Panasonic

Operating Instructions

DVD/CD PLAYER

Model No. **DVD-S33**

Dear customer

Thank you for purchasing this product.
For optimum performance and safety, please read these instructions carefully.

Before connecting, operating or adjusting this product, please read the instructions completely. Please keep this manual for future reference.

Region number

The player plays DVD-Video marked with labels containing the region number or "**ALL**".

Region	Number
The United Kingdom, Republic of Ireland, the Middle East and South Africa	2
Asia	3
Australia and N.Z.	4

Example:

The United Kingdom and Republic of Ireland

EB GN GC GCA GCS GCU

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Unless otherwise indicated, illustrations in these operating instructions are the model for the Middle East.

Note

"EB" on the packaging indicates the United Kingdom and Republic of Ireland.

RQTC0118-B

Caution for AC Mains Lead

(For the United Kingdom, Republic of Ireland, and the Middle East, except United Arab Emirates)
("EB" and "GC" area code models only)

For your safety, please read the following text carefully.
This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark or the BSI mark on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

CAUTION!
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.
THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as stated below.
If in any doubt please consult a qualified electrician.

IMPORTANT
The wires in this mains lead 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 or Blue.
The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

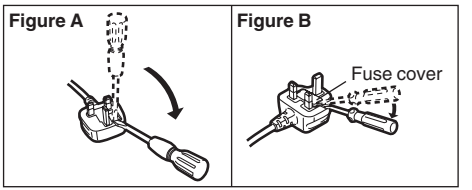
WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL ⏚ OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

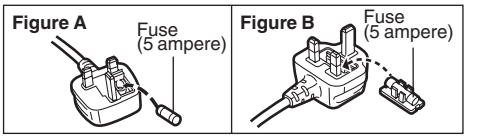
Before use
Remove the connector cover.

How to replace the fuse
The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.
Illustrations may differ from actual AC mains plug.

1 Open the fuse cover with a screwdriver.



2 Replace the fuse and close or attach the fuse cover.



Accessories

Please check and identify the supplied accessories.
Use numbers indicated in parentheses when asking for replacement parts.
(Product numbers correct as of January 2007. These may be subject to change.)

☐ 1 Remote control (EUR7631260)

☐ 2 Remote control batteries

The Middle East, South Africa, Asia, Australia and N.Z.
☐ 1 Audio/video cable (K2KA6BA00004)

The United Kingdom and Republic of Ireland

■ Sales and Support Information

Customer Care Centre
- For customers within the UK: 08705 357357
- For customers within the Republic of Ireland: 01 289 8333
- Visit our website for product information
- E-mail: customer.care@panasonic.co.uk

Direct Sales at Panasonic UK.
- Order accessory and consumable items for your product with ease and confidence by phoning our Customer Care Centre Monday-Thursday 9:00am–5:30pm, Friday 9:30am–5:30pm (Excluding public holidays).
- Or go on line through our Internet Accessory ordering application at www.panasonic.co.uk
- Most major credit and debit cards accepted.
- All enquiries transactions and distribution facilities are provided directly by Panasonic UK Ltd.
- It couldn't be simpler!
- Also available through our Internet is direct shopping for a wide range of finished products, take a browse on our website for further details.

Interested in purchasing an extended guarantee?
Please call 0870 240 6284 or visit our website www.panasonic.co.uk/guarantee.

CAUTION!

THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

WARNING:

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE,

- **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.**
- **USE ONLY THE RECOMMENDED ACCESSORIES.**
- **DO NOT REMOVE THE COVER (OR BACK); THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**

CAUTION!

- **DO NOT INSTALL OR PLACE THIS UNIT IN A BOOKCASE, BUILT-IN CABINET OR IN ANOTHER CONFINED SPACE. ENSURE THE UNIT IS WELL VENTILATED. TO PREVENT RISK OF ELECTRIC SHOCK OR FIRE HAZARD DUE TO OVERHEATING, ENSURE THAT CURTAINS AND ANY OTHER MATERIALS DO NOT OBSTRUCT THE VENTILATION VENTS.**
- **DO NOT OBSTRUCT THE UNIT'S VENTILATION OPENINGS WITH NEWSPAPERS, TABLECLOTHS, CURTAINS, AND SIMILAR ITEMS.**
- **DO NOT PLACE SOURCES OF NAKED FLAMES, SUCH AS LIGHTED CANDLES, ON THE UNIT.**
- **DISPOSE OF BATTERIES IN AN ENVIRONMENTALLY FRIENDLY MANNER.**

This product may receive radio interference caused by mobile telephones during use. If such interference is apparent, please increase separation between the product and the mobile telephone.

The socket outlet shall be installed near the equipment and easily accessible.
The mains plug of the power supply cord shall remain readily operable.
To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from AC receptacle.

The Middle East, South Africa and Asia

THIS UNIT IS INTENDED FOR USE IN TROPICAL CLIMATES.

The United Kingdom, Republic of Ireland, Australia and N.Z.

THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

Discs that can be played

Commercial discs

Disc Logo	Indicated in these instructions by	Remarks
DVD-Video	DVD-V	High quality movie and music discs
Video CD	VCD	Music discs with video Including SVCD (Conforming to IEC62107)
CD	CD	Music discs

■ Discs that cannot be played

Blu-ray, HD DVD, DVD-Audio, DVD-RAM, Version 1.0 of DVD-RW, DVD-ROM, CD-ROM, CDV, CD-G, SACD, Photo CD, and “Chaoji VCD” available on the market including CVD, DVCD and SVCD that do not conform to IEC62107.

■ Handling precautions

- Do not attach labels or stickers to discs (This may cause disc warping, rendering it unusable).
- Do not write on the label side with a ball-point pen or other writing instrument.
- Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
- Do not use scratch-proof protectors or covers.
- Do not use the following discs:
  –Discs with exposed adhesive from removed stickers or labels (rented discs etc).
  –Discs that are badly warped or cracked.
  –Irregularly shaped discs, such as heart shapes.

Recorded discs (√:Available, ×:Not available)

Disc Logo	Recorded on a DVD recorder, etc.	Recorded on a personal computer, etc.					Finalizing※4
	DVD-V※2	WMA	MP3	JPEG	MPEG4	DivX	
DVD-R/RW	√	×	√	√	√	√	Necessary
DVD-R DL	√	×	×	×	×	×	Necessary
+R/+RW —	(√)※3	×	×	×	×	×	Necessary
+R DL —	(√)※3	×	×	×	×	×	Necessary
CD-R/RW※1 —	—	√	√	√	√	√	Necessary※5

- It may not be possible to play the above discs in some cases due to the type of discs, the condition of the recording, the recording method and how the files were created (➜ 5, Tips for making WMA, MP3, JPEG, MPEG4 and DivX discs).

※1 This unit can also play CD-R/RW recorded with CD-DA or Video CD format.
※2 Discs recorded on DVD recorders or DVD video cameras using DVD-Video Format.
※3 Recorded using a format different from DVD-Video Format, therefore some functions cannot be used.
※4 A process that allows play on compatible equipment. To play a disc that is displayed as “Necessary” on this unit, the disc must first be finalized on the device it was recorded on.
※5 Closing the session will also work.

