soft cloth outward from the center.

Condensation may temporarily impair the player's performance. Let it rest for about one hour to adjust to a warmer temperature. Also, wipe any damp discs off with a soft cloth.

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.

Certain functions may not be available for some DVD video discs.

It may not be possible to play back some DVD video discs.

It is not possible to play back DVD-RAM discs.

This unit is not compatible with discs recorded in AVCHD (Advanced Video Codec High Definition) format. Do not insert AVCHD discs as you may not be able to eject the disc.

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 commercially available labels or other materials to the discs.

- The discs may warp making the disc unplayable.
- The labels may come off during playback and prevent ejection of the discs, which may result in damage to the equipment.

#### External storage device (USB, SD)

Depending on the external storage device (USB, SD), the following problems may occur.

- Operations may vary.
- The storage device may not be recognized.
- Files may not be played back properly.

#### USB storage device

Connections via USB hub are not supported.

Do not connect anything other than a USB storage device.

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.

Depending on the USB storage device, the device may cause noise to occur in the radio.

Copyright protected files that are stored in the USB devices cannot be played back.

You cannot connect a USB portable audio player/USB memory to this unit via USB hub.

Partitioned USB memory is not compatible with this unit.

## Additional information

Depending on the kind of USB portable audio player/USB memory you use, the device may not be recognized or audio files may not be played back properly.

Do not leave the USB portable audio player/USB memory in direct sunlight for extended amounts of time. Doing so may cause the device to malfunction from the extreme rise in temperature.

### SD memory card

This unit supports only the following types of SD memory cards.

- SD
- SDHC

Keep the SD memory card out of the reach of children. Should the SD memory card be swallowed, consult a doctor immediately.

Do not touch the connectors of the SD memory card directly with your fingers or with any metal device.

Do not insert anything other than an SD memory card into the SD card slot. If a metal object (such as a coin) is inserted into the slot, the internal circuits may break and cause malfunctions.

Do not insert a damaged SD memory card (e.g. warped, label peeled off) as it may not be ejected from the slot.

Do not try to force an SD memory card into the SD card slot as the card or this unit may be damaged.

When ejecting an SD memory card, press it and hold it until it clicks. It is dangerous for you to release your finger immediately after you press on the card as the card may shoot out of the slot and hit you in the face, etc. If the card shoots out of the slot, it may become lost.

### iPod

To ensure proper operation, connect the dock connector cable from the iPod directly to this unit.

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.

About iPod settings

- When an iPod is connected, this unit changes the EQ (equalizer) setting of the iPod to off in order to optimize the acoustics. When you disconnect the iPod, the EQ returns to the original setting.
- You cannot set Repeat to off on the iPod when using this unit. Repeat is automatically changed to All when the iPod is connected to this unit.

Incompatible text saved on the iPod will not be displayed by the unit.

### DVD-R/RW discs

Unfinalized DVD-R/RW discs which have been recorded in the Video format (video mode) cannot be played back.

Playback of DVD-R/RW discs may not be possible, due to disc characteristics, scratches or dirt on the disc, or dirt, condensation, etc. on the lens of this unit.

Depending on the application settings and the environment, playback of discs recorded on a personal computer may not be possible. (For details, contact the manufacturer of the application.)

### CD-R/RW discs

When CD-R/RW discs are used, playback is possible only for discs which have been finalized.

Playback of CD-R/RW discs recorded on a music CD recorder or a personal computer may not be possible due to disc characteristics, scratches or dirt on the disc, or dirt, condensation, etc., on the lens of this unit.

Depending on the application settings and the environment, playback of discs recorded on a personal computer may not be possible. (For details, contact the manufacturer of the application.)

Playback of CD-R/RW discs may become impossible in case of direct exposure to sunlight, high temperatures, or the storage conditions in the vehicle.

Titles and other text information recorded on a CD-R/RW disc may not be displayed by this unit (in the case of audio data (CD-DA)).

### DualDiscs

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 unit. 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 unit.

