

# *Pioneer*

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## Operation Manual

DVD RECEIVER

# DVH-3250UB

**SUPER**  **TUNER III D**

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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.  
*Please keep the manual in a safe and accessible place for future reference.*



### Be sure to read this

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## To ensure safe driving




### WARNING

- To avoid the risk of accident and the potential violation of applicable laws, the front DVD or TV (sold separately) feature should never be used 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 DVD features should not be used.
- **NEVER** install the display in a location that enables the driver to watch the DVD or Video CD while driving.

When you park your car in a safe place and apply the parking brake, the picture appears on the screen. 

## In case of trouble

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

## About this unit



### 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.
- "CLASS 1 LASER PRODUCT"  
This product is a class 1 laser product classified under the Safety of laser products, IEC 60825-1:2007, but this product contains a laser diode higher than Class 1. 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.

- 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.


### CAUTION:

**USE OF CONTROL OR ADJUSTMENT OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.**

### CAUTION:

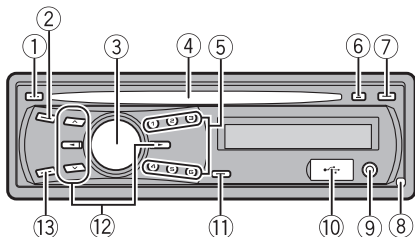
**THE USE OF OPTICAL INSTRUMENTS WITH THIS PRODUCT WILL INCREASE EYE HAZARD.**

## 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 39). 

# Operating this unit

## Head unit



Part	Part
① <b>DISP/↔/SCRL</b>	⑧ Detach button
② <b>SRC/OFF</b>	⑨ AUX input jack (3.5 mm stereo jack)
③ <b>MULTI-CONTROL (M.C.)</b>	⑩ USB port
④ Disc loading slot	⑪ 🔍 (list)
<b>1 to 6</b> <ul style="list-style-type: none"> <li>• 1/S.Rtrv/DVD MENU</li> <li>• 2/PAUSE</li> </ul>	
⑤	<ul style="list-style-type: none"> <li>• 3/BOOKMARK</li> <li>• 4/AUDIO</li> <li>• 5/↔/SUB TITLE</li> <li>• 6/↔/ANGLE</li> </ul>
⑥ ▲ (eject)	⑬ <b>BAND/ESC</b>
⑦ <b>CLOCK</b>	

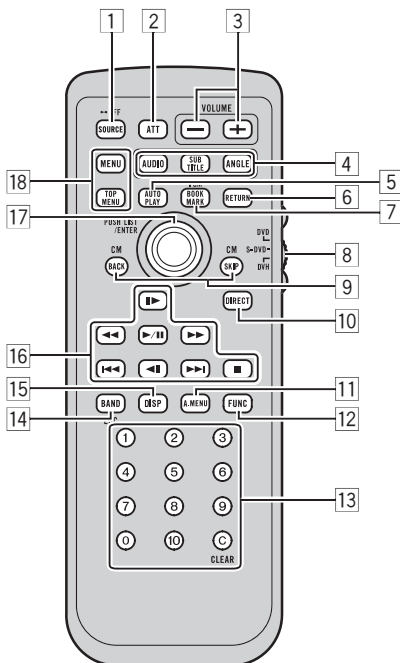
### ⚠ CAUTION

Use an optional Pioneer USB cable (CD-U50E) to connect the USB audio player/USB memory as any device connected directly to the unit will protrude out from the unit and may be dangerous. Do not use unauthorized products.

### 📝 Note

The function of **DISP/↔/SCRL** is different depending on the setting of the display connection (refer to **V.OUT (display connection)** on page 27). □

## Remote control



	Button names	DVH mode	DVD and S-DVD mode
1	<b>SOURCE</b>	Press to cycle through all the available sources. Press and hold to turn the source off.	
2	<b>ATT</b>	Press to quickly lower the volume level by about 90%. Press once more to return to the original volume level.	
3	<b>VOLUME</b>	Press to increase or decrease volume.	
4	<b>AUDIO</b>	Press to change the audio language/audio system during DVD playback.	
	<b>SUBTITLE</b>	Press to change the subtitle language during DVD playback.	
	<b>ANGLE</b>	Press to change the viewing angle during DVD playback.	
5	<b>AUTO PLAY</b>	Press to turn the DVD auto-playback function on or off.	
6	<b>RETURN</b>	Press to display the PBC (playback control) menu during PBC playback.	
7	<b>BOOKMARK</b>	Press to operate the preprogrammed functions for each source. (Refer to <i>Using the PGM button</i> on page 28.)	Press to turn the bookmark function on or off. For details, refer to <i>Resume playback (Bookmark)</i> on page 15.
8	Remote control operation mode switch	Switch the operation mode between <b>DVD</b> , <b>S-DVD</b> and <b>DVH</b> modes. Normally, set to <b>DVH</b> . For details, refer to <i>Using the remote control operation mode switch</i> on the next page.	
9	<b>CM BACK/CM SKIP</b>	Press to skip progressively backward/forward through the video playing.	

## Operating this unit

	Button names	DVH mode	DVD and S-DVD mode
10	<b>DIRECT</b>	Press to select channels directly.	Not used.
11	<b>A.MENU</b>	Press to select various sound quality controls.	
12	<b>FUNC</b>	Press to select functions.	
13	<b>0 to 10, CLEAR</b>	Press <b>0</b> to <b>9</b> to input numbers. Buttons <b>1</b> to <b>6</b> can operate the preset tuning for the tuner. Press <b>CLEAR</b> to clear the input numbers.	Press to select a menu item on a video CD featuring PBC (playback control).
14	<b>BAND</b>	Press to select among three FM bands and one AM band and to cancel control modes of functions.	Press to switch between media file types. (Refer to <i>Switching the media file type</i> on page 12.)
15	<b>DISP</b>	Press to turn the information display on or off when the video is displayed. Depending on the selected source, pressing this button can switch the display indication.	
16	<b>PLAY/PAUSE (▶/II)</b>	Press to switch sequentially between playback and pause.	
	<b>REVERSE (◀◀)</b>	Press to perform fast reverse.	
	<b>FORWARD (▶▶)</b>	Press to perform fast forward.	
	<b>PREVIOUS (I◀◀)</b>	Press to return to the previous track (chapter).	
	<b>NEXT (▶▶I)</b>	Press to go to the next track (chapter).	
	<b>STEP (II▶/◀II)</b>	Press to move ahead one frame at a time during DVD/VideoCD playback. Press and hold for one second to activate slow playback. If a DVD-VR disc contains a still image, press <b>II▶</b> while displaying a still image to switch to the next image or video.	
17	Move the thumb pad	Functions are the same as <b>M.C.</b> on the head unit. Move to operate fast forward, reverse and track search controls. Also used for controlling functions.	Use to select a menu on the DVD menu.
	Click the thumb pad	Click to display the track title list, folder list or file list depending on the source.	Click to select a menu on the DVD menu.
18	<b>MENU</b>	Press to display the DVD menu during DVD playback.	
	<b>TOP MENU</b>	Press to return to the top menu during DVD playback.	

### Using the remote control operation mode switch

There are three remote control operation modes on the remote control. If you want to operate this unit by remote control, turn the mode switch to **DVH** mode. In this case, both the head unit's buttons and the remote control can control this unit.

### DVH mode operation

When operating this unit by remote control, the mode is normally switched to **DVH**.

- The thumb pad on the remote control can perform the same operations as **M.C.** on the head unit.

## Operating this unit

### DVD mode operation

If you switch the mode to **DVD**, the thumb pad and **0** to **10** operations are changed for the DVD player.

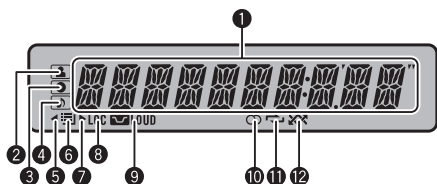
#### ● When you want to operate the following functions, switch the mode to DVD:

- When operating the DVD menu by using the thumb pad. (Refer to *Operating the DVD menu* on page 15.)
- When operating the PBC menu by using **0** to **10**. (Refer to *PBC playback* on page 12.)
- When specifying title or track by using **0** to **10**. (Refer to *Specifying title* on page 13 and *Specifying track* on page 13.)
- When operating the DVD setup menu by using the thumb pad. (Refer to *Setting up the DVD player* on page 22.)

### S-DVD mode operation

When using the remote control with this unit, there is no need to switch to **S-DVD** mode.

