

Micro HI-FI Component System

Operating Instructions



MP3



CMT-DX400

WARNING

To reduce the risk of fire or electric shock, do not expose this apparatus to dripping or splashing, and do not place objects filled with liquids, such as vases, on the apparatus.

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

To reduce the risk of fire, do not cover the ventilation opening of the apparatus with newspapers, tablecloths, curtains, etc.

Do not place the naked flame sources such as lighted candles on the apparatus.

As the main plug is used to disconnect the unit from the mains, connect the unit to an easily accessible AC outlet. Should you notice an abnormality in the unit, disconnect the main plug from the AC outlet immediately.

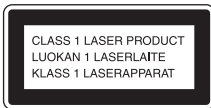
Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

Do not expose batteries or apparatus with battery-installed to excessive heat such as sunshine, fire or the like.

The unit is not disconnected from the mains as long as it is connected to the AC outlet, even if the unit itself has been turned off.

CAUTION

The use of optical instruments with this product will increase eye hazard.



This appliance is classified as a CLASS 1 LASER product. This marking is located on the rear exterior.

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How to use this manual

- This manual mainly explains operations using the remote, but the same operations can also be performed using the buttons on the unit having the same or similar names.
- The OSD (on-screen display) may vary depending on the country model.
- The description in this manual might be different from the OSD (on-screen display) because of the display restriction.
- The English OSD screen (on-screen display) is used for illustration purposes only.
- “DVD” may be used as a general term for DVD VIDEO, DVD+RW/DVD+R and DVD-RW/DVD-R.
- The following symbols are used in this manual.

Symbol	Meaning
	Functions available for DVD VIDEO, DVD-R/DVD-RW in video mode, and DVD+R/DVD+RW
	Functions available for VIDEO CD (including Super VCDs or CD-R/CD-RWs in video CD format or Super VCD format)
	Functions available for music CD or CD-R/CD-RW in music CD format
	Functions available for DATA CD (CD-ROM/CD-R/CD-RW containing MP3* files, JPEG files and DivX files)
	Functions available for DATA DVD (DVD-R/DVD-RW/DVD+R/DVD+RW) containing MP3* files, JPEG files and DivX files

*MP3 (MPEG1 Audio Layer 3) is a standard format defined by ISO/MPEG which compresses audio data.

Playable discs

You can play back the following discs on this system. Other discs cannot be played back.


List of playable discs

Format of discs	Disc logo
DVD VIDEO	
DVD-RW/ DVD-R	 
DVD+RW/ DVD+R	 
VIDEO CD	
CD-R/CD-RW	   

“DVD+RW,” “DVD-RW,” “DVD + R,” “DVD VIDEO,” and the “CD” logos are trademarks.

Region code of DVD you can play on this system

Your system has a region code printed on the back of the unit and will only play DVD labeled with identical region code.

DVD labeled  will also be played on this system.

If you try to play any other DVD, the message “Wrong Region” will appear on the TV screen. Depending on the DVD, no region code indication may be labeled even though playing the DVD is prohibited by area restrictions.

Discs that this system cannot play

- CD-ROM (except for extension “.MP3”, “.JPG” or “.JPEG”)
 - CD-R/CD-RW other than those recorded in the following formats:
 - music CD format
 - video CD format
 - MP3 (MPEG1 Audio Layer-3)/JPEG/DivX format that conforms to ISO9660* Level 1/Level 2 or Joliet
 - CD-ROM recorded in PHOTO CD format.
 - Data part of CD-Extras
 - Super Audio CD
 - DVD-ROM/DVD-R/DVD-RW/DVD+R/DVD+RW recorded in Multi Session
 - DVD-RAM
 - DVD Audio discs
 - A DVD with a different region code.
 - DVD+R DL (Double layer) discs
 - Discs with non-standard shapes (e.g., heart, square, star) cannot be played on this unit. Attempting to do so may damage the unit. Do not use such discs.
 - A disc with paper or stickers on it.
 - A disc that has the adhesive, cellophane tape, or a sticker still left on it.
- * A logical format of files and folders on a CD-ROM, defined by ISO (International Organization for standardization).

Notes about CD-R/CD-RW/ DVD-R/DVD-RW (Video mode)/ DVD+R/DVD+RW

- In some cases, CD-R, CD-RW, DVD-R, DVD-RW (Video mode) (DVD-RW created in video mode have the same format as a DVD VIDEO), DVD+R or DVD+RW cannot be played on this system depending upon the recording quality or physical condition of the disc, or the characteristics of the recording device. Furthermore, the disc will not play if it has not been correctly finalized. For more information, see the operating instructions for the recording device. Note that some playback functions may not work with some DVD+RW/DVD+R, even if they have been correctly finalized.
- A disc recorded in packet write format cannot be played.

Note on playback operations of DVDs and VIDEO CDs

Some playback operations of DVD and VIDEO CD may be intentionally set by software producers. Since this system plays DVD and VIDEO CD according to the disc contents the software producers designed, some playback features may not be available. Also, refer to the instructions supplied with the DVD or VIDEO CD.

Music discs encoded with copyright protection technologies

This product is designed to playback discs that conform to the Compact Disc (CD) standard. And various music discs encoded with copyright protection technologies are marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.

Note on DualDiscs

A DualDisc is a two sided disc product which mates DVD recorded material on one side with digital audio material on the other side.

However, since the audio material side does not conform to the Compact Disc (CD) standard, playback on this product is not guaranteed.

Cautions when playing a disc that is recorded in Multi Session

- This system can play Multi Session CD when an MP3 file (JPEG file) is contained in the first session. Any subsequent MP3 files (JPEG files) recorded in later sessions can also be played back.
- If audio tracks and images in music CD format or video CD format are recorded in the first session, only the first session will be played back.
- When playing a disc which contains audio tracks in music CD format, MP3 files and JPEG files, only the audio tracks in music CD format can be played back.
- CD-R and CD-RW discs recorded in multi-session that have not ended by “closing the session” are not supported.

Copyrights

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

- This system incorporates Dolby Digital.
- Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.
- MPEG Layer-3 audio coding technology and patents licensed from Fraunhofer IIS and Thomson.
- DivX[®], DivX Certified[®] and associated logos are registered trademarks of DivX, Inc. DivX grants licensees the right to use the DivX trademark.

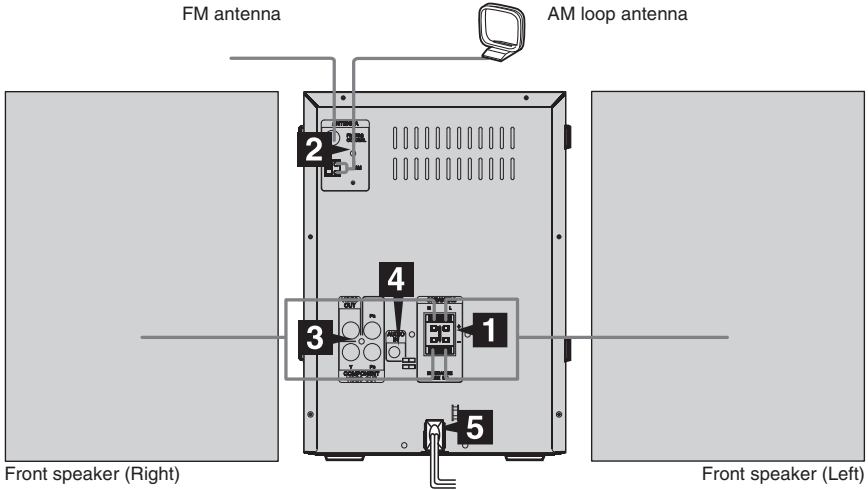
ABOUT DIVX VIDEO: DivX[®] is a digital video format created by DivX, Inc. This is an official DivX Certified device that plays DivX video. Visit www.divx.com for more information and software tools to convert your files into DivX video.

ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified[®] device must be registered in order to play DivX Video-on-Demand (VOD) content. To generate the registration code, locate the DivX VOD section in the device setup menu. Go to vod.divx.com with this code to complete the registration process and learn more about DivX VOD.

- Windows Media is a registered trademark of Microsoft Corporation in the United States and/or other countries.
- THIS PRODUCT IS LICENSED UNDER THE MPEG-4 VISUAL PATENT PORTFOLIO LICENSE FOR THE PERSONAL AND NON-COMMERCIAL USE OF A CONSUMER FOR (i) ENCODING VIDEO IN COMPLIANCE WITH THE MPEG-4 VISUAL STANDARD (“MPEG-4 VIDEO”) AND/OR (ii) DECODING MPEG-4 VIDEO THAT WAS ENCODED BY A CONSUMER ENGAGED IN A PERSONAL AND NON-COMMERCIAL ACTIVITY AND/OR WAS OBTAINED FROM A VIDEO PROVIDER LICENSED BY MPEG LA TO PROVIDE MPEG-4 VIDEO. NO LICENSE IS GRANTED OR SHALL BE IMPLIED FOR ANY OTHER USE. ADDITIONAL INFORMATION INCLUDING THAT RELATING TO PROMOTIONAL, INTERNAL AND COMMERCIAL USES AND LICENSING MAY BE OBTAINED FROM MPEG LA, LLC. SEE <http://www.mpegla.com/>

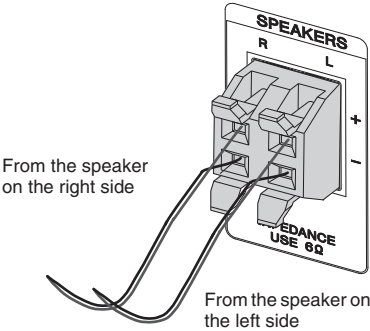
Hooking up the system

Perform the following procedures **1** to **7** to hook up your system using the supplied cords and accessories.