■ Tips for making WMA, MP3, JPEG, MPEG4 and DivX discs

Format	Disc	Extension	Reference
WMA	**CD-R/RW**※1	".WMA" ".wma"	● You cannot play WMA files that are copy protected. ● This unit is not compatible with Multiple Bit Rate (MBR: a file that contains the same content encoded at several different bit rates).
MP3	**DVD-R/RW**※2 **CD-R/RW**※1	".MP3" ".mp3"	● Sampling frequency: DVD-R/RW: 11.02, 12, 22.05, 24, 44.1 and 48 kHz CD-R/RW: 8, 11.02, 12, 16, 22.05, 24, 32, 44.1 and 48 kHz ● This unit is not compatible with ID3 tags.
JPEG	**DVD-R/RW**※2 **CD-R/RW**※1	".JPG" ".jpg" ".JPEG" ".jpeg"	● JPEG files taken on a digital camera that conform to DCF Standard Version 1.0 are displayed. – Files that have been altered, edited or saved with computer picture editing software may not be displayed. ● This unit cannot display moving pictures, MOTION JPEG and other such formats, still pictures other than JPEG (e.g. TIFF) or play pictures with attached audio.
MPEG4	**DVD-R/RW**※2 **CD-R/RW**※1	".ASF" ".asf"	● You can play MPEG4 data [conforming to SD VIDEO specifications (ASF standard)/MPEG4 (Simple Profile) video system/G.726 audio system] recorded with the Panasonic SD multi cameras or DVD recorders with this unit. ● The recording date may differ from that of the actual date.

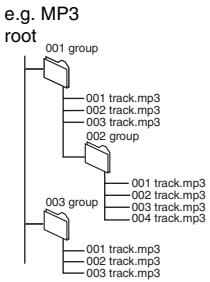
Format	Disc	Extension	Reference
DivX	**DVD-R/RW**※2 **CD-R/RW**※1	".DIVX" ".divx" ".AVI" ".avi"	● Plays all versions of DivX video (including DivX® 6) [DivX video system/MP3, Dolby Digital or MPEG audio system] with standard playback of DivX® media files. Functions added with DivX Ultra are not supported. ● GMC (Global Motion Compensation) is not supported. ● DivX files greater than 2GB or have no index may not play properly on this unit. ● This unit supports all resolutions up to maximum of 720 ×480 (NTSC)/720 ×576 (PAL). ● You can select up to 8 types of audio and subtitles on this unit.

※1**CD-R/RW**
- Discs must conform to ISO9660 level 1 or 2 (except for extended formats).
- This unit is compatible with multi-session but if there are a lot of sessions it takes more time for play to start. Keep the number of sessions to a minimum to avoid this.

※2**DVD-R/RW**
- Discs must conform to UDF bridge (UDF 1.02/ISO9660).
- This unit is not compatible with multi-session. Only the default session is played.

- There may be differences in the display order on the menu screen and computer screen.
- This unit cannot play files recorded using packet write.

Naming folders and files (Files are treated as contents and folders are treated as groups on this unit.)
At the time of recording, prefix folder and file names. This should be with numbers that have an equal number of digits, and should be done in the order you want to play them (this may not work at times).

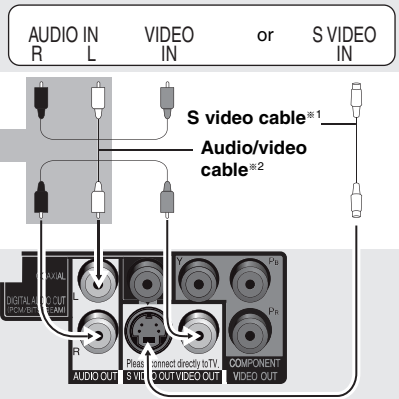


STEP 1 Connection

- Do not place the unit on amplifiers or equipment that may become hot. The heat can damage the unit.
- **Do not connect through the video cassette recorder.** Due to copy guard protection, the picture may not display properly.
- Turn off all equipment before connection and read the appropriate operating instructions.
- Connect the terminals of the same colour.
- Unless otherwise indicated, illustrations are of the models for areas except the United Kingdom and Republic of Ireland.
  (**The United Kingdom and Republic of Ireland** :There is no S VIDEO OUT terminal on the unit.)

Television

With VIDEO IN or S VIDEO IN



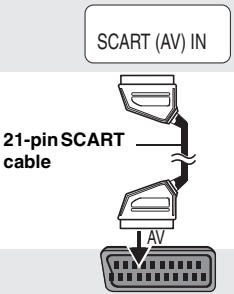
※1 When using this connection, the audio cable (red and white plugs) should also be connected.

※2 **Australia and N.Z.** : included
The Middle East, South Africa and Asia : included
The United Kingdom and Republic of Ireland : not included

You can connect the audio cable to the 2-channel audio input terminals of an analog amplifier or system component to enjoy stereo sound.

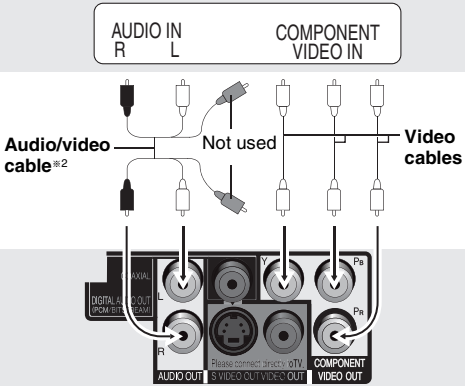
The United Kingdom and Republic of Ireland

With SCART (AV) IN



- If the television is compatible with S-video, set “VIDEO OUT-SCART” to “S-VIDEO/YPbPr”, or compatible with RGB, set “VIDEO OUT-SCART” to “RGB/NO OUTPUT” for the AV terminals (➜ 16, “VIDEO” menu).

With COMPONENT VIDEO IN



To enjoy progressive video

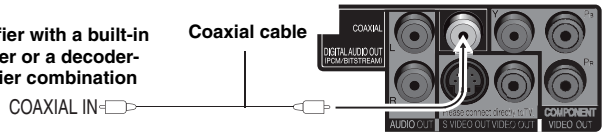
Connect to a progressive output compatible television.

1. **The United Kingdom and Republic of Ireland**
   Set “VIDEO OUT-SCART” to “VIDEO/YPbPr” for component terminals. (➜ 16, “VIDEO” menu).
2. Set “VIDEO OUT (I/P)” to “PROGRESSIVE”, then follow the instructions on the menu screen (➜ 16, “VIDEO” menu).

The United Kingdom and Republic of Ireland
Panasonic televisions with 625 (576)/50i · 50p, 525 (480)/60i . 60p input terminals are progressive compatible.

Back of the unit

■ Enjoying multi-channel surround sound

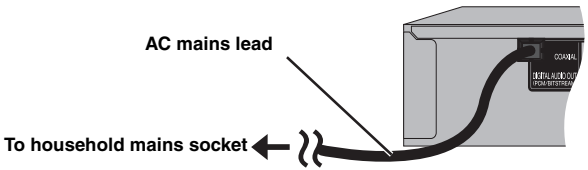


- You cannot use DTS Digital Surround decoders not suited to DVD.

Change "PCM OUTPUT", "DOLBY DIGITAL", "DTS" and "MPEG※" (➜ 17, "AUDIO" menu).
※ **Except Asia**

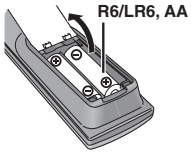
■ Connect the AC mains lead last

For the United Kingdom, Republic of Ireland, and the Middle East, except United Arab Emirates only
BE SURE TO READ THE CAUTION FOR AC MAINS LEAD ON PAGE 2 BEFORE CONNECTION.