## Additional information

Frequent loading and ejecting of a DualDisc may result in scratches on the disc. Serious scratches can lead to playback problems on this unit. 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 unit. Please refer to the information from the disc manufacturer for more detailed information about DualDiscs.

### JPEG picture files

JPEG is short for Joint Photographic Experts Group and refers to a still image compression technology standard.

Files are compatible with Baseline JPEG and EXIF 2.1 still images up to a resolution of 4 092 × 4 092. (EXIF format is used most commonly with digital still cameras.)

Playback of EXIF format files that were processed by a personal computer may not be possible.

There is no progressive JPEG compatibility.

### DivX video files

Depending on the composition of the file information, such as the number of audio streams or file size, there may be a slight delay when playing back discs.

Some special operations may be prohibited due to the composition of the DivX files.

Only DivX files downloaded from a DivX partner site are guaranteed for proper operation. Unauthorized DivX files may not operate properly.

DRM rental files cannot be operated until playback is started.

Recommended file size: 2 GB or less with a transmission rate of 2 Mbps or less.


The ID code of this unit must be registered to a DivX VOD provider in order to playback DivX VOD files. For information on ID codes, refer to *Displaying the DivX® VOD registration code* on page 51.

For more details about DivX, visit the following site: <http://www.divx.com/>

### MPEG-1/MPEG-2/MPEG-4 video files

Elapsed playback time may not be displayed correctly.

### Important

- When naming a JPEG image file, add the corresponding file name extension (.jpg, .jpeg, .jpe or .jif).
- This unit plays back files with these file name extensions (.jpg, .jpeg, .jpe or .jif) as a JPEG image file. To prevent malfunctions, do not use these extensions for files other than JPEG image files. 

## Compressed audio compatibility (disc, USB, SD)

### WMA

File extension: .wma

Bit rate: 5 kbps to 320 kbps (CBR), VBR

Sampling frequency: 8 kHz to 48 kHz

Windows Media Audio Professional, Lossless, Voice/DRM Stream/Stream with video: Not compatible

### MP3

File extension: .mp3

Bit rate: 8 kbps to 320 kbps (CBR), VBR

Sampling frequency: 8 kHz to 48 kHz (32 kHz, 44.1 kHz, 48 kHz for emphasis)

Compatible ID3 tag version: 1.0, 1.1, 2.2, 2.3 (ID3 tag Version 2.x is given priority over Version 1.x.)

M3u playlist: Not compatible

MP3i (MP3 interactive), mp3 PRO: Not compatible

### AAC

Compatible format: AAC encoded by iTunes

File extension: .m4a

Sampling frequency: 8 kHz to 44.1 kHz

Bit rate: 8 kbps to 576 kbps

Apple Lossless: Not compatible

AAC file bought from the iTunes Store (.m4p file extension): Not compatible

## Additional information

### DivX compatibility

Compatible format: DivX video format implemented in relation to DivX standards

File extensions: .avi or .divx

DivX Ultra format: Not compatible

DivX HD format: Not compatible

DivX files without video data: Not compatible

DivX plus: Not compatible

Compatible audio codec: MP2, MP3, Dolby Digital

LPCM: Compatible

Bit rate: 8 kbps to 320 kbps (CBR), VBR

Sampling frequency: 8 kHz to 48 kHz

Compatible external subtitle file extension: .srt

### MPEG-1/MPEG-2/MPEG-4 video

File extensions: .mpg or .mpeg (MPEG-1/MPEG-2), .avi (MPEG-4)

Compatible audio codec: MP2 (MPEG-1/MPEG-2), MP2, MP3, Dolby Digital (MPEG-4)

H.264 (MPEG-4AVC): Compatible

LPCM: Not compatible

Bit rate: 8 kbps to 320 kbps (CBR), VBR

Sampling frequency: 8 kHz to 48 kHz

### Supplemental information

Some characters in a file name (including the file extension) or a folder name may not be displayed.

This unit may not operate correctly depending on the application used to encode WMA files.