1 Connect the speakers.

There is no right or left designation for the speakers. Connect the speaker located on the right side as viewed from the front of the system to the SPEAKERS R jack, and the speaker located on the left side to the SPEAKERS L jack.

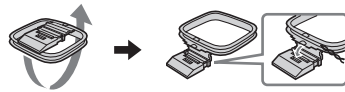


Note

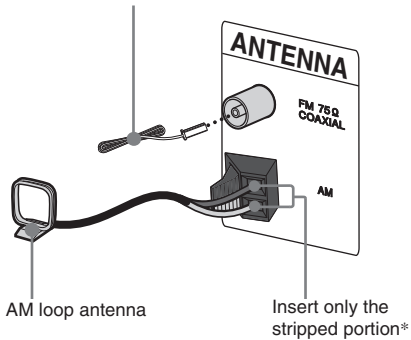
- Connect only one set of attached speakers.

2 Connect the FM and AM antennas.

Set up the AM loop antenna, then connect it.



Extend the FM lead antenna horizontally

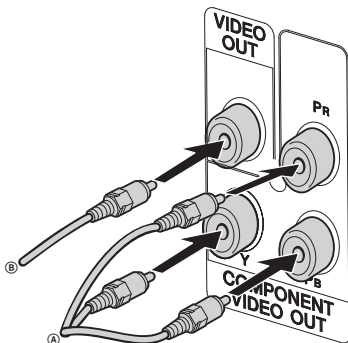


Note

- Keep the antennas away from the speaker cords.

3 Connect a TV.

Select one of the following connections.



Connection A

If your TV has component video input jacks, connect your TV to the **COMPONENT VIDEO OUT** jacks with a component video cord (not supplied).

If your TV is compatible with progressive format file (480P or 576P) signals, use this connection and set the progressive setting to “ON”.

Connection B

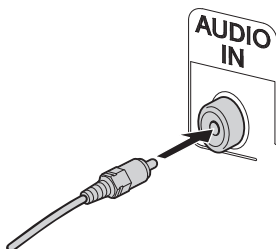
Connect the video input jack of your TV to the **VIDEO OUT** jack with the video cord (supplied).

When using a TV

Turn on the TV and select the video input so that you can view the pictures from this system.

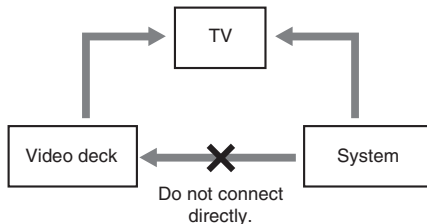
4 Connect the AUDIO IN jack.

You can connect the unit to a media player by a 3.5mm audio cable (not supplied).



When connecting a video deck

Connect the TV and the video deck using video and audio cords (not supplied) as shown below.



If you connect a video deck between this system and the TV, you may experience video leakage when watching the video signal from this system. Do not connect a video deck between this system and the TV.

Note

- Do not place the TV on this system.

5 Connect the power cord to a wall outlet.

If the supplied adapter on the plug does not fit your wall outlet, detach it from the plug (only for models equipped with an adapter).

6 Press I/⏻ to turn on the system.

“HELLO” appears on the front panel.

7 Set the color system to PAL or NTSC depending on the color system of your TV.

The color system in factory is set to PAL.

1 Turn on your TV and select the video input.

2 Press I/⏻ to turn on the system.

3 Press FUNCTION repeatedly to switch the function to DVD/CD.

Playback starts automatically if a disc with auto playback function is loaded. Press ■ twice to stop playback.

4 Press SETUP in stop mode.

The Setup Menu appears.

5 Press ← or → repeatedly to select “Preference Page”, then press ⊕.

6 Press ↑ or ↓ repeatedly to select “TV Type”, then press ⊕.

7 Press ↑ or ↓ repeatedly to select PAL/Multi/NTSC from the displayed list, then press ⊕.

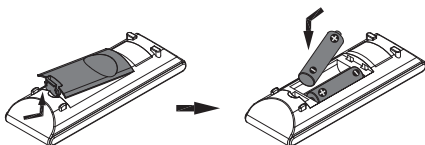
8 Press SETUP to turn off the Setup Menu.

Notes

- A disturbance on the TV screen may be present for a moment after changing the color system as described above.
- If you find the picture image may be distorted, you can operate as below to default color system setting:
 - Open the tray.
 - Press DISPLAY.
 - Press .

Inserting two R6 (size AA) batteries into the remote

Slide and remove the battery compartment lid, and insert the two R6 (size AA) batteries, side first, matching the polarities shown below.



Note

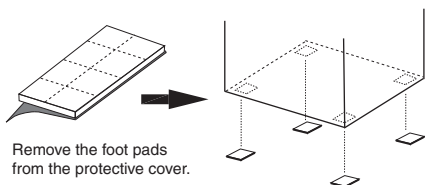
- If you do not use the remote for a long period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

Tip

- With normal use, the batteries should last for about six months. When the remote no longer operates the system, replace both batteries with new ones.

Attaching the foot pads

To attach the supplied speaker pads at each corner on the bottom of the speakers to prevent them from slipping.



Remove the foot pads from the protective cover.

Note

- Use caution when placing the speakers and/or speaker stands attached to the speakers on a specially treated (waxed, oiled, polished, etc.) floor, as staining or discoloration may result.

Selecting a language

DVD-V

VIDEO CD

C D

DATA-CD

DATA DVD

You can change the on-screen display language.

- 1 Turn on your TV and select the video input.
- 2 Press to turn on the system.
- 3 Press **FUNCTION** repeatedly to switch the function to DVD/CD.

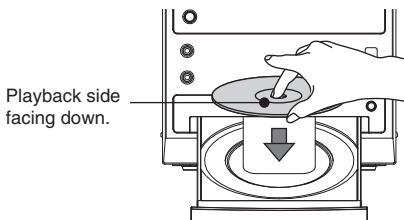
Playback starts automatically if a disc with auto playback function is loaded. Press to stop playback.
- 4 Press **SETUP**.

The Setup Menu appears.
- 5 Press or repeatedly to select “General Setup Page”, then press .
- 6 Press or repeatedly to select “OSD Lang”, then press .
- 7 Press or repeatedly to select a language from the displayed list, then press .
- 8 Press **SETUP** to turn off the Setup Menu.

Disc – Basic Play

Loading a disc

- 1 Press **▲** on the unit.
- 2 Place the disc on the disc tray.



- 3 Press **▶**.
The disc tray closed. The player starts playback.

Note

- Do not use a disc with tape, seals or paste on it as this may cause malfunction.

To save power in standby mode

Press **I/⏻** while the system is on. The system enters power saving mode.

Playing a disc

— Normal Play

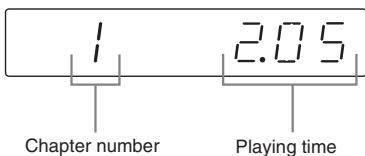
DVD-V

VIDEO CD

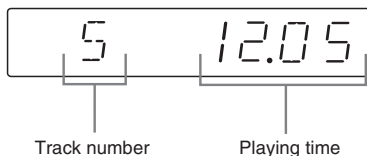
CD

Before playing a DVD or VIDEO CD, turn on your TV and select the video input. Depending on the DVD or VIDEO CD, some operations may be different or restricted. Refer to the operating instructions supplied with the disc.

Example: When playing a DVD



Example: When playing a CD



- 1 Press **FUNCTION** repeatedly to switch the function to DVD/CD.

Playback starts automatically if a disc with auto playback function is loaded.

- 2 Load a disc.

Playback starts automatically when you close the disc compartment.

If the playback does not start automatically, press **▶**.

Other operations

To	Press
Stop	■
Pause	⏸
Resume play after stop/pause	▶/⏸
Go to the next chapter, track, MP3/WMA/JPEG/DivX files or scene	▶▶
Go back to the preceding MP3/WMA/JPEG files	◀◀
Go back to the preceding chapter, track, DivX files or scene	◀◀ twice. When you press ◀◀ once, you can go to the beginning of the current chapter, track, or scene.
Turn off the sound temporarily	MUTING. To cancel, press it again or VOLUME + to adjust the sound volume.
Stop play and remove the desired disc	▲

To	Press
Locate a point quickly by playing a disc in fast forward or fast reverse (Scan) ¹⁾²⁾	▶▶/▶▶ or ◀◀/◀◀ while playing a disc. Each time you press ▶▶/▶▶ or ◀◀/◀◀ during scan, the playback speed changes. To return to normal speed, press ▶▶. Actual speeds may differ with some discs.
Watch frame by frame (Slow-motion Play) ³⁾	▶▶/▶▶ or ◀◀/◀◀ ⁴⁾ while the system is in pause mode. Each time you press ▶▶/▶▶ or ◀◀/◀◀ ⁴⁾ during Slow-motion Play, the playback speed changes. To return to normal playback speed, press ▶▶.
Enlarge the pictures (DVD/VIDEO CD only)	Press ZOOM. Each time you press the button, the zoom scale changes. To return to the normal size, press ZOOM repeatedly until the scale returns to the normal size.