STEP 2 The remote control

■ Batteries



- Insert so the poles (+ and −) match those in the remote control.
- Do not use rechargeable type batteries.

Do not:
- mix old and new batteries.
- use different types at the same time.
- heat or expose to flame.
- take apart or short circuit.
- attempt to recharge alkaline or manganese batteries.
- use batteries if the covering has been peeled off.

Mishandling of batteries can cause electrolyte leakage which can damage items the fluid contacts and may cause a fire.

Remove if the remote control is not going to be used for a long period of time. Store in a cool, dark place.

■ Use

Aim at the remote control sensor (➜ 8), avoiding obstacles, at a maximum range of 7 m directly in front of the unit.

STEP 3 Quick setup

Preparation
Turn on the television and select the appropriate video input on the television.

1 **Press [⏻].**
2 **Press [SETUP].**
QUICK SETUP screen appears.
3 **Follow the on-screen instructions and select the settings with [▲ ▼] and [ENTER].**
- Press [RETURN] to return to previous screen.

4 **Press [ENTER] to finish setting.**
5 **Press [SETUP] to exit the setup menu.**

- To change these settings later, select "QUICK SETUP" (➜ 17, "OTHERS" menu).

❶Power ON.

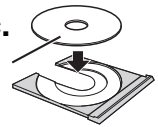
❷Open the disc tray.

Remote control sensor

The illustration shows the model for the United Kingdom and Republic of Ireland.

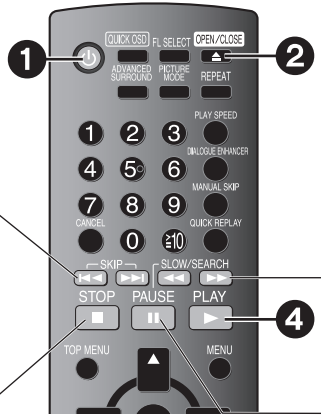
❸Load the disc.

- Load double-sided discs so the label for the side you want to play is facing up.



Stop

❹Start play.



Skip

- Press [|◀◀ ▶▶|] to skip chapters, tracks, etc.

Stop

The position is memorized when "▷" flashes on the display.
- Press [▶] (PLAY) to resume. **(Resume play)**
- Press [■] to clear the position.

Search (during play)
Slow-motion (during pause)

- Up to 5 steps
- Press [▶] (PLAY) to restart play.
- VCD Slow-motion: forward direction only
- MPEG4 DivX Slow-motion: Does not work.

Pause

- Press [▶] (PLAY) to restart play.

Standby/on switch (⏻/I)

Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.

The United Kingdom and Republic of Ireland only

Standby/on indicator (⏻)

When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.

Note

- **DISCS CONTINUE TO ROTATE WHILE MENUS ARE DISPLAYED. Press [■] when you finish to preserve the unit's motor and your television screen.**
- Total title number may not be displayed properly on +R/+RW.

If you are experiencing problems, refer to troubleshooting guide (➜ 20, 21).

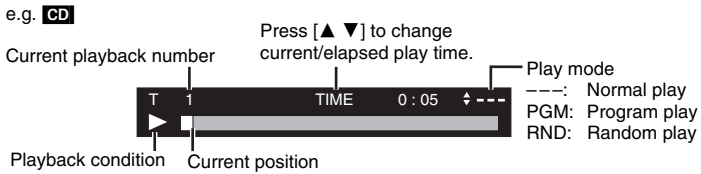
Frame-by-frame (during pause) DVD-V VCD		• VCD forward direction only
On-screen item select	Select / Register	
Return to previous screen	RETURN	
Enter number	1 2 3 4 5 6 7 8 9 0 ≧10 / ENTER	DVD-V VCD CD e.g. To select 12: [≧10] ➜ [1] ➜ [2] WMA MP3 JPEG MPEG4 DivX e.g. To select 123: [≧10] ➜[1] ➜ [2] ➜ [3] ➜ [ENTER]
Disc menu	TOP MENU	DVD-V Shows a disc top menu.
	MENU	DVD-V Shows a disc menu.
	RETURN	VCD with playback control (➜ 19, Glossary) Shows a disc menu.
Main unit display	FL SELECT	Number display ↑ ↓ Time display

Displaying current playback condition (Quick OSD)

QUICK OSD

Press [QUICK OSD].

e.g. CD



- To exit the screen, press [QUICK OSD] again.

Repeat play

REPEAT

(Only when the elapsed play time can be displayed.

JPEG: you can use this feature even if there is no elapsed time display.)

Press [REPEAT] to select an item to be repeated.

- To cancel, press [REPEAT] to select "OFF".

e.g. DVD-V

Changing play speed

PLAY SPEED

(Only when the elapsed play time can be displayed) DVD-V

1 **During play, press [PLAY SPEED].**

2 **Press [▲ ▼] to increase or decrease the playing speed from "×0.6" to "×1.4" in 0.1 units.**

- Press [▶] (PLAY) to return to the normal play.
- After you change the speed
  – ADVANCED SURROUND (➜ right) does not work.
  – Digital audio output switches to PCM 2ch.
- This may not work depending on the disc's recording.

Skipping about 30 seconds forward

MANUAL SKIP

DVD-V

Convenient when you want to skip commercials, etc.

During play, press [MANUAL SKIP].

- This may not work depending on the play position.

Quick replay

QUICK REPLAY

(Only when the elapsed play time can be displayed)

DVD-V VCD CD WMA MP3

Press [QUICK REPLAY] to skip back about 10 seconds.

- This may not work depending on the disc's recording.

Enjoying virtual surround (ADVANCED SURROUND)

ADVANCED SURROUND

DVD-V VCD CD WMA MP3 (2 channels or more only)

Press [ADVANCED SURROUND] to select "A.SURROUND 1", "A.SURROUND 2", "A.SURROUND 3" or "OFF".

OFF ⟶ **A.SURROUND 1** ⟶ **A.SURROUND 2** ⟶ **A.SURROUND 3** ⟶ **OFF**

A.SURROUND 1: Light effect
A.SURROUND 2: Medium effect
A.SURROUND 3: Strong effect
OFF

- When using discs recorded with surround sound, sound seems to come from speakers on either side of you.
- Optimum seating position is 3 to 4 times the distance between the front left and right speakers or the width of the television if using the television's speakers.
- Do not use in combination with surround effects on other equipment.

Making the dialogue easier to hear (DIALOGUE ENHANCER)

DIALOGUE ENHANCER

DVD-V (Dolby Digital, DTS, MPEG*, 3-channel or over, with the dialogue recorded in the center channel)
DivX (Dolby Digital, MPEG*, 3-channel or over, with the dialogue recorded in the center channel)

To make the dialogue in movies easier to hear

Press [DIALOGUE ENHANCER] to select "ON".

- To cancel, press [DIALOGUE ENHANCER] again to select "OFF".

* Except Asia

Changing subtitles

SUBTITLE

Discs with subtitles

Press [SUBTITLE] to select the subtitle language.

e.g. DVD-V

- To clear the subtitles, press [SUBTITLE] several times to select "OFF".
- On +R/+RW, subtitle number may be shown for subtitles that are not displayed.
- This may not work depending on the disc.

Changing soundtracks

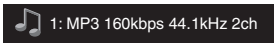
AUDIO

DVD-V DivX VCD *with multiple soundtracks*

DVD-V DivX

Press [AUDIO] to select the soundtrack.

e.g. DivX



VCD

Press [AUDIO] to select "L", "R", "L+R" or "L R".

