

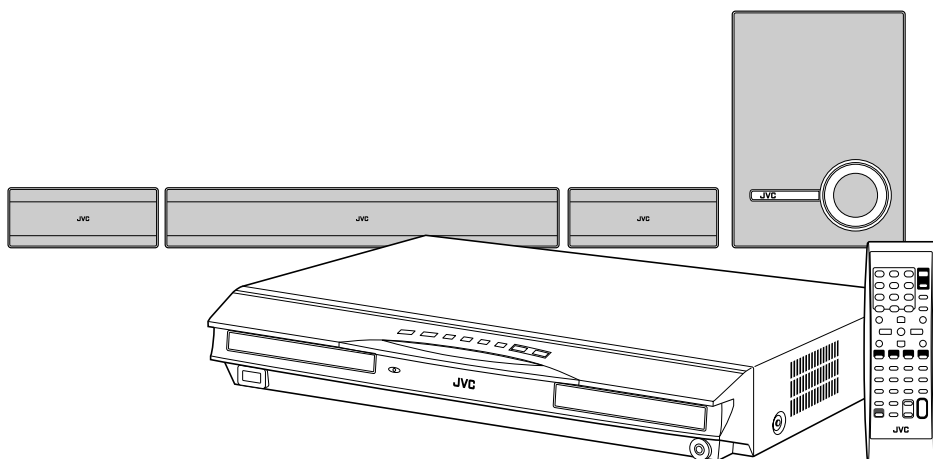
# JVC



## DVD DIGITAL CINEMA SYSTEM

# TH-U1

Consists of XV-THU1, SP-THU1W, SP-THU1F and SP-THU1C



**MPEG-4**  
ASF PLAYBACK

*Radio Data System*

## INSTRUCTIONS

# Warnings, Cautions and Others

## IMPORTANT for the U.K.

**DO NOT** cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

**BE SURE** to replace the fuse only with an identical approved type, as originally fitted.

If nonetheless the mains plug is cut off ensure to remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

If this product is not supplied fitted with a mains plug then follow the instructions given below:

## IMPORTANT

**DO NOT** make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code:

Blue: Neutral

Brown: Live

As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

**IF IN DOUBT - CONSULT A COMPETENT ELECTRICIAN.**

## IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover or cabinet. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED INSIDE THE UNIT.

|   |   |   |   |   |  |
|---|---|---|---|---|--|
| CAUTION<br>VISIBLE AND/OR<br>INVISIBLE CLASS 1M<br>LASER RADIATION<br>WHEN OPEN, DO NOT<br>VIEW DIRECTLY WITH<br>OPTICAL INSTRUMENTS.<br>IEC00025-1:2001<br>EN6133 OPTQUES. | ATTENTION<br>RAYONNEMENT LASER<br>VISIBLE ET/OU<br>INVISIBLE DE CLASSE 1M<br>UNIQUE POUR OUVERT.<br>NE PAS REGARDER<br>DIRECTEMENT AVEC<br>DES INSTRUMENTS<br>OPTIQUES.<br>EN6133 OPTIQUES. | AVISO<br>RADIACION LASER<br>DE CLASE 1M<br>VISIBLE Y/O INVISIBLE<br>CUANDO ESTE<br>ABIERTO. NO MIRAR<br>DIRECTAMENTE<br>CON INSTRUMENTAL<br>OPTICA.<br>EN6133 OPTICO. | WARNING<br>RADIATION LASER<br>VISIBLE AND/OR<br>INVISIBLE CLASS 1M<br>LASER RADIATION<br>WHEN OPEN, DO NOT<br>VIEW DIRECTLY WITH<br>OPTICAL INSTRUMENTS.<br>IEC00025-1:2001<br>EN6133 OPTIQUES. | 注意<br>レーザー光線が<br>放射される状態<br>で、直接または<br>光学器具を用いて<br>覗き込むことは<br>危険です。<br>EN6133 OPTIQUES. | CAUTION<br>VISIBLE AND/OR<br>INVISIBLE CLASS 1M<br>LASER RADIATION<br>WHEN OPEN, DO NOT<br>VIEW DIRECTLY WITH<br>OPTICAL INSTRUMENTS.<br>IEC00025-1:2001<br>EN6133 OPTIQUES. |
|---|---|---|---|---|--|

## CAUTION

To reduce the risk of electrical shocks, fire, etc.:

1. Do not remove screws, covers or cabinet.
2. Do not expose this appliance to rain or moisture.

## CAUTION— $\phi$ /I button!

Disconnect the mains plug to shut the power off completely (the STANDBY lamp goes off). When installing the apparatus, ensure that the plug is easily accessible.

The  $\phi$ /I button in any position does not disconnect the mains line.

- When the system is on standby, the STANDBY lamp lights red.
- When the system is turned on, the STANDBY lamp goes off.

The power can be remote controlled.

## CAUTION

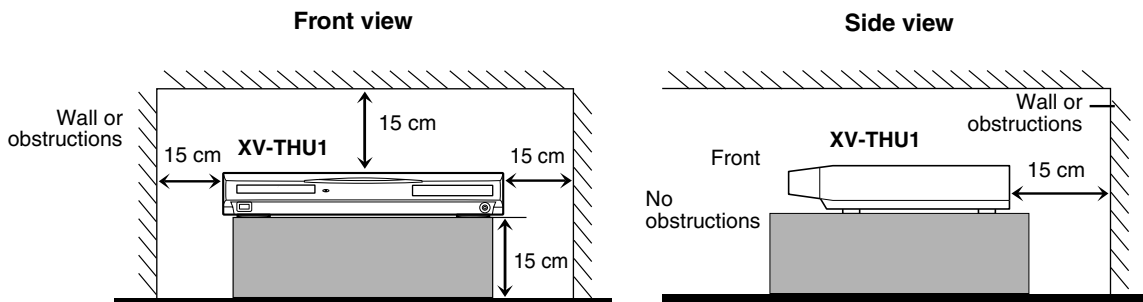
- Do not block the ventilation openings or holes. (If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)
- Do not place any naked flame sources, such as lighted candles, on the apparatus.
- When discarding batteries, environmental problems must be considered and local rules or laws governing the disposal of these batteries must be followed strictly.
- Do not expose this apparatus to rain, moisture, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

## CAUTION

- Excessive sound pressure from earphones or headphones can cause hearing loss.

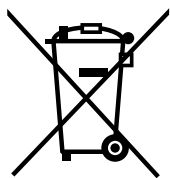
### Caution: Proper Ventilation

To avoid risk of electric shock and fire and to protect from damage, place the apparatus on a level surface. The minimal clearances are shown below:



## Information for Users on Disposal of Old Equipment

### [European Union]



This symbol indicates that the electrical and electronic equipment should not be disposed as general household waste at its end-of-life. Instead, the product should be handed over to the applicable collection point for the recycling of electrical and electronic equipment for proper treatment, recovery and recycling in accordance with your national legislation.

By disposing of this product correctly, you will help to conserve natural resources and will help prevent potential negative effects on the environment and human health which could otherwise be caused by inappropriate waste handling of this product. For more information about collection point and recycling of this product, please contact your local municipal office, your household waste disposal service or the shop where you purchased the product.

### Attention:

This symbol is only valid in the European Union.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

### (Business users)

If you wish to dispose of this product, please visit our web page [www.jvc-europe.com](http://www.jvc-europe.com) to obtain information about the take-back of the product.

### [Other Countries outside the European Union]

If you wish to dispose of this product, please do so in accordance with applicable national legislation or other rules in your country for the treatment of old electrical and electronic equipment.

Dear Customer,

This apparatus is in conformance with the valid European directives and standards regarding electromagnetic compatibility and electrical safety.

European representative of Victor Company of Japan, Limited is:

JVC Technology Centre Europe GmbH

Postfach 10 05 52

61145 Friedberg

Germany

# Table of contents

---

|  |           |  |           |
|--|-----------|--|-----------|
| <b>Introduction .....</b>                                  | <b>2</b>  | <b>Playback .....</b>  | <b>16</b> |
| Notes on handling .....                                    | 2         | Basic Playback .....   | 16        |
| Supplied accessories .....                                 | 2         | One Touch Replay .....   | 18        |
| <b>About discs .....</b>                                   | <b>3</b>  | Fast-forward/fast-reverse search .....   | 18        |
| Playable disc types .....                                  | 3         | Skipping to the beginning of a desired selection .....                         | 18        |
| Playable file types .....                                  | 4         | Skipping by intervals of about 5-minutes.....                                  | 19        |
| <b>Index of parts and controls .....</b>                   | <b>5</b>  | Locating a desired title/group/program/playlist using the number buttons ..... | 19        |
| <b>Connections .....</b>                                   | <b>7</b>  | Selecting the desired program/playlist from the control display .....          | 19        |
| Connecting the speakers and the subwoofer .....            | 7         | <b>Advanced operations .....</b>   | <b>20</b> |
| Speaker layout .....                                       | 8         | Using the surround mode .....  | 20        |
| Connecting the FM and AM (MW) antennas .....               | 9         | Using the on-screen bar .....  | 21        |
| Connecting a TV .....                                      | 10        | Playing from a specified position on a disc .....                              | 23        |
| Connecting a USB mass storage class device .....           | 10        | Using the file control display .....   | 25        |
| Connecting the power cord .....                            | 10        | Resume Playback .....  | 25        |
| <b>Operating the TV .....</b>                              | <b>11</b> | Selecting a view angle .....   | 26        |
| <b>Basic operations .....</b>                              | <b>12</b> | Selecting the subtitle .....   | 26        |
| Turning the system on/off .....                            | 12        | Selecting the audio .....  | 27        |
| Selecting the source to play .....                         | 13        | Special picture playback .....   | 27        |
| Adjusting the volume [VOLUME] .....                        | 13        | Program Playback .....   | 28        |
| Listening with headphones (not supplied) .....             | 13        | Random Playback .....  | 29        |
| Turning off the sound temporarily [MUTING] .....           | 13        | Repeat Playback .....  | 29        |
| Adjusting the brightness of the indications [DIMMER] ..... | 13        | Tray lock .....  | 31        |
| Sleep Timer [SLEEP] .....                                  | 14        | <b>Setting DVD preferences .....</b>   | <b>32</b> |
| Changing video output mode .....                           | 14        | Using the setup menus .....  | 32        |
| Switching the speaker position mode .....                  | 15        | Menu description .....   | 32        |
| Adjusting the output level of the speakers .....           | 15        | <b>Tuner operations .....</b>  | <b>35</b> |
| Balance Setting .....                                      | 15        | Manual tuning .....  | 35        |
|  |           | Preset tuning .....  | 35        |
|  |           | Selecting the FM reception mode .....  | 36        |
|  |           | Using the Radio Data System when receiving FM stations .....                   | 36        |
|  |           | <b>References .....</b>  | <b>39</b> |
|  |           | Maintenance .....  | 39        |
|  |           | Troubleshooting .....  | 39        |
|  |           | Specifications .....   | 40        |

# Introduction

Thank you for purchasing a JVC product. Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the system.

## Notes on handling

### ■ Important cautions

#### Installation of the system

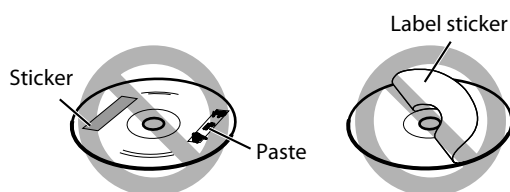
- Select a place which is level, dry and neither too hot nor too cold; between 5°C and 35°C.
- Leave sufficient distance between the system and the TV.
- Do not use the system in a place subject to vibration.

#### Power cord

- Do not handle the power cord with wet hands.
- A small amount of power is always consumed while the power cord is connected to the wall outlet.
- When unplugging the power cord from the wall outlet, always pull on the plug, not the power cord.

#### To prevent malfunctions of the system

- There are no user-serviceable parts inside. If anything goes wrong, unplug the power cord and consult your dealer.
- Do not insert any metallic object into the system.
- Do not use any non-standard shape disc (like a heart, flower or credit card, etc.) available in the market, because it may damage the system.
- Do not use a disc with tape, stickers, or paste on it, because it may damage the system.



### Note about copyright laws

Check the copyright laws in your country before recording from the discs. The recording of copyrighted material may infringe copyright laws.

### Note about the copyguard system

The discs are protected by a copyguard system. When you connect the system to your VCR directly, the copyguard system activates and the picture may not be played back correctly.

### ■ Safety precautions

#### Avoid moisture, water and dust

Do not place the system in moist or dusty places.

#### Avoid high temperatures

Do not expose the system to direct sunlight and do not place it near a heating device.

#### When you are away

When away on travel or for other reasons for an extended period of time, disconnect the power cord plug from the wall outlet.

#### Do not block the vents

Blocking the vents may damage the system.

#### Care of the cabinet

When cleaning the system, use a soft cloth and follow the relevant instructions on the use of chemically-coated cloths. Do not use benzene, thinner or other organic solvents including disinfectants. These may cause deformation or discoloring.

#### If water gets inside the system

Turn the system off and disconnect the power cord plug from the wall outlet, then call the store where you made your purchase. Using the system in this condition may cause a fire or electrical shock.

## Supplied accessories

Check to be sure you have all of the supplied accessories. The number in parentheses is the quantity of the pieces supplied.




If anything is missing, contact your dealer immediately.

- Remote control (1)
- Batteries (2)
- FM antenna (1)
- AM loop antenna (1)
- Feet (for the front speakers) (8)

# About discs

## Playable disc types

This system has been designed to play back the following discs:

| DVD VIDEO   | Audio CD  |
|---|---|
|  |  |
| VCD   | SVCD  |
|  |  |

The ✓ in the list below shows the available disc types and recording formats.

| Disc type        | CD-R/-RW <sup>*1</sup> | DVD-R <sup>*1</sup> | DVD-RW <sup>*1</sup> |
|------------------|------------------------|---------------------|----------------------|
| Recording format |                        |                     |                      |
| DVD Video        | —                      | ✓                   | ✓                    |
| DVD VR           | —                      | ✓                   | ✓                    |
| VCD/SVCD         | ✓                      | —                   | —                    |
| Audio CD         | ✓                      | —                   | —                    |
| MP3              | ✓                      | ✓ <sup>*2</sup>     | ✓ <sup>*2</sup>      |
| WMA              | ✓                      | ✓ <sup>*2</sup>     | ✓ <sup>*2</sup>      |
| JPEG             | ✓                      | ✓ <sup>*2</sup>     | ✓ <sup>*2</sup>      |
| ASF              | ✓                      | ✓ <sup>*2</sup>     | ✓ <sup>*2</sup>      |
| MPEG-2           | ✓ <sup>*3</sup>        | ✓ <sup>*2</sup>     | ✓ <sup>*2</sup>      |
| MPEG-1           | ✓ <sup>*3</sup>        | ✓ <sup>*2</sup>     | ✓ <sup>*2</sup>      |
| DivX             | ✓                      | ✓ <sup>*2</sup>     | ✓ <sup>*2</sup>      |

<sup>\*1</sup> This system can play finalized discs only.

<sup>\*2</sup> Recorded in UDF Bridge format.

<sup>\*3</sup> This system may not be able to play back a file if the file size is too large.

- It is possible to play back finalized +R/+RW (DVD Video Format only) discs. “DVD” lights on the display panel when a +R/+RW disc is loaded.
- DVD Logo is a trademark of DVD Format/Logo Licensing Corporation.
- The Non-DVD side of a “DualDisc” does not comply with the “Compact Disc Digital Audio” standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.
- **On some DVD VIDEOS, VCDs or SVCDs, their actual operation may be different from what is explained in this manual. This is due to the disc programming and disc structure, not a malfunction of this system.**
- Some discs may not be played back because of their disc characteristics, recording conditions, or damage or stains on them.

### Notes on DVD-R and DVD-RW

This system does not support “multi-border” disc.

### Notes on CD-R and CD-RW

- This system can play CD-Rs or CD-RWs recorded in ISO 9660 format.
- This system supports “multi-session” discs (up to 20 sessions).
- This system cannot play “packet write” discs.

### Region code of DVD VIDEO

DVD VIDEO players and DVD VIDEO discs have their own Region Code numbers. This system can play back DVD VIDEO discs whose Region Code numbers include the system's Region Code, which is indicated on the rear panel.

Example of playable DVD:



If a DVD with an improper Region Code number is loaded, “REGION CODE ERROR!” appears on the TV screen and playback cannot start.

### Notes on color system

This system accommodates the PAL system, and can also play discs recorded with the NTSC system. Note that an NTSC video signal on a disc is converted to the PAL60 signal and output.

### Unplayable discs

DVD-ROM, DVD-RAM, CD-I (CD-I Ready), Photo CD, SACD, etc.

Playing back these discs will generate noise and damage the speakers.