¹⁾Except for JPEG image files.

²⁾Scan speeds may differ with some discs.

³⁾DVD VIDEO, DivX, VIDEO CD only.

⁴⁾Only DVD Video: the operation of Slow Reverse.

Resuming playback from the point you stopped the disc

— Resume Play (DVD/VIDEO CD/CD only)

This system memorizes the point where you stopped the disc so you can resume from that point.

1 While playing a disc, press ■ to stop playback.

“Press Play Key To Continue” appears on the TV.

2 Press ▶.

The system starts playback from the point where you stopped the disc in Step 1.

Notes

- Resume Play may not work properly with some discs.
- Depending on where you stop the disc, the system may not resume playback from exactly the same point.

TIP

- To play from the beginning of the disc, press ■ twice, then press ▶.

Playing a chapter/track by entering the number in Normal Play mode (on the remote only)

Press SHIFT + number buttons with 2 digits to enter the number of the chapter or track you want to play.

Example:

To play chapter/track number 5, press SHIFT + 0 + 5.

To play chapter/track number 30, press SHIFT + 3 + 0.

Note

- Press SHIFT + number buttons with 2 digits to enter the number of the chapter or track may not properly work with some discs.

Playing DVD using the menu

DVD-V

A DVD is divided into a lot of sections, which make up a picture or music feature. These sections are called “titles.” When you play a DVD which contains several titles, you can select the title you want using DVD TOP MENU. When you play a DVD that allow you to select items such as the language for the subtitles and the language for the sound, select these items using DVD MENU.

1 Press DVD TOP MENU or DVD MENU.

The disc’s menu appears on the TV screen. The contents of the menu vary from disc to disc.

2 Press ◀/▶/⬆/⬇ or SHIFT + number buttons to select the item you want to play or change, then press ⊕.

Playing VIDEO CD with PBC functions (Ver. 2.0)

— PBC Play

VIDEO CD

You can use PBC* menus on your TV screen to enjoy the disc's interactive software. The menu format and structure may differ depending on each disc.

* PBC: Playback Control

1 Press **FUNCTION** repeatedly to switch the function to DVD/CD.

2 Load a VIDEO CD with PBC functions (Ver. 2.0).

Playback starts and the PBC menu appears on the TV screen.

3 Press **SHIFT + number** buttons with 2 digits to select the item number you want.

4 Continue playback according to the instructions on the menus to enjoy interactive playback.



Refer to the operating instructions supplied with the disc, as the operating procedure may differ according to the VIDEO CD.

To go back to a previous menu

Press .

To cancel playback with PBC functions

Press **SHIFT + number** buttons to select the item number you want in stop mode.

To return to PBC playback, press  twice, then press .

Playing MP3/JPEG/DivX[®] files

DATA-CD DATA DVD

Before playing MP3 files, JPEG files or DivX files, turn on your TV and select the video input.

1 Press **FUNCTION** repeatedly to switch the function to DVD/CD.

2 Load a DATA CD or DATA DVD.

The file list appears.


Notes

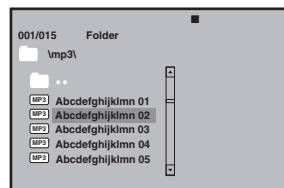
- The following discs take a longer time to start playback.
 - a disc recorded with complicated tree structure.
 - a disc recorded in Multi Session.
 - a disc to which data can be added (non-finalized disc).
- Some CD-R or CD-RW cannot be played on this system depending on file format.

3 Press **←/↑/↓/→** repeatedly to select the file you want to play.

Press **↑** or **↓** repeatedly to browse up and down through the contents in the folder.

Select a folder and press **+** or **→** to go inside the folder.

Select  .. and press **+** or **←** to return to the parent folder.



4 Press **▶/+**.

Playback starts from the selected file.

If you selected a JPEG file, the slide show starts.

Other operations

To	Do this
Stop play	Press ■ when playing an MP3 file or DivX file. Press DVD MENU when playing a JPEG file.
Pause	Press II . Press ▶/ to resume play.
Digest	Press ■ when playing a JPEG file.

Notes on files

- The system include albums that do not contain audio files and JPEG image files. When more than 648 files (including folders) + 2 default folders (‘.’ and ‘..’), 300 folders Max (including ‘.’ and ‘..’) are in the USB device, folders that are recognized by the system differ depending on the folder configuration.
- The system can play back the following files.

File	Extension of the file
MP3 file	“.mp3”
WMA file	“.wma”
JPEG image file	“.jpg” or “.jpeg”
MPEG	“.MPG”
DivX	“.DivX” or “.AVI”

The system will play back any data with the extension above, even if it is not MP3/WMA/JPEG format. Playing this data may generate a loud noise which could damage your speaker system. The system can play back to a depth of 25 folders only.

Notes on MP3/JPEG files

- The system supports MP3 files recorded with a bit rate of 32 to 320 kbps and a sampling frequency of 32/44.1/48 kHz for MPEG1 Audio Layer-3.
- If you put the extension “. MP3” to data not in MP3 format, the system cannot recognize the data properly and will generate a loud noise which could damage your speaker system.

Notes on DivX files

- The system may not play a DivX file when the file has been combined from two or more DivX files.
- The system cannot play a DivX file of size more than 640 (width) × 480 (height).
- Depending on the DivX file, the picture may be unclear or the sound may skip.
- The system cannot play some DivX files that are longer than 3 hours.
- Depending on the DivX file, the picture may pause or be unclear. In which case, it is recommended that you create the file at a lower bit rate. If the sound is still noisy, MP3 is the recommended audio format. Note,

however, this system does not conform to WMA (Windows Media Audio) format.

- Because of the compression technology used for DivX files, it may take some time after you press **▶** for the picture to appear.
- Depending on the DivX file, the sound may not match the pictures on the screen.
- The playback order may differ depending on the software used for creating the DivX file.

Disc – Various Play

Playing repeatedly

— Repeat Play

DVD-V

VIDEO CD

CD

DATA-CD






DATA DVD

The available of the repeat play options and shuffle play mode are vary depending on the disc type.





Press REPEAT repeatedly during play.

Each time you press the button, the setting changes cyclically as follows:



■ When playing a DVD

-  Chapter: Repeats the current chapter.
-  Title: Repeats the current title.
-  ALL: Repeats all the titles on the disc.
- Shuffle: Play a disc in shuffle order.
-  Shuffle: Repeats shuffle play.
-  Off: Repeats off.

■ When playing a CD

-  Track: Repeats the current track.
-  ALL: Repeats all the tracks on the disc.
- Shuffle: Play a disc in shuffle order.
-  Shuffle: Repeats shuffle play.
-  Off: Repeats off.

■ When playing a DATA CD/DATA DVD

- Shuffle: Play all the files in shuffle order.
- Random: Play all the files in random order.
- Single: Play the current file.
-  One: Repeats the current file.
-  Folder: Repeats the current folder.
- Folder: Play the current folder.


To cancel Repeat/Shuffle Play

■ When playing a DVD/CD



It pushes until “ Off” appears.

■ When playing an MP3/JPEG/DivX file

In MP3/JPEG, it pushes until “Folder” appears.

In DivX, it pushes until “ Off” appears.

Notes

- You cannot perform Repeat/Shuffle Play during PBC playback of VIDEO CD (page 12).
- Repeat Play is canceled when:
 - you turn off the system.
 - you open the disc compartment.
 - you switch to other functions.
- When playing the VIDEO CD/SVCD, you need to operate as below to default PBC Off:
 - Press  twice.
 - Press SHIFT + number buttons you want.
 - Press .

Using the on-screen display to search

DVD-V **VIDEO CD**

You can search for a title or chapter (DVD) and track (VIDEO CD). As titles, chapters and tracks are assigned unique numbers on the disc, so you can select the desired one by entering its number.

Note

- The search function does not work in Shuffle Play.




Searching for a title/chapter/track/scene, etc.

You can search a DVD VIDEO by title or chapter, and you can search a VIDEO CD/CD/DATA CD/DATA DVD by track, index, or scene. For a DATA CD/DATA DVD/USB device, you can search by folder or file. As titles and tracks are assigned unique numbers on the disc, you can select the desired title or track by entering its number. Or, you can search for a scene using the time code.



1 Press DISPLAY during play.

The Control Menu display appears on the TV screen.

■ When playing a DVD.

Menu		
	Title	01/01
	Chapter	03/13
	Audio	2CH English
	Subtitle	English 
Title Elapsed 0:08:54		

■ When playing a VCD.