Angle select

ANGLE/PAGE

DVD-V *with multiple angles*

Press [ANGLE/PAGE] to select the angle.

Still picture rotation

ANGLE/PAGE

JPEG

During pause, press [ANGLE/PAGE] to rotate the still picture.

Zoom

ZOOM

DVD-V VCD JPEG MPEG4 DivX

1 JPEG **Press [❚❚].**

2 Press [ZOOM] to select the zoom ratio.

NORMAL→ AUTO (DVD-V VCD only)→ ×2 → ×4

NORMAL: Displayed in the size used for recording.
AUTO: Automatically zooms in and adjusts the size of images with upper and lower black bands.
×2: 2X zoom
×4: 4X zoom

Transfer mode

TRANSFER MODE

Discs with pictures

If you have set "VIDEO OUT (I/P)" to "PROGRESSIVE" (➜ 16, "VIDEO" menu)

Press [TRANSFER MODE] to select the method of conversion for progressive output to suit the type of material.

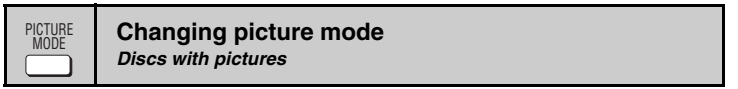
When playing PAL discs

AUTO: Automatically detects the film and video content, and appropriately converts it.
VIDEO: Select when using AUTO, and the content is distorted.
FILM: Select this if the edges of the film content appear jagged or rough when AUTO is selected. However, if the video content is distorted as shown in the illustration to the right, then select AUTO.

When playing NTSC discs

AUTO1 (normal): Automatically detects the film and video content, and appropriately converts it.
AUTO2: In addition to AUTO1, automatically detects film contents with different frame rates and appropriately converts it.
VIDEO: Select when using AUTO1 and AUTO2, and the content is distorted.

- When the tray is opened, the setting will return to AUTO or AUTO1.

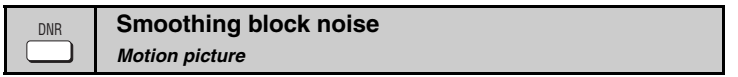


Changing picture mode

Discs with pictures

Press [PICTURE MODE] to select the picture quality.

NORMAL: Normal images
CINEMA1: Mellows images and enhances detail in dark scenes.
CINEMA2: Sharpens images and enhances detail in dark scenes.
DYNAMIC: Enhances the contrast for powerful images.
ANIMATION: Suitable for animation.
SOFT SKIN: Softens the skin of people in the images.



Smoothing block noise

Motion picture

You can smooth block noise and reduce the smudging that appears around contrasting sections of the picture.

Press [DNR] to select “1”, “2”, “3” or “OFF”.

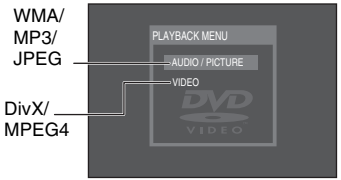
1: Light effect
2: Medium effect
3: Strong effect
OFF

Playing audio (WMA/MP3), picture (JPEG) and video (DivX/MPEG4) discs

1 Discs that contain both video (DivX/MPEG4) and other format (WMA/MP3/JPEG) contents only

While the "PLAYBACK MENU" is displayed

Press [▲ ▼] to select "AUDIO/PICTURE" or "VIDEO" and press [ENTER].



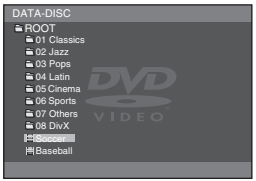
2 While the menu is displayed

Press [▲▼◀▶] to select an item and press [ENTER].

- Repeat this step if there are multiple layers.

:Group (Folder)※

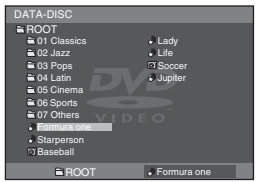
:DivX/MPEG4 content (File)※



:Group (Folder)※

:WMA/MP3 content (File)※

:JPEG content (File)※



※Files are treated as contents and folders are treated as groups in these instructions.

- Press [ANGLE/PAGE] to skip page by page.
- Press [RETURN] to go back to previous screen.
- Press [MENU] to display/exit the screen.

DivX The video content is distorted according to the recorded method to the discs. This unit cannot play these kinds of discs normally.

■ Select the picture in Thumbnail menu JPEG

1 While pictures are being displayed, press [TOP MENU] to display the thumbnails.

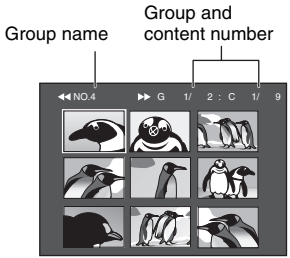
2 To select a picture in a group

Press [▲▼◀▶] to select the picture and press [ENTER].

- Press [▶▶|] to skip forward page by page.
- Press [|◀◀] to skip backward page by page.

To select picture in other group

1 Press [▲] to select the group name.
2 Press [◀ ▶] to select the group and press [ENTER].
3 Press [▲▼◀▶] to select the picture and press [ENTER].



Program play

PLAY MODE

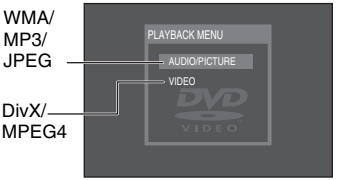
(up to 30 items)

1 WMA MP3 JPEG MPEG4 DivX

Discs that contain both video (DivX/MPEG4) and other format (WMA/MP3/JPEG) contents only

While the "PLAYBACK MENU" is displayed

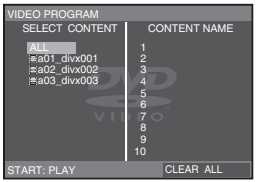
Press [▲ ▼] to select "AUDIO/ PICTURE" or "VIDEO" and press [ENTER].



2 While stopped, press [PLAY MODE] several times to select "∗∗∗ PROGRAM".

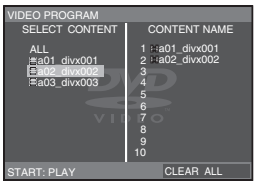
- When playing a disc with both WMA/MP3 and JPEG recorded, select "MUSIC PROGRAM" for WMA/MP3 or "PICTURE PROGRAM" for JPEG pictures.
  You cannot set both "MUSIC PROGRAM" and "PICTURE PROGRAM".

e.g. DivX



3 Press [▲ ▼] to select an item and press [ENTER].

- Repeat this step to program other items.
- To select all items in a disc or group, select "ALL" and press [ENTER].
- Press [ANGLE/PAGE] to skip page by page.
- Press [RETURN] to return to the previous menu if any.



4 Press [►] (PLAY) to start play.

Clearing the program

Press [►] and then press [▲ ▼] to select the item and press [CANCEL].

Clearing the whole program

Press [►] several times to select "CLEAR ALL" and press [ENTER]. The whole program is also cleared when the unit is turned off or the disc tray is opened.

To exit the program screen

Press [PLAY MODE] several times.

Random play

PLAY MODE

DVD-V VCD CD

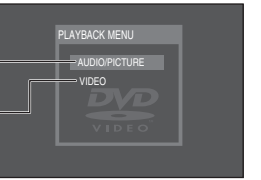
WMA MP3 JPEG MPEG4 DivX

1 WMA MP3 JPEG MPEG4 DivX

Discs that contain both video (DivX/MPEG4) and other format (WMA/MP3/JPEG) contents only

While the "PLAYBACK MENU" is displayed

Press [▲ ▼] to select "AUDIO/ PICTURE" or "VIDEO" and press [ENTER].