### Playable file types

#### For all playable files

- The system can only recognize and play files with one of the following extensions, which can be in any combination of upper and lower case:  
**MP3:** “.MP3”, “.mp3”  
**WMA:** “.WMA”, “.wma”  
**JPEG:** “.JPG”, “.JPEG”, “.jpg”, “.jpeg”  
**ASF:** “.ASF”, “.asf”  
**MPEG-2/MPEG-1:** “.MPG”, “.MPEG”, “.mpg”, “.mpeg”, “.mod” (MPEG-2 only)  
**DivX:** “.DIVX”, “.DIV”, “.divx”, “.div”, and “.AVI”, “.avi”
- The system recognizes up to 150 tracks (files) per group, 99 groups per disc/device, and the total number of the tracks (files) that the system can play is 4000.
- Some files may not be played back normally because of their disc characteristics or recording conditions.
- MP3/WMA/JPEG/ASF/MPEG-2/MPEG-1/DivX files require a longer readout time. (It differs according to the complexity of the directory/file configuration.)
- If different kinds of files are mixed, set the FILE TYPE setting in the PICTURE menu to the appropriate setting for the data to be read (“AUDIO”, “STILL PICTURE” or “VIDEO”). (See page 33.)

#### For MP3/WMA files

- The system supports MP3/WMA files recorded with a bit rate of 32 kbps – 320 kbps and a sampling frequency of 16 kHz, 22.05 kHz, 24 kHz\*, 32 kHz, 44.1 kHz, or 48 kHz.
  - If the track information (album name, artist, and track title, etc.) is recorded, it appears in the file control display on the TV screen. (See page 25.)
  - We recommend that you record each piece of material (song) at a sample rate of 44.1 kHz and at a data transfer rate of 128 (96\*) kbps.
- \* For WMA only

#### For JPEG files

- We recommend that you record a file at 640 x 480 resolution. (If a file has been recorded at a resolution of more than 640 x 480, it will take a longer time to be displayed.)
- This system can only play baseline JPEG files.

#### For ASF files

- The system supports the types of the advanced simple profile as MPEG-4 files (MPEG-4 ASF).
- The system supports MPEG-4 files with the following conditions:  
File format: ASF  
Visual profile: MPEG-4 SP (Simple Profile)  
Audio CODEC: G.726  
Max. picture size: 352 x 288 (CIF)  
Max. bit rate: 384 kbps

#### For MPEG-2/MPEG-1 files

- The stream format should conform to MPEG system/program stream.
- 720 x 576 pixels (25 fps)/720 x 480 pixels (30 fps) is recommended for the highest resolution.
- This system also supports the resolutions of 352 x 576/480 x 576/352 x 288 pixels (25 fps) and 352 x 480/480 x 480/352 x 240 pixels (30 fps).
- The file format should be MP@ML (Main Profile at Main Level)/SP@ML (Simple Profile at Main Level)/MP@LL (Main Profile at Low Level).
- Audio streams should conform to MPEG1 Audio Layer-2 or MPEG2 Audio Layer-2.

#### For DivX files

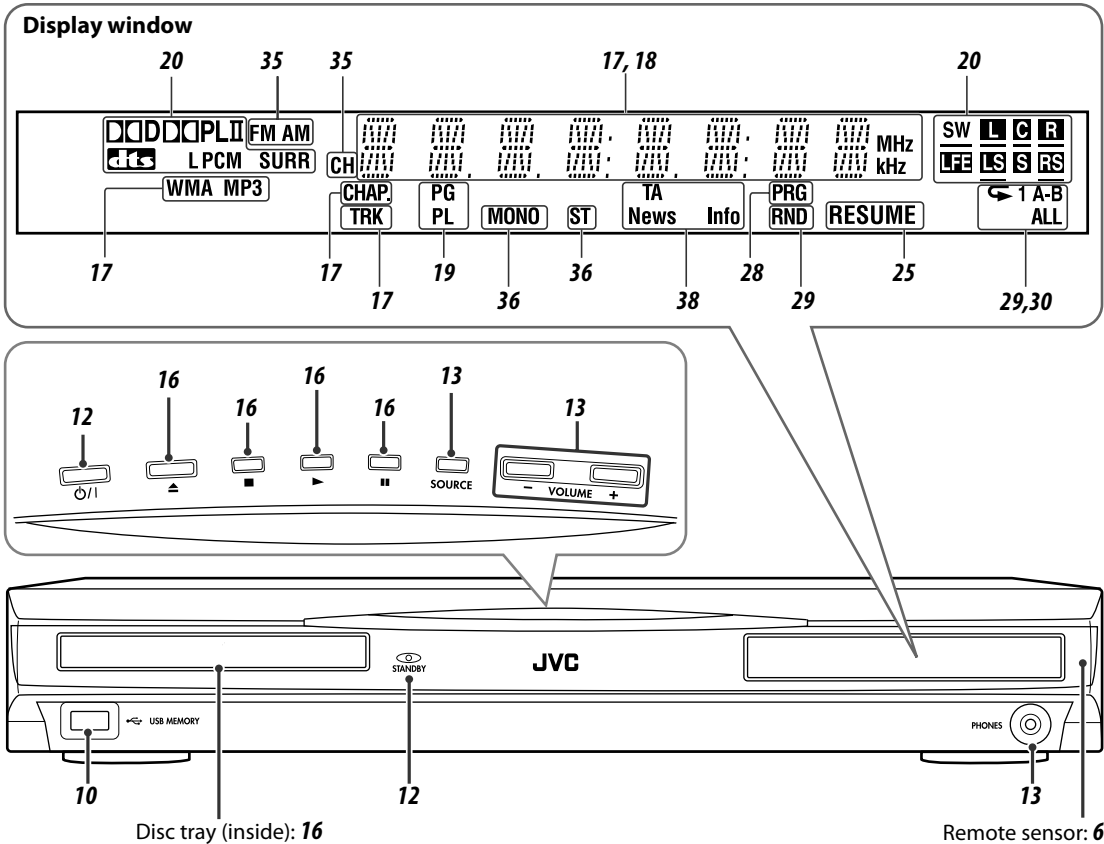
- The system supports DivX 6.x, 5.x, 4.x and 3.11.
- The system supports DivX files whose resolution is 720 x 480 pixels or less (30 fps), and 720 x 576 pixels or less (25 fps).
- The audio stream should conform to Dolby Digital (including multi channel) or MPEG1 Audio Layer-3 (MP3).
- The system does not support GMC (Global Motion Compression).
- Files encoded in an interlaced scanning mode may not be played back correctly.
- The system has its own Registration Code for DivX playback.  
If necessary, you can confirm the Registration Code of your system using the OTHERS menu. (See page 34.)

- 
- Manufactured under license from Dolby Laboratories. “Dolby”, “Pro Logic”, and the double-D symbol are trademarks of Dolby Laboratories.
  - “DTS” and “DTS Digital Surround” are registered trademarks of DTS, Inc.
  - Microsoft and Windows Media are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
  - DivX, DivX Ultra Certified, and associated logos are trademarks of DivX, Inc. and are used under license.
  - Official DivX® Ultra Certified product
  - Plays all versions of DivX® video (including DivX® 6) with enhanced playback of DivX® media files and the DivX® Media Format
  - USE OF THIS PRODUCT IN ANY MANNER THAT COMPLIES WITH THE MPEG-4 VISUAL STANDARD IS PROHIBITED, EXCEPT FOR USE BY A CONSUMER ENGAGING IN PERSONAL AND NON-COMMERCIAL ACTIVITIES.
  - 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.

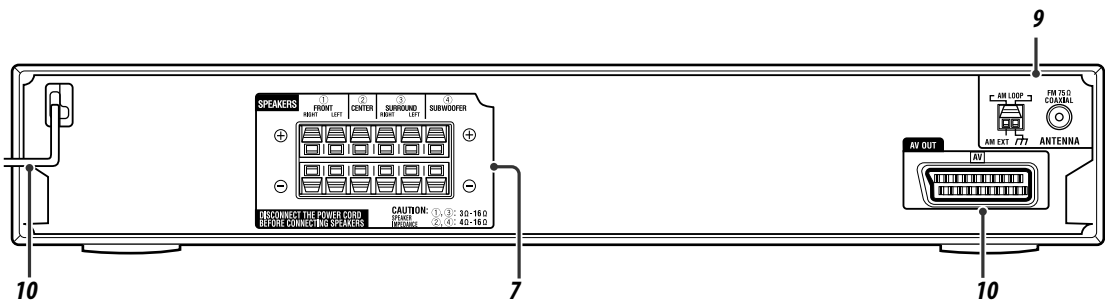
# Index of parts and controls

The numbers in the figures indicate the pages where the details of the parts are described.

## Front panel (center unit)

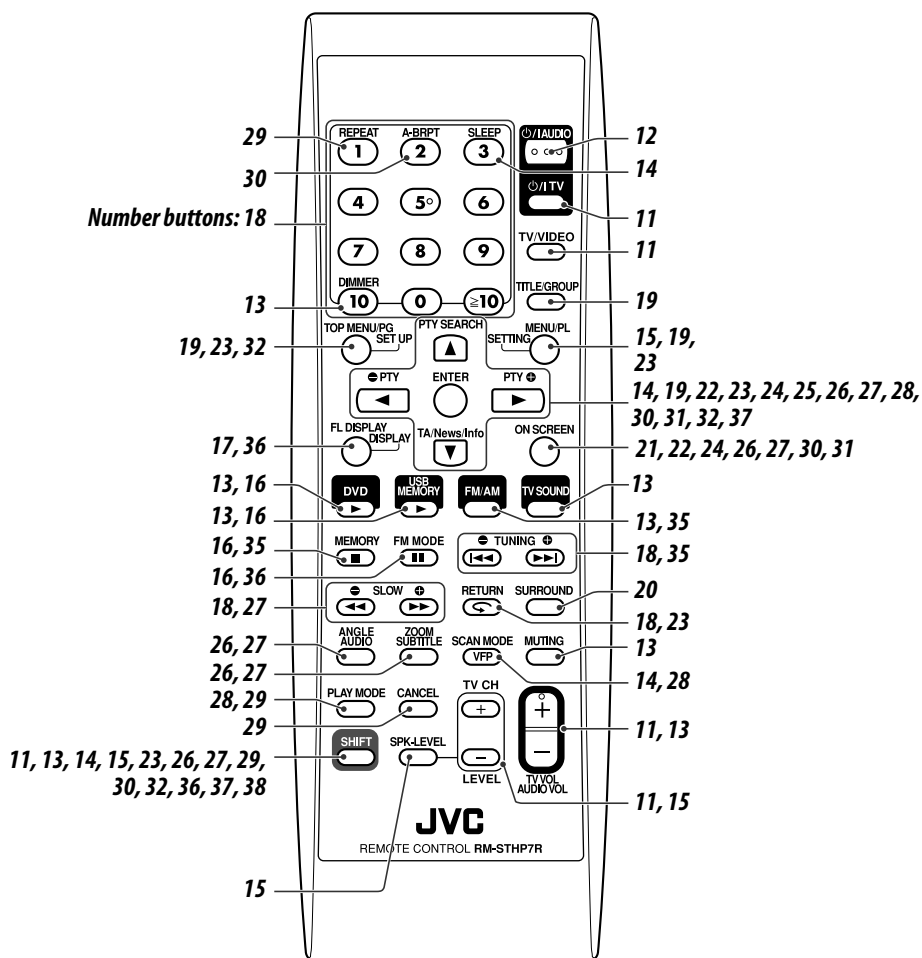


## Rear panel (center unit)

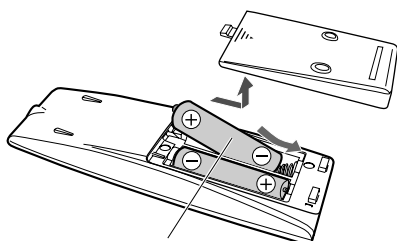




## Remote control



## Putting batteries in the remote control



R6P (SUM-3)/AA (15F) type dry-cell batteries (supplied)

If the range or effectiveness of the remote control decreases, replace both batteries.

### CAUTION

- Battery shall not be exposed to excessive heat such as sunshine, fire or the like.

## Operating the system from the remote control

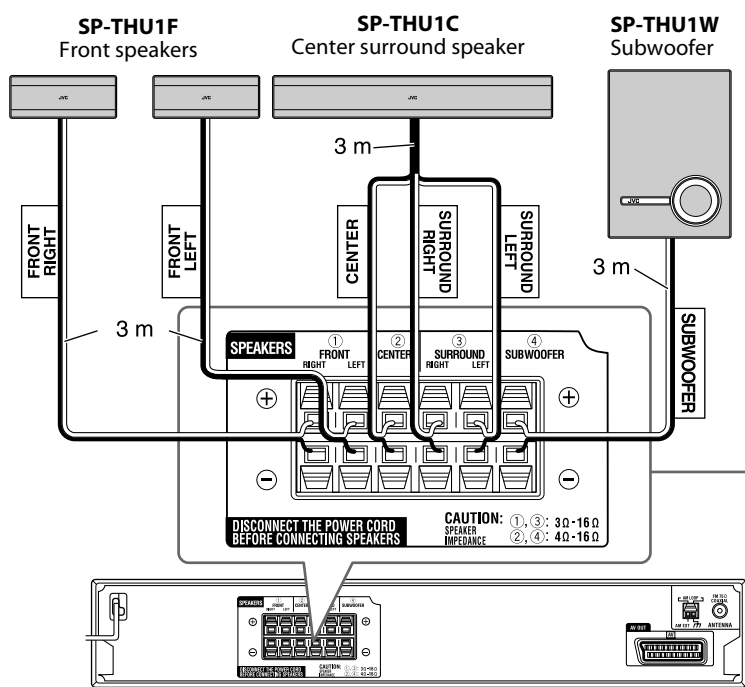
Aim the remote control directly at the front panel of the center unit.

- Do not block the remote sensor.

## Connecting the speakers and the subwoofer

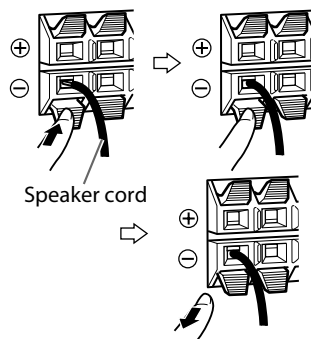
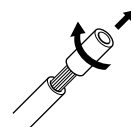
### ■ Basic speaker connection—for speaker layout ① (see page 8)

The supplied center surround speaker reproduces the sound of center channel, surround right channel and surround left channel by one speaker.



#### Before connecting the speaker cords;

Twist and pull the insulation coat off.

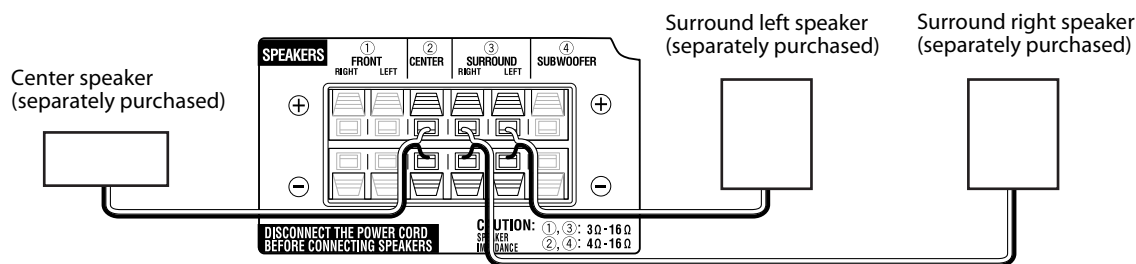


- Connect the black cords to the black (-) terminals.
- Connect the gray cords to the red (+) terminals.

### ■ Optional speaker connection—for speaker layout ② (see page 8)

You can connect separately purchased speakers to this unit as the center, surround right and surround left speaker. With using optional speakers, you can use some optional function through this system.

- Leave the supplied front speakers and subwoofer connected as illustration above.
- When you connect the optional speakers, place the speakers as speaker layout ② (see page 8) and select the speaker position mode to "S. SPK R" (see page 15).



- The supplied center surround speaker can be used as the center speaker. When you connect the supplied center surround speaker as the center speaker, connect only the CENTER speaker cord to the CENTER speaker terminal of the unit.

#### About Icon



In this manual, indicates that the function is available only when you connect the optional speakers and set the speaker position mode to "S. SPK R".

## CAUTION

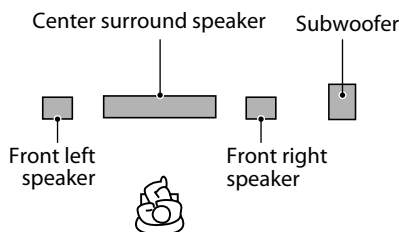
- If you connect speakers other than the supplied ones, use speakers of the same speaker impedance (SPEAKER IMPEDANCE) indicated on the rear of the center unit.
- DO NOT connect more than one speaker to each speaker terminal.
- When installing the speakers on the wall:
  - Be sure to have them installed on the wall by qualified personnel.
  - DO NOT install the speakers on the wall by yourself to avoid unexpected damage from falling off the wall due to incorrect installation or weakness in wall structure.
  - Care must be taken in selecting a location for speaker installation on a wall. Injury to personnel or damage to equipment may result if the speakers installed interfere with daily activities.
- When you connect the supplied center surround speaker as the center speaker for speaker layout ②, be sure to keep the following for the unused cords and handle them with care.
  - Do insulate the SURROUND RIGHT and SURROUND LEFT speaker cords with insulating tape.
  - Do not let the unused cords touch any materials.