There may be a slight delay at the start of playback of audio files embedded with image data or audio files stored on an external storage device (USB/SD) that has numerous folder hierarchies.

### Disc

Playable folders: up to 700

Playable files: up to 999 for CD-R/RW

Playable files: up to 3 500 for DVD-R/RW

File system: ISO 9660 Level 1 and 2, Romeo, Joliet, UDF 1.02 (DVD-R/RW)

Multi-session playback: Compatible

Packet write data transfer: Not compatible

Regardless of the length of blank sections between the songs from the original recording, compressed audio discs play with a short pause between songs.

### External storage device (USB, SD)

Playable folders: up to 3 000 (up to 700 for DivX/MPEG-1/MPEG-2/MPEG-4)

Playable files: up to 15 000

Playback of copyright-protected files: Not compatible


Partitioned external storage device (USB, SD): Only the first playable partition can be played.

There is no compatibility for Multi Media Cards (MMC).

Compatibility with all SD memory cards is not guaranteed.

This unit is not compatible with SD-Audio/SD-Video.

### CAUTION

- Pioneer accepts no responsibility for data lost on the USB memory/USB portable audio player/SD memory card even if that data is lost while using this unit.
- Pioneer cannot guarantee compatibility with all USB mass storage devices and assumes no responsibility for any loss of data on media players, smart phones, or other devices while using this product.
- Do not leave the discs/external storage device (USB, SD) or iPod in places with high temperatures. 

## Additional information

### iPod compatibility

This unit supports only the following iPod models. Supported iPod software versions are shown below. Older versions may not be supported.

Made for

- iPod touch 4th generation (software version 5.0.1)
- iPod touch 3rd generation (software version 5.0.1)
- iPod touch 2nd generation (software version 4.2.1)
- iPod touch 1st generation (software version 3.1.3)
- iPod classic 160GB (software version 2.0.4)
- iPod classic 120GB (software version 2.0.1)
- iPod classic (software version 1.1.2)
- iPod with video (software version 1.3)
- iPod nano 6th generation (software version 1.2)
- iPod nano 5th generation (software version 1.0.2)
- iPod nano 4th generation (software version 1.0.4)
- iPod nano 3rd generation (software version 1.1.3)
- iPod nano 2nd generation (software version 1.1.3)
- iPod nano 1st generation (software version 1.3.1)
- iPhone 4S (software version 5.0.1)
- iPhone 4 (software version 5.0.1)
- iPhone 3GS (software version 5.0.1)
- iPhone 3G (software version 4.2.1)
- iPhone (software version 3.1.3)

Depending on the generation or version of the iPod, some functions may not be available.

Operations may vary depending on the software version of iPod.


When using an iPod, an iPod Dock Connector to USB Cable is required.

When you use Pioneer CD-IU51V/CD-IU201V interface cable, consult your dealer for details.

About the file/format compatibility, refer to the iPod manuals.

Audiobook, Podcast: Compatible

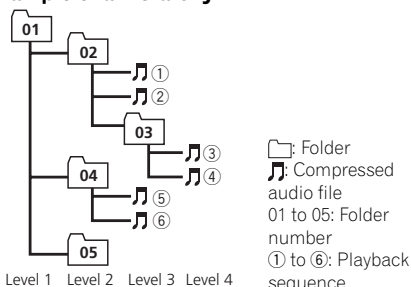
### **CAUTION**

Pioneer accepts no responsibility for data lost on the iPod, even if that data is lost while this unit is used. 

### Sequence of audio files

The user cannot assign folder numbers and specify playback sequences with this unit.

### Example of a hierarchy



### Disc

Folder selection sequence or other operation may differ depending on the encoding or writing software.


### External storage device (USB, SD)

The playback sequence is the same as the recorded sequence in the external storage device (USB, SD).

To specify the playback sequence, the following method is recommended.

- ① Create a file name that includes numbers that specify the playback sequence (e.g., 001xxx.mp3 and 099yyy.mp3).
- ② Put those files into a folder.
- ③ Save the folder that contains the files to the external storage device (USB, SD).