2 While stopped, press [PLAY MODE] several times to select "∗∗∗ RANDOM".

- When playing a disc with both WMA/MP3 and JPEG recorded, select "MUSIC RANDOM" for WMA/MP3 or "PICTURE RANDOM" for JPEG pictures.

e.g. DivX

3 WMA MP3 JPEG MPEG4 DivX

Only when the disc has groups (folders)

Press [▲ ▼] to select a group and press [ENTER].

- "∗" will be displayed next to the selected groups. Press [ENTER] again to clear.
- To select multiple groups, repeat this step.
- Press [ANGLE/PAGE] to skip page by page.
- To select all items in a disc, select "ALL".

DVD-V

Only when the disc has multiple titles

Press [▲ ▼] to select a title and press [ENTER].

- "∗" will be displayed next to the selected title.

4 Press [►] (PLAY) to start play.

To exit the random screen

Press [PLAY MODE] several times.

Using on-screen menus

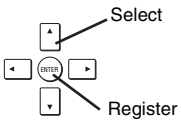
1 FUNCTIONS

Each time you press the button:

On-screen menu 1 (Disc/Play) ←
↓
On-screen menu 2 (Video)
↓
On-screen menu 3 (Audio)
↓
exit

Display the on-screen menus.

2



Select the item.

3

Make the settings.

4 RETURN

Press to exit.

Items shown differ depending on the type of software.

On-screen menu 1 (Disc/Play)

e.g. DVD-V T1 C2	**TITLE SEARCH** **CHAPTER SEARCH** **TRACK SEARCH** **CONTENT SEARCH**	**To start from a specific item** Press [▲ ▼] to select and press [ENTER]. ● VCD This does not work when using playback control (➜ 19, Glossary).
	AUDIO	➜ 11, Changing soundtracks
	PLAY SPEED	➜ 10, Changing play speed
	REPEAT MODE	➜ 10, Repeat play **A-B repeat** 1 Press [▲ ▼] to select "A-B". 2 Press [ENTER] at the starting and ending points. ● Press [ENTER] again to cancel.
	SUBTITLE	➜ 11, Changing subtitles
	ANGLE	➜ 11, Angle select
	DATE DISPLAY JPEG	Select "ON" to display shooting date **ON⟷OFF**
	ROTATION JPEG	➜ 11, Still picture rotation

On-screen menu 2 (Video)

	PICTURE MODE	➜ 12, Changing picture mode
	ZOOM	➜ 11, Zoom
	DNR	➜ 12, Smoothing block noise
	TRANSFER MODE	➜ 11, Transfer mode
	SOURCE SELECT DivX	When you select "AUTO" the constructing method of the DivX contents is automatically distinguished and output. If the picture is distorted, select "INTERLACE" or "PROGRESSIVE" depending on which constructing method was used when the contents were recorded to disc. **AUTO** **INTERLACE** **PROGRESSIVE**

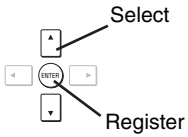
On-screen menu 3 (Audio)

	DIALOGUE ENHANCER	➜ 11, Making the dialogue easier to hear
	ADVANCED SURROUND	➜ 10, Enjoying virtual surround

1

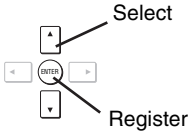
Shows setup menu.

2



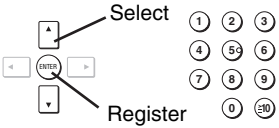
Select the menu.

3



Select the item.

4



Make the settings.

5

Press to exit.

- The settings remain intact even if you switch the unit to standby.
- Underlined items are the factory preset.
- The QUICK SETUP enables successive settings of the items in the shaded area.

■ "DISC" menu

SETTING STATE	Display the current setting of the items below
AUDIO Choose the audio language.	**ENGLISH** **(LANGUAGE OPTIONS)**※1 **ORIGINAL**※2 **OTHER----**※3
SUBTITLE Choose the subtitle language.	**AUTO**※4 **ENGLISH** **(LANGUAGE OPTIONS)**※1 **OTHER----**※3
MENUS Choose the language for disc menus.	**ENGLISH** **(LANGUAGE OPTIONS)**※1 **OTHER----**※3
RATINGS Set a ratings level to limit DVD-Video play.	Setting ratings (When level 8 is selected) **0 LOCK ALL**: To prevent play of discs without ratings levels. **1 to 7**: To prohibit play of DVD-Video with corresponding ratings recorded on them. **8 NO LIMIT**: To play all discs. When setting a ratings level, a password screen is shown. Follow the on-screen instructions. **Do not forget your password.** A message screen will be shown if a DVD-Video exceeding the ratings level is inserted in the unit. Follow the on-screen instructions.
PASSWORD Change the password for "RATINGS" (➜ above).	1 Select "CHANGE" and press [ENTER]. 2 Enter the current password with the numbered buttons, then press [ENTER]. 3 Enter the new password with the numbered buttons, then press [ENTER]. 4 When "VERIFY" is displayed, please verify the password and input it again.

■ "VIDEO" menu

SETTING STATE	Display the current setting of the items below
TV ASPECT Choose the setting to suit your television and preference.	**4:3PAN&SCAN** **4:3LETTERBOX** **4:3ZOOM** **16:9NORMAL** **16:9SHRINK** **16:9ZOOM**
TV TYPE Select to suit the type of television.	**STANDARD** **CRT** **LCD** **PROJECTION** **PLASMA**
NTSC DISC OUT Choose PAL60 or NTSC output when playing NTSC discs.	**NTSC**: Output signals from NTSC discs remain as NTSC. **PAL60**: NTSC disc can be viewed on PAL television. Asia: "NTSC" is the factory preset.
STILL MODE Specify the type of picture shown when paused.	**AUTO** **FIELD**: The picture is not blurred, but picture quality is lower. **FRAME**: Overall quality is high, but the picture may appear blurred.
VIDEO OUT-SCART※5 Choose the video signal format to be output from the SCART and COMPONENT VIDEO OUT terminals (➜ 6)	**VIDEO/YPbPr** **S-VIDEO/YPbPr** **RGB/NO OUTPUT**
VIDEO OUT (I/P) Select "PROGRESSIVE" only if connecting to a progressive output compatible television.	**INTERLACE** **PROGRESSIVE** When you select "PROGRESSIVE", a message screen will appear. ● For progressive output, press [▲] and then press [ENTER]. ● Press [RETURN] to cancel.