## Precautions for daily use

- When moving the speakers, do not pull the speaker cords; otherwise, the speakers may fall over, causing damage or injury.
- Do not reproduce sounds at so high volume that the sound is distorted; otherwise, the speakers may be damaged by internal heat buildup.

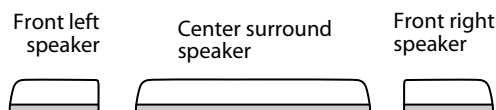
## Speaker layout

### ■ Speaker layout ① (basic layout)

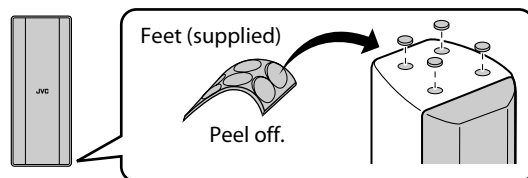


Place the front speakers as follows so that the curved-sides face outwards.

EX.: Overhead view



The front speakers can be placed vertically as follows.

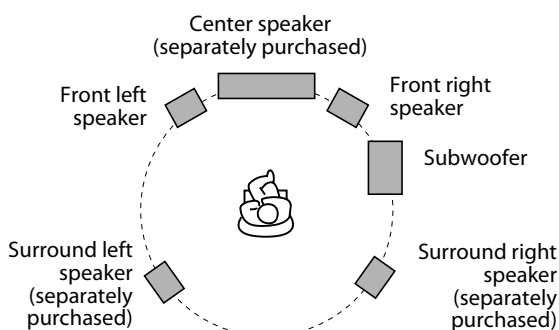


- You can turn the JVC logos to make them legible.



### ■ Speaker layout ② (only when connecting optional speakers)

- Select “S. SPK R” as the speaker position mode for this layout. (See page 15.)
- To obtain the best possible sound from this system, you need to place all the speakers except subwoofer at the same distance from the listening position.



### If your speakers cannot be placed at the same distance from the listening position

You can adjust the delay time of the speakers. See “Delay menu (DELAY)” on page 33.

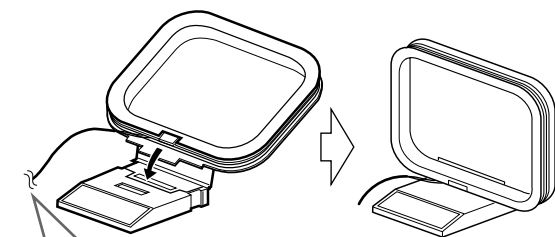
## NOTE

- Place the speakers on a flat and level surface.
- The front and center surround speakers are magnetically shielded to avoid causing color distortions on TVs. However, if not installed properly, they may cause color distortions. So, pay attention to the following when installing the speakers.
  - When placing the speakers near a TV set, turn off the TV’s main power switch or unplug it before installing the speakers. Then wait at least 30 minutes before turning on the TV’s main power switch again.
- Some TVs may be still affected even though you have followed the above. If this happens, move the speakers away from the TV.
- The subwoofer is not magnetically shielded. If it is located near the TV or monitor, it will probably cause color distortion on the screen. To avoid this, do not place the speakers near the TV or monitor.
- Be sure to place the subwoofer to the right of the TV. If you place the subwoofer to the left, keep sufficient distance between them to prevent the TV screen from appearing mottled.

## Connecting the FM and AM (MW) antennas

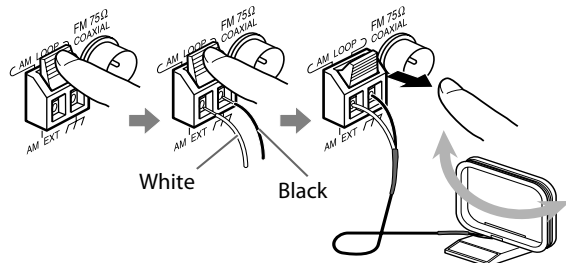
### ■ AM (MW) loop antenna

#### Setting up the supplied AM (MW) loop antenna



If the antenna cord is covered with an insulation coat, twist and pull the insulation coat off.

#### Connecting the AM (MW) loop antenna

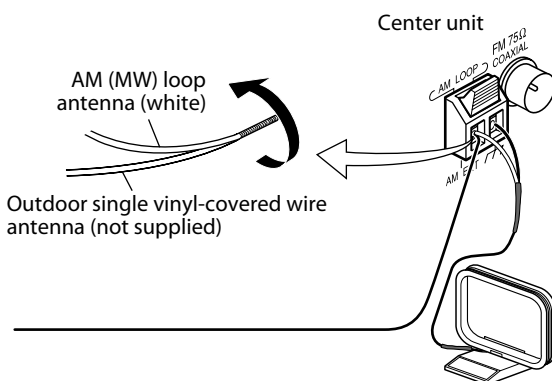


- Turn the loop antenna until you have the best reception during AM (MW) broadcast program reception.

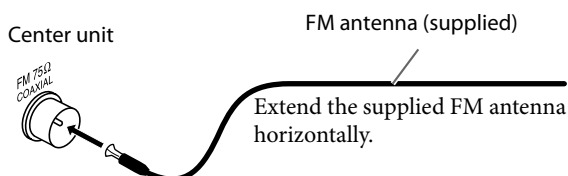
### NOTE

- Make sure the antenna conductors do not touch any other terminals, connecting cords or power cords. This could cause poor reception.
- Keep the AM loop antenna cable wrapped around the AM loop antenna frame, otherwise the effectiveness and sensitivity of the AM loop antenna may be reduced.

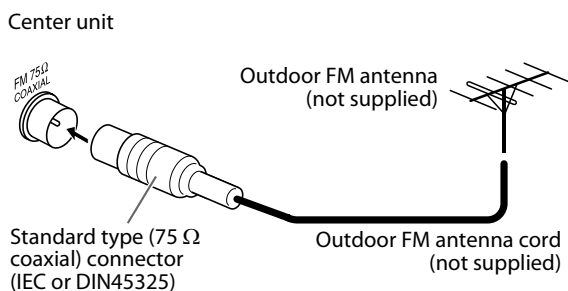
### If reception is poor



### ■ FM antenna



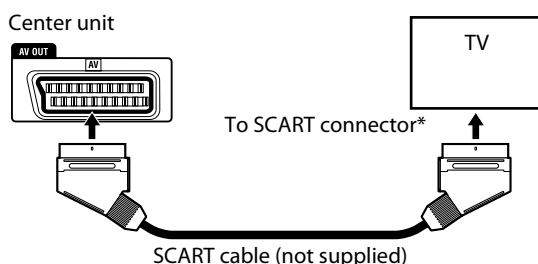
### If reception is poor



We recommend that you use a coaxial cable for the FM antenna as it is well-shielded against interference.

## Connecting a TV

- Picture distortion may occur when connecting the TV via a VCR, or to a TV with a built-in VCR.
- You need to set "MONITOR TYPE" in the PICTURE menu correctly according to the aspect ratio of your TV. (See page 32.)



- \* Some TV's SCART connectors emit audio signals. In such a case, you can enjoy the TV sound through this system by selecting TV SOUND as the source to play. (See page 13.)

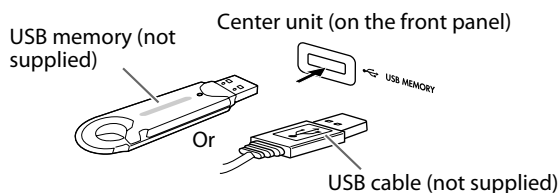
### NOTE

- No sound signal comes out from AV OUT (SCART) connector.
- Select the appropriate video output mode according to your TV. (See page 14.)

## Connecting a USB mass storage class device

You can connect a USB mass storage class device such as a USB flash memory device, hard disk drive, multimedia card reader, digital camera, etc. to this system.

- After connecting a USB mass storage class device to this system and selecting USB MEMORY as the source, the file control display appears on the TV screen. (See page 25.)



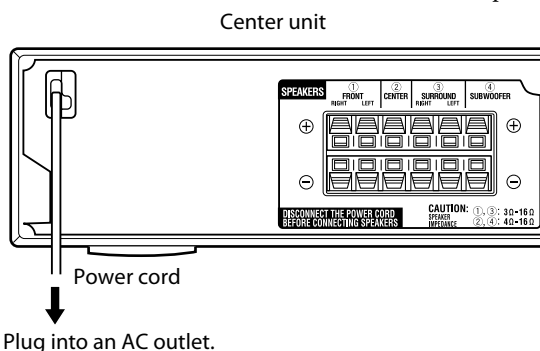
### NOTE

- When connecting a USB mass storage class device, refer also to its manual.
- Connect one USB mass storage class device to the system at a time. Do not use a USB hub.
- While playing back a file on a USB mass storage class device, do not disconnect the device. It may cause a malfunction of both the system and the device.
- Some USB mass storage class devices may not be recognized or may not work properly.

- JVC bears no responsibility for any loss of data on the USB mass storage class device while using this system.
- This system is compatible with the USB 2.0 Full Speed.
- You can play back the following types of files on a USB mass storage class device (maximum data transfer rate: 2 Mbps):
  - Music: MP3, WMA
  - Picture: JPEG
  - Movie: MPEG-4 (ASF), DivX (maximum frame rate of 30 fps for progressive)
- This system may not play back some files even though their formats are listed above.
- You cannot play back a file larger than 2 GB.
- When playing a file which has a large transfer rate, frames or sounds may be dropped during playback.
- This system cannot recognize a USB mass storage class device whose rating exceeds 5 V/500 mA.
- You cannot connect a computer to the USB MEMORY terminal of the system.
- Always set the volume to the minimum level when connecting or disconnecting the other equipment.
- You cannot send any data to your USB mass storage class device from this system.
- When connecting with a USB cable, use the USB 2.0 cable whose length is less than 1 m.

## Connecting the power cord

Make sure that all other connections have been completed.



### CAUTION

- Disconnect the power cord before cleaning or moving the system.
- Do not pull on the power cord to unplug it. When unplugging the cord, always grasp and pull the plug so as not to damage the cord.

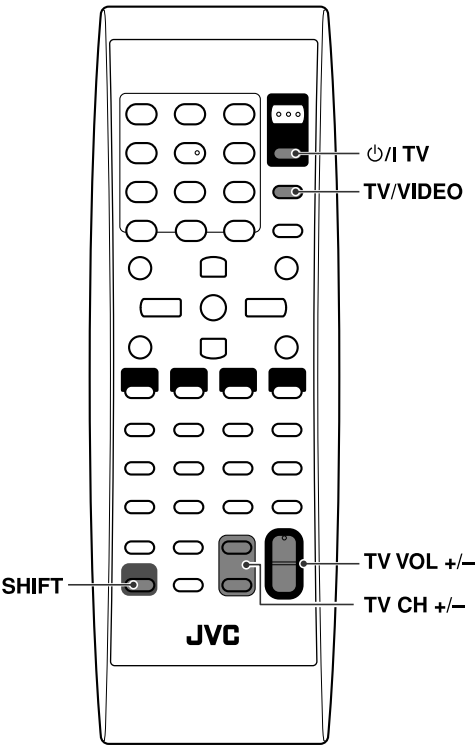
### NOTE

- Preset settings, such as preset stations and surround mode adjustments, may be erased after a few days in the following cases:
  - If you unplug the power cord of the center unit.
  - If a power failure occurs.

# Operating the TV

You can use the remote control to operate not only this system but also JVC TVs.

- Refer also to the manuals supplied with the TV.
- To operate the TV, aim the remote control directly at the remote sensor on the TV.



## ■ To operate a JVC TV

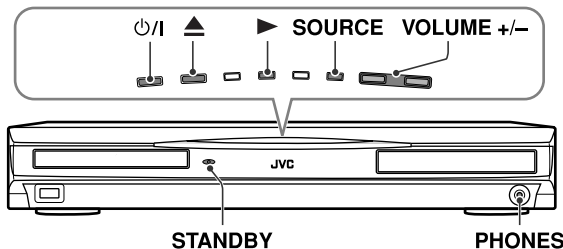
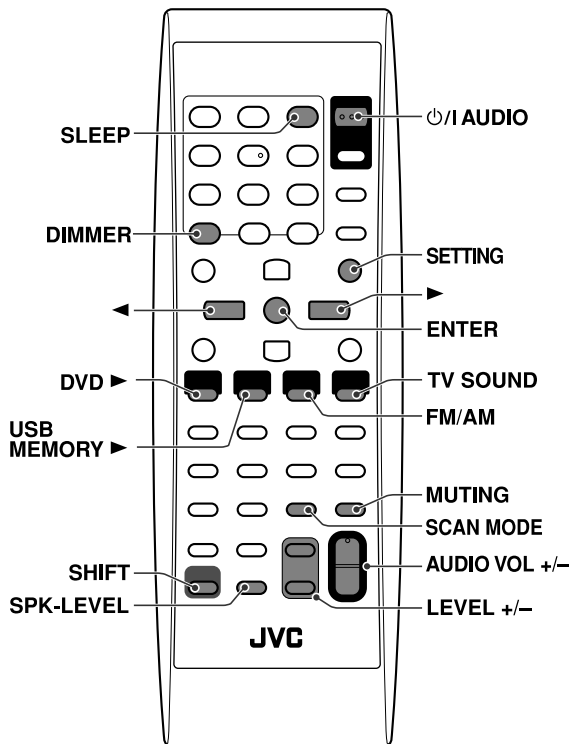
You can perform the following operations on the TV.

|  |   |
|--|---|
| <b>TV:</b>                             | Turn on or off the TV.                      |
| <b>TV VOL +/- while holding SHIFT:</b> | Adjust the volume.                          |
| <b>TV/VIDEO:</b>                       | Select the input mode (either TV or VIDEO). |
| <b>TV CH +/- while holding SHIFT:</b>  | Change the channels.                        |

# Basic operations

In this manual, the operations using the remote control are mainly explained; however, you can use the buttons and controls on the main unit if they have the same (or similar) name and marks.

The buttons described below are used on pages 12 to 15.

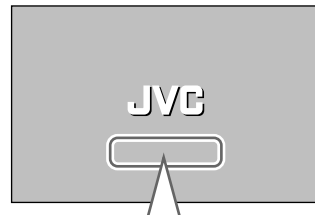


## Turning the system on/off

**On the remote control:**  
**Press  $\odot/\text{I}$  AUDIO.**

**On the center unit:**  
**Press  $\odot/\text{I}$ .**

When DVD or USB MEMORY is selected as the source (see page 13), the following messages will appear on the TV screen.



- “OPEN”/“CLOSE”:  
Appears when opening or closing the disc tray.
- “NOW READING”:  
Appears when the system is reading the disc/file information.
- “REGION CODE ERROR!”:  
Appears when the Region Code of the DVD VIDEO does not match the code the system supports. The disc cannot be played back.
- “NO DISC”:  
Appears when disc is not loaded.
- “NO USB DEVICE”:  
Appears when USB mass storage class device is not connected.
- “CANNOT PLAY THIS DISC”:  
Appears when an unplayable disc is loaded.
- “CANNOT PLAY THIS DEVICE”:  
Appears when an unplayable USB mass storage class device is connected.

### NOTE

- The STANDBY lamp goes off when the power is turned on, and the lamp lights when the power is turned off.
- A small amount of power is consumed even when the power is turned off. This is called standby mode and the STANDBY lamp lights in this mode. Unplug the power cord from the AC outlet to shut the power off completely.
- You can also turn on the system by pressing the following buttons:
  - $\blacktriangle$  on the center unit
  - One of the source selecting buttons (DVD  $\blacktriangleright$ , USB MEMORY  $\blacktriangleright$ , FM/AM or TV SOUND) on the remote control
  - $\blacktriangleright$  on the center unit

## Selecting the source to play

**On the remote control:**

**Press one of the source selecting buttons (DVD ►, USB MEMORY ►, FM/AM or TV SOUND).**

DVD ►: To play back a disc (DVD VIDEO, VCD, etc.).

(See page 16.)

USB MEMORY ►: To play back a file on a USB mass storage class device. (See page 16.)

FM/AM: To tune in an FM or AM (MW) station. (See page 35.)

Each time you press the button, the band alternates between FM and AM (MW).

TV SOUND: To select the TV connected to the AV OUT (SCART) connector.

- Some TVs cannot emit sound signals. In this case, you cannot listen to the TV sound through the system. (See page 10.)

**On the center unit:**

**Press SOURCE repeatedly until the source name you want appears on the display window.**

### NOTE

- When a source except DVD or USB MEMORY is selected, this system does not output video signals.
- It may take time to change the source.