Menu		
	Track	06/14
	Repeat	Off
	Time Disp.	Total Elapsed
Total Elapsed 0:21:24		

2 Press **↑** or **↓** to select an option, then press **+**.

3 Press **SHIFT** + number to jump to the selected option.

■ When playing a CD

1 Press  DISPLAY during play.

“Select Track:--/--” appears on the TV.

2 Press **SHIFT** + number buttons to select the desired track.

Playback starts from the selected track.

■ When playing an MP3/JPEG/DivX file

1 Press  DISPLAY during play.

“Select:---” appears on the TV.

2 Press **SHIFT** + number buttons to select the desired track.

Playback starts from the selected track.

Disc – Various Functions

Changing the sound/ subtitle/angle

DVD-V

VIDEO CD

CD

DATA-CD

DATA DVD

Changing the sound

When playing a DVD or DATA CD/DATA DVD (DivX files) recorded in multiple audio formats (PCM, Dolby Digital, MPEG audio), you can change the audio format. If the DVD is recorded with multilingual tracks, you can also change the language.

With VIDEO CD or CD, you can select the sound from the right or left channel and listen to the sound of the selected channel through both the right and left speakers. For example, when playing a disc containing a song with the vocals on the right channel and the instruments on the left channel, you can hear the instruments from both speakers by selecting the left channel.

Press AUDIO repeatedly during play.

Each time you press the button, the setting changes cyclically as follows:

■ When playing a DVD

Depending on the DVD, the choice of the language and audio format varies.

When the same language is displayed twice or more times, the DVD is recorded in multiple audio formats.

■ When playing a VIDEO CD/CD

- Mono Left: The sound of the left channel (monaural).
- Mono Right: The sound of the right channel (monaural).
- Stereo: The standard stereo sound.

■ SVCD (only audio track 1)

- [Stereo]: The standard stereo sound.
- [Mono Left]: The sound of the left channel (monaural).
- [Mono Right]: The sound of the right channel (monaural).

■ SVCD (audio track 1-2)

- [Audio 1]: The stereo sound of audio track 1.
- [Audio 2]: The stereo sound of audio track 2.

■ When playing a DivX file

The choice of DATA CD or DATA DVD audio signal formats differ, depending on the DivX file contained on the disc. The format is shown in the TV screen.

To preset the desired audio track

You can preset the system to the desired audio track with the operations described under “Changing the language”(page 17).

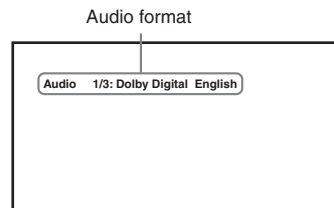
Notes

- When you play a DVD with the audio other than 2 channels, the sound is composed into 2 channels and output from the system speakers. However, sound is not output in “Multi Channel PCM” format.
- For discs not recorded in multiple audio format, you cannot change the sound.
- Depending on the DVD, you may not be able to change the sound even if the DVD is recorded in multiple audio format.
- For VIDEO CD and CD, the setting returns to “Stereo” when you turn off the system or open the disc compartment.
- During DVD playback, the sound may change automatically.

Displaying the audio information of the disc (DVD/DivX only)

When you press AUDIO repeatedly during play, the audio signal format (PCM, Dolby Digital) is displayed on the TV screen.

For example, in Dolby Digital format, multiple signals ranging from monaural to 5.1 channel signals can be recorded on a DVD. Depending on the DVD, the number of recorded channels may differ.



■ Subtitle

Switches the language of the subtitle. Select the language from the displayed list.

■ Disc Menu

Select the language for the DVD menu.

5 Press **↑** or **↓** repeatedly to select a language, then press **+**.

6 Press **SETUP** to turn off the Setup Menu.

To change the on-screen display language

Select “General Setup Page” in step 3, then select “OSD Lang”. For details, see “Selecting a language” (page 9).

Note

- When the selected language is not recorded on the DVD, one of the recorded languages is automatically selected.

Creating your own program

— Program Play

CD

You can play the contents of a disc in the order you want by arranging the order of the tracks on the disc to create your own program. You can program up to 20 tracks.

1 Press **PROGRAM**.

The Program Menu display appears on the TV screen.

■ CD

Program:Track (01-13)	
1 02	6 03
2 01	7 --
3 11	8 --
4 04	9 --
5 09	10 --

Exit Start NEXT ►►

2 Press **SHIFT + number** buttons with **2 digits** to select the desired track.

For example, select track [2].

Press **SHIFT + 0 + 2**.

3 Press **←/↑/↓/→** to select [Start] to play the Program.

Note

- When the program play is stopped or selected Repeat option, the program is canceled.

Using the setup display

— Setup Menu

DVD-V

VIDEO CD

DATA-CD

You can make various adjustments of items such as picture and sound.

1 Press **SETUP**.

The Setup Menu appears.

2 Press **←** or **→** repeatedly to select Setup Page, then press **+**.

3 Press **↑** or **↓** repeatedly to select an item, then press **+**.

4 Press **SETUP** to turn off the Setup Menu.

Note

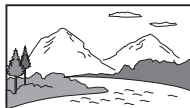
- If you are not able to access the [Preference Page], press **SETUP** to exit the menu. Then press **■** twice before you press the **SETUP** again.

General Setup Page

■ TV Display

Select the aspect ratio of the connected TV.

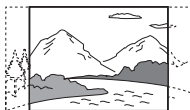
16:9 Select this when you connect a wide-screen TV or a TV with a wide mode function.



4:3 Letter Box Select this when you connect a 4:3 screen TV. Displays a wide picture with bands on the upper and lower portions of the TV screen.



4:3 Pan Scan Select this when you connect a 4:3 screen TV. The system automatically displays the wide picture on the entire screen and cuts off the portions that do not fit.



■ OSD Lang (On-Screen Display)

You can switch the display language on the TV screen.

■ Screen Saver

The screen saver prevents damage to the TV screen by avoiding exposure to a static image for too long.

[On]: Switch to TV screen saver mode when playback has been stopped or paused for more than 15 minutes.

[Off]: Screen Saver is canceled.

■ Last Memory

[On]: Resume playback last disc if stop playing by I/⏪.

[Off]: Disable resume playback.

When the resume playback memory is full, the resume playback point for the earliest disc is deleted.

■ Auto Standby

You can set the standby mode.

[On]: Standby automatically when stop, pause, no disc or eject mode for more than 30 minutes.

[Off]: Don't standby automatically.

Video Setup Page

■ Progressive

You can set the progressive signal that is output from the VIDEO OUT.

[On]: Turn on progressive scan mode.

Read the instructions on the TV and confirm your action by pressing ⊕.

[Off]: Turn off the progressive scan mode.

■ DivX VOD

[→]: Display the DivX registration code.

Preference Page

■ TV Type

Select the color system when you play a disc.

PAL	Changes the video signal of an NTSC disc and outputs it in the PAL system.
Multi	Outputs the video signal in the system of the disc, either PAL or NTSC. If your TV uses a dual system, select "Multi."
NTSC	Changes the video signal of a PAL disc and outputs it in the NTSC system.

■ Audio

Select the preferred audio language for DVDs with multiple sound tracks.

■ Subtitle

You can switch the language of the subtitle recorded on the DVD VIDEO.

■ Disc Menu

You can switch the language for the disc's menu.

■ Note

- If the selected audio/subtitle/disc menu language is not available on the DVD, the disc's default language will be used instead.

■ Parental

This is to prohibit viewing of discs that had exceeded the limits you set. It works only on the DVDs with parental level assigned to the complete disc or to certain scenes on the disc.

- 1 Press \uparrow or \downarrow repeatedly to select a rating level from 1 to 8, then press \oplus .**
- 2 Press SHIFT + the number buttons to enter your 6-digit password.**

■ Default

This feature enables you to reset all the setup menu option and your personal settings to the factory defaults, except for [Password] and [Parental] setting.

Press \oplus to confirm the default reset.

Password Setup Page

■ Password

Follow the instructions on the TV to set or change the password for locked discs and play restricted DVDs.

- 1 Press "SHIFT +000000" or your last set 6-digit password at "Old Password" section.**
- 2 Press SHIFT + a new 6-digit password at "New Password" section.**
- 3 Press SHIFT + the new 6-digit password again at "Confirm PWD" section to confirm.**
- 4 Select "OK" to exit the menu.**

System setup item list

When you press SETUP in stop mode, the following settings are displayed. The default settings are underlined.

Note

- To select "Preference Page", first cancel Resume Play (page 11).

General Setup Page (page 19)

TV Display	<u>16:9</u>
	4:3 Letter Box
	4:3 Pan Scan

OSD Lang	<u>ENG</u> (Select the language you want to use from the displayed language list.)
Screen Saver	<u>On</u> Off
Last Memory	<u>On</u> Off
Auto Standby	<u>On</u> Off

Video Setup Page (page 19)

Progressive	<u>On</u> <u>Off</u>
DivX VOD	\rightarrow

Preference Page (page 19)

TV Type	<u>PAL</u> Multi NTSC
Audio	<u>ENG</u> (Select the language you want to use from the displayed language list.)
Subtitle	<u>ENG</u> (Select the preferred subtitle language for DVD playback.)
Disc Menu	<u>ENG</u> (Select the language you want to use from the displayed language list.)
Parental	1 KID SAF 2 G 3 PG 4 PG 13 5 PGR 6 R 7 NC 17 <u>8 ADULT</u>
Default	Reset

Password Setup Page (page 20)

Password	Change
----------	--------

Exit Setup Menu

Select to exit the Setup Menu.