■ "AUDIO" menu

SETTING STATE	Display the current setting of the items below	
PCM OUTPUT Check the digital input limitations of the equipment you connect using COAXIAL terminal and select the maximum sampling frequency of PCM digital output.	**UP TO 48 kHz**: When connected to equipment compatible with 44.1 or 48 kHz **UP TO 96 kHz**: When connected to equipment compatible with 88.2 or 96 kHz ● Signals from copy-protected discs are converted to 48 or 44.1 kHz. ● Some equipment cannot handle sampling frequencies of 88.2 kHz, even if they can handle 96 kHz. Read your equipment's operating instructions for details.	
DOLBY DIGITAL With COAXIAL connections (➜ 7)	**BITSTREAM** **PCM**	Select "**BITSTREAM**" when the equipment can decode the bitstream (digital form of multi-channel data). Otherwise, select "**PCM**". (If the bitstream is output to the equipment without a decoder, high levels of noise can be output and may damage your speakers and hearing.)
DTS With COAXIAL connections (➜ 7)	**BITSTREAM** **PCM**	
MPEG※5, 6, 7 With COAXIAL connections (➜ 7)	**BITSTREAM** **PCM**	
DYNAMIC RANGE	**ON**: Adjusts for clarity even when the volume is low through compressing the range of the lowest sound level and the highest sound level. Convenient for late night viewing. (Only works with DOLBY DIGITAL) **OFF**	

■ "DISPLAY" menu

SETTING STATE	Display the current setting of the items below
LANGUAGE	※5, 6 **ENGLISH** **FRANÇAIS** **ESPAÑOL** **DEUTSCH** **ITALIANO** **SVENSKA** **NEDERLANDS** **POLSKI** ※7 **ENGLISH** **FRANÇAIS** **ESPAÑOL** **DEUTSCH** **РУССКИЙ** **MAGYAR** **ČESKY** **POLSKI** ※8 **ENGLISH** 繁體中文

■ "OTHERS" menu

SETTING STATE	Display the current setting of the items below
REGISTRATION Displays the unit's registration code.	You need this registration code to purchase and play DivX Video-on-Demand (VOD) content. Select "SHOW CODE" and press [ENTER]. (➜ 18, About DivX VOD content)
JPEG TIME	To change the slideshow timing **1 SEC** to **15 SEC** (in 1 unit) **15 SEC** to **60 SEC** (in 5 unit) **60 SEC** to **180 SEC** (in 30 unit) ● "**3 SEC**" is the factory preset.
FL DIMMER Changes the brightness of the unit's display.	**BRIGHT** **DIM** **AUTO**: The display is dimmed, but brightens only when you perform some operations.
AUTO POWER OFF	**ON**: The unit switches to standby mode after about 30 minutes in the stop mode. **OFF**
QUICK SETUP	Select "SET" and press [ENTER].
DEFAULTS This returns all values in the setup menus to the default settings.	Select "RESET" and press [ENTER]. The password screen is shown if "RATINGS" (➜ 16) is set. Please enter the same password with the numbered buttons, then press [ENTER], then turn the unit off and on again.

※1 Language options
The United Kingdom, Republic of Ireland, Australia and N.Z.:
FRENCH, SPANISH, GERMAN, ITALIAN, SWEDISH, DUTCH and POLISH
The Middle East and South Africa:
FRENCH, SPANISH, GERMAN, RUSSIAN, HUNGARIAN, CZECH and POLISH
Asia: CHINESE TRAD.
※2 The original language designed on the disc is selected.
※3 Input a code number referring to the table (➜ 18).
※4 If the language selected for "AUDIO" is not available, subtitles appear in that language (If available on the disc).
※5 **The United Kingdom and Republic of Ireland**
※6 **Australia and N.Z.**
※7 **The Middle East and South Africa**
※8 **Asia**

Language code list

Abkhazian:	6566	Gujarati:	7185	Quechua:	8185
Afar:	6565	Hausa:	7265	Rhaeto-Romance:	8277
Afrikaans:	6570	Hebrew:	7387	Romanian:	8279
Albanian:	8381	Hindi:	7273	Russian:	8285
Ameharic:	6577	Hungarian:	7285	Samoan:	8377
Arabic:	6582	Icelandic:	7383	Sanskrit:	8365
Armenian:	7289	Indonesian:	7378	Scots Gaelic:	7168
Assamese:	6583	Interlingua:	7365	Serbian:	8382
Aymara:	6589	Irish:	7165	Serbo-Croatian:	8372
Azerbaijani:	6590	Italian:	7384	Shona:	8378
Bashkir:	6665	Japanese:	7465	Sindhi:	8368
Basque:	6985	Javanese:	7487	Singhalese:	8373
Bengali; Bangla:	6678	Kannada:	7578	Slovak:	8375
Bhutani:	6890	Kashmiri:	7583	Slovenian:	8376
Bihari:	6672	Kazakh:	7575	Somali:	8379
Breton:	6682	Kirghiz:	7589	Spanish:	6983
Bulgarian:	6671	Korean:	7579	Sundanese:	8385
Burmese:	7789	Kurdish:	7585	Swahili:	8387
Byelorussian:	6669	Laotian:	7679	Swedish:	8386
Cambodian:	7577	Latin:	7665	Tagalog:	8476
Catalan:	6765	Latvian, Lettish:	7686	Tajik:	8471
Chinese:	9072	Lingala:	7678	Tamil:	8465
Corsican:	6779	Lithuanian:	7684	Tatar:	8484
Croatian:	7282	Macedonian:	7775	Telugu:	8469
Czech:	6783	Malagasy:	7771	Thai:	8472
Danish:	6865	Malay:	7783	Tibetan:	6679
Dutch:	7876	Malayalam:	7776	Tigrinya:	8473
English:	6978	Maltese:	7784	Tonga:	8479
Esperanto:	6979	Maori:	7773	Turkish:	8482
Estonian:	6984	Marathi:	7782	Turkmen:	8475
Faroese:	7079	Moldavian:	7779	Twi:	8487
Fiji:	7074	Mongolian:	7778	Ukrainian:	8575
Finnish:	7073	Nauru:	7865	Urdu:	8582
French:	7082	Nepali:	7869	Uzbek:	8590
Frisian:	7089	Norwegian:	7879	Vietnamese:	8673
Galician:	7176	Oriya:	7982	Volapük:	8679
Georgian:	7565	Pashto, Pushto:	8083	Welsh:	6789
German:	6869	Persian:	7065	Wolof:	8779
Greek:	6976	Polish:	8076	Xhosa:	8872
Greenlandic:	7576	Portuguese:	8084	Yiddish:	7473
Guarani:	7178	Punjabi:	8065	Yoruba:	8979
				Zulu:	9085

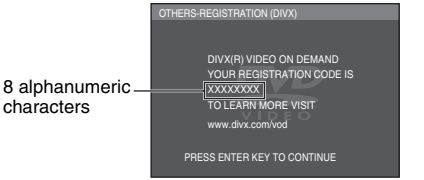
About DivX VOD content

DivX Video-on-Demand (VOD) content is encrypted for copyright protection. In order to play DivX VOD content on this unit, you first need to register the unit.

Follow the on line instructions for purchasing DivX VOD content to enter the unit's registration code and register the unit. For more information about DivX VOD, visit www.divx.com/vod.

Display the unit's registration code

(➜ 17, REGISTRATION in "OTHERS" menu)



- We recommend that you make a note of this code for future reference.
- After playing DivX VOD content for the first time, another registration code is then displayed in "REGISTRATION". Do not use this registration code to purchase DivX VOD content. If you use this code to purchase DivX VOD content, and then play the content on this unit, you will no longer be able to play any content that you purchased using the previous code.
- If you purchase DivX VOD content using a registration code different from this unit's code, you will not be able to play this content. ("AUTHORIZATION ERROR" is displayed.)

Regarding DivX content that can only be played a set number of times

Some DivX VOD content can only be played a set number of times. When you play this content, the remaining number of plays is displayed. You cannot play this content when the number of remaining plays is zero. ("RENTAL EXPIRED" is displayed.)

When playing this content
- The number of remaining plays is reduced by one if
  –you press [⏻] or [SETUP].
  –you press [■]. (Press [❚❚] to stop play.)
  –you press [|◀◀ ▶▶|] or [◀◀ ▶▶] etc. and arrive at another content or the start of the content being played.
- Resume (➜ 8, Stop) function does not work.