## Adjusting the volume [VOLUME]

### CAUTION

- Always set the volume to the minimum level before starting any source. If the volume is set at a high level, the sudden blast of sound could permanently damage your hearing and/or blow out the speakers.

**On the remote control:**

**Press AUDIO VOL +/-.**

**On the center unit:**

**Press VOLUME +/-.**

## Listening with headphones (not supplied)

### CAUTION

Be sure to turn down the volume:

- Before connecting or putting on headphones as high volume may damage both the headphones and your hearing.
- Before disconnecting headphones as high volume may suddenly be emitted from the speakers.

While connecting a pair of headphones to the PHONES jack on the center unit, the system automatically cancels the surround mode (see page 20) currently selected, deactivates the speakers, and activates the headphone mode.

“H.PHONE” appears on the display window.

### Headphone mode

When using the headphones, the following signals are emitted regardless of your speaker settings:

- For 2 channel sources, the front left and right channel signals are emitted through the headphones.
- Multi-channel signals are down-mixed and emitted through the headphones.

## Turning off the sound temporarily [MUTING]

### Press MUTING.

**To restore the sound**

Perform one of the following:

- Press MUTING again.
- Press AUDIO VOL +/- (or VOLUME +/- on the center unit).

## Adjusting the brightness of the indications [DIMMER]

### Press DIMMER while holding SHIFT.

Each time you repeat the procedure, you can change the brightness level in 3 steps.



## Sleep Timer [SLEEP]

The system turns off automatically when the specified period of time has passed.

### Press SLEEP while holding SHIFT.

Each time you repeat the procedure, the shut-off time changes.

Example:



#### To check the remaining time

Press SLEEP once while holding SHIFT.

#### To change the remaining time

Press SLEEP repeatedly while holding SHIFT.

#### To cancel

Press SLEEP repeatedly while holding SHIFT, until "SLEEP - -" appears.

- Turning off the power also cancels the Sleep Timer.

## Changing video output mode

The system can be accommodated to your TV's video input mode.

- While DVD or USB MEMORY is selected as the source and before playback

### 1 Press and hold SCAN MODE for 2 seconds.

The current setting appears in the display window.

### 2 Press Cursor ► / ◀ to select the desired mode.

Select one of the following:

- RGB: Select this if your TV accommodates interlaced RGB/composite video input.
- Y/C: Select this if your TV accommodates interlaced S-video input.

You can get better picture quality in the following order — "RGB" > "Y/C" > "composite"

### 3 Press ENTER while the selected mode is displayed.

#### NOTE

- Although the picture may be distorted when you press ENTER, this is not a malfunction of the system.
- "RGB" is selected when shipped from the factory.

## Switching the speaker position mode

Switch the speaker position mode to "S. SPK R" only when you connect optional speakers (see pages 7 and 8).




### 1 Press AUDIO.

The system turns off.

### 2 Press and hold SETTING while holding SHIFT.


The current setting appears on the display window.

### 3 Press SETTING while holding SHIFT to select "S. SPK R".

- S. SPK F (Initial setting): For speaker layout .
- S. SPK R: For speaker layout . Select this only when you connect optional speakers and place the speakers as layout .

- The adjustment display automatically disappears a few seconds later with the current setting.

#### NOTE

- If you disconnect optional speakers and place the speakers as speaker layout , switch the speaker position mode to "S. SPK F".
- As the speaker position mode is changed, the following settings are also changed automatically:
  - The output level settings of each speaker are initialized.
  - The surround mode (see page 20) is set to "AUTO SUR".

## Adjusting the output level of the speakers

### 1 Press SPK-LEVEL to show the target speaker indication on the display window.

Each time you press the button, the indication of the channel changes as follows:

#### ■ When the speaker position mode is "S. SPK F"

CENTER (Center channel sound of center surround speaker) ➔ SURR (Surround channel sound of center surround speaker) ➔ SUBWFR (Subwoofer) ➔ (back to the beginning)

#### ■ When the speaker position mode is "S. SPK R"

FRNT L (Front left speaker) ➔ FRNT R (Front right speaker) ➔ CENTER (Center speaker) ➔ SURR L (Surround left speaker) ➔ SURR R (Surround right speaker) ➔ SUBWFR (Subwoofer) ➔ (back to the beginning)

### 2 Press LEVEL +/- to adjust the output level from -6 to 6.

#### NOTE

- When the speaker position mode is "S. SPK R", you can also make adjustments by using the setup menu shown on the TV screen. (See page 33.)
- These adjustments take effect for all sources.

## Balance Setting

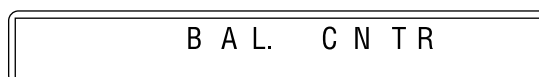
You can adjust the balance between the front left and front right speakers.

#### NOTE

- This function also takes effect for the sources other than DVD.
- Before you start the operation; There is a time limit when doing the following steps. If the setting is canceled before you finish, start from step 1 again.

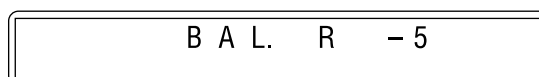
### 1 Press SETTING while holding SHIFT.

Example:




### 2 Press Cursor ► / ◀ to make an adjustment or selection.

Example:

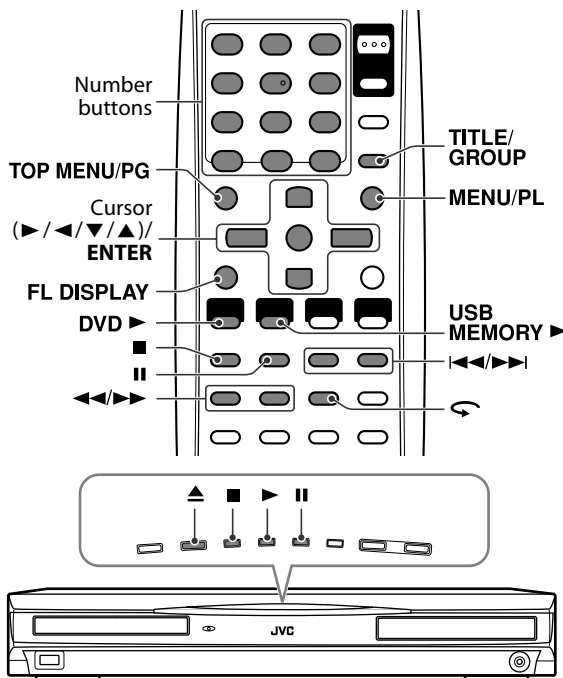


- The adjustment display automatically disappears a few seconds later with the current setting.

# Playback

- Icons such as  show the disc formats or file types the operation is available for.

The buttons described below are used on pages 16 to 19.



## For MP3/WMA files

The file control display (see page 25) appears on the TV screen.

## For JPEG files

Each file (still picture) is shown on the TV screen for about 3 seconds (slide-show). When stopping playback, the file control display (see page 25) appears on the TV screen.

## For ASF/MPEG-2/MPEG-1 files

Pressing TOP MENU/PG or MENU/PL shows the file control display (see page 25) on the TV screen during playback.

## For DivX files

While reading a DivX file, "READING INDEX" may appear on the TV screen.

Pressing TOP MENU/PG or MENU/PL shows the file control display (see page 25) on the TV screen during playback.

## NOTE

- When several types of files are recorded on a disc/device, select the appropriate file type on the set up menu. (See page 33.)

## ■ To pause

### Press II.











To continue playback, press the play button for the corresponding source (DVD ► or USB MEMORY ►).

## ■ To stop

### Press ■.

## ■ On-screen guide icons

During playback, the following guide icons may appear for a while on the TV screen:

- : appears at the beginning of a scene containing multi-subtitle languages.
- : appears at the beginning of a scene containing multi-audio languages.
- : appears at the beginning of a scene containing multi-angle views.
-  (Play),  (Pause),  /  (Fast forward/fast-reverse),  /  (Slow-motion forward/reverse): appears when you perform each operation.
- : the disc cannot accept the operation you have tried to do.

## NOTE

- For JPEG: The system cannot accept any operations if you press some buttons before the entire picture appears on the TV screen.
- If you do not want the on-screen guide icons to appear, see page 34.

## Basic Playback

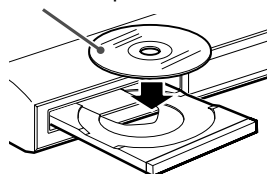
### ■ To play a disc

#### 1 Press on the center unit.

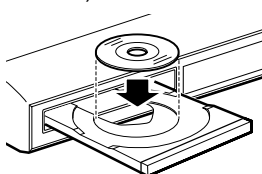
The system turns on and the disc tray opens.

#### 2 Place a disc.

Label side up



When placing an 8 cm (3 inches) disc



#### 3 Press DVD ► (play button).

### ■ To play a file on a USB mass storage class device

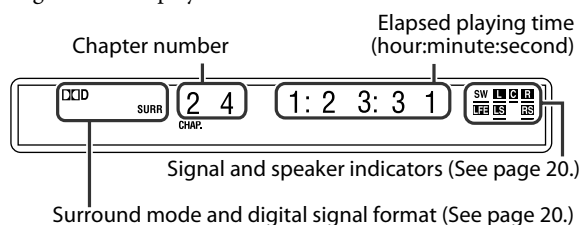
#### Press USB MEMORY ► (play button).

The operations of the files on a USB mass storage class device depend on the file types stored on the device.

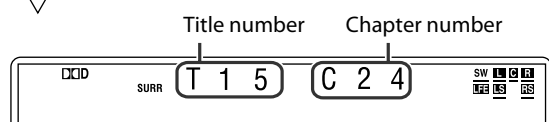
## ■ Playback information on the display window

### DVD VIDEO

Example: When a DVD VIDEO encoded with Dolby Digital 5.1ch is played

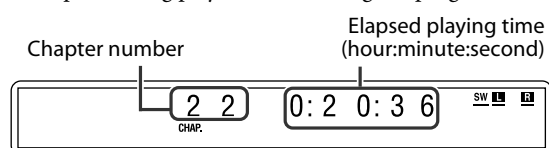


Press FL DISPLAY

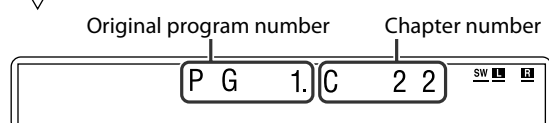


### DVD VR disc

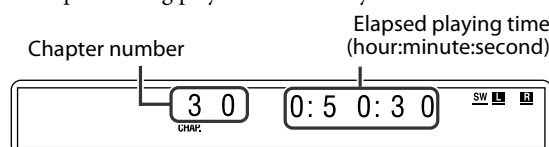
Example: During playback of the Original program\*1



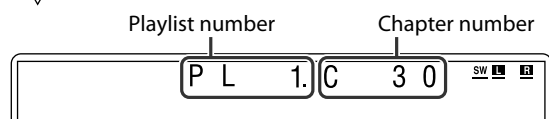
Press FL DISPLAY



Example: During playback of the Playlist\*1



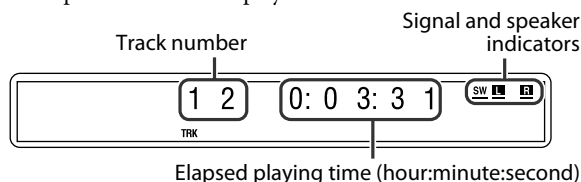
Press FL DISPLAY



\*1 By pressing TOP MENU/PG or MENU/PL, you can change the play mode. (See page 19.)

### VCD/SVCD/CD

Example: When a CD is played back

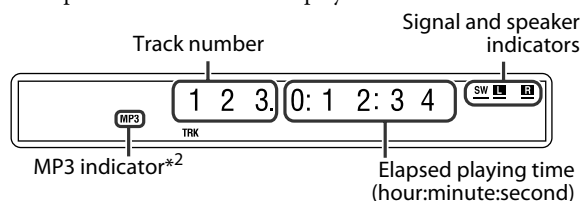


### NOTE

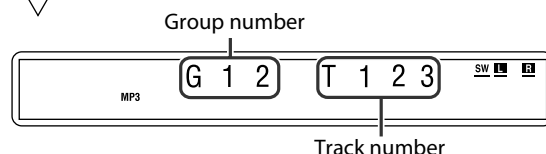
- When a VCD or SVCD with the PBC function is played, the elapsed playing time does not appear, but "PBC" appears.

### MP3/WMA file

Example: When an MP3 file is played back



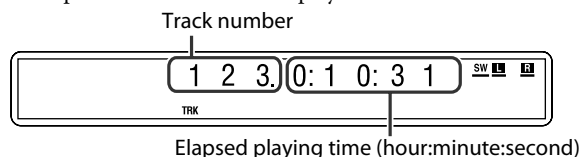
Press FL DISPLAY



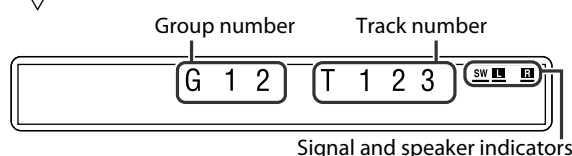
\*2 WMA indicator lights for WMA file.

### ASF/MPEG-2/MPEG-1/DivX file

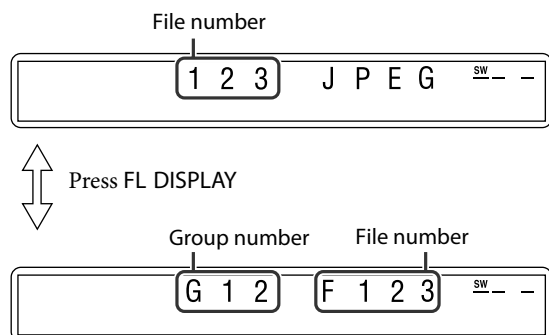
Example: When an ASF file is played back



Press FL DISPLAY



## JPEG file



### NOTE

- You can change the time information mode (not available for MP3/WMA/ASF/MPEG-2/MPEG-1/DivX). (See page 22.)
- You can also check the playback information on the TV screen. (See page 21.)

### ■ Screen saver

An image may be burned onto a TV screen if a static picture is displayed for a long time. To prevent this, the system automatically dims the screen if a static picture is displayed for over 5 minutes (Screen Saver).

- Pressing any button will cancel the screen saver function.
- If you do not want to use the screen saver function, see page 33.

## One Touch Replay

You can move the playback position back by 10 seconds from the current position.



- During playback

Press **◀**.

### NOTE

- This feature works within the same title/program.
- This feature may not work for some discs/files.

## Fast-forward/fast-reverse search

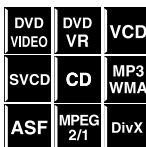
- During playback

Press **▶▶** or **◀◀**.

Each time you press the button, the search speed changes (x2, x5, x10, x20, x60).

### To return to normal speed playback

Press the play button for the corresponding source (DVD ▶ or USB MEMORY ▶).



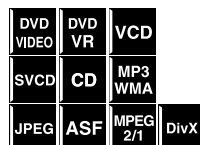
### NOTE

- When a CD or MP3/WMA is played back, the sound is intermittent and low during fast-forward/reverse search.
- This feature may not work for some discs/files.
- For MP3/WMA, the search speed is not shown.
- The search speed for DivX is ▶▶ 1, ▶▶ 2, ▶▶ 3 for forward search, and ◀◀ 1, ◀◀ 2 and ◀◀ 3 for reverse search.

## Skipping to the beginning of a desired selection

### ■ Using **▶▶|** / **|◀◀** buttons

- For DVD VIDEO/DVD VR (chapter): During playback
- For VCD/SVCD (track): During playback without the PBC function
- For CD/MP3/WMA/JPEG/ASF/MPEG-2/MPEG-1/DivX (track/file): During playback or while stopped



Press **▶▶|** or **|◀◀** repeatedly.

### NOTE

- When playing back an MP3/WMA/JPEG/ASF/MPEG-2/MPEG-1/DivX, you can perform the operations using the file control display. (See page 25.)
- This feature may not work for some discs/files.

### ■ Using the number buttons on the remote control

- For DVD VIDEO/DVD VR (title, chapter): While stopped, the title number is selected. During playback, the chapter number is selected.
- For VCD/SVCD (track): During playback or while stopped without PBC function
- For CD/MP3/WMA/JPEG/ASF/MPEG-2/MPEG-1/DivX (track/file): During playback or while stopped

Press the number buttons (0-10, ≥ 10) to select a desired number.

### How to use the number buttons

- To select 3: Press 3.
- To select 10: Press 10.
- To select 14: Press ≥ 10, 1, then 4.
- To select 24: Press ≥ 10, 2, then 4.
- To select 40: Press ≥ 10, 4, then 0.
- To select 114: Press ≥ 10, ≥ 10, 1, 1, then 4.

## Skipping by intervals of about 5-minutes

While playing back a long file, you can skip within the file by intervals of about 5 minutes.



■ During playback

**Press Cursor ► / ◀.**

Each time you press the button, the playback position skips to the beginning of the next or previous interval.

### NOTE

- Intervals are automatically assigned from the beginning of a file.
- This feature is available only within the same file.
- This feature may not work for some discs/files.