Presetting radio stations

You can preset up to 20 FM stations and 10 AM stations. You can then tune in any of those stations simply by selecting the corresponding preset number.

- 1** Press **FUNCTION** repeatedly to select “FM” or “AM”.
- 2** Press and hold **TUNING +/-** 2 seconds to start tuning until you find the desired radio station.
“SEARCH + or -” appears on the front panel until a radio station with sufficient signal strength is found.
- 3** Press **PROGRAM**.
“P 01” flashes on the front panel.
- 4** Press **PRESET +/-** to select a preset number that you want to store the current radio station.
- 5** Press **⊕** to store.

Tips

- Press **■** or **TUNING +/-** to stop auto-tuning in step 2.
- You can press **TUNING +/-** in step 2 to manual search radio frequency by one step. The current frequency will appear on the front panel (Manual Tuning).
- To reduce noise when listening to AM programs, press **AUDIO** repeatedly.

Listening to the radio

Preset radio stations in the tuner’s memory first (see “Presetting radio stations”(page 21)).

Press **FUNCTION** repeatedly to select “FM”.

Press **PRESET +/-** or **SHIFT + number** buttons to select a preset number.

“P 01” appears on the front panel.

To cut the sound

Press **MUTING**.

Press **MUTING** again or **VOLUME +** to restore sound.

To listen to an FM stereo program without stereo effect

When an FM stereo program has static noise, press **AUDIO** repeatedly until “MONO” appears on the front panel. There will be no stereo effect, but the reception will improve.

Tip

- To improve broadcast reception, adjust the supplied antennas, or connect a commercially available external antenna.

Sound Adjustment

Adjusting the sound

Generating a more dynamic sound (Dynamic Sound Generator X-tra)

Press **DSGX** on the unit.

Each time you press the button, the front panel display changes as follows:
DSGX OFF ↔ DSGX ON

Selecting a preset sound effect

Press **EQ**.

Each time you press the button, you can select a sound effect that most suits the video or music you play. The default setting are underlined.

<u>ROCK</u>	Enhanced low and high range for great sounding movie effects and atmosphere. Great for action movies and rock/pop music.
<u>JAZZ</u>	Clear mid and high range. Recreates the atmosphere of a live club with the artist just in front of you. Good for Jazz music and watching dramas.
<u>CLASSIC</u>	Ideal for listening to classical music and watching live concert DVDs.
<u>FLAT</u>	Flat and pure sound mode.

Singing along

You can sing along with a disc by connecting an optional microphone.

Adjusting the microphone

- 1 Connect an optional microphone to the MIC jack.
- 2 Press **MIC LEVEL**.
- 3 Press **↑** or **↓** to adjust the microphone control level.
- 4 Start playing the music.

After you have finished

Turn **MIC LEVEL** to **MIN** and disconnect the microphone from the MIC jack.

To use VIDEO CDs or DVDs

Turn on your TV and switch it to the appropriate video input.

Tip

- To sing karaoke of multiplex CD, press **AUDIO** on the remote repeatedly during play to select “Mono Left,” “Mono Right” (see “Changing the sound (page 16)”).

Adjusting MIC ECHO

- 1 Press **ECHO** in **MIC ON** mode.
- 2 Press **↑** or **↓** to adjust **ECHO** level.
ECHO 0 → ECHO 1 → ECHO 2
 ↑ ↓
ECHO 20.....ECHO 4 ← ECHO 3

Note

- It is not possible to activate **MIC** function for **AUDIO IN/TUNER** function.

External Device

Playing from USB device

You can play audio and video files (MP3/DivX/WMA files)/JPEG image files transferred in a USB device (not supplied) by connecting the USB device to the control unit.

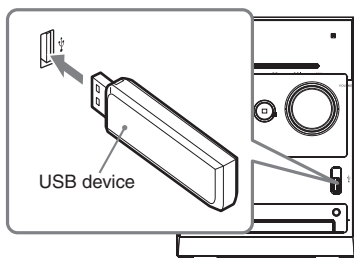
The audio format that can be played back by the system is MP3/WMA files* only.


* Files with copyright protection (Digital Rights Management) cannot be played by the system.

About playable USB devices

- When formatting a USB device, be sure to do so using the device itself, or dedicated formatting software for the device. Otherwise, you may be unable to properly transfer from the USB device to this system.

Connecting the USB device



- 1 Turn on the TV before you connect a USB device to the  (USB) port.
- 2 Press **FUNCTION** repeatedly until **"USB"** appears on the front panel display.
- 3 Press **↑** or **↓** repeatedly to select a folder, then press **▶**.

For more playback information, for detail, see "Play MP3/JPEG/DivX® files" (page 12).

Notes

- When you connect the USB device, make sure that the direction of the jack is correct.
- Do not forcibly insert the USB device, as this may cause the device to be damaged.

- Do not connect other device or objects besides the USB device.
- The following USB devices/situations can increase the time it takes to start playback:
 - a USB device transferred with a complicated tree structure.
 - when the audio files or JPEG image files in another folder have just been played back.
 - when there are many folders or files on the USB device.
- The file extension is refer to page 13 (Notes on files).
- Some USB devices cannot be played back on the system depending on the file format.
- The system may not be able to play an audio file depending on the kind of file.
- Do not connect the system and the USB device through a USB hub.
- With some connected USB devices, after an operation is performed, there may be a delay before it is performed by this system.
- This system does not necessarily support all the functions provided in a connected USB device.
- Do not save other types of files or unnecessary folders on a USB device that has audio files, JPEG image files or video files.
- Compatibility with all MP3/WMA encoding/writing softwares and USB devices cannot be guaranteed. Incompatible USB device may produce noise or interrupted audio or may not play at all.
- Before using the USB device, make sure that no virus-ridden files are on the USB device.

Before using the USB device with this system

Check the websites below for the information about compatible USB devices.

For customers in Europe:

<<http://support.sony-europe.com/>>

For customers in Latin America:

<<http://www.sony-latin.com/index.crp>>

For customers in Asia and Oceania:

<<http://www.sony-asia.com/support>>

Audio input

Simply connect your portable media player (e.g. MP3 player) to this unit to enjoy superb sound quality from your music collections.

- 1** Connect a 3.5mm stereo audio cable (not supplied) from the AUDIO IN jack on this unit to the “headphone” socket on your portable media player.
- 2** Press FUNCTION to select AUDIO IN.

Display

Viewing information about the disc in the on-screen display

You can check the playing time and remaining time of the current title, chapter or track.

Press **TIME** repeatedly.

Each time you press **TIME** while playing the disc, the display changes:

① → ② → ... → ① → ...

■ **CDDA Disc**

- ① [Single Elapsed]: Playing time of the current track.
- ② [Single Remain]: Remaining time of the current track.
- ③ [Total Elapsed]: Playing time of the current disc.*
- ④ [Total Remain]: Remaining time of the current disc.*

■ **VIDEO CD (with PBC On)**

- ① [Single Elapsed]: Playing time of the current track.
- ② [Single Remain]: Remaining time of the current track.
- ③ [Display Off]: No display.

■ **VIDEO CD (with PBC Off)**

- ① [Single Elapsed]: Playing time of the current track.
- ② [Single Remain]: Remaining time of the current track.
- ③ [Total Elapsed]: Playing time of the current disc.*
- ④ [Total Remain]: Remaining time of the current disc.*
- ⑤ [Display Off]: No display.

■ **DVD**

- ① [Title Elapsed]: Playing time of the current title.
- ② [Title Remain]: Remaining time of the current title.
- ③ [Chapter Elapsed]: Playing time of the current chapter.

④ [Chapter Remain]: Remaining time of the current chapter.

⑤ [Display Off]: No display.

Notes

- Each time you press **TIME** while playing the disc, playing time appears on the TV.
- If an MP3 file has the ID3 tag, the system will display **TITLE**, **ARTIST** and **ALBUM** from the ID3 tag information.
The system can support ID3 Ver 1.0/1.1/2.2/2.3.
- * When Repeat mode is Shuffle, the Total display is not done. Moreover, the Time display returns to Single Elapsed when changing into Shuffle at Total.

Changing the brightness of the front panel display

The brightness of the front panel display can be set to 2 levels.

The default setting is underlined.

Press **DIMMER** until the desired mode appears on the front panel display.

- [DIM OFF]: Bright.
- [DIM ON]: Dark.

Controlling the TV with the remote

You can use the following buttons on the remote to operate a Sony TV.

To	Press
Turn the TV on or off	TV I/⏻
Switch the TV's input source between the TV and other input sources	TV INPUT

Troubleshooting

Problems and remedies

Should you encounter a problem with your system, do the following:

- 1 Make sure the power cord and speaker cords are correctly and firmly connected.
- 2 Find your problem in the troubleshooting checklist below and take the indicated corrective action.

If the problem persists after doing all of the above, consult your nearest Sony dealer. Note that if service personnel changes some parts during repair, these parts may be retained.