Glossary

DivX
DivX is a popular media technology created by DivX, Inc. DivX media files contain highly compressed video with high visual quality that maintains a relatively small file size.

Film and video
DVD-Videos are recorded using either film or video. This unit can determine which type has been used, then uses the most suitable method of progressive output.

Film: Recorded at 25 frames per second (PAL discs) or 24 frames per second (NTSC discs). (NTSC discs recorded at 30 frames per second as well).
Generally appropriate for motion picture films.

Video: Recorded at 25 frames/50 fields per second (PAL discs) or 30 frames/60 fields per second (NTSC discs). Generally appropriate for TV drama programs or animation.

Finalize
A process that makes play of a recorded CD-R, CD-RW, DVD-R, etc. possible on equipment that can play such media.
After finalizing, the disc becomes play-only and you can no longer record or edit.

JPEG (Joint Photographic Experts Group)
This is a system used for compressing/decoding colour still pictures. If you select JPEG as the storage system on digital cameras, etc., the data will be compressed to 1/10–1/100 of its original size. The benefit of JPEG is less deterioration in picture quality considering the degree of compression.

MPEG4
A compression system for use on mobile devices or a network, that allows highly efficient recording at a low bit rate.

MP3 (MPEG Audio Layer 3)
An audio compression method that compresses audio to approximately one tenth of its size without any considerable loss of audio quality.

Playback control (PBC)
If a Video CD has playback control, you can select scenes and information with menus. (This unit is compatible with version 2.0 and 1.1.)

Safety precautions

Placement

Set the unit up on an even surface away from direct sunlight, high temperatures, high humidity, and excessive vibration. These conditions can damage the cabinet and other components, thereby shortening the unit's service life. Do not place heavy items on the unit.

Voltage

Do not use high voltage power sources. This can overload the unit and cause a fire. Do not use a DC power source. Check the source carefully when setting the unit up on a ship or other place where DC is used.

AC mains lead protection

Ensure the AC mains lead is connected correctly and not damaged. Poor connection and lead damage can cause fire or electric shock. Do not pull, bend, or place heavy items on the lead.
Grasp the plug firmly when unplugging the lead. Pulling the AC mains lead can cause electric shock. Do not handle the plug with wet hands. This can cause electric shock.

Foreign matter

Do not let metal objects fall inside the unit. This can cause electric shock or malfunction.
Do not let liquids get into the unit. This can cause electric shock or malfunction. If this occurs, immediately disconnect the unit from the power supply and contact your dealer.
Do not spray insecticides onto or into the unit. They contain flammable gases which can ignite if sprayed into the unit.

Service

Do not attempt to repair this unit by yourself. If sound is interrupted, indicators fail to light, smoke appears, or any other problem that is not covered in these instructions occurs, disconnect the AC mains lead and contact your dealer or an authorized service center. Electric shock or damage to the unit can occur if the unit is repaired, disassembled or reconstructed by unqualified persons.

Extend operating life by disconnecting the unit from the power source if it is not to be used for a long time.

Troubleshooting guide

Before requesting service, make the following checks. If you are in doubt about some of the check points, or if the solutions indicated in the chart do not solve the problem, consult your dealer for instructions. (Reference pages are shown in parentheses.)

Power

No power.	● Insert the AC mains lead securely into the household mains socket. **(7)**
The unit is automatically switched to the standby mode.	● When “AUTO POWER OFF” is set to “ON”, the unit automatically switches to standby after approximately 30 minutes in the stop mode. **(17)**

No operation

No response when any buttons pressed.	● This unit cannot play discs other than the ones listed in these operating instructions. **(4)** ● The unit may not be operating properly due to lightning, static electricity or some other external factor. Turn the unit off and then back to ON. Alternatively, turn the unit off, disconnect the AC mains lead, and then reconnect it. ● Condensation has formed: Wait 1 to 2 hours for it to evaporate.
No response when remote control buttons pressed.	● Check that the batteries are installed correctly. **(7)** ● The batteries are depleted: Replace them with new ones. **(7)** ● Point the remote control at the remote control sensor and operate. **(8)**
No picture or sound.	● Check the video or audio connection. **(6, 7)** ● Check the power or input setting of the connected equipment. ● Check that the disc has something recorded on it.
You have forgotten your ratings password. Reset all the settings to Factory Preset.	● While stopped, remove the disc, and then press and hold [▶] (PLAY) and [■] on the unit and then also press and hold [⏻/I] on the unit until “INITIALIZED” disappears from the television. Turn the unit off and on again. All settings will return to the default values.

Specific operation impossible or incorrect

It takes time before play starts.	● Play may take time to begin when an MP3 track has still picture data. Even after the track starts, the correct play time will not be displayed, however this is normal. ● This is normal on DivX video.
The program play function do not work.	● These functions do not work with some DVD-Videos.
Menu doesn’t appear. VCD with playback control	● Press [■] twice and then press [▶] (PLAY).
Play doesn’t start.	● If a disc contains CD-DA and other formats, proper playback may not be possible. ● This unit may not play WMA and MPEG4 that contains still picture data. ● If playing DivX VOD content, refer to the homepage where you purchased it. (Example: www.divx.com/vod)
No subtitles.	● Display the subtitles. **(11)**
In A-B repeat, point B is automatically set.	● The end of an item becomes point B when it is reached.
Repeat play is automatically canceled.	● Repeat play may be canceled when you press [QUICK REPLAY] or [MANUAL SKIP].

Picture incorrect

Picture distorted.	● Ensure that the unit is not connected through a video cassette recorder. **(6)** ● Make sure that progressive output has not been selected when the connected television is not progressive compatible. Press and hold [RETURN] until the picture displays correctly. The settings will return to “INTERLACE”. ● DivX Change “SOURCE SELECT” in “On-screen menu 2 (Video)”. **(15)**
Picture size doesn’t fit the screen.	● Change “TV ASPECT” in “VIDEO” menu. **(16)** ● Use the television to change the aspect. If your television does not have that function, change “TV ASPECT”. **(16)** ● Change the Zoom setting. **(11)**
When playing PAL disc, picture distorted.	● Set “TRANSFER MODE” to “AUTO”. **(11)**
Picture stops.	● Picture may stop if the DivX files are greater than 2GB.
The television may display incorrectly or colours appear faded.	● The unit and television are using different video systems. Asia Use a multi-system or NTSC television. Others Use a multi-system or PAL television. ● The system used on the disc doesn’t match your television. –PAL discs cannot be correctly viewed on an NTSC television. –This unit can convert NTSC signals to PAL60 for viewing on a PAL television (“NTSC DISC OUT” in “VIDEO” menu). **(16)**
Menu not displayed correctly.	● Restore the zoom ratio to “NORMAL”. **(11)** ● Change “TV ASPECT” in “VIDEO” menu. **(16)**

Progressive video

There is ghosting when progressive output is on.	● This problem is caused by the editing method or material used on DVD-Video, but should be corrected if you use interlace output. Change “VIDEO OUT (I/P)” in “VIDEO” menu to “INTERLACE”. **(16)**
Pictures not in progressive output.	● If the unit is connected to the television through VIDEO OUT, S VIDEO OUT※1 or AV※2 terminal output will be interlace.