### Display indication



Indicator	Operation
1	Main display section <ul style="list-style-type: none"> <li>• Tuner: band and frequency</li> <li>• Built-in DVD player and USB: elapsed playback time and literal information</li> </ul>
2	(artist) The disc (track) artist name is displayed.
3	(disc) The disc (album) name is displayed.

Indicator	Operation
4	(song) The track (song) name is displayed. A playable file is displayed during viewing the file name list of disc and a USB storage device.
5	 An upper tier of folder or menu exists.
6	(list) The list function is operated.
7	 A lower tier of folder or menu exists.
8	<b>LOC</b> The local seek tuning is on.
9	<b>LOUD</b> (loudness) The loudness is on.
10	(stereo) The selected frequency is being broadcasted in stereo.
11	(repeat) Track or folder repeat is on.
12	(random) Random play is on.



#### Note

When you set the display connection (refer to **V.OUT** (*display connection*) on page 27) to on, the indicators of 2 to 7 do not appear.



## Operating this unit

### Basic Operations of this unit

#### Important

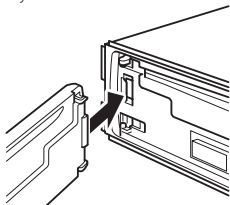
- Handle gently when removing or attaching the front panel.
- Avoid subjecting the front panel to excessive shock.
- Keep the front panel out of direct sunlight and high temperatures.
- To avoid damage to the device or vehicle interior, remove any cables and devices attached to the front panel before detaching it.

Removing the front panel to protect your unit from theft

- 1 Press the detach button to release the front panel.
- 2 Grab the front panel and remove.
- 3 Put the front panel into the provided protective case for safe keeping.

Re-attaching the front panel

- 1 Slide the front panel to the left until it clicks. Front panel and the head unit are connected on the left side. Make sure that the front panel has been properly connected to the head unit.



- 2 Press the right side of the front panel until it is firmly seated. If you can't attach the front panel to the head unit successfully, try again. However, forcing the front panel into place may result in damage.

Turning the unit on

- 1 Press **SRC/OFF** to turn the unit on.

Turning the unit off

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

Selecting a source

- 1 Press **SRC/OFF** repeatedly to switch between the following sources:

**For Southeast Asian models**

**TUNER** (tuner)—**DVD** (built-in DVD player)—**USB** (USB storage device)—**AUX1** (front AUX)—**AUX2** (rear RCA)


**For South American, Oceanian, Middle East Asian, South African models**

**TUNER** (tuner)—**DVD** (built-in DVD player)—**USB** (USB storage device)—**AUX** (AUX)

Adjusting the volume

- 1 Turn **M.C.** to adjust volume.

#### Notes

- Listening to the radio while connecting a USB storage device to this unit may generate noise. In this case disconnect the USB storage device.
- When this unit's blue/white lead is connected to the vehicle's auto-antenna relay control terminal, the vehicle's antenna extends when this unit's source is turned on. To retract the antenna, turn the source off. 

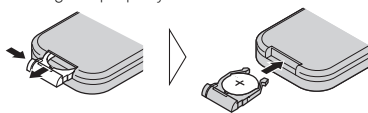
### Use and care of the remote control

Using the remote control

- 1 Point the remote control in the direction of the front panel to operate. When using for the first time, pull out the film protruding from the tray.

Replacing the battery

- 1 Slide the tray out on the back of the remote control.
- 2 Insert the battery with the plus (+) and minus (-) poles aligned properly.



## Operating this unit


### Important

- Do not store the remote control in high temperatures or direct sunlight.
- The remote control may not function properly in direct sunlight.
- Do not let the remote control fall onto the floor, where it may become jammed under the brake or accelerator pedal.

### WARNING

- Keep the battery out of the reach of children. Should the battery be swallowed, consult a doctor immediately.
- Batteries (battery pack or batteries installed) must not be exposed to excessive heat such as sunshine, fire or the like.

### CAUTION


- Use one **CR2025 (3 V)** lithium battery.
- Remove the battery if the remote control is not used for a month or longer.
- There is a danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type.
- Do not handle the battery with metallic tools.
- Do not store the battery with metallic objects.
- If the battery leaks, wipe the remote control completely clean and install a new battery.
- When disposing of used batteries, comply with governmental regulations or environmental public institutions' rules that apply in your country/area. 

## Menu operations identical for function settings/audio adjustments/initial settings/lists

Returning to the previous display  
Returning to the previous list (the folder one level higher)

 Press **DISP/↔/SCRL**.

Returning to the main menu

 Press and hold **DISP/↔/SCRL**.

Returning to the ordinary display  
Canceling the initial setting menu

 Press **BAND/ESC**.




## Tuner

### Important


If you are using this unit in North, Central or South America, reset the AM tuning step (refer to **AM STEP** (*AM tuning step*) on page 26).

## Basic Operations

Selecting a band

 Press **BAND/ESC** until the desired band (**FM1**, **FM2**, **FM3** for FM or **AM**) is displayed.

Manual tuning (step by step)

 Press ◀ or ▶.

Seeking

 Press and hold ◀ or ▶, and then release.

You can cancel seek tuning by briefly pressing ◀ or ▶.

While pressing and holding ◀ or ▶, you can skip stations. Seek tuning starts as soon as you release ◀ or ▶.

## Storing and recalling stations

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

## Operating this unit

- When you find a station that you want to store in memory, press one of the preset tuning buttons (1/S.Rtrv/DVD MENU to 6/↔/ANGLE) and hold until the preset number stops flashing.

Stored radio station frequency can be recalled by pressing the preset tuning button.

- You can also recall stored radio stations by pressing ▲ or ▼ during the frequency display.

## Function settings

**1 Press M.C. to display the main menu.**

**2 Turn M.C. to change the menu option and press to select FUNCTION.**

**3 Turn M.C. to select the function.**

After selecting, perform the following procedures to set the function.

### BSM (best stations memory)

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

- 1 Press **M.C.** to turn BSM on.  
To cancel, press **M.C.** again.

### LOCAL (local seek tuning)

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


- 1 Press **M.C.** to display the setting mode.
- 2 Turn **M.C.** to select the desired setting.  
FM: **OFF—LEVEL 1—LEVEL 2—LEVEL 3—LEVEL 4**

AM: **OFF—LEVEL 1—LEVEL 2**

The larger the setting number, the higher the signal level. The highest level setting allows reception of only the strongest stations; while lower settings let you receive progressively weaker stations.

- 3 Press **M.C.** to confirm the selection.

### Note

Operation is complete even if the menu is cancelled before being confirmed. 

## Built-in DVD player

### Basic Operations

Playing a disc

- 1 Insert the disc into the disc loading slot with the label side up.  
If a disc has already been inserted, press **SRC/OFF** to select **DVD** (built-in DVD player).

Ejecting a disc

- 1 Press **▲**.

Selecting a folder

- 1 Press **▲** or **▼**.  
You cannot select a folder that does not have a compressed audio file, JPEG file or DivX file recorded in it.

Selecting a chapter/track/file

- 1 Press **◀** or **▶**.  
You can also skip back or forward to another chapter/track/file by pressing **I◀◀** or **▶▶I**.  
During PBC playback, a menu may be displayed if you perform these operations.

Fast forwarding or reversing

- 1 Press and hold **◀** or **▶**.  
When DVD, DivX disc or Video CD is playing, if you press and hold **◀** or **▶** for five seconds, the icon **◀◀** or **▶▶** is highlighted. When this happens, fast reverse/fast forward continues even if you release **◀** or **▶**. To resume playback at a desired point, press **▶/II**.

Returning to root folder


- 1 Press and hold **BAND/ESC**.



### Notes







- When the automatic playback function is on, this unit will cancel the DVD menu and automatically start playback from the first chapter of the first title. Refer to *Automatic playback of DVDs* on page 14.
- If you are playing a DVD or Video CD, a menu may appear. Refer to *Operating the DVD menu* on page 15 and *PBC playback* on the next page.
- When loading a CD/CD-R/RW containing JPEG picture files, this unit automatically starts a slideshow from the first folder/picture on the disc. The player displays the pictures in each folder in alphabetical order.

## Operating this unit


- If the bookmark function is on, DVD playback resumes from the selected point. For more details, refer to *Resume playback (Bookmark)* on page 15.
- When you are watching a DVD and attempt to perform an operation, it may not be performed due to the programming on the disc. When this happens, the unit indicates the button  on the screen.