However, depending on the system environment, you may not be able to specify the playback sequence.

For USB portable audio players, the sequence is different and depends on the player. 

### Using the display correctly

#### **CAUTION**

- If liquid or foreign matter should get inside this unit, turn off the power immediately and consult your dealer or the nearest authorized PIONEER Service Station. Do not use the unit in this condition because doing so may result in fire, electric shock, or other failure.

## Additional information

- If you notice smoke, a strange noise or smell, or any other abnormal signs from the display, turn off the power immediately and consult your dealer or the nearest authorized PIONEER Service Station. Using this unit in this condition may result in permanent damage to the system.
- Do not disassemble or modify this unit, as there are high-voltage components inside which may cause electric shock. Be sure to consult your dealer or the nearest authorized PIONEER Service Station for internal inspection, adjustments, or repairs.

### Handling the display

- Never touch the screen with anything besides your finger when operating the touch panel function. The screen can scratch easily.
- When the display is subjected to direct sunlight for a long period of time, it will become very hot resulting in possible damage to the LCD screen. You should avoid exposing the display unit to direct sunlight as much as possible.
- The display should be used within the temperature range of  $-10^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ . At temperatures higher or lower than this operating temperature range, the display may not operate normally.
- The LCD screen is exposed in order to increase its visibility within the vehicle. Do not press it strongly on it as this may damage it.
- Do not push the LCD screen forcefully as this may scratch it.

### Liquid crystal display (LCD) screen

- Heat from the heater may damage the LCD screen, and cool air from the cooler may cause moisture to form inside the display 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.

- When using a cellular phone, keep the antenna away from the display to prevent disruption of the video image by the appearance of spots, colored stripes, etc.

### LED (light-emitting diode) backlight

- At low temperatures, using the LED backlight may increase image lag and degrade the image quality due to the characteristics of the LCD screen. Image quality will improve with an increase in temperature.
- To protect the LED backlight, the display will darken in the following environments:
  - In the direct sunlight
  - Near the heater vent
- 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 dark and the image will no longer be projected. In such cases, please consult your dealer or the nearest authorized PIONEER Service Station.


### Keeping the display in good condition

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

## Additional information

### Bluetooth profiles

In order to use Bluetooth wireless technology, devices must be able to interpret certain profiles. This unit is compatible with the following profiles.

- GAP (Generic Access Profile)
- SDP (Service Discovery Protocol)
- OPP (Object Push Profile)
- HFP (Hands Free Profile)
- HSP (Head Set Profile)
- PBAP (Phone Book Access Profile)
- A2DP (Advanced Audio Distribution Profile)
- AVRCP (Audio/Video Remote Control Profile) 1.3 

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- Bluetooth is a short-range wireless radio connectivity technology that is developed as a cable replacement for mobile phones, handheld PCs and other devices. Bluetooth operates in 2.4 GHz frequency range and transmits voice and data at speeds up to 1 megabit per second. Bluetooth was launched by a special interest group (SIG) that comprises of Ericsson Inc., Intel Corp., Nokia Corp., Toshiba and IBM in 1998, and it is currently developed by nearly 2000 companies worldwide.

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## Additional information

“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.

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**ABOUT DIVX VIDEO-ON-DEMAND:** This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in *Menu operations*. Go to [vod.divx.com](http://vod.divx.com) for more information on how to complete your registration.