## Locating a desired title/group/program/playlist using the number buttons

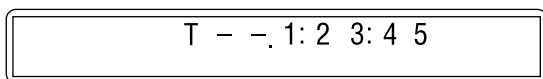
■ During playback or while stopped.

**1 Press TITLE/GROUP.**

“- -” appears on the display window.



Example: During DVD VIDEO playback



**2 While the display window shows “- -”, use the number buttons (0-10, ≥ 10) to enter a desired number.**

The system starts playback from the first chapter/track/file of the selected title/group/program/playlist.

- For details on using the number buttons, see “How to use the number buttons”. (See page 18.)

### NOTE

- When locating a program on a DVD VR, the PG indicator lights up on the display window.
- When locating a playlist on a DVD VR, the PL indicator lights up on the display window.
- This feature may not work for some discs/files.

## Selecting the desired program/playlist from the control display

■ During playback or while stopped.

**1 Press TOP MENU/PG or MENU/PL.**



The control display is shown on the TV screen and the system starts playback of the first program/playlist.

- The PLAY LIST is shown only when the playlist is on the DVD VR disc.

TOP MENU/PG: shows the ORIGINAL PROGRAM.

Example:

| ORIGINAL PROGRAM |          |     |       |                    |
|------------------|----------|-----|-------|--------------------|
| No               | Date     | Ch  | Time  | Title              |
| 1                | 25/04/07 | 4ch | 19:00 | JVC DVD World 2007 |
| 2                | 17/05/07 | 8ch | 10:30 |                    |
| 3                | 22/05/07 | 8ch | 17:00 | Music Festival     |
| 4                | 26/05/07 | L-1 | 13:19 | children 001       |
| 5                | 20/06/07 | 4ch | 22:00 |                    |
| 6                | 25/06/07 | L-1 | 8:23  | children 002       |

- \*1: Program number
- \*2: Date recorded
- \*3: Recording source (TV station, the input terminal of the recording equipment etc.)
- \*4: Start time of recording
- \*5: Title of the original program/playlist (The title may not be displayed depending on the recording equipment.)
- \*6: Current program

MENU/PL: shows the PLAY LIST.

Example:

| PLAY LIST |          |      |         |                 |
|-----------|----------|------|---------|-----------------|
| No        | Date     | Chap | Length  | Title           |
| 1         | 25/05/07 | 001  | 1:03:16 | My JVC World    |
| 2         | 17/06/07 | 005  | 1:35:25 |                 |
| 3         | 20/06/07 | 003  | 0:10:23 | Favorite music  |
| 4         | 25/06/07 | 001  | 0:07:19 | children001-002 |

- \*7: Playlist number
- \*8: Creation date of playlists
- \*9: Number of chapters
- \*10: Total playing time
- \*11: Current playlist

**2 Press Cursor ▼ / ▲ to select the desired program/playlist.**

The system starts playback of the selected program/playlist.


**To clear the control display**

Press ENTER.

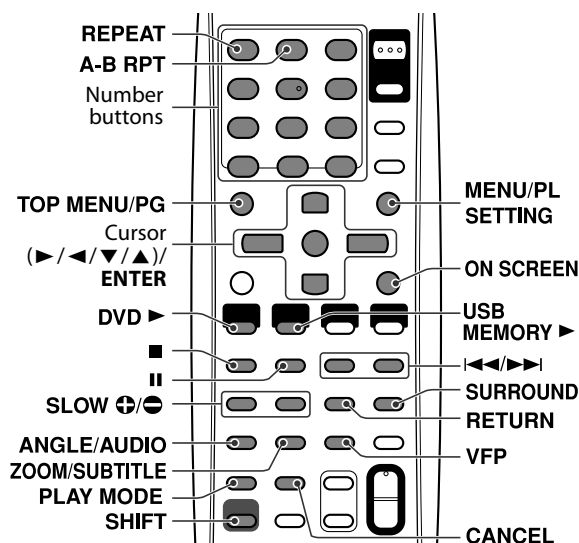
### About the play mode on a DVD VR disc

- Original program (ORIGINAL PROGRAM):  
The system can play back the original picture in the recorded order.
- Playlist (PLAY LIST):  
The system can play back a playlist edited by recording equipment.

# Advanced operations

- Icons such as  show the disc formats or file types the operation is available for.

The buttons described below are used on pages 20 to 31.



## Using the surround mode

You can enjoy a more realistic sound field than with stereo sound by using the surround mode.

### Selecting the surround mode

The system is set up to automatically select the optimal surround mode for input signals.

#### Press SURROUND repeatedly to select the desired mode.

The surround mode is turned on and the current surround mode appears in the display window. Each time you press the button, the surround mode changes.

- See “Available surround modes” on the right column for each surround mode.

#### To turn off the surround mode

#### Press SURROUND repeatedly until "OFF" appears in the display window.

#### Storing adjustments—auto memory

When you turn the power off, the system memorizes the current surround mode. The memorized mode is automatically recalled when you turn the power on.

#### NOTE

- This function also takes effect for the source other than DVD.

## Indicators on the display window

### Digital signal format indicators

LPCM: Lights when Linear PCM signals comes in.

Dolby Digital (Dolby Digital): Lights when Dolby Digital signals come in.

DTS: Lights when DTS signals come in.

No indication: No digital signal indicator lights when analog signals come in.

### Dolby Surround mode indicator

Dolby Pro Logic II (PLII): Lights when Dolby Pro Logic II mode is activated.

### Surround indicator

SURR: Lights when the surround mode is activated.

### Source signal indicators, etc.

Light to indicate the incoming signals.

L: Lights when the front left channel signal comes in.

C: Lights when the center channel signal comes in.

R: Lights when the front right channel signal comes in.

LFE: Lights when the LFE signal comes in.

LS: Lights when the surround left channel signal comes in.

RS: Lights when the surround right channel signal comes in.

S: Lights when the monaural surround channel signal or 2 channel Dolby Surround signal comes in.

SW: Always lights.

SW L C R  
LFE LS S RS

The channel with “—” shows that the sound is emitted from the speaker.

## Available surround modes

### When the speaker position mode is “S. SPK F”

#### Front surround

##### Auto Surround (AUTO SUR)

This function automatically selects the appropriate surround mode according to the incoming audio signals.

##### Movie (MOVIE)

For movie or multichannel music sources.

##### Wide/2 channel (WIDE/2CH)

For 2 channel music sources.

##### Super wide (SUPER W)

Reproduces broader sound field.

#### NOTE

- For ASF, MPEG-2, MPEG-1 and DivX, the surround mode does not take effect.

Continued on the next page...

## ■ When the speaker position mode is "S. SPK R" (Only when you connect optional speakers)



## ■ Auto Surround (AUTO SUR)

This function automatically selects the appropriate surround mode according to the incoming signals. For example, a multichannel source is automatically reproduced in multichannel surround.

## ■ Dolby Surround

### Dolby Pro Logic II

Dolby Pro Logic II has a developed multichannel playback format to decode all 2 channel sources — stereo source and Dolby Surround encoded source — into a 5.1 channel. Dolby Pro Logic II has two modes — Movie mode and Music mode:

#### • Pro Logic II Movie (MOVIE)\*

Suitable for the reproduction of Dolby Surround encoded sources.

#### • Pro Logic II Music (MUSIC)\*

Suitable for the reproduction of any 2 channel stereo music sources.

## ■ Dolby Digital (DOLBY D)

Used to reproduce multichannel soundtracks of software encoded with Dolby Digital.

- There are other encoding formats of digital surround introduced by Dolby Laboratories, such as Dolby Digital EX.

## ■ DTS (DTS)

Used to reproduce multichannel soundtracks of software encoded with DTS.

DTS is another discrete multichannel digital audio format available on CD and DVD software.

- There are other encoding formats of multichannel digital surround introduced by DTS, Inc., such as DTS-ES, DTS 96/24.

## ■ DSP

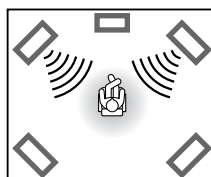
### • Stadium (STADIUM)\*

STADIUM mode adds clarity and spreads the sound, like in an outdoor stadium.

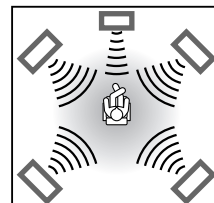
### • All Channel Stereo (ALL ST)\*

All Channel Stereo (ALL ST) mode can reproduce a larger stereo sound field using all the connected (and activated) speakers.

Normal stereo sound



All Channel Stereo



\* Available only for 2 channel source.

## NOTE

- For ASF, MPEG-2, MPEG-1 and DivX (except DivX version 6), the surround mode takes no effects.

## Using the on-screen bar

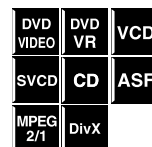
You can check disc information and you can use some functions using the on-screen bar.

## Showing the on-screen bar

■ Whenever a disc is loaded

### Press ON SCREEN.

Each time you press the button, the on-screen bar changes as follows on the TV screen.



Example: During DVD VIDEO playback



OFF

(The on-screen bar disappears)



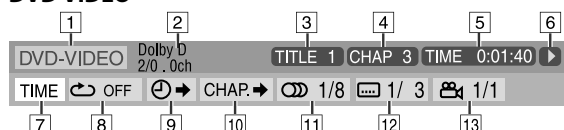
(back to the beginning)

- The currently selected item is shown green.

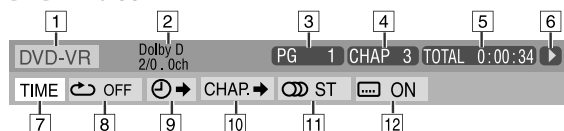


## ■ Contents of the on-screen bar during playback

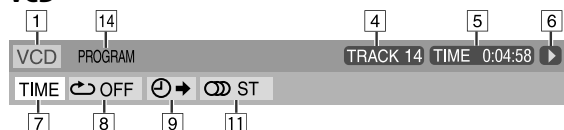
### DVD VIDEO



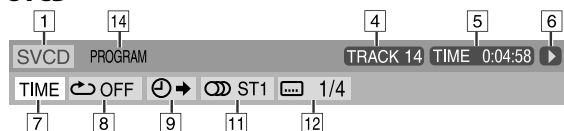
### DVD VR disc



### VCD



### SVCD



### CD



### ASF/MPEG-2/MPEG-1/DivX



- 1 Shows the disc type.
- 2 Shows the audio information.
- 3 For DVD VIDEO: Shows the current title number.  
For DVD VR: Shows the current play mode (PG: for Original program, PL: for Playlist) and program/playlist number.
- 4 For DVD VIDEO and DVD VR: Shows the current chapter number.  
For other type of discs: Shows the current track number.
- 5 Shows the time information. See "Changing the time information". (See the right column.)
- 6 Shows the playback status.  
▶: appears during playback.  
▶▶ / ◀◀: appears during fast forward/reverse.  
▶ / ◀: appears during playback in forward slow-motion/reverse slow-motion.  
||: appears when paused.  
■: appears when stopped.

- 7 Select this to change the time information (5). See "Changing the time information" below.
- 8 Select this for Repeat Playback. (See page 29.)
- 9 Select this for the time search. (See page 24.)
- 10 Select this for the chapter search. (See page 24.)
- 11 Select this to change the audio language or channel. (See page 27.)
- 12 Select this to change the subtitle language. (See page 26.)
- 13 Select this to change the view angle. (See page 26.)
- 14 Shows Playback mode status.  
**PROGRAM:** appears during Program Playback. (See page 28.)  
**RANDOM:** appears during Random Playback. (See page 29.)
- 15 Shows Repeat mode status. (See page 29.)

## Changing the time information

You can change the time information in the on-screen bar on the TV screen and the display window of the center unit.



### ■ During playback

#### 1 Press ON SCREEN twice.

The on-screen bar appears on the TV screen.

#### 2 Press Cursor ▶ / ◀ to highlight

TIME .

#### 3 Press ENTER repeatedly to select the desired information.

Example: When the elapsed playing time of the disc is selected.

TOTAL 1:25:58

### ■ DVD VIDEO/DVD VR

- TIME: Elapsed playing time of the current chapter
- REM: Remaining time of the current chapter
- TOTAL: Elapsed time of the title/program
- T. REM: Remaining time of the title/program

### ■ VCD/SVCD/CD

- TIME: Elapsed playing time of the current track
- REM: Remaining time of the current track
- TOTAL: Elapsed time of the disc
- T. REM: Remaining time of the disc

#### 4 Press ON SCREEN.

The on-screen bar disappears.


### NOTE

- When playing back DVD VR, "TIME" and "REM" cannot be shown.

## Playing from a specified position on a disc

You can start playing a specific title, chapter or track. You can also play a disc from a specified time.

### Locating a particular scene from the DVD menu

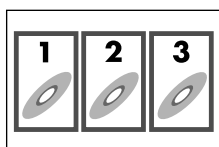
DVD VIDEOS generally have their own menus which show the disc contents and you can display them on the TV screen. You can locate a desired scene by using these menus. 

■ When a DVD VIDEO is loaded

#### 1 Press TOP MENU/PG or MENU/PL.

The menu appears on the TV screen.

Example:



Normally, a DVD VIDEO which contains more than one title will have a “top” menu which lists the titles. Press TOP MENU/PG to show the title menu.

Some DVD VIDEO may also have a different menu which is shown by pressing MENU/PL.

- See the instructions for each DVD VIDEO regarding its particular menu.

#### 2 Use Cursor ►/◄/▼/▲ to select a specific item.



#### 3 Press ENTER.

- With some discs, you can also select items by entering the corresponding number using the number buttons.

#### NOTE

- This feature may not work for some discs.

### Locating a particular scene using a VCD/SVCD menu with PBC

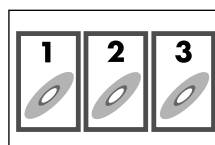
A VCD or SVCD recorded with PBC has its own menus such as a list of the contained songs.  

You can locate a specific scene by using these menus.

■ During playback with PBC function

**When the menu appears, press the number buttons (1-10,  $\geq 10$ ) to select the number of the desired item.**

Example:



- For details on using the number buttons, see “How to use the number buttons”. (See page 18.)

#### To return to the menu

Press RETURN repeatedly while holding SHIFT until the menu screen appears.

#### When “NEXT” or “PREVIOUS” is shown on the TV screen:

- To go to the next page, press ►|.
- To return to the previous page, press |◄◄.

#### NOTE

- If you want to play a PBC-compatible VCD/SVCD without using the PBC function, perform any of the following:
  - Start playback by pressing the number buttons while stopped.
  - Press ►| repeatedly until the desired track number is displayed, then start playback by pressing DVD ► (play button). The track number appears on the display window instead of “PBC”.
- To activate the PBC function when playing a PBC-compatible VCD/SVCD without using the PBC function, perform the following:
  - Press ■ twice to stop playback, then press DVD ► (play button).

## Locating a particular chapter using the on-screen bar

- During playback

### 1 Press ON SCREEN twice.

The on-screen bar appears on the TV screen.

### 2 Press Cursor ► / ◄ to highlight

CHAP.►.

### 3 Press ENTER.

Example: During DVD VIDEO playback



### 4 Press the number buttons (0-9) to enter the particular chapter number.

Example:

To select 8: Press 8.

To select 10: Press 1, then 0.

To select 20: Press 2, then 0.

To select 37: Press 3, then 7.

- To correct a misentry, enter the number again.

### 5 Press ENTER.

### 6 Press ON SCREEN.

The on-screen bar disappears.

#### NOTE

- You can select up to the 99th chapter.

## Locating a particular position by specifying the time

You can locate a particular position by specifying the time from the beginning of the disc (while stopped) or the current title/program/track (during playback).

- For DVD VIDEO/DVD VR: During playback

- For VCD/SVCD: While stopped or during playback without PBC function

- For CD: During playback or while stopped



- When specifying the elapsed playing time from the beginning of the disc

Perform the following procedure while stopped.

- When specifying the elapsed playing time from the beginning of the current title/program/track

Perform the following procedure during playback.

### 1 Press ON SCREEN twice.

The on-screen bar appears on the TV screen.

### 2 Press Cursor ► / ◄ to highlight

⌚►.

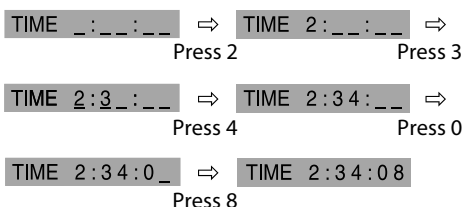
### 3 Press ENTER.



### 4 Press the number buttons (0-9) to enter the time.

You can specify the elapsed playing time from the beginning of the disc (while stopped) or from the beginning of the current title/program/track (during playback).

Example: To play back from a point of 2 (hours): 34 (minutes): 08 (seconds) elapsed



#### To cancel a misentry

Press Cursor ◄ repeatedly.