### Basic playback controls

The table below shows the basic controls for playing discs. The following chapters cover other playback features in more details.

Button	What it does
	Starts playback, pauses a disc that's playing or restarts a paused disc. Starts the slideshow, pauses the slideshow or restarts a paused disc.
	Stops playback.
	Press and hold to perform fast reverse.
	Press and hold to perform fast forward.
	Skips to the start of the current track, chapter or file, then to previous tracks/chapters/files. Displays the previous picture.
	Skips to the next track, chapter or file. Displays the next picture.


#### Notes

- You may find with some DVD or Video CD discs that some playback controls do not work in certain parts of the disc. This is not a malfunction.
- If the remote control is set to **DVH**,  does not operate.

### Switching the media file type


When playing a disc containing a mixture of various media file types, such as DivX and MP3, you can switch between media file types to play.

- In case of DVD-R/RW/ROM, this unit does not allow playback of audio data (CD-DA) and JPEG file.

 Press **BAND/ESC** to switch between media file types.

### PBC playback

With Video CDs featuring PBC (playback control) function, you can operate a menu.

- This function is available for Video CD.
-  When PBC menu is displayed, press **0** to **9** corresponding to a menu number to start playback. When the menu is two or more pages long, press **◀◀** or **▶▶** to switch between displays.

#### Notes

- You can display the menu by pressing **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), **PBC**, search and time search functions cannot be used nor can you select the range for repeat play.

## Operating this unit

### Playing DivX® VOD content

Some DivX VOD (video on demand) content may only be playable a fixed number of times. When you load a disc containing this type of DivX VOD content, the remaining number of plays is shown on-screen and you then have the option of playing the disc (thereby using up one of the remaining plays), or stopping. If you load a disc that contains expired DivX VOD content (for example, content that has zero remaining plays), **EXPIRED (Rental Expired)** is displayed.

- 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.

- 1 If the message is displayed after loading a disc containing DivX VOD content, press **▶/II**. Playback of the DivX VOD content will start. To skip to the next file, press **▶▶I**. If you do not want to play the DivX VOD content, press **■**.



#### Important

- In order to play DivX VOD content on this unit, you first need to register the unit with your DivX VOD content provider. About your registration code, refer to page 25.
- DivX VOD content is protected by a DRM (Digital Rights Management) system. This restricts playback of content to specific, registered devices.

### CM skip/CM back

This function skips a reproduced image for a specified time. If the currently playing disc contains commercials, it is possible to skip them.

- This function is available for DVD.
- 1 To skip progressively backward or forward, press **CM BACK** or **CM SKIP**.

Each time you press **CM BACK** or **CM SKIP** it changes steps in the following order:

#### CM back

5 sec.—15 sec.—30 sec.—1.0 min.—2.0 min.—3.0 min.—0 sec.

#### CM skip

30 sec.—1.0 min.—1.5 min.—2.0 min.—3.0 min.—5.0 min.—10.0 min.—0 sec.

After displaying the selected option for two seconds, reproduced image skips.

### Specifying title

- This function is available for DVD.
- To perform this function, set the remote control to **DVD** mode.

- 1 Press **0** to **10** corresponding to a desired title number when the disc is stopped.

Title number is displayed for eight seconds and playback starts from the selected title.

- To select 3, press **3**.
- To select 10, press **10** and **0** in that order.
- To select 23, press **10**, **10** and **3** in that order.

### Specifying track

You can use the search function to specify a track to search for a desired track.

- This function is available for Video CD.
- This function cannot be operated during Video CD playback featuring PBC (playback control).
- To perform this function, set the remote control to **DVD** mode.

For the numbers to press, please refer to *Specifying title* on this page.

### Searching for the part you want to play

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

- Chapter search and track search are not possible when disc playback has been stopped.
- This function cannot be operated during Video CD playback featuring PBC (playback control).
- To perform this function, set the remote control to **DVH** mode.

- 1 Press **DIRECT**.
- 2 Press **0** to **9** to input the desired number. To cancel the inputted numbers, press **CLEAR**.
- 3 Press **DIRECT**. This starts playback from the selected part.



#### Note

With discs featuring a menu, you can also press **MENU** or **TOP MENU** and then make selections from the displayed menu.

## Frame-by-frame playback

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

- This function is available for DVD, DivX disc and Video CD.

1 Press **II▶** during playback.

Each time you press **II▶**, you move ahead one frame.

To return to normal playback, press **▶/II**.

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

## 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.

- This function is available for DVD video.
- Some DVDs may not operate properly. If this function is not fully operated, turn this function off and start playback.

1 Press **AUTO PLAY** to turn automatic playback on. **A PLAY:ON** is displayed.

To turn automatic playback off, press **AUTO PLAY** again.

## Slow motion playback

This lets you slow down playback speed.

- This function is available for DVD, DivX disc and Video CD.

1 Press **II▶** and hold during playback.

The icon **II▶** is displayed, forward slow motion playback begins.

2 Press **◀II** or **II▶** to adjust playback speed during slow motion playback.

Each time you press **◀II** or **II▶** it changes the speed in four steps in the following order:

1/16—1/8—1/4—1/2

To return to normal playback, press **▶/II**.

You cannot operate this step during DivX disc playback.

## Displaying text information

Selecting the desired text information

1 Press **DISP/↔/SCRL**.

**CD TEXT discs:** Play time—disc title—disc artist name—track title—track artist name

**Compressed audio files:** Play time—folder name—file name—track title—artist name—album title—comment—bit rate—folder and track numbers

Scrolling the text information to the left

1 Press and hold **DISP/↔/SCRL**.



### 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.

## Return to the specified scene

You can return to the specified scene where the DVD you are currently playing has been preprogrammed to return.

- This function is available for DVD video.

1 Press **RETURN** to return to the specified scene.

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



### Notes

- Incompatible text stored with the audio file may not be displayed or may be displayed incorrectly.
- Depending on the version of iTunes used to write MP3 files onto a disc, comment information may be incorrectly displayed.
- When playing back VBR (variable bit rate)-recorded WMA files, the average bit rate value is displayed.
- When playing back VBR (variable bit rate)-recorded MP3 files, **VBR** is displayed instead of bit rate value.
- When Ever Scroll is set to ON at the initial setting, text information scrolls continuously in the display. Refer to **SCROLL** (*ever scroll*) on page 26.

## Operating this unit

### Selecting and playing titles/ files/tracks from the title/file name/track title list

<ol style="list-style-type: none"> <li>1 Press <b>Q</b> to switch to the title/file name/track title list mode.</li> <li>2 Use <b>M.C.</b> to select the desired file name (or folder name).</li> </ol>
Changing title, file or folder name <ol style="list-style-type: none"> <li>1 Turn <b>M.C.</b></li> </ol>
Playing <ol style="list-style-type: none"> <li>1 When a file or track is selected, press <b>M.C.</b></li> </ol>
Viewing a list of the files (or folders) in the selected folder <ol style="list-style-type: none"> <li>1 When a folder is selected, press <b>M.C.</b></li> </ol>
Playing a song in the selected folder <ol style="list-style-type: none"> <li>1 When a folder is selected, press and hold <b>M.C.</b></li> </ol>



#### Notes

- When the separately sold display is connected to this unit, the listed information will appear on it.
- Title list is available for DVD-VR.
- File name list is available for compressed audio, JPEG and DivX disc.
- Track title list is available for CD TEXT.

### Advanced operations using special buttons

#### Operating the DVD menu

<p>Some DVDs allow you to make a selection from the disc contents using a menu.</p> <ul style="list-style-type: none"> <li>• This function is available for DVD video.</li> <li>• You can display the menu by pressing the <b>1/S</b>. <b>Rtrv/DVD MENU</b> while a disc is playing. Pressing <b>1/S.Rtrv/DVD MENU</b> again lets you start playback from the location selected from the menu. For details, refer to the instructions provided with the disc.</li> </ul> <ol style="list-style-type: none"> <li>1 Press <b>▲/▼/◀/▶</b> to select the desired menu option.</li> <li>2 Press <b>M.C.</b> Playback starts from the selected menu item.</li> </ol>
--

### Resume playback (Bookmark)

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

- This function is available for DVD video.
- 1 During playback, press **3/BOOKMARK** at the point you want to resume playback next time. The selected scene will be bookmarked so that playback resumes from that point next time. You can bookmark up to five discs. After that, the oldest bookmark is replaced by the new one. To clear the bookmark on a disc, press and hold **3/BOOKMARK** during playback.