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# Additional information

## Language code chart for DVD

### Language (code), input code

Japanese (ja), <b>1001</b>	Dzongkha (dz), <b>0426</b>	Kurdish (ku), <b>1121</b>	Kinyarwanda (rw), <b>1823</b>
English (en), <b>0514</b>	Ewe (ee), <b>0505</b>	Komi (kv), <b>1122</b>	Sanskrit (sa), <b>1901</b>
French (fr), <b>0618</b>	Esperanto (eo), <b>0515</b>	Cornish (kw), <b>1123</b>	Sardinian (sc), <b>1903</b>
Spanish (es), <b>0519</b>	Estonian (et), <b>0520</b>	Kirghiz, Kyrgyz (ky), <b>1125</b>	Sindhi (sd), <b>1904</b>
German (de), <b>0405</b>	Basque (eu), <b>0521</b>	Latin (la), <b>1201</b>	Northern Sami (se), <b>1905</b>
Italian (it), <b>0920</b>	Persian (fa), <b>0601</b>	Luxembourghish (lb), <b>1202</b>	Sangho (sg), <b>1907</b>
Chinese (zh), <b>2608</b>	Fulah (ff), <b>0606</b>	Ganda (lg), <b>1207</b>	Sinhala (si), <b>1909</b>
Dutch, Flemish (nl), <b>1412</b>	Finnish (fi), <b>0609</b>	Limburgan (li), <b>1209</b>	Slovak (sk), <b>1911</b>
Portuguese (pt), <b>1620</b>	Fijian (fj), <b>0610</b>	Lingala (ln), <b>1214</b>	Slovenian (sl), <b>1912</b>
Swedish (sv), <b>1922</b>	Faroese (fo), <b>0615</b>	Lao (lo), <b>1215</b>	Samoan (sm), <b>1913</b>
Russian (ru), <b>1821</b>	Western Frisian (fy), <b>0625</b>	Lithuanian (lt), <b>1220</b>	Shona (sn), <b>1914</b>
Korean (ko), <b>1115</b>	Irish (ga), <b>0701</b>	Luba-Katanga (lu), <b>1221</b>	Somali (so), <b>1915</b>
Greek (el), <b>0512</b>	Gaelic (gd), <b>0704</b>	Latvian (lv), <b>1222</b>	Albanian (sq), <b>1917</b>
Afar (aa), <b>0101</b>	Galician (gl), <b>0712</b>	Malagasy (mg), <b>1307</b>	Serbian (sr), <b>1918</b>
Abkhazian (ab), <b>0102</b>	Guarani (gn), <b>0714</b>	Marshallese (mh), <b>1308</b>	Swati (ss), <b>1919</b>
Avestan (ae), <b>0105</b>	Gujarati (gu), <b>0721</b>	Maori (mi), <b>1309</b>	Sotho, Southern (st), <b>1920</b>
Afrikaans (af), <b>0106</b>	Manx (gv), <b>0722</b>	Macedonian (mk), <b>1311</b>	Sundanese (su), <b>1921</b>
Akan (ak), <b>0111</b>	Hausa (ha), <b>0801</b>	Malayalam (ml), <b>1312</b>	Swahili (sw), <b>1923</b>
Amharic (am), <b>0113</b>	Hebrew (he), <b>0805</b>	Mongolian (mn), <b>1314</b>	Tamil (ta), <b>2001</b>
Aragonese (an), <b>0114</b>	Hindi (hi), <b>0809</b>	Marathi (mr), <b>1318</b>	Telugu (te), <b>2005</b>
Arabic (ar), <b>0118</b>	Hiri Motu (ho), <b>0815</b>	Malay (ms), <b>1319</b>	Tajik (tg), <b>2007</b>
Assamese (as), <b>0119</b>	Croatian (hr), <b>0818</b>	Maltese (mt), <b>1320</b>	Thai (th), <b>2008</b>