General

There is no sound.

- Press VOLUME +.
- Make sure the headphones are not connected.
- Check the speaker connections (page 7).
- The system is in pause mode or in slow-motion play mode. Press ► on the unit to return to Normal Play.

There is severe hum or noise.

- A TV or VCR is placed too close to the unit. Move the unit away from the TV or VCR.
- Connect the system to a different wall outlet.
- Install a noise filter (commercially available) to the power cord.

The remote does not function.

- Remove the obstacle.
- Move the remote closer to the system.
- Point the remote at the system's sensor.
- Replace the batteries (R6/size AA).
- Locate the system away from the fluorescent light.
- Controlling the TV with the remote is only for Sony TV series, however, some TV products may also not work.

There is no microphone sound (except for European models).

- Press VOLUME + repeatedly to adjust the microphone volume.
- Press MIC LEVEL, then press ↑ to add the microphone control level
- Make sure the microphone is connected to MIC jack correctly.
- Make sure the microphone is turned on.

There is acoustic feedback.

- Reduce the volume.
- Move the microphone away from the speakers or change the direction of the microphone.

The color irregularity on a TV screen persists.

- Turn off the TV set once, then turn it on after 15 to 30 minutes. If the color irregularity still persists, place the speakers farther away from the TV set.

Speakers

Sound comes from one channel or unbalanced left and right volume.

- Check the speaker connection and speaker placement.

Sound lacks bass.

- Check that the speaker cords are connected correctly.

DVD/VIDEO CD/CD/MP3/JPEG/DivX/USB player

Play does not start.

- Open the disc compartment and check whether a disc is loaded.
- Wipe the disc clean (page 31).
- Replace the disc.
- Place the disc that this system can play (page 4).
- Place the disc correctly.
- Place the disc in the tray with the label side up.
- Remove the disc and wipe away the moisture on the disc, then leave the system turned on for a few hours until the moisture evaporates.
- Press ► to start play.
- The region code on the DVD does not match the system.

The number cannot be input.

- Press SHIFT + number buttons with 2 digits. For example, to play chapter/track number 5, press SHIFT + 0 + 5.

The sound skips.

- Wipe the disc clean (page 31).
- Replace the disc.
- Try moving the system to a place without vibration (e.g., on top of a stable stand).
- Try moving the speakers away from the system, or placing them on separate stands. When you listen to a track with bass sounds at high volume, the speaker vibration may cause the sound to skip.

Play does not start from the first track.

- Resume Play has been selected. Press **■** in stop mode, then start playback (page 11).
- The title, DVD or PBC menu automatically appears on the TV screen.

Playback stops automatically.

- Some discs may contain an auto pause signal. While playing such a disc, the playback stops at the auto pause signal.

You cannot perform some functions such as Stop, Search, Slow-motion Play, Repeat Play, Random Play.

- Depending on the disc, you may not be able to do some of the operations above. Refer to the operating instructions supplied with the disc.

DATA CD or DATA DVD takes a longer time to start playback.

- After the system reads all the files on the disc, playback may take more time than usual if:
 - the number of folders or files on the disc is very large.
 - the folder and file organization structure is very complex.

MP3 file cannot be played back.

- Recording was not performed according to the UFD/ISO9660 Level 1 or Level 2 format, or Joliet in the expansion format.
- The MP3 file does not have the extension “.MP3”.
- The data is not stored in MP3 format.
- The disc contains more than 300 folders.
- The folder contains more than 648 MP3 files.

The JPEG file cannot be played.

- The data CD / data DVD is not recorded in JPEG format that conforms to UFD/ISO9660 Level 1/ Level 2 or Joliet.
- The JPEG file does not have the extension “.JPG” or “.JPEG”.
- The data is not formatted in JPEG even though it has the extension “.JPG” or “.JPEG”.
- The disc contains more than 300 folders.
- The folder contains more than 648 JPEG files.

The DivX file cannot be played.

- The file is not created in DivX format.
- The file has an extension other than “.AVI”, “.DIVX.” or “.DIV”
- The DATA CD (DivX file)/DATA DVD is not created in a DivX format that conforms to ISO9660 Level 1/Level 2 or, Joliet/UDF.
- The DivX file is larger than 640 (width) × 480 (height).


The sound loses stereo effect when you play a VIDEO CD or CD.

- Press AUDIO repeatedly during play to select “Stereo” (see “Changing the sound (page 16)”).
- Make sure the system is connected appropriately.

The JPEG image file can not be played.

- It is larger than 3,072 (width) × 2,048 (height) in normal mode, or more than 2,000,000 pixels in Progressive JPEG image file which is mainly used on the internet WEB site.

When USB is not detected.

- Turn off the system and remove the USB device from the  (USB) port. Make sure there is no problem with the USB device.

Picture

There is no picture.

- Press **▶**.
- Check that the system is connected securely.
- The video cord is damaged. Replace it with a new one.
- Make sure you connect the system to the video input jack of your TV (page 8).
- Make sure you turn on the TV and operate the TV correctly.
- Make sure you select the video input on the TV so that you can view the pictures from the system.
- When you play a disc, make sure you set the color system correctly, according to your TV (color) system.
- Make sure you connect the system and your TV using the video cord (supplied) so that you can view the pictures.
- When connecting your TV and the VIDEO OUT jack of this system using the video cord (supplied), set the system to interlace format.
- You have set progressive format but your TV cannot accept the signal in progressive format.
- Even if your TV is compatible with progressive format (525p/625p) signals, the image may be affected when you set progressive format. In this

case, return the setting to interlace format (default setting).

Picture noise appears.

- Clean the disc.
- When you play a disc, the color system is different. Set the color system to match your TV (page 8).

The aspect ratio of the screen cannot be changed even though you set “TV Display” under “General Setup Page” in the Setup Menu when you play a wide picture.

- The aspect ratio is fixed on your DVD.
- Depending on the TV, you may not change the aspect ratio.

Messages do not appear on the screen in the language you want.

- Select the language you want for the on-screen display in “OSD Lang” under “General Setup Page” in the Setup Menu (page 20).

The language for the sound track cannot be changed.

- Multilingual tracks are not recorded on the DVD being played.
- The DVD prohibits changing the language for the sound track.

The subtitle language cannot be changed.

- Multilingual subtitles are not recorded on the DVD being played.
- The DVD prohibits changing the subtitles.

The subtitle cannot be turned off.

- The DVD prohibits turning off subtitles.

The angles cannot be changed.

- Multi-angles are not recorded on the DVD being played.
- The DVD prohibits changing the angles.

Tuner

Severe hum or noise/stations cannot be received.

- Set the proper band and frequency (page 21).
- Connect the antenna properly (page 7).
- Find a place and an orientation that provide good reception, then set up the antenna again. If you cannot obtain good reception, we recommend you connect a commercially available external antenna.
- The supplied FM lead antenna receives signals along its entire length, so make sure you extend it fully.

- Locate the antennas as far away from the speaker cords as possible.
- Consult your nearest Sony dealer if the supplied AM antenna has come off the plastic stand.
- Try turning off surrounding electrical equipment.

A stereo FM program cannot be received in stereo.

- Press AUDIO repeatedly until “STEREO” appears.

Optional components

There is no sound.

- Refer to General item “There is no sound” (page 28) and check the condition of the system.
- Connect the component properly (page 8) while checking:
 - if the cords are connected properly.
 - if the cord plugs are firmly inserted all the way.
- Turn on the connected component.
- Refer to the operating instructions supplied with the connected component and start playing.

To return the settings to the default settings*, perform reset as follows:

The operation can only be set using the TV screen.

- 1** Press FUNCTION repeatedly to switch the function to DVD/CD.

Playback starts automatically if a disc with auto playback function is loaded. Press ■ twice to stop playback.

- 2** Remove the disc if it is loaded.

- 3** Press SETUP in stop mode.

The Setup Menu appears.

- 4** Press ← or → repeatedly to select “Preference Page”, then press ⊕.

- 5** Press ↑ or ↓ repeatedly to select “Default”, then press ⊕.

“Reset” is selected.

- 6** Press ⊕.

It takes a few seconds to complete. Do not press I/⏏ when resetting the system.

* Except for Parental Control settings

Messages

One of the following messages may appear or flash on the front panel display during operation.

DVD/VIDEO CD/CD/MP3/JPEG/ DivX

LOADING

The disc information is being loaded.

NO DISC

- There is no disc in the unit.
 - A disc that cannot be played was loaded.
-

OPEN

The disc compartment cover is open.

REG ERR

A disc with an unsupported Region code was loaded.

Additional Information

Precautions

On operating voltage

Before operating the system, check that the operating voltage of your system is identical with the voltage of your local power supply.

On safety

- The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.
- Unplug the system from the wall outlet (mains) if it is not to be used for an extended period of time. To disconnect the power cord (mains lead), pull it out by the plug. Never pull the cord itself.
- Should any solid object or liquid fall into the system, unplug the system and have it checked by qualified personnel before operating it any further.
- AC power cord must be changed only at the qualified service shop.