#### Notes

- You can also perform this operation by pressing **BOOKMARK** on the remote control.
  - To perform this function, set the remote control to **DVD** mode.
- You can also bookmark a disc by pressing and holding **EJECT** at the point you want to bookmark. Next time you load the disc, playback will resume from the bookmarked point. Note that you can only bookmark one disc using this method. To clear the bookmark on a disc, press **EJECT**.

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

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

- This function is available for DVD and DivX disc.
- 1 Press **4/AUDIO** during playback. The audio selection icon  is displayed for eight seconds.
- 2 Press **4/AUDIO** while the audio selection icon is displayed. The audio changes each time you press **4/AUDIO**.



#### Notes


- You can also perform this operation by pressing **AUDIO** on the remote control.
- With some DVDs, switching between languages/audio systems may only be possible using a menu display.

## Operating this unit

- You can also switch between languages/audio systems using DVD setup menu. For details, refer to *Setting the audio language* on page 22.
- Only digital output of DTS audio is possible. If the unit's optical digital outputs are not connected, select an audio setting other than DTS.
- Display indications such as **Dolby D** and **Mch** indicate the audio system recorded on the DVD. Depending on the setting, playback may not be with the same audio system as that indicated.
- Performing this operation during fast forward/fast reverse, pause or slow motion playback returns you to normal playback.

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

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


- This function is available for DVD and DivX disc.
- Press **5/⏏/SUB TITLE** during playback. The subtitle selection icon  is displayed for eight seconds.
  - Press **5/⏏/SUB TITLE** while the subtitle selection icon is displayed. The subtitle language changes each time you press **5/⏏/SUB TITLE**.


#### Notes

- You can also perform this operation by pressing **SUBTITLE** on the remote control.
- With some DVDs, switching between subtitle languages may only be possible using a menu display.
- You can also switch between subtitle languages using DVD setup menu. For details, refer to *Setting the subtitle language* on page 22.
- Performing this operation during fast forward/fast reverse, pause or slow motion playback returns you to normal 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.

- This function is available for DVD video.
- During playback of a scene shot from multiple angles, the angle icon  is displayed. Turn angle icon display on or off using the DVD setup menu. For details, refer to *Setting the angle icon display* on page 23.

- Press **6/↔/ANGLE** during playback of a scene shot from multiple angles. The angle icon  and angle number **1** are displayed for eight seconds.
- Press **6/↔/ANGLE** while the angle icon and angle number are displayed. The angle changes each time you press **6/↔/ANGLE**.

#### Notes

- You can also perform this operation by pressing **ANGLE** on the remote control.
- Performing this operation during fast forward/fast reverse, pause or slow motion playback returns you to normal playback, but the viewing angle does not change.

### Selecting a repeat play range

- Press **6/↔/ANGLE** to select the repeat range.
  - TITLE** – Repeat the current title
  - CHAPTER** – Repeat the current chapter
  - TRACK** – Repeat the current track
  - FOLDER** – Repeat the current folder
  - DISC** – Play through the current disc

### Playing tracks in random order

Tracks in a selected repeat range are played in random order.

- Press **5/⏏/SUB TITLE** to turn random play on or off.

### Pausing playback

- Press **2/PAUSE** to pause or resume.



## Operating this unit

### Enhancing compressed audio and restoring rich sound (sound retriever)

- 1 Press **1/5.Rtrv/DVD MENU** to cycle between: **OFF** (off)—**1**—**2**  
**1** is effective for low compression rates, and **2** is effective for high compression rates.

### Function settings

#### 1 Press **M.C.** to display the main menu.

#### 2 Turn **M.C.** to change the menu option and press to select **FUNCTION**.

#### 3 Turn **M.C.** to select the function.

After selecting, perform the following procedures to set the function.

#### REPEAT (repeat play)

- 1 Press **M.C.** to display the setting mode.
- 2 Turn **M.C.** to select a repeat play range.  
For details, refer to *Selecting a repeat play range* on the previous page.
- 3 Press **M.C.** to confirm the selection.

#### RANDOM (random play)

- This function is available for JPEG files, CDs and compressed audio files.
- 1 Press **M.C.** to turn random play on or off.

#### SCAN (scan play)

Scan play lets you hear the first 10 seconds of each track on the CD.

- This function is available for CDs and compressed audio disc.
- 1 Press **M.C.** to turn scan play on or off.

#### LR SELECT (audio output)

When playing DVD video discs recorded with LPCM audio, you can switch the audio output.

When playing Video CD discs, you can switch between stereo and monaural audio output.

- This function is available for DVD and Video CD.
  - This function is not available when disc playback is stopped.
  - You may not be able to select or use this function depending on the disc and the playback location.
  - If you select **Linear PCM**, you can operate this function when playing a disc recorded on a dual mono mode. (Refer to *Setting for digital output* on page 25.)
- 1 Press **M.C.** to display the setting mode.
  - 2 Turn **M.C.** to select the desired setting.
    - **L+R** – left and right
    - **L** – left
    - **R** – right
    - **MIX** – mixing left and right
  - 3 Press **M.C.** to confirm the selection.

#### ROTATION (picture rotation)

- This function is available for JPEG files.
- 1 Press **M.C.** to display the setting mode.
  - 2 Turn **M.C.** to select the desired setting.
    - **0** – Cancel the rotation
    - **90** – Rotate 90 degrees
    - **180** – Rotate 180 degrees
    - **-90** – Rotate -90 degrees
  - 3 Press **M.C.** to confirm the selection.

#### PAUSE (pause)

- 1 Press **M.C.** to pause or resume.

#### PLAYLIST (playlist)

You have two methods for playing DVD-VR disc: **ORIGINAL** (original) and **PLAYLIST** (playlist).

- Titles created with DVD recorders are called original. Based on original, rearranged titles are called playlist. Playlists are created on DVD-R/RW discs.
  - This function is available for DVD-VR.
- 1 Press **M.C.** to display the setting mode.
  - 2 Turn **M.C.** to select the desired play mode.  
If the play mode is changed, playback starts from the beginning of the selected play mode.
  - 3 Press **M.C.** to confirm the selection.

**S.RTRV** (sound retriever)

Automatically enhances compressed audio and restores rich sound.

- This function is available for CDs and compressed audio files.

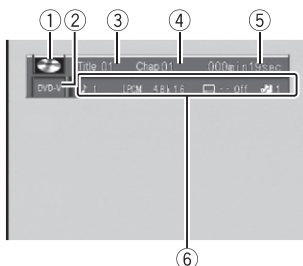
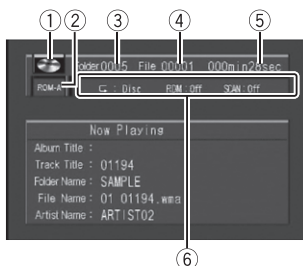
- Press **M.C.** to display the setting mode.
- Turn **M.C.** to select the desired setting. Refer to *Enhancing compressed audio and restoring rich sound (sound retriever)* on the previous page
- Press **M.C.** to confirm the selection.

**Note**

Operation is complete even if the menu is cancelled before being confirmed.

**Switching the information display**

When the video output is set to on in the initial setting menu (refer to **V.OUT** (display connection) on page 27) and a separately sold display is connected to this unit, the text information appears on the display.

**Information display****Title display**

- Disc icon

- When playing a disc containing various data format, **MIXED** appear on it.

- Media indicator
- Title/Folder number indicator  
DVD: shows the title currently playing.  
Compressed audio, JPEG files and DivX: shows the folder currently playing.
- Chapter/track/file number indicator  
DVD: shows the chapter currently playing.  
Video CD and CD: shows the track currently playing.  
Compressed audio, JPEG files and DivX: shows the file currently playing.
- Play time indicator
- Variable message area  
DVD video: shows the audio language, subtitle language, viewing angle, repeat range and speaker output channel.  
DVD-VR: shows the play mode, audio system, speaker output channel, subtitle setting and repeat range.  
Video CD: shows the repeat range and audio output channel.  
JPEG files: not available.  
DivX: shows the audio system, subtitle setting and repeat range.  
CD, compressed audio: shows the repeat range, random setting and scan setting.

## Operating this unit

- 1 Press **DISP**//**SCRL** to switch the information display.

**DVD video:** Information display 1—Information display 2—Normal playback display

**DVD-VR discs:** Information display 1—Information display 2—Disc name display—Title display—Normal playback display

**Video CDs:** Information display—Normal playback display

**JPEG files and DivX discs:** Information display—Folder name display—File name display—Normal playback display

**CD TEXT discs and compressed audio files:** Information display—Title display

- Title display shows the text information of the currently playing disc.