### 5 Press ENTER.

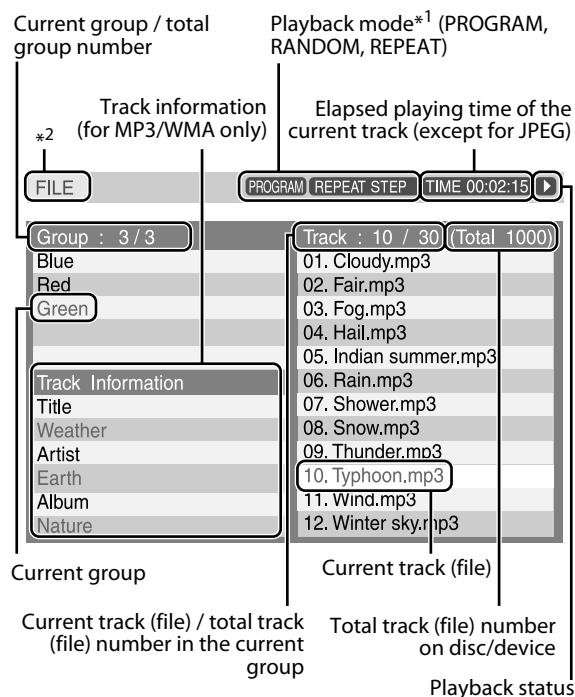
### 6 Press ON SCREEN.

The on-screen bar disappears.

## Using the file control display

You can search for and play particular groups and tracks/files using the file control display on the TV screen.

Example: When the source is DVD



\*1 The Program Playback and Random Playback are available only for MP3/WMA files on a disc.

\*2 When the source is USB MEMORY, "USB" appears.

The file control display appears automatically during playback (for MP3/WMA) or while stopped.

■ For MP3/WMA: During playback or while stopped

■ For JPEG/ASF/MPEG-2/MPEG-1/DivX: While stopped

### 1 Press Cursor ► / ◀ / ▼ / ▲ to select the desired group/track/file.

- For MP3/WMA: playback starts from the selected track.
- For JPEG: proceed to perform the following operation.

### 2 Press the play button for the corresponding source (DVD ► or USB MEMORY ►) or ENTER.

- Track playback/slide-show starts from the selected track/file.
- When you press ENTER for JPEG, only the selected file is played back.

### To skip the file during playback

Press ►|/◀ or Cursor ▲/▼.

### NOTE

- You can also check the playback information in the display window. (See page 17.)
- Some group, track and file names may not be displayed correctly depending on the recording conditions.
- The order of groups, tracks, and files may be displayed differently from the order displayed on your personal computer.

## Resume Playback

When Resume Playback is set to "ON" (see page 34) and you stop playback by the following operations, the position where playback has been stopped is stored. (RESUME indicator lights on the display window.)

|           |         |     |
|-----------|---------|-----|
| DVD VIDEO | DVD VR  | VCD |
| SVCD      | MP3 WMA | ASF |
| MPEG 2/1  | DivX    |     |

- Turning off the power
- Pressing ■ once
- Changing the source

### To start playback from the stored position

- Press the play button for the corresponding source (DVD ► or USB MEMORY ►) on the remote control or ► (play button) on the center unit.
- Select DVD or USB MEMORY as the source again if you changed the source.

### To clear the stored position

Press ■ again.

- Opening the disc tray or disconnecting the USB mass storage class device also clears the stored position.

### NOTE

- For DivX: The beginning of a scene where playback has been stopped may be stored.

## Selecting a view angle

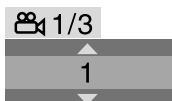
- During playback of a disc containing multi-view angles



When using the **ANGLE** button:

### 1 Press **ANGLE** while holding **SHIFT**.

Example: The first view angle is selected out of the 3 view angles recorded.



### 2 Press **ANGLE** repeatedly while holding **SHIFT**, or **Cursor ▼/▲** to select the desired view angle.

When using the on-screen bar:

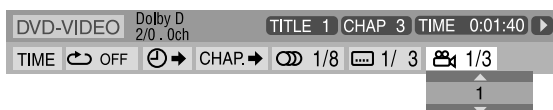
### 1 Press **ON SCREEN** twice.

The on-screen bar appears on the TV screen.

### 2 Press **Cursor ►/◄** to highlight



### 3 Press **ENTER**.



### 4 Press **Cursor ▼/▲** to select the desired view angle.

### 5 Press **ENTER**.

### 6 Press **ON SCREEN**.

The on-screen bar disappears.

## Selecting the subtitle

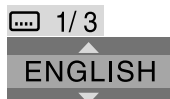
- During playback of a disc/file containing subtitles in several languages



When using the **SUBTITLE** button:

### 1 Press **SUBTITLE**.

Example (DVD VIDEO): “ENGLISH” is selected out of the 3 subtitle languages recorded.



- Each time you press **SUBTITLE**, the subtitles appear and disappear alternately.

### 2 Press **Cursor ▼/▲** to select the desired subtitle.

For DVD VR

- Pressing **SUBTITLE** activates the subtitles (subpictures) regardless of whether the subtitles are recorded or not. (Subpictures will not change if none are recorded.)

For SVCD

- An SVCD can contain up to four subtitles. Pressing **SUBTITLE** changes the subtitles regardless of whether the subtitles are recorded or not. (Subtitles will not change if none are recorded.)

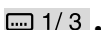
When using the on-screen bar:

- For DivX, you cannot change the subtitle using the on-screen bar.

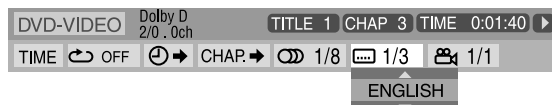
### 1 Press **ON SCREEN** twice.

The on-screen bar appears on the TV screen.

### 2 Press **Cursor ►/◄** to highlight



### 3 Press **ENTER**.



### 4 Press **Cursor ▼/▲** repeatedly to select the desired subtitles.

### 5 Press **ENTER**.

### 6 Press **ON SCREEN**.

The on-screen bar disappears.

#### NOTE

- Some subtitle or audio languages are abbreviated in the pop-up window. See “The language codes list”. (See page 34.)

## Selecting the audio

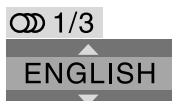
- During playback of a disc/file containing audio in several languages



When using the AUDIO button:

### 1 Press AUDIO.

Example (DVD VIDEO): "ENGLISH" is selected out of the 3 audio languages recorded.



### 2 Press AUDIO repeatedly or Cursor ▼/▲ to select the desired audio.

When using the on-screen bar:

- For DivX, you cannot change the audio language using the on-screen bar.

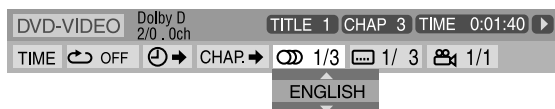
### 1 Press ON SCREEN twice.

The on-screen bar appears on the TV screen.

### 2 Press Cursor ►/◄ to highlight



### 3 Press ENTER.



### 4 Press Cursor ▼/▲ to select the desired audio.

### 5 Press ENTER.

### 6 Press ON SCREEN.

The on-screen bar disappears.

#### NOTE

- Some subtitle or audio languages are abbreviated in the pop-up window. See "The language codes list". (See page 34.)
- "ST", "L", or "R" is displayed when playing a VCD respectively representing "stereo", "left sound" and "right sound".  
When playing an SVCD, "ST1", "ST2", "L1", "R1", "L2", or "R2" is displayed.
- While playing DVD VR/DivX, the audio stream is displayed by its number like "1" or "2".
- While playing DVD VR having two audio streams of multichannel and stereo, the indication changes like "1", "ST2", "L2", or "R2".

## Special picture playback

### Frame-by-frame playback

- During playback

#### Press II repeatedly.

Each time you press the button, the still picture advances by one frame.



#### To return to normal playback

Press the play button for the corresponding source (DVD ► or USB MEMORY ►).

### Playing back in slow-motion

- During playback

#### 1 Press II at the point where you want to start playback in slow-motion from.

The system pauses playback.

#### 2 Press SLOW ⊕.

Playback in forward slow-motion starts.

Each time you press the button, the playback speed becomes faster (1/32, 1/16, 1/8, 1/4, 1/2).

For DVD VIDEO only:

- To play back in reverse slow-motion, press SLOW ⊖.

#### To return to normal playback

Press DVD ►.

#### NOTE

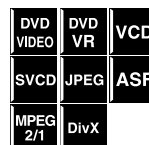
- Sound cannot be heard during slow-motion playback.

### Zooming in

- During playback or while paused

#### 1 Press ZOOM while holding SHIFT.

Each time you repeat the procedure, the scene magnification changes.



#### 2 While zoomed in, press Cursor ►/◄/▼/▲ to move zoom-in area.

#### To return to normal playback

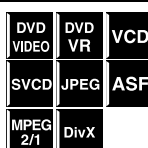
Press ZOOM repeatedly while holding SHIFT, to select OFF.

#### NOTE

- The number of the magnification steps varies depending on the disc/file.
- During slide-show playback of JPEG, zooming in is not available. In such a case, press II to pause slide-show playback, then zoom in.
- During playback, Cursor (►/◄/▼/▲) may not work in step 2.

## Changing the VFP setting

The VFP (Video Fine Processor) function enables you to adjust the picture character according to the type of programming, picture tone or personal preference.

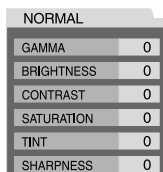


■ During playback

### 1 Press VFP.

The current VFP settings appear on the TV screen.

Example:



### 2 Press Cursor ►/◄ repeatedly to select the VFP mode.

- NORMAL: Normally select this.
- CINEMA: Suitable for movies.
- USER 1 and USER 2: You can adjust parameters that affect picture appearance.

When you select "NORMAL" or "CINEMA", press VFP to complete the setting.

**Only when selecting "USER 1" or "USER 2" in step 2, proceed to perform the following operation;**

### 3 Press Cursor ▼/▲ repeatedly to select the parameter you want to adjust.

Adjust gradually and confirm the picture appearance results as preferred.

- GAMMA: Controls the brightness of neutral tints while maintaining the brightness of dark and bright portions (-3 to +3).
- BRIGHTNESS: Controls the screen brightness (-8 to +8).
- CONTRAST: Controls the screen contrast (-7 to +7).
- SATURATION: Controls the screen color depth (-7 to +7).
- TINT: Controls the screen tint (-7 to +7).
- SHARPNESS: Controls the screen sharpness (-8 to +8).

### 4 Press ENTER.

Example:



### 5 Press Cursor ▼/▲ to change the setting.

### 6 Press ENTER.

The current VFP settings appear again.

### 7 Repeat steps 3 to 6 to adjust other parameters.

### 8 Press VFP.

#### NOTE

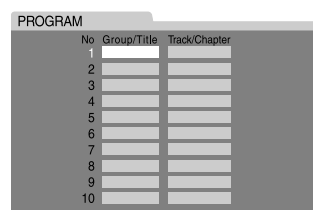
- Although the setting display disappears in the middle of the procedure, the setting at that time will be stored.

## Program Playback

■ While stopped



### 1 Press PLAY MODE repeatedly until program window appears on the TV screen.



- PRG indicator lights up on the display window.

### 2 Follow the instructions that appear on the TV screen to program the desired chapters/tracks.

- For details on using the number buttons, see "How to use the number buttons". (See page 18.)
- The items to be specified for Program Playback varies depending on the disc/file:
  - DVD VIDEO: Titles and chapters
  - VCD, SVCD, CD: Tracks
  - MP3/WMA: Groups and tracks
- You can specify chapters/tracks up to number 99.

Continued on the next page...

### 3 Press DVD ► to start Program Playback.

If all of the programmed tracks/files have been played back, playback stops and the program window appears again. Note that the program setting remains.

#### To clear the programs one by one from the last entered number

Press CANCEL repeatedly.

#### To clear all programs

Press and hold CANCEL. You can also clear the program by turning off the system.

#### To check the program contents

During playback, press ■. Playback stops and the program window appears.

#### To quit the Program Playback

While stopped, press PLAY MODE repeatedly until both the program window and “RANDOM” disappear from the TV screen.

#### NOTE

- When the source is USB MEMORY, Program Playback does not work.
- The Resume function cannot be used with Program Playback.
- Program Playback may not work for some discs.

## Random Playback

You can play titles or tracks on a disc in a random order.



- While stopped

### 1 Press PLAY MODE repeatedly until “RANDOM” appears on the TV screen.

- RND indicator lights up on the display window.

### 2 Press DVD ►.

After playing all titles/tracks on the disc, the system stops playback.

#### To quit the Random Playback

While stopped, press PLAY MODE repeatedly until both the program window and “RANDOM” disappear from the TV screen.

You can also clear the Random mode by turning off the system.

#### NOTE

- When the source is USB MEMORY, Random Playback does not work.
- The same title/track will not be played back more than once during Random Playback.

## Repeat Playback

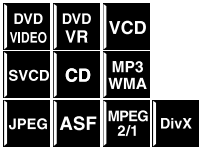
### Repeating the current selection

- For DVD VIDEO/DVD VR:

During playback

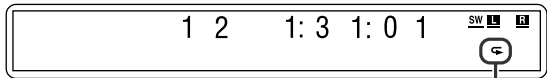
- For VCD/SVCD: During playback without the PBC function or while stopped

- For CD/MP3/WMA/JPEG/ASF/MPEG-2/MPEG-1/DivX: During playback or while stopped



#### When using the REPEAT button:

Press REPEAT while holding SHIFT.



Repeat mode indicator

Each time you press REPEAT, the Repeat mode changes.

| Display window | TV screen                    | Meanings   |
|----------------|------------------------------|--|
|                | GROUP                        | Repeats the current group for MP3/WMA/JPEG/ASF/MPEG-2/MPEG-1/DivX.               |
|                | TITLE                        | Repeats the current title for DVD VIDEO.   |
|                | PG                           | Repeats the current original program on DVD VR.                                  |
|                | PL                           | Repeats the current playlist on DVD VR.  |
|                | ALL                          | Repeats all contents for DVD VR/VCD/SVCD/CD/MP3/WMA/JPEG/ASF/MPEG-2/MPEG-1/DivX. |
|                | REPEAT ALL                   |  |
|                | TRACK ,<br>STEP              | Repeats the current track for VCD/SVCD/CD/MP3/WMA/ASF/MPEG-2/MPEG-1/DivX.        |
|                | REPEAT TRACK,<br>REPEAT STEP |  |
|                | CHAP ,<br>STEP               | Repeats the current chapter for DVD VIDEO/DVD VR.                                |
| No indication  | OFF                          | Repeat mode is off. The system plays back the disc/file normally.                |



When using the on-screen bar (except for MP3/WMA/JPEG/ASF/MPEG-2/MPEG-1/DivX):

- 1 Press ON SCREEN twice.  
The on-screen bar appears on the TV screen.
  - 2 Press Cursor ► / ◄ to highlight **OFF**.
  - 3 Press ENTER.
- 
- 4 Press Cursor ▼ / ▲ repeatedly to select the Repeat mode.
  - 5 Press ENTER.
  - 6 Press ON SCREEN.  
The on-screen bar disappears.

To cancel Repeat Playback

Select "OFF" in step 4.

Repeating a particular part [A-B Repeat]

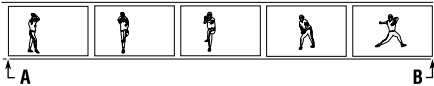
You can repeat playback of a particular part by specifying the beginning (point A) and ending (point B).



■ During playback

When using the A-B RPT button:

- 1 Press A-B RPT while holding **SHIFT**, at the beginning of the part you want to repeat (point A).  
The repeat mode indicator "A -" appears on the display window.
- 2 Press A-B RPT again while holding **SHIFT**, at the end of the part you want to repeat (point B).  
The repeat mode indicator on the display window changes to "A - B" and A-B Repeat Playback starts. The selected part of the disc (between point A and B) is played repeatedly.



To cancel

Press A-B RPT while holding SHIFT during A-B Repeat Playback.

Continued on the next page...

When using the on-screen bar:

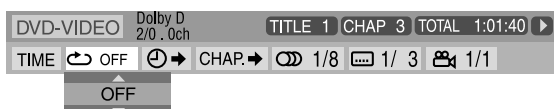
# 1 Press ON SCREEN twice.

The on-screen bar appears on the TV screen.

# 2 Press Cursor ► / ◄ to highlight

↺ OFF.

# 3 Press ENTER.



# 4 Press Cursor ▼ / ▲ repeatedly to select "A-B".

# 5 Press ENTER at the beginning of the part you want to repeat (point A).



# 6 Press ENTER at the end of the part you want to repeat (point B).

A-B Repeat Playback starts.

# 7 Press ON SCREEN.

The on-screen bar disappears.

## To cancel

Select "OFF" in step 4, then press ENTER.

## NOTE

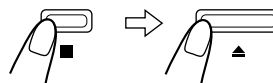
- When playing back a DVD VIDEO, A-B Repeat Playback is possible only within the same title.
- "A-B" cannot be selected during Program and Random Playback.
- "A-B" cannot be selected during playback with the PBC function.