Avaric (av), <b>0122</b>	Haitian (ht), <b>0820</b>	Burmese (my), <b>1325</b>	Tigrinya (ti), <b>2009</b>
Aymara (ay), <b>0125</b>	Hungarian (hu), <b>0821</b>	Nauru (na), <b>1401</b>	Turkmen (tk), <b>2011</b>
Azerbaijani (az), <b>0126</b>	Armenian (hy), <b>0825</b>	Bokmal (nb), <b>1402</b>	Tagalog (tl), <b>2012</b>
Bashkir (ba), <b>0201</b>	Herero (hz), <b>0826</b>	Ndebele, North (nd), <b>1404</b>	Tswana (tn), <b>2014</b>
Belarusian (be), <b>0205</b>	Interlingua (ia), <b>0901</b>	Nepali (ne), <b>1405</b>	Tonga (to), <b>2015</b>
Bulgarian (bg), <b>0207</b>	Indonesian (id), <b>0904</b>	Ndonga (ng), <b>1407</b>	Turkish (tr), <b>2018</b>
Bihari (bh), <b>0208</b>	Interlingue (ie), <b>0905</b>	Nynorsk (nn), <b>1414</b>	Tsonga (ts), <b>2019</b>
Bislama (bi), <b>0209</b>	Igbo (ig), <b>0907</b>	Norwegian (no), <b>1415</b>	Tatar (tt), <b>2020</b>
Bambara (bm), <b>0213</b>	Sichuan Yi (ii), <b>0909</b>	Ndebele, South (nr), <b>1418</b>	Twi (tw), <b>2023</b>
Bengali (bn), <b>0214</b>	Inupiaq (ik), <b>0911</b>	Navajo, Navaho (nv), <b>1422</b>	Tahitian (ty), <b>2025</b>
Tibetan (bo), <b>0215</b>	Ido (io), <b>0915</b>	Chichewa (ny), <b>1425</b>	Uighur, Uygur (ug), <b>2107</b>
Breton (br), <b>0218</b>	Icelandic (is), <b>0919</b>	Occitan (oc), <b>1503</b>	Ukrainian (uk), <b>2111</b>
Bosnian (bs), <b>0219</b>	Inuktitut (iu), <b>0921</b>	Ojibwa (oj), <b>1510</b>	Urdu (ur), <b>2118</b>
Catalan (ca), <b>0301</b>	Javanese (jv), <b>1022</b>	Oromo (om), <b>1513</b>	Uzbek (uz), <b>2126</b>
Chechen (ce), <b>0305</b>	Georgian (ka), <b>1101</b>	Oriya (or), <b>1518</b>	Venda (ve), <b>2205</b>
Chamorro (ch), <b>0308</b>	Kongo (kg), <b>1107</b>	Ossetian (os), <b>1519</b>	Vietnamese (vi), <b>2209</b>
Corsican (co), <b>0315</b>	Kikuyu, Gikuyu (ki), <b>1109</b>	Panjabi, Punjabi (pa), <b>1601</b>	Volapük (vo), <b>2215</b>
Cree (cr), <b>0318</b>	Kuanyama (kj), <b>1110</b>	Pali (pi), <b>1609</b>	Walloon (wa), <b>2301</b>
Czech (cs), <b>0319</b>	Kazakh (kk), <b>1111</b>	Polish (pl), <b>1612</b>	Wolof (wo), <b>2315</b>
Church Slavonic (cu), <b>0321</b>	Kalaallisut (kl), <b>1112</b>	Pashto, Pushto (ps), <b>1619</b>	Xhosa (xh), <b>2408</b>
Chuvash (cv), <b>0322</b>	Central Khmer (km), <b>1113</b>	Quechua (qu), <b>1721</b>	Yiddish (yi), <b>2509</b>
Welsh (cy), <b>0325</b>	Kannada (kn), <b>1114</b>	Romansh (rm), <b>1813</b>	Yoruba (yo), <b>2515</b>
Danish (da), <b>0401</b>	Kanuri (kr), <b>1118</b>	Rundi (rn), <b>1814</b>	Zhuang, Chuang (za), <b>2601</b>
Divehi (dv), <b>0422</b>	Kashmiri (ks), <b>1119</b>	Romanian (ro), <b>1815</b>	Zulu (zu), <b>2621</b>