**CD TEXT discs:** **Disc Title** (disc title), **Disc Artist** (disc artist name), **Track Title** (track title), **Track Artist** (track artist name)

**Compressed audio files:** **Album Title** (album title), **Track Title** (track title), **Folder Name** (folder name), **File Name** (file name), **Artist Name** (artist name)



### Notes

- Text information on the Title display does not scroll.
- When a Video CD featuring the PBC (playback control) function starts playing, **PLAYBACK CONTROL ON** will be displayed instead of track number indicator and play time indicator.

## USB portable audio player/ USB memory

You can play compressed audio files and JPEG image files stored in a USB storage device.

- For details about compatibility, refer to *Compressed audio compatibility (disc, USB)* on page 34.
- In the following instructions, USB memories and USB audio players are collectively referred to as “USB storage device.”

### Basic Operations

Playing songs on a USB storage device

- 1 Open the USB connector cover and plug in the USB storage device using a USB cable.

Stopping playback of files on a USB storage device

- 1 You may disconnect the USB storage device at anytime.

Selecting a folder

- 1 Press **▲** or **▼**.

Fast forwarding or reversing

- 1 Press and hold **◀** or **▶**.

Selecting a track/file

- 1 Press **◀** or **▶**.

Returning to root folder

- 1 Press and hold **BAND/ESC**.



### Note

USB storage device that can be charged via USB will be recharged when plugged in and the ignition switch is set to ACC or ON.

### Switching the media file type

When connecting a USB storage device containing a mixture of various media file types such as JPEG and compressed audio, you can switch between media file types to play.

- 1 Press **BAND/ESC** to switch between media file types.

## Selecting a file directly in the current folder

The operation is the same as that of the built-in DVD player.  
Refer to *Searching for the part you want to play* on page 13.

## Displaying text information

The operation is the same as that of the compressed audio on the built-in DVD player.  
Refer to *Displaying text information* on page 14.

## Selecting files from the file name list

The operation is the same as that of the built-in DVD player.  
Refer to *Selecting and playing titles/files/tracks from the title/file name/track title list* on page 15.

## Advanced operations using special buttons

Selecting a repeat play range  
Refer to *Selecting a repeat play range* on page 16.  
However, the repeat play ranges you can select are different from that of the built-in DVD player. The repeat play ranges of the USB portable audio player/USB memory are:

- **TRACK** – Repeat the current file
- **FOLDER** – Repeat the current folder
- **ALL** – Repeat all files

Playing tracks in random order  
Refer to *Playing tracks in random order* on page 16.

Pausing playback  
Refer to *Pausing playback* on page 16.

Enhancing compressed audio and restoring rich sound (sound retriever)  
Refer to *Enhancing compressed audio and restoring rich sound (sound retriever)* on page 17

## Function settings

**1 Press M.C. to display the main menu.**

**2 Turn M.C. to select the function.**

After selecting, perform the following procedures to set the function.

### REPEAT (repeat play)

Refer to **REPEAT** (*repeat play*) on page 17.  
However, the repeat play ranges you can select are different from that of the built-in DVD player. The repeat play ranges of the USB portable audio player/USB memory are:

- **TRACK** – Repeat just the current file
- **FOLDER** – Repeat the current folder
- **ALL** – Repeat all files

### RANDOM (random play)

Refer to **RANDOM** (*random play*) on page 17.

### SCAN (scan play)

- This function is available for compressed audio files.

Refer to **SCAN** (*scan play*) on page 17.

### ROTATION (picture rotation)

- This function is available for JPEG files.
- Refer to **ROTATION** (*picture rotation*) on page 17.

### PAUSE (pause)

Refer to **PAUSE** (*pause*) on page 17.


### S.RTRV (sound retriever)

- This function is available for compressed audio files.

Refer to **S.RTRV** (*sound retriever*) on page 18.

## Switching the information display

The operation is the same as that of the built-in DVD player.

Refer to *Switching the information display* on page 18. 

## Audio Adjustments

**1 Press M.C. to display the main menu.**

**2 Turn M.C. to change the menu option and press to select AUDIO.**

## Operating this unit

### 3 Turn M.C. to select the audio function.

After selecting, perform the following procedures to set the audio function.

#### FAD/BAL (fader/balance adjustment)

You can change the fader/balance setting.

- 1 Press **M.C.** to display the setting mode.
- 2 Press **M.C.** to cycle between fader and balance.
- 3 Turn **M.C.** to adjust speaker balance.  
Adjustment range (front/rear): **F 15** to **R 15**  
Adjustment range (left/right): **L 15** to **R 15**  
Select **FR 0** when only using two speakers.

#### EQUALIZER (equalizer recall)

There are six stored settings: **DYNAMIC** (dynamic), **VOCAL** (vocal), **NATURAL** (natural), **CUSTOM** (custom), **FLAT** (flat) and **POWERFUL** (powerful).

- When **FLAT** is selected no adjustments are made to the sound.
- 1 Press **M.C.** to display the setting mode.
  - 2 Turn **M.C.** to select the equalizer.  
**DYNAMIC—VOCAL—NATURAL—CUSTOM—FLAT—POWERFUL**
  - 3 Press **M.C.** to confirm the selection.

#### TONE CTRL (equalizer adjustment)

You can adjust the bass/mid/treble level.

- Adjusted equalizer curve settings are stored in **CUSTOM**.
- 1 Press **M.C.** to display the setting mode.
  - 2 Press **M.C.** to select **BASS** (bass)/**MID** (mid)/**TREBLE** (treble).
  - 3 Turn **M.C.** to adjust the level.  
Adjustment range: **+6** to **-6**

#### LOUDNESS (loudness)

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

- 1 Press **M.C.** to display the setting mode.
- 2 Turn **M.C.** to select the desired setting.  
**OFF** (off)—**LOW** (low)—**HIGH** (high)
- 3 Press **M.C.** to confirm the selection.

#### SLA (source level adjustment)

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

- Settings are based on the FM volume level, which remains unchanged.  
Before adjusting source levels, compare the FM volume level with the level of the source you wish to adjust.
  - The AM volume level can also be adjusted with this function.
- 1 Press **M.C.** to display the setting mode.
  - 2 Turn **M.C.** to adjust the source volume.  
Adjustment range: **+4** to **-4**
  - 3 Press **M.C.** to confirm the selection.



#### Notes

- When selecting FM as the source, you cannot switch to **SLA**.
- Operation is complete even if the menu is cancelled before being confirmed.

## Setting up the DVD player

### Introduction of DVD setup adjustments

You can use this menu to change audio, subtitle, parental lock and other DVD settings.

- To perform this function, set the remote control to **DVD** mode.

- 1 Select **DVD** as the source and then press **■**.
- 2 Press **MENU** when the disc is stopped. The DVD setup menu is displayed.
- 3 Move the thumb pad left or right to switch the DVD setup menu categories.  
**LANG.** (language)—**PICT.** (picture)—**GEN.** (general)
- 4 Move the thumb pad up or down to select the DVD setup function names.

**For LANG.:** **SUBTITLE LANG.** (subtitle language settings)—**AUDIO LANG.** (audio language settings)—**MENU LANG.** (menu language settings)—**OSD LANGUAGE** (on screen display language setting)—**CHARACTER SET** (character set setting)

**For PICT.:** **ANGLE ICON DISPLAY** (angle icon)—**TV ASPECT** (TV aspect)—**SLIDESHOW TIME** (slideshow interval time setting)

**For GEN.:** **PARENTAL** (parental lock)—**DivX SUBTITLE** (DivX subtitle)—**IEC DIGITAL OUTPUT** (digital output setting)—**DivX VOD** (DivX VOD)—**SAMPLING OUTPUT** (down sampling output setting)

If you press **MENU** during display of a DVD setup menu, the DVD setup menu is canceled and the unit returns to the previous display.

### Menu operations identical for DVD setup adjustments

Returning to the previous display

- 1 Press **RETURN**.

## Setting the subtitle language

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

- 1 Move the thumb pad up or down to select **SUBTITLE LANG.** in **LANG.**
- 2 Click the thumb pad  
A subtitle language menu is displayed.
- 3 Move the thumb pad up, down, left or right to select the desired language.
- 4 Click the thumb pad.  
The subtitle language is set.