On placement

- Do not place the system in an inclined position.
- Do not place the system in locations where it is:
 - Extremely hot or cold
 - Dusty or dirty
 - Very humid
 - Subject to vibrations
 - Subject to direct sunlight.
- Use caution when placing the unit or speakers on surfaces that have been specially treated (with wax, oil, polish, etc.) as staining or discoloration of the surface may result.

On heat buildup

- Although the system heats up during operation, this is not a malfunction.
- Place the system in a location with adequate ventilation to prevent heat buildup in the system.
- If you continuously use this system at a high volume, the cabinet temperature of the top, side and bottom rises considerably. To avoid burning yourself, do not touch the cabinet.
- To prevent a malfunction, do not cover the ventilation hole for the cooling fan.

In case color irregularity is observed on nearby a TV screen

With the magnetically shielded type of speaker system, the speakers can be installed near a TV set. However, color irregularity may still be observed on the TV screen depending on the type of your TV set.

If color irregularity is observed...

Turn off the TV set once, then turn it on after 15 to 30 minutes.

If color irregularity is observed again...

Place the speakers farther away from the TV set.

IMPORTANT NOTICE

Caution: This system is capable of holding a still video image or on-screen display image on your television screen indefinitely. If you leave the still video image or on-screen display image displayed on your TV for an extended period of time you risk permanent damage to your television screen. Projection televisions are especially susceptible to this.

On operation

- If the system is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens inside the CD/DVD player. Should this occur, the system will not operate properly. Remove the disc and leave the system turned on for about an hour until the moisture evaporates.
- When you move the system, take out any disc.

If you have any questions or problems concerning your system, please consult your nearest Sony dealer.

Notes on discs

- Before playing, clean the disc with a cleaning cloth. Wipe the disc from the center out.
- Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.
- Do not expose the disc to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight.
- Do not use discs encircled with a protection ring. This may cause a malfunction to the system.
- When using discs that have glue or similar tacky substance on the label side of the disc or that used a special ink when the label was printed, there is a chance that the disc or label may become attached to parts inside this unit. When this occurs, it may not be possible to remove the disc, and may also cause this unit to malfunction. Be sure to check that the label side of the disc is not sticky before using. The following types of disc should not be used:
 - Rental or used discs with attached seals where the glue extends beyond the seal. The perimeter of the seal on the disc is tacky.
 - Discs that have labels printed using a special ink that feels tacky when touched.

Cleaning the cabinet

Clean the cabinet, panel and controls with a soft cloth slightly moistened with mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as thinner, benzine or alcohol.

Specifications

CMT-DX400

Amplifier section

Power output (rated): 20 + 20 watts (6 ohm at 1 kHz, 1% THD)

Continuous RMS power output (reference): 25 + 25 watts (6 ohm at 1 kHz, 10% THD)

The following measured at 220 V – 240 V AC, 50/60 Hz

Power output (rated): 20 + 20 watts (6 ohm at 1 kHz, 1% THD)

Continuous RMS power output (reference): 25 + 25 watts (6 ohm at 1 kHz, 10% THD)

* The system is not support C-Load testing.

Inputs

Audio In (3.5mm stereo jack):

sensitivity 700 mv,
impedance 10 kilohms

MIC (monaural mini jack): sensitivity 4 mV,
impedance 10 kilohms

Outputs

VIDEO OUT (phono jack):

max. output level
1 Vp-p, unbalanced,
Sync negative,
load impedance 75 ohm

COMPONENT VIDEO OUT:

Y: 1 Vp-p, 75 ohm
Pb, Pr: 0.7 Vp-p, 75 ohm

PHONES (stereo mini jack):

accepts headphones of
32 ohm

SPEAKER:

accepts impedance of
6 ohm

Disc player section

System:	Compact disc and digital audio and video system
Laser:	Laser Diode Properties <ul style="list-style-type: none">• Emission duration: continuous• Laser Output*: Less than 1000 μW * This output is the value measurement at a distance of 200mm from the objective lens surface on the Optical Pick-up Block with 7mm aperture. Semiconductor laser (DVD: $\lambda=650$ nm, CD: $\lambda=790$ nm)
Frequency response:	DVD (PCM 48 kHz): 20 Hz – 20 kHz (± 1 dB) CD: 20 Hz – 20 kHz (± 1 dB)

USB section

Supported bit rate	
MP3(MPEG/Audio Layer-3):	32 kbps – 320 kbps
WMA:	48 kbps – 192 kbps
Sampling frequencies	
MP3(MPEG/Audio Layer-3):	32/44.1/48 kHz
WMA:	44.1 kHz
USB port (maximum current):	5V 500mA

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range:	87.5 MHz – 108.0 MHz (50 kHz step)
Antenna:	FM lead antenna
Antenna terminals:	75 ohm unbalanced
Intermediate frequency:	10.7 MHz

AM tuner section

Tuning range	
Singapore models:	531 kHz – 1,602 kHz/ 9 kHz (Default) 530 kHz – 1,610 kHz/ 10 kHz
Antenna:	AM loop antenna
Antenna terminals:	External antenna terminal
Intermediate frequency:	450 kHz

Speaker

Speaker system(SS-CDX400)	2 - way, Bass reflex, Magnetically shield
Speaker units	
Woofers:	100 mm
Tweeters:	40 mm
Nominal impedance:	6 ohm
Dimensions (w/h/d):	Approx. 140 x 240 x 200 mm
Front speaker weight:	2.0 kg

General

Power requirements	
India models:	220 V – 240 V AC, 50/60 Hz
Power consumption:	
On:	25 watts
Standby:	< 0.5 watts
Dimensions (w/h/d) (excl. speakers):	Approx. 175 x 240 x 210 mm
Mass (excl. speakers):	2.4 kg
Supplied accessories:	Remote Commander (1) AM loop antenna (1) FM lead antenna (1) Video cable (1) Speaker pads (8)

Design and specifications are subject to change without notice.

Glossary

Auto Pause

An automatic pause according to the signal encoded on the disc while playing a VIDEO CD. If the CD/DVD player does not resume play for a long time, press ► on the unit to resume play manually.

Chapter

Sections of a picture or a music piece on a DVD that are smaller than titles. A title is composed of several chapters. Each chapter is assigned a chapter number enabling you to locate the chapter you want.

DivX® video

Digital video technology created by DivX, Inc. Videos encoded with DivX technology are among the highest quality with a relatively small file size.

Dolby Digital

This sound format for movie theaters is more advanced than Dolby Surround Pro Logic. In this format, the surround speakers output stereo sound with an expanded frequency range and a subwoofer channel for deep bass is independently provided. This format is also called “5.1” because the subwoofer channel is counted as 0.1 channel (since it functions only when a deep bass effect is needed). All six channels in this format are recorded separately to realize superior channel separation. Furthermore, since all the signals are processed digitally, less signal degradation occurs.

DVD

A disc that contains up to 8 hours of moving pictures even though its diameter is the same as a CD.

The data capacity of a single-layer and single-sided DVD, at 4.7 GB (Giga Byte), is 7 times that of a CD. Furthermore, the data capacity of a dual-layer and single-sided DVD is 8.5 GB, a single-layer and double-sided DVD 9.4 GB, and a dual-layer and double-sided DVD 17 GB.

The picture data uses the MPEG 2 format, one of the worldwide standards of digital compression technology. The picture data is compressed to about 1/40 of its original size. The DVD also uses the variable rate coding technology that changes the data to be allocated according to the status of the picture.

The audio data is recorded in Dolby Digital as well as in PCM, allowing you to enjoy more realistic audio presence.

Furthermore, various advanced functions such as the multi-angle, multilingual, and Parental Control functions are provided with the DVD.

DVD-RW

A DVD-RW is a recordable and rewritable disc that is the same size as a DVD VIDEO. The DVD-RW has two different modes: VR mode and Video mode. DVD-RWs created in Video mode have the same format as a DVD VIDEO, while discs created in VR (Video Recording) mode allow the contents to be programmed or edited.

DVD+RW

A DVD+RW (plus RW) is a recordable and rewritable disc. DVD+RWs use a recording format that is comparable to the DVD VIDEO format.

File

Sections of a picture or a music piece on a DATA CD (MP3/JPEG/DivX file) or DATA DVD (MP3 / JPEG / DivX file).

Film based software, Video based software

DVD can be classified as Film based or Video based software. Film based DVD contain the same images (24 frames per second) that are shown at movie theaters. Video based DVD, such as television dramas or sit-coms, displays images at 30 frames (or 60 fields) per second.

Index (CD) / Video Index (VIDEO CD)

A number that divides a track into sections to easily locate the point you want on a VIDEO CD or a CD. Depending on the disc, no indexes may be recorded.

Interlace format (Interlaced scanning)

Interlace format shows every other line of an image as a single “field” and is the standard method for displaying images on television. The even number field shows the even numbered lines of an image, and the odd numbered field shows the odd numbered lines of an image.

Menu Playback

Playback using the menu screens recorded on VIDEO CD with PBC functions. You can enjoy simple interactive software using the menu playback function.

Multi-angle function

Various angles, or viewpoints of the video camera, for a scene are recorded on some DVD.

Multilingual function

Several languages for the sound or subtitles in a picture are recorded on some DVD.