# Additional information

## Specifications

### General

Rated power source .....	14.4 V DC (allowable voltage range: 10.8 V to 15.1 V DC)
Grounding 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 × 29 mm
D	
Chassis .....	178 mm × 100 mm × 165 mm
Nose .....	171 mm × 97 mm × 21 mm
Weight .....	2.1 kg

### Display

Screen size/aspect ratio .....	6.95 inch wide/16:9 (effective display area: 156.6 mm × 81.6 mm)
Pixels .....	3 072 000 (2 400 × 480)
Display method .....	TFT active matrix, driving type
Color system .....	NTSC/PAL/PAL-M/PAL-N/ SECAM compatible
Durable temperature range (power off) .....	-20 °C to +80 °C

### Audio

Maximum power output .....	50 W × 4 70 W × 1/2 Ω (for subwoofer)
Continuous power output ...	22 W × 4 (50 Hz to 15 000 Hz, 5% THD, 4 Ω load, both channels driven)
Load impedance .....	4 Ω (4 Ω to 8 Ω (2 Ω for 1 ch) allowable)
Preout maximum output level .....	4.0 V
Equalizer (8-Band Graphic Equalizer):	
Frequency .....	40 Hz/80 Hz/200 Hz/400 Hz/ 1 kHz/2.5 kHz/8 kHz/10 kHz
Gain .....	±12 dB
HPF:	
Frequency .....	50 Hz/63 Hz/80 Hz/100 Hz/ 125 Hz
Slope .....	-12 dB/oct

Subwoofer (mono):	
Frequency .....	50 Hz/63 Hz/80 Hz/100 Hz/ 125 Hz
Slope .....	-18 dB/oct
Gain .....	+6 dB to -24 dB
Phase .....	Normal/Reverse
Bass boost:	
Gain .....	+12 dB to 0 dB

### DVD Player

System .....	DVD video, Video CD, CD, WMA, MP3, AAC, DivX, JPEG, MPEG system
Usable discs .....	DVD video, Video CD, CD, CD-R/RW, DVD-R/RW/R DL
Region number .....	2
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/75 Ω (±0.2 V)
Number of channels .....	2 (stereo)
MP3 decoding format .....	MPEG-1 & 2 Audio Layer 3
WMA decoding format .....	Ver. 7, 7.1, 8, 9, 10, 11, 12 (2 ch audio) (Windows Media Player)
AAC decoding format .....	MPEG-4 AAC (iTunes en- coded only) (.m4a) (Ver. 9.0.3 and earlier)
DivX decoding format .....	Home Theater Ver. 3, 4, 5, 2, 6 (.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 specification .....	USB 1.1, USB 2.0 high speed
Maximum current supply ...	1.0 A
USB Class .....	MSC (Mass Storage Class) iPod (Audio Class, HID Class)
File system .....	FAT12, FAT16, FAT32
MP3 decoding format .....	MPEG-1 & 2 Audio Layer 3, MPEG-2.5 Audio
WMA decoding format .....	Ver. 7, 7.1, 8, 9, 10, 11, 12 (2 ch audio) (Windows Media Player)

# Additional information

AAC decoding format ..... MPEG-4 AAC (iTunes encoded only)  
(Ver. 9.0.3 and earlier)

## WAVE

WAVE signal format .... Linear PCM, MS ADPCM  
(.wav)  
Sampling Frequency ... Linear  
PCM:16,22,05,24,32,44,1.48  
[kHz]  
MS ADPCM:22.05/44.1[kHz]

## DivX

DivX decoding format  
..... Home Theater Ver. 4.xx, 5.xx,  
6.xx (Ultra & HD are excluded) (.avi, .divx)  
Max Bit Rate ..... 8000kbps  
Max Frame Rate ..... 30fps(In case of resolution  
720×480. MAX 25fps in  
case of 720×576)  
Audio Codec ..... MP2,MP3,Linear PCM /  
MSAD PCM,AC-3  
Decode Size ..... MAX:720(H) × 480(W), MIN:  
48(H) × 48(W)

## H.264

H.264 decoding format  
..... Base Line Profile (.mp4)  
Max Bit Rate ..... 8000kbps  
Max Frame Rate ..... 30fps  
Audio Codec ..... AAC  
Decode Size ..... MAX:720(H) × 1280(W),  
MIN:48(H) × 48(W)