#### Notes

- If the selected language is not available, the language specified on the disc is displayed.
- You can also switch the subtitle language by pressing **SUBTITLE** during playback. (Refer to *Changing the subtitle language during playback (Multi-subtitle)* 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 38.

- 1 Pressing **CLEAR** cancels the input numbers.

## Setting the audio language

- 1 Move the thumb pad up or down to select **AUDIO LANG.** in **LANG.**
- 2 Click the thumb pad  
An audio language menu is displayed.
- 3 Move the thumb pad up, down, left or right to select the desired audio language.
- 4 Click the thumb pad.  
The audio language is set.



#### Notes

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

## Operating this unit

- You can also switch the audio language by pressing **AUDIO** during playback. (Refer to *Changing audio language during playback (Multi-audio)* on page 15.)
- The setting made here will not be affected even if the subtitle language is switched during playback using **AUDIO**.
- If you have selected **OTHERS**, refer to *When you select OTHERS* on the previous page.

### Setting the menu language

- Move the thumb pad up or down to select **MENU LANG.** in **LANG.**
- Click the thumb pad  
A menu language menu is displayed.
- Move the thumb pad up, down, left or right to select the desired menu language.
- Click the thumb pad  
The menu language is set.



#### Notes

- If the selected language is not available, the language specified on the disc is displayed.
- If you have selected **OTHERS**, refer to *When you select OTHERS* on the previous page.

### Setting the on screen display language

- You can set the preferred language for information display, DVD setup menu and list display etc.
- Move the thumb pad up or down to select **OSD LANGUAGE** in **LANG.**
  - Click the thumb pad.  
An on screen display language menu is displayed.
  - Move the thumb pad up or down to select the desired on screen display language.
  - Click the thumb pad.  
The on screen display language is set.

### Setting the character set

You can set the preferred character set for DivX subtitle file, information display and list display.

- Move the thumb pad up or down to select **CHARACTER SET** in **LANG.**
- Click the thumb pad.  
A character set setting menu is displayed.
- Move the thumb pad up or down to select the desired character set.
- Click the thumb pad.  
The character set is set.

### Setting the angle icon display

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

- Move the thumb pad up or down to select **ANGLE ICON DISPLAY** in **PICT.**
- Click the thumb pad to select on or off.  
A character set setting menu is displayed.

### 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 **PANSCAN**. 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.
- Move the thumb pad up or down to select **TV ASPECT** in **PICT.**
  - Click the thumb pad  
TV aspect menu is displayed.
  - Move the thumb pad up or down to select the desired TV aspect.
    - 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
    - PANSCAN** – The picture is cut short on the right and left sides of the screen
  - Click the thumb pad

**Notes**

- When playing discs that do not specify **PANSCAN**, the disc is played back in **LETTER BOX** display even if you select the **PANSCAN** 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 slide show interval**

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

- Move the thumb pad up or down to select **SLIDE-SHOW TIME** in **PICT**.
- Click the thumb pad  
A slide show interval time menu is displayed.
- Move the thumb pad up or down to select the desired TV aspect.
  - Manual** – JPEG images can be switched manually
  - 10sec** – JPEG images switch at intervals of 10 seconds
  - 20sec** – JPEG images switch at intervals of 20 seconds
  - 30sec** – JPEG images switch at intervals of 30 seconds
- Click the thumb pad  
The slideshow interval time is set.

**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.

- Move the thumb pad up or down to select **PARENTAL** in **GEN**.
- Click the thumb pad  
Parental lock setting menu is displayed.
- Press **0** to **9** to input a four digit code number.
- Move the thumb pad left or right to move the cursor to the previous or next position.
- Click the thumb pad after entering the four digit code number.  
The code number is set, and the level can now be set.
- Move the thumb pad left or right to select the desired level.
  - LEVEL8** – Playback of the entire disc is possible (initial setting)
  - LEVEL7** to **LEVEL2** – Playback of discs for children and non-adult-oriented discs is possible
  - LEVEL1** – Playback of discs for children only is possible
- Click the thumb pad  
The parental lock level is set.

**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.



## Operating this unit

### Changing the level

You can change the set parental lock level.

- 1 Move the thumb pad up or down to select **PAR-  
ENTAL** in **GEN**.
- 2 Click the thumb pad  
Parental lock setting menu is displayed.
- 3 Press **0** to **9** to input the registered code number.
- 4 Move the thumb pad left or right to move the cursor to the previous or next position.
- 5 Click the thumb pad after entering the four digit code number.  
This sets the code number, and the level can now be changed.
  - If you input an incorrect code number, the icon  is displayed. Input the correct code number.
  - If you forget your code number, refer to *If you forget your code number* on this page.
- 6 Move the thumb pad left or right to select the desired level.
- 7 Click the thumb pad  
The parental lock level is set.

### If you forget your code number

Please see the following section, and press **CLEAR** 10 times in the parental lock setting menu. Refer to *Changing the level* on this page. The registered code number is canceled, letting you register a new one.

### 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 Move the thumb pad up or down to select **DivX  
SUBTITLE** in **GEN**.
  - 2 Click the thumb pad to select whether to display DivX external subtitles or not.
    - **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.

### Setting for digital output

Audio which is outputted from digital output of this unit can be selected. Normally, set to **STREAM**. If this unit's digital output is not used, there is no need to change settings.

- Selecting **Linear PCM** enables you to switch the output channel if playing the following type of discs. (Refer to **LR SELECT** (*audio output*) on page 17.)
    - Dual mono mode DVD video discs
    - Bilingual DVD-VR discs
- 1 Move the thumb pad up or down to select **IEC DIGITAL OUTPUT** in **GEN**.
  - 2 Click the thumb pad to select the desired digital output setting.
    - **STREAM** – The Dolby Digital/DTS signal is output as it is (initial setting)
    - **Linear PCM** – The Dolby Digital/DTS signal is converted to and output as a linear PCM signal

### Displaying the DivX® VOD registration code

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

- 1 Move the thumb pad up or down to select **DivX  
VOD** in **GEN**.
- 2 Click the thumb pad  
Your 8-digit registration code is displayed.
  - Keep a record of the code as you will need it when you register your unit to the DivX VOD provider.

## Setting the down sampling output

If the sampling frequency of the audio is more than 96 kHz, the audio outputted from the digital output of this unit can be reduced to 48 kHz. Normally, set the down sampling output to on. If this unit's digital output is not used, there is no need to change settings.

- 1 Move the thumb pad up or down to select **SAMPLING OUTPUT** in **GEN**.
- 2 Click the thumb pad.  
Each time you click the thumb pad the selected setting switches on or off.



## Initial Settings

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

**2 Press M.C. and hold until the initial setting menu appears in the display.**

**3 Turn M.C. to select one of the initial settings.**

After selecting, perform the following procedures to set the initial setting.

### CLOCK SET (setting the clock)

- 1 Press **M.C.** to display the setting mode.
- 2 Press **M.C.** to select the segment of the clock display you wish to set.  
Each time you press **M.C.**, one segment of the clock display is selected.  
Hour—Minute  
As you select segments of the clock display, the selected segment flashes.
- 3 Turn **M.C.** to adjust the clock.

### FM STEP (FM tuning step)

The FM tuning step employed by seek tuning can be switched between 100 kHz, the preset step, and 50 kHz.

- If seek tuning is performed in 50 kHz steps, stations may be tuned in imprecisely. Tune in the stations with manual tuning or use seek tuning again.
- The tuning step remains at 50 kHz during manual tuning.

- 1 Press **M.C.** to display the setting mode.
- 2 Turn **M.C.** to select the FM tuning step.  
**50KHZ** (50 kHz)—**100KHZ** (100 kHz)
- 3 Press **M.C.** to confirm the selection.

### AM STEP (AM tuning step)

The AM tuning step can be switched between 9 kHz, the preset step, and 10 kHz. When using the tuner in North, Central or South America, reset the tuning step from 9 kHz (531 kHz to 1 602 kHz allowable) to 10 kHz (530 kHz to 1 640 kHz allowable).

- 1 Press **M.C.** to display the setting mode.
- 2 Turn **M.C.** to select the AM tuning step.  
**10KHZ** (10 kHz)—**9KHZ** (9 kHz)
- 3 Press **M.C.** to confirm the selection.

### AUX1 (front AUX input setting)/AUX2 (rear RCA input setting)

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

- This function is available for Southeast Asian models.
- 1 Press **M.C.** to turn **AUX1/AUX2** on or off.