## Tray lock

You can lock the tray and prohibit unwanted disc ejection.

### On the center unit ONLY:

While the system is on standby mode, press ▲, while holding ■.



Press and hold

- "LOCKED" appears on the display window.
- If you try to eject the disc, "LOCKED" appears to indicate that the tray is locked.

### To cancel

Carry out the same operation again.

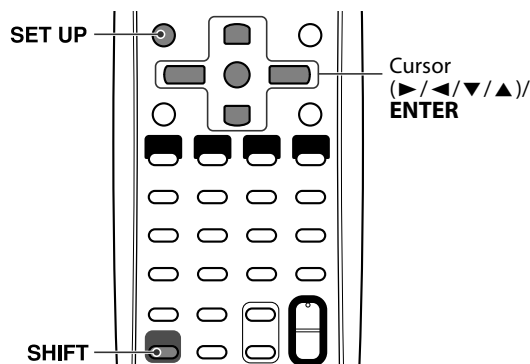
- "UNLOCKED" appears on the display window.

# Setting DVD preferences

## Using the setup menus

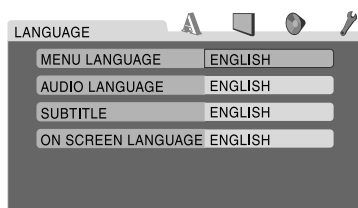
- You can change the language used in the setup menus. See “Menu description”.

## Basic operation on the setup menus



■ While stopped

### 1 Press SET UP, while holding SHIFT.



### 2 Follow the instructions on the TV screen.

## Menu description

### A : Language menu (LANGUAGE)

#### ■ MENU LANGUAGE

Some DVDs have their own menus in multiple languages.

- Select the initial menu language\*.

#### ■ AUDIO LANGUAGE

Some DVDs have multiple audio languages.

- Select the initial audio language\*.

#### ■ SUBTITLE

Some DVDs have multiple subtitle languages.

- Select the initial subtitle language\*.

#### ■ ON SCREEN LANGUAGE

- Select the language shown on the TV screen when operating this system.

\* When the language you have selected is not recorded on a disc, the original language is automatically used as the initial language.

Some languages are represented with the language codes (ex.: “AA” for Afar) instead of their names. If the language you want to select is not shown with its name, see “The language codes list” (see page 34) to look up its language code.

### Picture menu (PICTURE)

#### ■ MONITOR TYPE

You can select the monitor type to match your TV when you play DVDs recorded with a picture height/width ratio of 16:9.

##### • 16:9 (Wide television conversion)

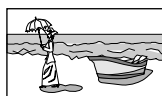
Select this when the aspect ratio of your TV is 16:9 (wide TV).

##### • 4:3 LB (Letter Box conversion)

Select this when the aspect ratio of your TV is 4:3 (conventional TV). While viewing a wide screen picture, black bars appear on the top and the bottom of the screen.

##### • 4:3 PS (Pan Scan conversion)

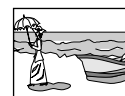
Select this when the aspect ratio of your TV is 4:3 (conventional TV). While viewing a wide screen picture, black bars do not appear, however, the left and right edges of the pictures will not be shown on the screen.



Ex.: 16:9



Ex.: 4:3 LB



Ex.: 4:3 PS

#### NOTE

- Even if “4:3 PS” is selected, the screen size may become “4:3 LB” with some DVDs. This depends on how the DVD was recorded.

#### ■ PICTURE SOURCE

You can obtain optimal picture quality by selecting whether the content on the disc/file is processed by field (video source) or by frame (film source).

Normally set to “AUTO”.

##### • AUTO

Used to play a disc/file containing both video and film source materials.

This system recognizes the source type (video or film) of the current disc/file according to the disc/file information.

– If the playback picture is unclear or noisy, or the oblique lines of the picture are rough, try to change to other modes.

##### • FILM

Suitable for playing back a film source disc/file.

##### • VIDEO

Suitable for playing back a video source disc/file.

## Setting DVD preferences

### ■ SCREEN SAVER (See page 18.)

You can activate or deactivate Screen Saver.

### ■ FILE TYPE

When several types of files are recorded on a disc/device, you can select which files to play.

#### • AUDIO

Select this to play MP3/WMA files.

#### • STILL PICTURE

Select this to play JPEG files.

#### • VIDEO

Select this to play ASF/MPEG-2/MPEG-1/DivX files.

## : Audio menu (AUDIO)

### ■ D. RANGE COMPRESSION

(Dynamic range compression)

You can enjoy low level recorded sound clearly at night even at a low volume when listening to the sound with Dolby Digital.

#### • AUTO

Select this when you want to enjoy surround sound with its full dynamic range (no effect applied).

#### • ON

Select this when you want to fully apply the compression effect (useful at midnight).

### NOTE

- When you play a multichannel Dolby Digital source with the surround mode is off, the setting of D. RANGE COMPRESSION is set to ON automatically.

### ■ DOWN MIX

You can select the signals to send to the SPEAKERS terminals when the surround mode is "OFF".

#### • DOLBY SURROUND

Select this to send the downmixed Dolby Surround compatible signals.

#### • STEREO

Usually select this. The system sends 2 channel stereo signals.

### NOTE

- DOWN MIX setting does not appear when the speaker position mode is set to "S. SPK R".



## : Speaker setting menu (SPK. SETTING)



SPK. SETTING menu is available only when you connect optional speakers (see page 7) and speaker position mode is set to "S. SPK R" (see page 15).

### ■ Level menu (LEVEL)

#### FRONT LEFT SPEAKER/FRONT RIGHT SPEAKER/ CENTER SPEAKER/SURROUND RIGHT SPEAKER/ SURROUND LEFT SPEAKER

While monitoring the test tone, adjust the output level of the speakers.

You can adjust the output level from -6 dB to +6 dB.

### TEST TONE\*

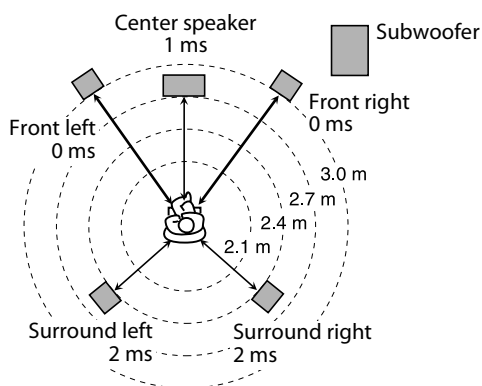
Outputs the test tone.

\* The test tone comes out of all of the active speakers in the following sequence:

⇒ Front left speaker ⇒ Center speaker ⇒ Front right speaker ⇒ Surround right speaker ⇒ Surround left speaker ⇒ (back to the beginning)

### ■ Delay menu (DELAY)

Example:



A 1 ms increase (or decrease) in delay time corresponds to about 30 cm decrease (or increase) in distance.

Set to "0 ms" for the furthest speaker from your position as the basis for the delay time setting.

In this case, set the delay time of each speaker as follows:

- Delay time of the front speakers: 0 ms
- Delay time of the center speaker: 1 ms
- Delay time of the surround speakers: 2 ms

#### FRONT LEFT SPEAKER/FRONT RIGHT SPEAKER/ CENTER SPEAKER/SURROUND RIGHT SPEAKER/ SURROUND LEFT SPEAKER

Adjust the distance from the listening position to the speakers.

Within the range from 0 ms to 15 ms (by 1 ms).

## Setting DVD preferences

### ■ Subwoofer menu (SUBWOOFER)

#### LEVEL

You can set the output level of the subwoofer from -6 dB to +6 dB.

#### CROSS OVER

The signals below the preset frequency level will be sent to and be reproduced by the subwoofer.

Select one of the crossover frequency levels according to the size of the small speaker connected.

- **120Hz:** Select when the cone speaker unit built into the speaker is about 8 cm.
- **150Hz:** Select when the cone speaker unit built into the speaker is about 6 cm.
- **200Hz:** Select when the cone speaker unit built into the speaker is about 5 cm.



### : Other setting menu (OTHERS)

#### ■ RESUME (See page 25.)

You can activate or deactivate the Resume Playback function.

#### ■ ON SCREEN GUIDE

You can activate or deactivate the on-screen guide icons. (See page 16.)

#### ■ DivX registration menu (DivX REGISTRATION)

The system has its own Registration Code for DivX playback.

You can confirm the code of your system.

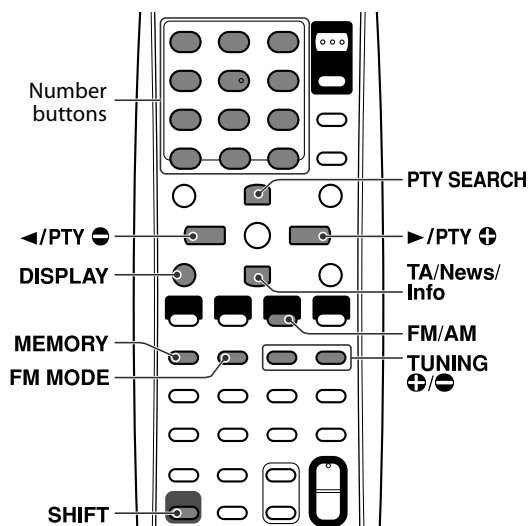
- Once you play back a disc created by using the Registration Code, the system's code is overwritten by a totally new one for the purpose of copyright protection.

## The language codes list

|    |                 |    |              |    |                  |    |                |    |                |    |            |
|----|-----------------|----|--------------|----|------------------|----|----------------|----|----------------|----|------------|
| AA | Afar            | EO | Esperanto    | IW | Hebrew           | MO | Moldavian      | SG | Sangho         | TO | Tonga      |
| AB | Abkhazian       | ET | Estonian     | JI | Yiddish          | MR | Marathi        | SH | Serbo-Croatian | TR | Turkish    |
| AF | Afrikaans       | EU | Basque       | JW | Javanese         | MS | Malay (MAY)    | SI | Singhalese     | TS | Tsonga     |
| AM | Ameharic        | FA | Persian      | KA | Georgian         | MT | Maltese        | SL | Slovenian      | TT | Tatar      |
| AR | Arabic          | FI | Finnish      | KK | Kazakh           | MY | Burmese        | SM | Samoaan        | TW | Twi        |
| AS | Assamese        | FJ | Fiji         | KL | Greenlandic      | NA | Nauru          | SN | Shona          | UK | Ukrainian  |
| AY | Aymara          | FO | Faroeese     | KM | Cambodian        | NE | Nepali         | SO | Somali         | UR | Urdu       |
| AZ | Azerbaijani     | FY | Frisian      | KN | Kannada          | NL | Dutch          | SQ | Albanian       | UZ | Uzbek      |
| BA | Bashkir         | GA | Irish        | KO | Korean (KOR)     | NO | Norwegian      | SR | Serbian        | VI | Vietnamese |
| BE | Byelorussian    | GD | Scots Gaelic | KS | Kashmiri         | OC | Occitan        | SS | Siswati        | VO | Volapuk    |
| BG | Bulgarian       | GL | Galician     | KU | Kurdish          | OM | (Afan) Oromo   | ST | Sesotho        | WO | Wolof      |
| BH | Bihari          | GN | Guarani      | KY | Kirghiz          | OR | Oriya          | SU | Sundanese      | XH | Xhosa      |
| BI | Bislama         | GU | Gujarati     | LA | Latin            | PA | Panjabi        | SV | Swedish        | YO | Yoruba     |
| BN | Bengali, Bangla | HA | Hausa        | LN | Lingala          | PS | Pashto, Pushto | SW | Swahili        | ZU | Zulu       |
| BO | Tibetan         | HI | Hindi        | LO | Laothian         | PT | Portuguese     | TA | Tamil          |    |            |
| BR | Breton          | HR | Croatian     | LT | Lithuanian       | QU | Quechua        | TE | Telugu         |    |            |
| CA | Catalan         | HY | Armenian     | LV | Latvian, Lettish | RM | Rhaeto-Romance | TG | Tajik          |    |            |
| CO | Corsican        | IA | Interlingua  | MG | Malagasy         | RN | Kirundi        | TH | Thai           |    |            |
| CY | Welsh           | IE | Interlingue  | MI | Maori            | RO | Rumanian       | TI | Tigrinya       |    |            |
| DA | Danish          | IK | Inupiak      | MK | Macedonian       | RW | Kinyarwanda    | TK | Turkmen        |    |            |
| DZ | Bhutani         | IN | Indonesian   | ML | Malayalam        | SA | Sanskrit       | TL | Tagalog        |    |            |
| EL | Greek           | IS | Icelandic    | MN | Mongolian        | SD | Sindhi         | TN | Setswana       |    |            |

# Tuner operations

The buttons described below are used on pages 35 to 38.



## Preset tuning

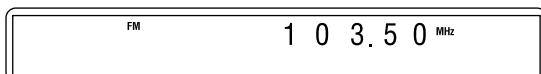
Once a station is assigned to a channel number, it can be quickly tuned in. You can preset 30 FM and 15 AM (MW) stations.

### ■ To preset the stations

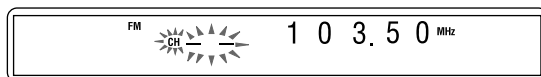
#### 1 Tune in the station you want to preset.

- If you want to store the FM reception mode for an FM station, select the reception mode you want. See “Selecting the FM reception mode”. (See page 36.)

Example: When the system is tuned in to 103.5 MHz.



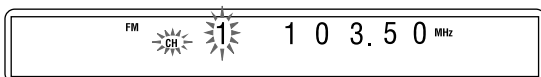
#### 2 Press MEMORY.



#### 3 Press the number button(s) (1-10, ≥ 10) to select a preset number you want.

- For details on using the number buttons, see “How to use the number buttons”. (See page 18.)

Example: When the preset channel 1 is selected.



If the setting is canceled before you finish, start from step 2 again.

#### 4 Press MEMORY.

“STORED” appears on the display window.

The station is assigned to the selected preset number. If the setting is canceled before you finish, start from step 2 again.

#### 5 Repeat steps 1 to 4.

- Storing a new station to a used number erases the previously stored one.

### ■ To tune in to a preset station

#### 1 Press FM/AM repeatedly to select FM or AM.

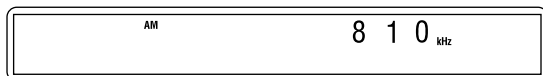
#### 2 Press the number button(s) (1-10, ≥ 10) to select a preset number.

- For details on using the number buttons, see “How to use the number buttons”. (See page 18.)
- You can also select a preset number by pressing Cursor ▶ and ◀.

## Manual tuning

#### 1 Press FM/AM repeatedly to select the band.

Example: When the system is tuned in to 810 kHz.



#### 2 Press TUNING +/– repeatedly until you find the frequency you want.

- When you press and hold the button, the system automatically searches the station. When a station with sufficient signal strength is tuned in, the system stops searching.

### NOTE

- When an FM stereo program is received, the ST indicator lights up on the display window.

## Selecting the FM reception mode

When the stereo FM program currently tuned in is noisy, you can change the FM reception mode to improve the reception.

■ While listening to an FM station

### Press FM MODE.

The FM reception mode appears on the display window. Each time you press the button, the FM reception mode changes.

- **AUTO:**  
When a program is broadcast in stereo, you will hear stereo sound. (The ST indicator lights on the display window.) When in monaural, you will hear monaural sound. This mode is also useful to suppress static noise between stations.
- **MONO:**  
Reception will be improved although you will lose the stereo effect. (The MONO indicator lights up on the display window.) In this mode, you will hear noise until you are tuned in to a station.

## Using the Radio Data System when receiving FM stations

The Radio Data System allows FM stations to send an additional signal along with their regular program signals. For example, the stations send their station names, as well as information about what type of program they broadcast, such as sports or music, etc.

With the system, you can receive the following types of Radio Data System signals:

- **PS (Program Service):** Shows commonly known station names.
- **PTY (Program Type):** Shows the types of programs broadcast.
- **RT (Radio Text):** Shows text messages the station sends.
- **Enhanced Other Network:** See page 38.

### NOTE

- The Radio Data System is not available for AM (MW) broadcasts.
- The Radio Data System may not operate correctly if the station tuned in is not transmitting Radio Data System signals properly or if the signal strength is weak.

## ■ To show the Radio Data System signals information Press DISPLAY while holding SHIFT, while listening to an FM station.

Each time you repeat the procedure, the indication on the display window changes.

- **PS (Program Service):**  
While searching, “PS” appears and then the station names will be displayed. “NO PS” appears if no signal is sent.
- **PTY (Program Type):**  
While searching, “PTY” appears and then the type of the broadcast program will be displayed. “NO PTY” appears if no signal is sent.
- **RT (Radio Text):**  
While searching, “RT” appears and then text messages the station sends will be displayed. “NO RT” appears if no signal is sent.
- **Frequency:**  
Station frequency (non-Radio Data System service).

### About characters shown in the display window

When PS, PTY, or RT signals appear in the display window, some special characters and marks may not be displayed correctly.