## WMV

WMV decoding format  
..... Main Profile (.wmv)  
Max Bit Rate ..... 8000kbps  
Max Frame Rate ..... 30fps  
Audio Codec ..... WMA  
Decode Size ..... MAX:720(H) × 1280(W),  
MIN:48(H) × 48(W)

## MPEG-4

MPEG-4 video decoding format  
..... Simple Profile L0/L1/L2/L3,  
Advanced Simple Profile  
(.mp4)  
Max Bit Rate ..... 8000kbps  
Max Frame Rate ..... 30fps  
Audio Codec ..... AAC  
Decode Size ..... MAX:720(H) × 1280(W),  
MIN:48(H) × 48(W)

## JPEG

JPEG decoding format  
..... Base Line (.jpeg, .jpg, .jpe,  
.jfif)  
Pixel Sampling ..... 4:2:2, 4:2:0  
Decode Size ..... MAX:4092(H) × 4092(W),  
MIN:16(H) × 16(W)  
Max File Size ..... 8MByte

## SD

Compatible physical format  
..... Version 1.1  
File system ..... FAT12, FAT16, FAT32  
MP3 decoding format ..... MPEG-1 & 2 Audio Layer 3,  
MPEG-2.5 Audio  
WMA decoding format ..... Ver. 7, 7.1, 8, 9, 10, 11, 12  
(2 ch audio)  
(Windows Media Player)  
AAC decoding format ..... MPEG-4 AAC (iTunes encoded only)  
(Ver. 9.0.3 and earlier)

## WAVE

WAVE signal format .... Linear PCM, MS ADPCM  
(.wav)  
Sampling Frequency ... Linear  
PCM:16,22,05,24,32,44,1.48  
[kHz]  
MS ADPCM:22.05/44.1[kHz]

## DivX

DivX decoding format  
..... Home Theater Ver. 4.xx, 5.xx,  
6.xx (Ultra & HD are excluded) (.avi, .divx)  
Max Bit Rate ..... 8000kbps  
Max Frame Rate ..... 30fps(In case of resolution  
720×480. MAX 25fps in  
case of 720×576)  
Audio Codec ..... MP2,MP3,Linear PCM /  
MSAD PCM,AC-3  
Decode Size ..... MAX:720(H) × 480(W), MIN:  
48(H) × 48(W)

## H.264

H.264 decoding format  
..... Base Line Profile (.mp4)  
Max Bit Rate ..... 8000kbps  
Max Frame Rate ..... 30fps  
Audio Codec ..... AAC  
Decode Size ..... MAX:720(H) × 1280(W),  
MIN:48(H) × 48(W)

## Additional information

### WMV

WMV decoding format	..... Main Profile (.wmv)
Max Bit Rate	..... 8000kbps
Max Frame Rate	..... 30fps
Audio Codec	..... WMA
Decode Size	..... MAX:720(H) x 1280(W), MIN:48(H) x 48(W)

### MPEG-4

MPEG-4 video decoding format	..... Simple Profile L0/L1/L2/L3, Advanced Simple Profile (.mp4)
Max Bit Rate	..... 8000kbps
Max Frame Rate	..... 30fps
Audio Codec	..... AAC
Decode Size	..... MAX:720(H) x 1280(W), MIN:48(H) x 48(W)

### JPEG

JPEG decoding format	..... Base Line (.jpeg, .jpg, .jpe, .jiff)
Pixel Sampling	..... 4:2:2, 4:2:0
Decode Size	..... MAX:4092(H) x 4092(W), MIN:16(H) x 16(W)
Max File Size	..... 8MByte

### FM tuner

Frequency range	..... 87.5 MHz to 108.0 MHz
Usable sensitivity	..... 9 dBf (0.8 $\mu$ V/75 $\Omega$ 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 $\mu$ 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 $\mu$ V (S/N: 20 dB)
Signal-to-noise ratio	..... 62 dB (IEC-A network)

### Bluetooth

Version	..... Bluetooth 3.0 certified
Output power	..... +4 dBm Maximum (Power class 2)



### Note

Specifications and the design are subject to modifications without notice. 

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