Multi Session

This is a recording method that enables adding of data using the Track-At-Once method. Conventional CD begin at a CD control area called the Lead-in and end at an area called Lead-out. A Multi Session CD is a CD having multiple sessions, with each segment from Lead-in to Lead-out regarded as a single session. CD-Extra: This format records audio (audio CD data) on the tracks in session 1 and data on the tracks in session 2.

Parental Control

A function of the DVD to limit playback of the disc by the age of the users according to the limitation level in each country/region. The limitation varies from disc to disc; when it is activated, playback is completely prohibited, violent scenes are skipped or replaced with other scenes and so on.

Playback Control (PBC)

Signals encoded on VIDEO CD (Version 2.0) to control playback. By using menu screens recorded on VIDEO CD with PBC functions, you can enjoy playing simple interactive programs, programs with search functions, and so on.

This system conforms to Ver. 1.1 and Ver. 2.0 of VIDEO CD standards. You can enjoy two kinds of playback depending on the disc type.

VIDEO CD without PBC functions (Ver. 1.1 discs)

Enjoy video playback (moving pictures) as well as music.


VIDEO CD with PBC functions (Ver. 2.0 discs)

Play interactive software using menu screens displayed on the TV screen (PBC Playback), in addition to the video playback functions of Ver. 1.1 discs. Moreover, you can play high-resolution still pictures, if they are included on the disc.

Progressive format (sequential scanning)

In contrast to the Interlace format, the progressive format can reproduce 50 to 60 frames per second by reproducing all scanning lines (525 lines for the NTSC system, 625 lines for the PAL system). The overall picture quality increases and still images, text, and horizontal lines appear sharper. This format is compatible with the 525 or 625 progressive format.

Region Code

This system is used to protect copyrights. A region number is allocated on each DVD system or DVD disc according to the sales region. Each region code is shown on the system as well as on the disc packaging. The system can play the discs that match its region code. The system can also play discs with the “” mark. Even when the region code is not shown on the DVD, the region limit may still be activated.

Title

The longest sections of a picture or a music piece on a DVD; a movie, etc., for a picture piece on video software; or an album, etc., for a music piece on audio software. Each title is assigned a title number enabling you to locate the title you want.

Track

Sections of a picture or a music piece on a CD or VIDEO CD. Each track is assigned a track number enabling you to locate the track you want.

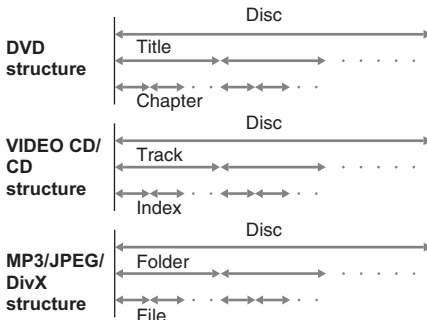
VIDEO CD

A compact disc that contains moving pictures. The picture data uses the MPEG 1 format, one of the worldwide standards for digital compression technology. The picture data is compressed to about 1/140 of its original size. Consequently, a 12 cm VIDEO CD can contain up to 74 minutes of moving pictures.

VIDEO CD also contain compact audio data. Sounds outside the range of human hearing are compressed while the sounds we can hear are not compressed. VIDEO CD can hold 6 times the audio information of conventional audio CD. There are 2 versions of VIDEO CD.

- Version 1.1: You can play only moving pictures and sounds.
- Version 2.0: You can play high-resolution still pictures and enjoy PBC functions.

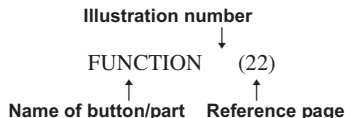
This system conforms to both versions.



List of button locations and reference pages

How to use this page

Use this page to find the location of buttons and other parts of the system that are mentioned in the text.



Main unit

ALPHABETICAL ORDER

A - O

- Disc compartment **9** (10)
- Display window **16**
- DSGX **15** (22)
- FUNCTION **6** (8, 9, 10, 12, 21, 23, 24, 28)
- MIC jack **7** (22)

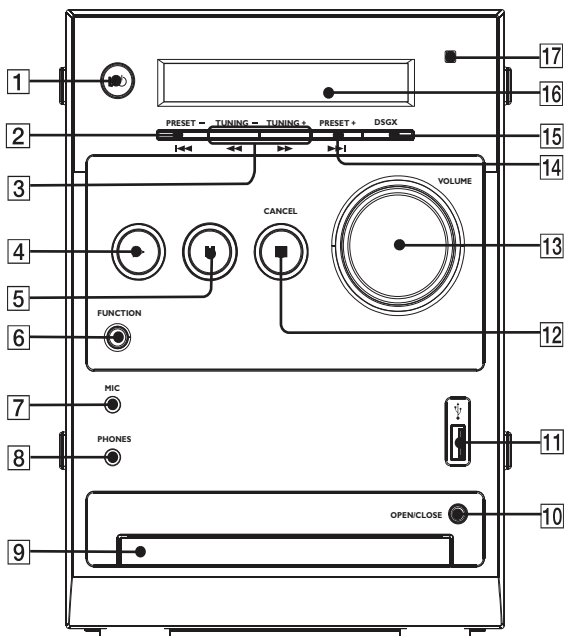
P - Z

- || (Pause) **5** (10)
- PHONES jack **8**
- PRESET +/- **14****2** (21)
- I/⏻ (on/standby) **1** (10)
- Remote sensor **17**
- TUNING +/- **3** (21)
- ↔ USB port **11** (23)
- VOLUME **13** (10)

BUTTON DESCRIPTIONS

Disc operation buttons

- OPEN/CLOSE **10** (10)
- ◀◀/▶▶ (rewind/fast forward) **3** (10)
- ◀◀/▶▶| (go back/forward) **2****14** (10)
- (stop) **12** (10)
- ▶ (play) **4** (10)



Remote control

ALPHABETICAL ORDER

A - N

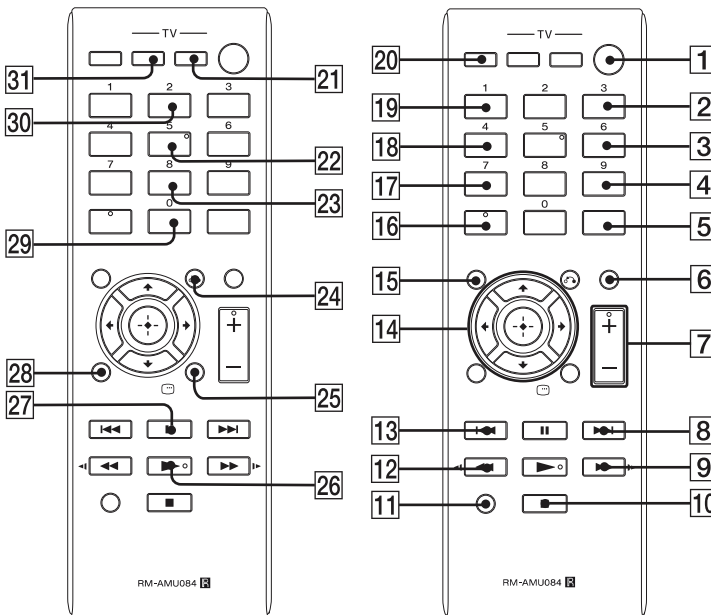
ANGLE **5** (17)
 AUDIO **16** (16)
 DIMMER **23** (25)
 DVD MENU **24** (11)
 DVD TOP MENU **15** (11)
 ECHO **22** (22)
 EQ **18** (22)
 FUNCTION **2** (8, 9, 10, 12, 21, 23, 24, 28)
 INPUT **31** (25)
 MIC LEVEL **3** (21)
 MUTING **6** (21)
 Number buttons
19 30 2 18 22 3 17 23 4 29
 (11, 12, 15, 18, 20)

P - Z

PRESET + **8** (21)
 PRESET - **13** (21)
 PROGRAM **19** (18)
 REPEAT **30** (14)
 SETUP **28** (8, 9, 17, 18)
 SHIFT **11** (11, 12, 15, 18, 20)
 SLEEP **20** (17)
 SUBTITLE **29** (17)
 TIME **4** (25)
 TUNING + **9** (21)
 TUNING - **12** (21)
 VOLUME +/- **7** (10)
 ZOOM **17** (10)

BUTTON DESCRIPTIONS

I/⏻ (on/standby) **1** (10)
 TV I/⏻ **21** (25)
 ◀ SLOW **12** (10)
 SLOW ▶▶ **9** (10)
 ▶▶ (fast forward) **9** (10)
 || (pause) **27** (10)
 ◀◀ (rewind) **12** (10)
 ◀/↑/↓/▶, ⊕ **14** (9, 11, 12, 15, 17, 18)
 ☰ DISPLAY **25** (9, 15)
 ▶▶ (go forward) **8** (10)
 ■ (stop) **10** (10)
 ▶ (play) **26** (10)
 ◀◀ (go back) **13** (10)
 ↻ (Return) **24** (12)



- The ▶▶, ECHO, AUDIO and VOLUME +/- buttons have tactile dots. Use the tactile dots as references when operating the system.
- Press SHIFT + number buttons, ◀ SLOW, SLOW ▶▶ when you used their functions.