### AUX (auxiliary input)

Refer to **AUX1** (front AUX input setting)/**AUX2** (rear RCA input setting) on this page.

- This function is available for South American, Oceanian, Middle East Asian, and South African models.
- 1 Press **M.C.** to turn **AUX** on or off.

### SCROLL (ever scroll)

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

- 1 Press **M.C.** to display the setting mode.
- 2 Turn **M.C.** to select the desired setting.  
**EVER** (ever)—**OFF** (off)
- 3 Press **M.C.** to confirm the selection.

When **V.OUT** is set to **ON**, you cannot switch to **SCROLL**.

### COLOR SYS (DVD output signal setting)

## Operating this unit

When this unit is connected to a display, you need to adjust the DVD output signal suitable to DVD and your display signal setting.

- 1 Press **M.C.** to display the setting mode.
- 2 Turn **M.C.** to select an appropriate DVD output signal.

### NTSC—PAL

- 3 Press **M.C.** to confirm the selection.


### V.OUT (display connection)

You can use this unit with or without the display. When using this unit connected to the display, you can turn the display connection setting on or off. If you turn this function on, the detailed text information of the **DVD** and **USB** appears on the display.

- 1 Press **M.C.** to turn display connection on or off.



### Notes

- Operation is complete even if the menu is cancelled before being confirmed.
- The operation of this unit differs according to the display connection on/off setting. The examples are as follows:
  - Playing a compressed audio file and displaying the file name list mode
    - When the display connection is set to on, the files of the currently playing folder are displayed.
    - When the display connection is set to off, the file of the root folder is displayed.
  - Playing a compressed audio file and pressing **DISP/↔/SCRL** in the file name list
    - When the display connection is set to on, the name of the currently playing file is selected.
    - When the display connection is set to off, you can return to the previous list (the folder one level higher). 

## Using AUX1 and AUX2 source

### For Southeast Asian models

Up to two auxiliary devices such as VCR or portable devices (sold separately) can be connected to this unit. When connected, auxiliary devices are automatically read as AUX sources

and assigned to **AUX1** or **AUX2**. The relationship between **AUX1** and **AUX2** sources is explained below.

## About AUX1 and AUX2

There are two methods to connect auxiliary devices to this unit.

### AUX1 source:

*When connecting auxiliary device using the front AUX input*

- You need to activate the AUX setting in the initial setting menu. Refer to **AUX1** (*front AUX input setting*)/**AUX2** (*rear RCA input setting*) on the previous page.

#### 1 Insert the mini plug into the AUX input jack on this unit.

For more details, refer to *Head unit* on page 5. This auxiliary device is automatically set to **AUX1**.

#### 2 Press SRC/OFF to select AUX1 as the source.

### AUX2 source:

*When connecting auxiliary device using the rear RCA input*

- You need to activate the AUX setting in the initial setting menu. Refer to **AUX1** (*front AUX input setting*)/**AUX2** (*rear RCA input setting*) on the previous page.

#### 1 Use the rear RCA input to connect an auxiliary device featuring RCA output.

For more details, refer to the installation manual.

This auxiliary device is automatically set to **AUX2**.

- This type of connection can only be made if the auxiliary device has RCA outputs.

#### 2 Press SRC/OFF to select AUX2 as the source.

**Note**

AUX cannot be selected unless the auxiliary setting is turned on. For more details, refer to **AUX** (*auxiliary input*) on page 26.

- **USB** – USB portable audio player/USB memory

- 2 Press **BOOKMARK** and hold to turn **BSM** on or off when selecting **TUNER** as the source.

## Using an AUX source

*For South American, Oceanian, Middle East Asian, South African models*

- 1 Insert the stereo mini plug into the **AUX** input jack.

For more details, refer to *Head unit* on page 5.

- 2 Press **SRC/OFF** to select **AUX** as the source.

**Note**

AUX cannot be selected unless the auxiliary setting is turned on. For more details, refer to **AUX** (*auxiliary input*) on page 26.

## Turning the clock display on or off

- Press **CLOCK** to turn the clock display on or off.

**Note**

The clock display disappears temporarily when you perform other operations, but the clock display appears again after 25 seconds.

## Using the PGM button

You can operate the preprogrammed functions for each source by using **BOOKMARK**.

- To perform this function, set the remote control to **DVH** mode.

- 1 Press **BOOKMARK** to turn pause on or off when selecting the following sources:


- **DVD** – Built-in DVD player

# 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.
Operation with the remote control is not possible. The unit does not operate correctly even when the appropriate remote control buttons are pressed.	Noise and/or other factors are causing the built-in microprocessor to operate incorrectly.	Turn the unit off and then on. (Page 9)
	The remote control operation mode is incorrect.	Switch to the correct remote control mode. (Page 7)
Playback is not possible.	Battery power is low.	Load a new battery.
	Some operations are prohibited with certain discs.	Try operating with another disc.
There is no sound. The volume level will not rise.	The disc is dirty.	Clean the disc. (Page 32)
	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.
The repeat range changes automatically.	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)
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.
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 23)
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.
<b>No xxxx</b> appears when a display is changed ( <b>No Title</b> , for example).	There is no text information embedded.	Switch the display or play another track/file.
The repeat range changes automatically.	Another folder was selected during repeat play.	Select the repeat range again.
	Track search or fast forward/reverse was performed during file repeat play.	Select the repeat range again.

## Additional Information

### 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 24)
Parental lock cannot be canceled.	The code number is incorrect.	Enter the correct code number. (Page 24)
	You have forgotten your code number.	Press <b>CLEAR</b> 10 times to cancel the code number. (Page 25)
Dialog language (and subtitle language) cannot be switched.	The DVD being played does not feature multiple language recordings.	The language cannot be switched if they are not recorded on the disc.
	You can only switch between items indicated in the disc menu.	Switch the language using the disc menu.
No subtitles are displayed.	The DVD being played does not feature subtitles.	Subtitles are not displayed if they are not recorded on the disc.
	You can only switch between items indicated in the disc menu.	Switch the language using the disc menu.
Playback is not performed with the audio language and subtitle language settings selected in	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.

### SETUP

Symptom	Cause	Action (Reference page)
The viewing angle cannot be switched.	The DVD being played does not feature scenes shot from multiple angles.	The viewing angle cannot be switched if the DVD does not feature scenes recorded from multiple angles.
	You are trying to switch to multi-angle viewing for a scene that was not recorded from multiple angles.	Switch between multiple angles when watching scenes recorded from multiple angles.
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.



## Error messages

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

## Additional Information

### DVD

Message	Cause	Action
<b>REGION ERR (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.
<b>ERROR-02-XX</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.
<b>NON-PLAY (UNPLAYABLE DISC)</b>	There is an electrical or mechanical error.	Press <b>RESET</b> .
	This type of disc cannot be played on this unit.	Replace the disc with one that can be played on this unit.
<b>PROTECT (NO ACCESSIBLE DATA AVAILABLE)</b>	The inserted disc does not contain any playable files.	Replace the disc.
	All the files on the inserted disc are embedded with DRM.	Replace the disc.
<b>SKIPPED (FILE SKIPPED)</b>	The inserted disc contains DRM protected WMA files.	Replace the disc.
<b>HEAT (THERMAL PROTECTION IN MOTION)</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>EXPIRED (Ren-tal Expired)</b>	The inserted disc contains expired DivX VOD content.	Replace the disc.
<b>NON-PLAY (FILE NOT PLAYABLE-HIGH DEF)</b>	The inserted disc contains a high definition DivX file.	This unit cannot play DivX HD files. Replace the disc with one that can be played on this unit.
<b>WRITE FAIL (CAN NOT SAVE DATA)</b>	This unit's flash memory used as the temporary storage area is full.	Select the playable file.

Message	Cause	Action
<b>ERROR (AUTHORIZATION ERROR)</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. (Page 25)

### USB audio player/USB memory

Message	Cause	Action
<b>NON-PLAY (UNPLAYABLE FILE)</b>	This type of file cannot be played on this unit.	Select the playable file.
	There are no songs.	Transfer the audio files to the USB portable audio player/USB memory and connect.
<b>SKIPPED (FILE SKIPPED)</b>	Security for the connected USB memory is enabled.	Follow the USB memory instructions to disable security.
	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.
<b>PROTECT (NO ACCESSIBLE DATA AVAILABLE)</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>N/A USB (INCOMPATIBLE DEVICE)</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 FAT16 or FAT32.	The connected USB device should be formatted with FAT16 or FAT32.