### NOTE

- If searching finishes immediately, “PS”, “PTY”, and “RT” will not appear on the display window.

## Searching for a program by PTY code

One of the advantages of the Radio Data System service is that you can locate a particular kind of program from the preset channels (see page 35) by specifying the PTY code.

### ■ To search for a program using the PTY code

### NOTE

- Before you start operation:
  - Press FM/AM on the remote control to select an FM station.
  - The PTY Search is only applicable to preset stations.
  - To stop searching any time during the process, press PTY SEARCH while searching.
  - There is a time limit for doing the following steps. If the setting is canceled before you finish, start from step 1 again.

# 1 Press PTY SEARCH while holding SHIFT, while listening to an FM station.

“PTY” and “SELECT” flash alternately in the display window.

■ While “PTY” and “SELECT” is flashing alternately:

# 2 Press PTY ⊕ or PTY ⊖ repeatedly while holding SHIFT, until the PTY code you want appears in the display window.

• For details, see “Description of the PTY codes”.

■ While the PTY code selected in step 2 is still in the display window:

# 3 Press PTY SEARCH again.

While searching, “SEARCH” and the selected PTY code alternate on the display window.

The system searches 30 preset FM stations, stops when it finds the one you have selected, and tunes in that station.

## To continue searching after the first stop

Press PTY SEARCH again while the indications in the display window are flashing.

If no program is found, “NOT FOUND” appears in the display window.

## Description of the PTY codes

|           |   |           |   |
|-----------|---|-----------|---|
| NEWS:     | News.   | FINANCE:  | Stock Market reports, commerce, trading etc.  |
| AFFAIRS:  | Topical program expanding or enlarging upon the news—debate, or analysis.                         | CHILDREN: | Programs targeted at a young audience.  |
| INFO:     | Programs the purpose of which is to provide general information.                                  | SOCIAL:   | Programs about sociology, history, geography, psychology and society.                           |
| SPORT:    | Programs concerned with any aspect of sports.   | RELIGION: | Religious programs.   |
| EDUCATE:  | Educational programs.   | PHONE IN: | Involving members of the public expressing their views either by phone or at a public forum.    |
| DRAMA:    | All radio plays and serials.  | TRAVEL:   | Travel information.   |
| CULTURE:  | Programs concerning any aspect of national or regional culture, including language, theater, etc. | LEISURE:  | Programs about recreational activities.   |
| SCIENCE:  | Programs about natural sciences and technology.   | JAZZ:     | Jazz music.   |
| VARIED:   | Used for mainly speech-based programs such as quizzes, panel games and personality interviews.    | COUNTRY:  | Songs which originate from, or continue the musical traditions of the American Southern States. |
| POP M:    | Commercial music of current popular appeal.   | NATION M: | Current popular music of the nation or region in that country's language.                       |
| ROCK M:   | Rock music.   | OLDIES:   | Music from the so-called “golden age” of popular music.   |
| EASY M:   | Current contemporary music considered to be “easy-listening”.                                     | FOLK M:   | Music which has its roots in the musical culture of a particular nation.                        |
| LIGHT M:  | Instrumental music, and vocal or choral works.  | DOCUMENT: | Programs concerning factual matters, presented in an investigative style.                       |
| CLASSICS: | Performances of major orchestral works, symphonies, chamber music, etc.                           | TEST:     | Broadcasts for testing emergency broadcast equipment or units.                                  |
| OTHER M:  | Music not fitting into any of the other category.   | ALARM:    | Emergency announcements.  |
| WEATHER:  | Weather reports and forecasts.  | NONE:     | No program type, undefined program, or difficult to categorize into a particular type.          |

## NOTE

- Classification of the PTY codes for some FM stations may be different from the above list.



## Switching to a broadcast program of your choice temporarily

Another convenient Radio Data System service is called “Enhanced Other Network”.

This allows the system to switch temporarily to a broadcast program of your choice (TA, News, and Info) from a different station except in the following cases:

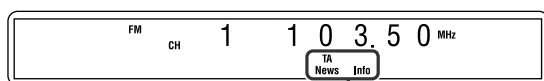
- When you are listening to non-Radio Data System stations (all AM—MW stations, some FM stations and other sources).
- When the system is in standby mode.

### NOTE

- Before you start operations:
  - The Enhanced Other Network function is only applicable to preset stations.

## Press TA/News/Info repeatedly while holding SHIFT, until the program type indicator (TA/News/Info) you want appears in the display window.

Each time you repeat the procedure, the indicator in the display window changes.



The program type indicator

- **TA:** Traffic Announcements in your area.
- **News:** News.
- **Info:** Program the purpose of which is to provide general information.

### To stop listening to the program selected by Enhanced Other Network

Press TA/News/Info repeatedly again so that the program type indicator (TA/News/Info) goes off from the display window. The system exits from Enhanced Other Network standby mode and goes back to the previously selected station.

### When an emergency broadcast (ALARM signal) is sent from an FM station

The system automatically tunes in to the station and “ALARM” appears in the display window while the system is receiving the emergency broadcast.

Note that an emergency broadcast cannot be received in the following cases:

- When you are listening to non-Radio Data System stations (all AM—MW stations, some FM stations and other sources).
- When the system is in standby mode.

### The TEST signal is used for equipment testing—whether it can receive the ALARM signal correctly

The TEST signal makes the system work in the same way as the ALARM signal does. If the TEST signal is received, the system automatically switches to the station broadcasting the TEST signal.

While receiving the TEST signal, “TEST” appears in the display window.

### ■ How the Enhanced Other Network function actually works

#### Case 1

**If there is no station broadcasting the program you have selected**

The system remains tuned in to the current station.



When a station starts broadcasting the program you have selected, the system automatically switches to that station. The indicator of the received PTY code starts flashing.



When the program is over, the system goes back to the previously tuned in station, but the Enhanced Other Network function still remains active.

#### Case 2

**If the FM station you are listening to is broadcasting the program you have selected**

The system continues to receive the station but the indicator of received PTY code starts flashing.



When the program is over, the indicator of the received PTY code stops flashing and remains lit, but the Enhanced Other Network function still remains active.

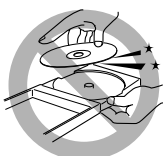
### NOTE

- In Enhanced Other Network standby mode, if you change the source to play, Enhanced Other Network standby mode is canceled temporarily. If you change the source to FM again, the system returns to Enhanced Other Network standby mode.
- Enhanced Other Network data sent from some stations may not be compatible with this system.
- Enhanced Other Network does not function for some FM stations with the Radio Data System service.
- While listening to a program tuned in by the Enhanced Other Network function, the station does not change even if another network station starts broadcasting a program with the same Enhanced Other Network data.
- While listening to a program tuned in by the Enhanced Other Network function, you can only use TA/News/Info and DISPLAY (while holding SHIFT) as the tuner operation buttons.

## Maintenance

### ■ Handling Discs

- Remove the disc from its case by holding it at the edge while pressing the center hole lightly.
- Do not touch the shiny surface of the disc or bend the disc.
- Put the disc back in its case after use to prevent warping.
- Be careful not to scratch the surface of the disc when placing it back in its case.
- Avoid exposure to direct sunlight, extreme temperature and moisture.



### To clean the disc

Wipe the disc with a soft cloth in a straight line from center to edge.

- **DO NOT use any solvents — such as conventional record cleaner, spray, thinner or benzine — to clean the disc.**



### ■ Cleaning the system

- Stains on the system should be wiped off with a soft cloth. If the system is heavily stained, wipe it with a cloth soaked in water diluted neutral detergent and wrung well, then wipe clean with a dry cloth.
- Since the system may deteriorate in quality, become damaged or get its paint peeled off, be careful about the following.
  - DO NOT wipe it with a hard cloth.
  - DO NOT wipe it forcefully.
  - DO NOT wipe it with thinner or benzine.
  - DO NOT apply any volatile substance such as insecticides to it.
  - DO NOT allow any rubber or plastic to remain in contact with it for a long time.

## Troubleshooting

| PROBLEM  | POSSIBLE CAUSE   | SOLUTION   |
|--|--|--|
| Power does not come on.                            | The power cord is not connected.                           | Connect the power cord correctly. (See page 10.)   |
| The remote control does not work.                  | The batteries are exhausted.                               | Replace the batteries. (See page 6.)   |
|  | Sunlight is shining directly on the remote sensor.         | Hide the remote sensor from direct sunlight.   |
| The remote control does not work as expected.      | The remote control mode is not set for the desired source. | Before operation, press one of the source selecting buttons for the desired source.            |
| No sound.  | The speaker cord is not connected.                         | Check the connection. (See page 7.)  |
|  | An incorrect source has been selected.                     | Select the correct source. (See page 13.)  |
| No picture is displayed on the TV screen.          | The SCART cable is not connected correctly.                | Connect the cable correctly. (See page 10.)  |
|  | The disc or file is not playable.                          | Use a playable disc or file. (See pages 3 and 4.)  |
| Video and audio are distorted.                     | The disc is scratched or dirty.                            | Replace or clean the disc.   |
|  | A VCR is connected between the center unit and the TV.     | Connect the center unit and TV directly. (See page 10.)  |
| The picture does not fit the TV screen.            | The monitor type is not set correctly.                     | Set “MONITOR TYPE” properly. (See page 32.)  |
| The broadcast is hard to hear because of noise.    | Antennas are disconnected.                                 | Reconnect the antennas correctly and securely. (See page 9.)                                   |
| The system suddenly turns off.                     | The playback level of the current source is too high.      | Play back the source at a lower volume level.  |
| The sound from the optional speakers is distorted. | Speaker position mode is incorrect.                        | Set the speaker position mode to “S. SPK R” when you connect optional speakers. (See page 15.) |

## Specifications

### ■ Center unit (XV-THU1)

#### Audio section

|                 |   |
|-----------------|---|
| Front/Surround: | 40 W per channel, RMS at 3 Ω at 1 kHz, with 10 % total harmonic distortion. |
| Center:         | 100 W, RMS at 4 Ω at 1 kHz, with 10 % total harmonic distortion.            |
| Subwoofer:      | 100 W, RMS at 4 Ω at 30 Hz, with 10 % total harmonic distortion.            |

#### Video section

|   |                 |
|---|-----------------|
| Video System:                             | PAL             |
| Horizontal Resolution:                    | 500 lines       |
| Signal-to-Noise Ratio:                    | 64 dB           |
| (Composite signal when "RGB" is selected) |                 |
| Video output level                        |                 |
| Composite:                                | 1.0 V(p-p)/75 Ω |
| Y:  | 1.0 V(p-p)/75 Ω |
| C:  | 0.3 V(p-p)/75 Ω |
| RGB:                                      | 0.7 V(p-p)/75 Ω |

#### USB storage

|                         |  |
|-------------------------|--|
| USB Specification:      | Compatible with the USB 2.0 Full Speed |
| Compatible Device:      | Mass Storage Class                     |
| Compatible File System: | FAT16, FAT32                           |
| Bus Power Supply:       | Max. 500 mA                            |

#### Tuner section

|              |                         |
|--------------|-------------------------|
| Tuning Range |                         |
| FM:          | 87.50 MHz to 108.00 MHz |
| AM (MW):     | 522 kHz to 1 629 kHz    |

#### General

|                         |  |
|-------------------------|--|
| Power Requirements:     | AC 230 V ~, 50 Hz                              |
| Power Consumption:      | 60 W (at operation)<br>0.9 W (in standby mode) |
| Dimensions (W × H × D): | 435 mm × 70 mm × 308 mm                        |
| Mass:                   | 3.0 kg   |

### ■ Subwoofer (SP-THU1W)

|                          |                          |
|--------------------------|--------------------------|
| Type:                    | Bass-reflex type         |
| Speaker:                 | 16 cm cone × 1           |
| Power Handling Capacity: | 100 W                    |
| Impedance:               | 4 Ω                      |
| Frequency Range:         | 30 Hz to 200 Hz          |
| Sound Pressure Level:    | 72 dB/W·m                |
| Dimensions (W × H × D):  | 214 mm × 296 mm × 329 mm |
| Mass:                    | 4.9 kg                   |

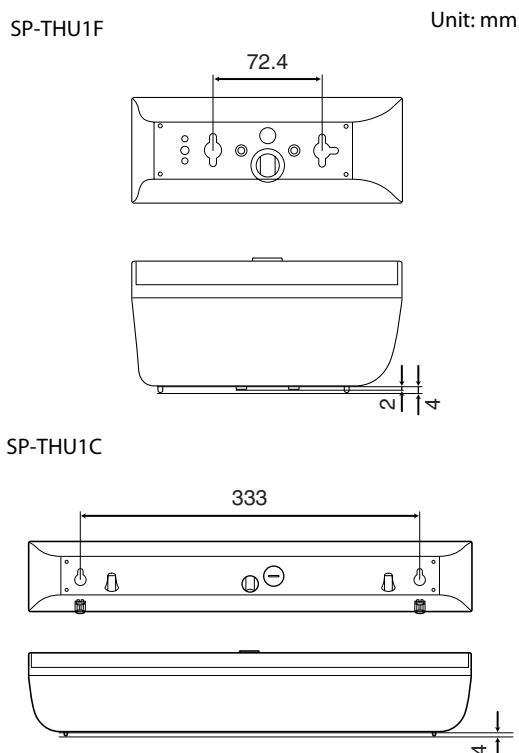
### ■ Front speakers (SP-THU1F)

|                          |   |
|--------------------------|---|
| Type:                    | 1-way 2-speaker bass-reflex type (Magnetically-shielded type) |
| Speaker:                 | 5.5 cm cone × 2   |
| Power Handling Capacity: | 40 W  |
| Impedance:               | 3 Ω   |
| Frequency Range:         | 100 Hz to 20 000 Hz   |
| Sound Pressure Level:    | 79 dB/W·m   |
| Dimensions (W × H × D):  | 180 mm × 73 mm × 91 mm  |
| Mass:                    | 0.77 kg each  |

### ■ Center surround speaker (SP-THU1C)

|                          |   |
|--------------------------|---|
| Type:                    |   |
| Center:                  | 1-way 2-speaker bass-reflex type (Magnetically-shielded type) |
| Surround Left:           | 1-way bass-reflex type (Magnetically-shielded type)           |
| Surround Right:          | 1-way bass-reflex type (Magnetically-shielded type)           |
| Speaker:                 |   |
| Center:                  | 5.5 cm cone × 2   |
| Surround Left:           | 5.5 cm cone × 1   |
| Surround Right:          | 5.5 cm cone × 1   |
| Power Handling Capacity: |   |
| Center:                  | 100 W   |
| Surround Left:           | 40 W  |
| Surround Right:          | 40 W  |
| Impedance:               |   |
| Center:                  | 4 Ω   |
| Surround Left:           | 3 Ω   |
| Surround Right:          | 3 Ω   |
| Frequency Range:         | 100 Hz to 20 000 Hz   |
| Sound Pressure Level:    |   |
| Center:                  | 80 dB/W·m   |
| Surround Left:           | 77 dB/W·m   |
| Surround Right:          | 77 dB/W·m   |
| Dimensions (W × H × D):  | 435 mm × 74 mm × 91 mm  |
| Mass:                    | 1.6 kg  |

#### Dimensions of the wall-mount attachment for the front and center surround speakers:



Designs and specifications are subject to change without notice.

## SAFETY INSTRUCTIONS

### “SOME DOS AND DON'TS ON THE SAFE USE OF EQUIPMENT”

This equipment has been designed and manufactured to meet international safety standards but, like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.

\*\*\*\*\*

Do read the operating instructions before you attempt to use the equipment.

Do ensure that all electrical connections (including the mains plug, extension leads and interconnections between pieces of equipment) are properly made and in accordance with the manufacturer's instructions. Switch off and withdraw the mains plug when making or changing connections.

Do consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.

Do be careful with glass panels or doors on equipment.

\*\*\*\*\*

DON'T continue to operate the equipment if you are in any doubt about it working normally, or if it is damaged in any way — switch off, withdraw the mains plug and consult your dealer.

DON'T remove any fixed cover as this may expose dangerous voltages.

DON'T leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a standby mode.

Switch off using the switch on the equipment and make sure that your family know how to do this. Special arrangements may need to be made for infirm or handicapped people.

DON'T use equipment such as personal stereos or radios so that you are distracted from the requirements of traffic safety. It is illegal to watch television whilst driving.

DON'T listen to headphones at high volume as such use can permanently damage your hearing.

DON'T obstruct the ventilation of the equipment, for example with curtains or soft furnishings. Overheating will cause damage and shorten the life of the equipment.

DON'T use makeshift stands and NEVER fix legs with wood screws — to ensure complete safety always fit the manufacturer's approved stand or legs with the fixings provided according to the instructions.

DON'T allow electrical equipment to be exposed to rain or moisture.

ABOVE ALL

—NEVER let anyone, especially children, push anything into holes, slots or any other opening in the case — this could result in a fatal electrical shock.;

—NEVER guess or take chances with electrical equipment of any kind — it is better to be safe than sorry!

E43486-340B

# JVC