## Additional Information

Message	Cause	Action
<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 500 mA (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.
<b>ERROR-02-DX</b>	Communication failed.	<p>Perform one of the following operations.</p> <ul style="list-style-type: none"> <li>-Turn the ignition switch OFF and back ON.</li> <li>-Disconnect the USB portable audio player/USB memory.</li> <li>-Change to a different source.</li> </ul> <p>Then, return to the USB portable audio player/USB memory.</p>



## Handling guideline

### Discs and player

Use only discs featuring any of following logos.



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

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/CD-RW and DVD-R/DVD-RW disc playback are not possible.

Do not touch the recorded surface of the discs.

Store discs in their cases when not in use.

Avoid leaving discs in excessively hot environments including under direct sunlight.

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. Leave it to adjust to the warmer temperature for about one hour. Also, wipe any damp discs 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.



## Additional Information

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-ROM/DVD-RAM discs.

DVD-R/RW discs which have been recorded with the Video Recording format (VR mode) can be played back. However, unfinalized disc may not be played back. Unplayable disc should be finalized. In addition, finalized DVD-R DL (Dual Layer) disc cannot be re-recorded/edited.

DVD-R DL (Dual Layer) discs which have been recorded with the Video Recording format (VR mode) can be played back. However, this unit is not compatible with Layer Jump recording mode.

For more information about recording mode, please contact manufacturer of DVD recorder or application.

The following logo indicates that this unit is compatible with DVD-RW discs which have been recorded with the Video Recording format (VR mode).

**RW**  
COMPATIBLE

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.

### External storage device (USB)

Address any questions you have about your external storage device (USB) to the manufacturer of the device.

Do not leave the external storage device (USB) in places with high temperatures.

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

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

### CD-R/CD-RW discs

When CD-R/CD-RW discs are used, playback is possible only for discs which have been finalized.

Playback of CD-R/CD-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/CD-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/CD-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. 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 8 192 × 7 680. (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.

## Additional Information

### DivX video files

Depending on the composition of the file information, such as the number of audio streams, 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 guarantee for proper operation. Unauthorized DivX files may not operate properly.

DRM rental files cannot be operated until playback is started.

This unit corresponds to a DivX file display of up to 1 590 minutes 43 seconds. Search operation beyond this time limit is prohibited.


If a file contains more than 4 GB, playback will stop before the end of the file.

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 25.

For more details about DivX, visit the following site: <http://www.divx.com/>



### Important

- When naming a JPEG image file, add the corresponding filename extension (.jpg, .jpeg, .jpe or .jfif).
- This unit plays back files with these filename extensions (.jpg, .jpeg, .jpe or .jfif) 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)

### 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: No

### 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 than Version 1.x.)

M3u playlist: No

MP3i (MP3 interactive), mp3 PRO: No

### AAC

Compatible format: AAC encoded by iTunes

Bit rate: 8 kbps to 320 kbps

File extension: .m4a

Sampling frequency: 8 kHz to 44.1 kHz

Transmission rate: 16 kbps to 320 kbps

Apple Lossless: No

### DivX compatibility

Compatible format: DivX video format implemented in relation to DivX standards

File extensions: .avi or .divx

DivX Ultra format: No

DivX HD format: No

DivX files without video data: No

Compatible audio codec: MP2, MP3, Dolby Digital

LPCM: No

Bit rate: 8 kbps to 320 kbps (CBR), VBR

Sampling frequency: 8 kHz to 48 kHz

Compatible external subtitle file extension: .srt

DivX7: No

## Additional Information

### Supplemental information

Only the first 32 characters can be displayed as a file name (including the file extension) or a folder name.

This unit may not operate correctly depending on the application used to encode WMA files.

There may be a slight delay when starting playback of audio files embedded with image data.

### Disc

Playable folder hierarchy: up to eight tiers (A practical hierarchy is less than two tiers.)

Playable folders: up to 700

Playable files: up to 999 for CD-R/CD-RW  
 Playable files: up to 3 500 for DVD-R/DVD-RW

File system: ISO 9660 Level 1 and 2, Romeo, Joliet

Multi-session playback: Yes

Packet write data transfer: No

Regardless of the length of blank section between the songs of the original recording, compressed audio discs play with a short pause between songs.

### USB storage device

Playable folder hierarchy: up to eight tiers (A practical hierarchy is less than two tiers.)

Playable folders: up to 6 000

Playable files: up to 65 535


Playback of copyright protected files: No

Partitioned external storage device (USB): Only the first playable partition can be played.

There may be a slight delay when starting playback of audio files on a USB portable audio player/USB memory with numerous folder hierarchies.



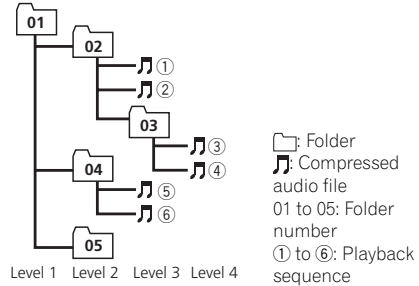
### CAUTION

Pioneer accepts no responsibility for data lost on the USB memory/USB portable audio player even if that data is lost while using this unit. 

## 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.


### USB storage device

Playback sequence is the same as recorded sequence in the USB storage device.

To specify the playback sequence, the following method is recommended.

- ① Create the file name including numbers that specify the playback sequence (e.g., 001xxx.mp3 and 009yyy.mp3).
- ② Put those files into a folder.
- ③ Save the folder containing files on the USB storage device.

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. 

## Additional Information

### Copyright and trademark

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

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#### iTunes

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#### Dolby Digital



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

#### DTS Digital Out



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## Additional Information

### DivX



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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, Uygghur (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: 12.0 V to 14.4 V DC)
Grounding system .....	Negative type
Maximum current consumption .....	10.0 A
Dimensions (W × H × D): DIN	
Chassis .....	178 mm × 50 mm × 163 mm
Nose .....	188 mm × 58 mm × 23 mm
D	
Chassis .....	178 mm × 50 mm × 163 mm
Nose .....	170 mm × 48 mm × 23 mm
Weight .....	1.4 kg

### Audio

Maximum power output .....	50 W × 4
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 allowable)
Preout maximum output level .....	2.0 V
Tone controls:	
Bass	
Frequency .....	100 Hz
Gain .....	±12 dB
Mid	
Frequency .....	1 kHz
Gain .....	±12 dB
Treble	
Frequency .....	10 kHz
Gain .....	±12 dB

### DVD Player

System .....	DVD video, DVD-VR, Video CD, CD, WMA, MP3, AAC, DivX, JPEG system
Region number:	
for Middle East Asian and South African models .....	2
for Southeast Asian models .....	3
for South American and Oceanian models .....	4
Usable discs .....	DVD video, Video CD, CD, CD-R/RW, DVD-R/RW/RDL

Frequency response .....	5 Hz to 44 000 Hz (with DVD, at sampling frequency 96 kHz)
Signal-to-noise ratio .....	96 dB (1 kHz) (IEC-A net- work) (RCA level)
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 (2ch audio) (Windows Media Player)
AAC decoding format .....	MPEG-4 AAC (iTunes en- coded only) (.m4a) (Ver. 8.2 and earlier)
DivX decoding format .....	Home Theater Ver. 3, 4, 5.2, 6 (.avi, .divx)

### USB

USB standard specification .....	USB 2.0 full speed
Maximum current supply ...	500 mA
File system .....	FAT16, FAT32
MP3 decoding format .....	MPEG-1 & 2 Audio Layer 3
WMA decoding format .....	Ver. 7, 7.1, 8, 9, 10, 11 (2ch audio) (Windows Media Player)
AAC decoding format .....	MPEG-4 AAC (iTunes en- coded only) (.m4a) (Ver. 8.2 and earlier)

### FM tuner

Frequency range .....	87.5 MHz to 108.0 MHz
Usable sensitivity .....	9 dBf (0.8 μV/75 Ω, mono, S/N: 30 dB)
Signal-to-noise ratio .....	72 dB (IEC-A network)

### AM tuner

Frequency range .....	531 kHz to 1 602 kHz (9 kHz) 530 kHz to 1 640 kHz (10 kHz)
Usable sensitivity .....	25 μV (S/N: 20 dB)
Signal-to-noise ratio .....	62 dB (IEC-A network)

### Infrared remote control

Wavelength .....	945 nm
Output .....	typ: 10 mw/sr per Infrared LED



### Note

Specifications and the design are subject to modifications without notice. 

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