Sound incorrect

Sound distorted.	● Set ADVANCED SURROUND to “OFF”. **(10)**
Piercing noise comes from the speakers.	● If you have connected a digital amplifier which does not include decoder, be sure to select “PCM” in “DOLBY DIGITAL”, “DTS” or “MPEG※3” in “AUDIO” menu. **(17)**
Effects do not work.	● None of the audio effects work when the unit is outputting bitstream signals from the COAXIAL terminal. **(7)** ● Some audio effects do not work or have less effect with some discs. ● ADVANCED SURROUND does not work if you have changed the play speed. **(10)**
No sound	● There may be a pause in sound when you change the play speed. ● DivX Audio may not be output due to how files were created. **(5)**

Recording

Cannot record to digital recording equipment. (Incorrect sound recorded.)	● You cannot record WMA/MP3. ● You cannot record DVDs that have protection preventing digital recording. ● You cannot record DVDs if the recording equipment cannot handle signals with a sampling frequency of 48 kHz. ● Make the following settings: – ADVANCED SURROUND: OFF **(10)** – PCM OUTPUT: UP TO 48 kHz **(17)** – DOLBY DIGITAL/DTS/MPEG※3: PCM **(17)**

Unit displays

noPLAY	● You inserted a disc the unit cannot play; insert one it can. **(4)** ● You inserted a blank disc. ● You inserted a disc that has not been finalized. **(4)**
U11	● The disc may be dirty. **(22)** ● You haven’t inserted the disc correctly: Insert it correctly. **(8)**
H00 The number following “H” depends on the status of the unit.	● Trouble may have occurred. Turn the unit off and then back to ON. Alternatively, turn the unit off, disconnect the AC mains lead, and then reconnect it. ● If the service numbers fail to clear, note the service number and contact a qualified service person.
nodISC	● You haven’t inserted a disc: Insert one. ● You haven’t inserted the disc correctly: Insert it correctly. **(8)**

Television displays

“ERR H□□” (□□ stands for a number.)	● Trouble may have occurred. The number following “ERR H” depends on the status of the unit. Turn the unit off and then back to ON. Alternatively, turn the unit off, disconnect the AC mains lead, and then reconnect it. ● If the service numbers fail to clear, note the service number and contact a qualified service person.
“ERR U11”	● The disc may be dirty. **(22)** ● You haven’t inserted the disc correctly: Insert it correctly. **(8)**
“⊘”	● The operation is prohibited by the unit or disc.
“NO DISC”	● You haven’t inserted a disc: Insert one. ● You haven’t inserted the disc correctly: Insert it correctly. **(8)**
“CANNOT PLAY AUDIO” “NO AUDIO”	● Audio has not been recorded, or recorded in a format this unit cannot playback. Video playback only is possible. **(5)**
“THIS TYPE OF DISC CANNOT BE PLAYED. PLEASE INSERT A DIFFERENT DISC.”	● You inserted a disc the unit cannot play; insert one it can. **(4)** ● You inserted a disc that has not been finalized. **(4)** ● You inserted a blank disc.
“THIS DISC MAY NOT BE PLAYED IN YOUR REGION.”	● You can only play DVD-Video if their region number is the same or includes the same region number as the unit or if the DVD-Video is marked “ALL”. Confirm the region number for the unit on the rear panel. **(Cover)**
“AUTHORIZATION ERROR”	● You are trying to play the DivX VOD content that was purchased with a different registration code. You cannot play the content on this unit. **(18)**
“RENTAL EXPIRED”	● The DivX VOD content has zero remaining plays. You cannot play it. **(18)**

※1 Except the United Kingdom and Republic of Ireland
※2 The United Kingdom and Republic of Ireland
※3 Except Asia

Maintenance

■ Clean this unit with a soft, dry cloth

- Never use alcohol, paint thinner or benzine to clean this unit.
- Before using chemically treated cloth, read the instructions that came with the cloth carefully.
- Cleaning of the lens is generally not necessary although this depends on the operating environment.
- Do not use commercially available lens cleaners as they may cause malfunction.

■ Clean discs

Wipe with a damp cloth and then wipe dry.

Specifications

Signal system: PAL 625/50, PAL 525/60, NTSC
Operating temperature range: +5 to +35 °C
Operating humidity range: 5 to 90 % RH (no condensation)
Discs played (8 cm or 12 cm):
(1)DVD (DVD-Video, DivX※6, 7)
(2)DVD-R (DVD-Video, DivX※6, 7,MP3※2, 7, JPEG※4, 7, MPEG4※5, 7)
(3)DVD-R DL (DVD-Video)
(4)DVD-RW (DVD-Video, MPEG4※5, 7, DivX※6, 7, MP3※2, 7, JPEG※4, 7)
(5)+R/+RW (Video) (6) +R DL (Video)
(7)CD, CD-R/RW (CD-DA, Video CD, SVCD※1, MP3※2, 7, WMA※3, 7, JPEG※4, 7, MPEG4※5, 7, DivX※6, 7)

Video output:
Output level: 1 Vp-p (75 Ω)
Output terminal:
The United Kingdom and Republic of Ireland Pin jack (1 system)/AV
Others Pin jack (1 system)

S-video output:
Y output level: 1 Vp-p (75 Ω)
C output level: NTSC; 0.286 Vp-p (75 Ω)
PAL; 0.300 Vp-p (75 Ω)

Output terminal:
The United Kingdom and Republic of Ireland AV
Others S terminal (1 system)

Component video output:
[NTSC: 525 (480)p/525 (480)i, PAL: 625 (576)p/625 (576)i]
Y output level: 1 Vp-p (75 Ω)
PB output level: 0.7 Vp-p (75 Ω)
PR output level: 0.7 Vp-p (75 Ω)
Output terminal:
Pin jack (Y: green, PB: blue, PR: red) (1 system)

RGB video output:
The United Kingdom and Republic of Ireland
R output level: 0.7 Vp-p (75 Ω)
G output level: 0.7 Vp-p (75 Ω)
B output level: 0.7 Vp-p (75 Ω)
Output terminal: AV

Audio output:
Output level: 2 Vrms (1 kHz, 0 dB)
Output terminal:
The United Kingdom and Republic of Ireland Pin jack/AV
Others Pin jack
Number of terminals: 2 channel: 1 system

Audio performance:
(1) Frequency response:
- DVD (linear audio): 4 Hz to 22 kHz (48 kHz sampling)
  4 Hz to 44 kHz (96 kHz sampling)
- CD Audio: 4 Hz to 20 kHz

(2) S/N ratio:
- CD Audio: 115 dB

(3) Dynamic range:
- DVD (linear audio): 92 dB
- CD Audio: 90 dB

(4) Total harmonic distortion:
- CD Audio: 0.003 %

Digital audio output:
Coaxial digital output: Pin jack
Pickup:
Wave length: 653 nm/790 nm
Laser power: CLASS 1/CLASS 1M
Power supply:
The United Kingdom, Republic of Ireland, Australia and N.Z. AC 230 to 240 V, 50 Hz
Others AC 110 to 240 V, 50/60 Hz
Power consumption: 9 W
Power consumption in standby mode: approx. 1 W
Dimensions (W×D×H):
430 mm ×231 mm×43 mm (excluding protrusions)
430 mm ×263 mm×43 mm (including protrusions)
Mass: approx. 2.0 kg

※1 Conforming to IEC62107
※2 MPEG-1 Layer 3, MPEG-2 Layer 3
※3 Windows Media Audio Ver.9.0 L3
Not compatible with Multiple Bit Rate (MBR)
※4 Exif Ver 2.1 JPEG Baseline files
Picture resolution:
between 160×120 and 6144×4096 pixels
(Sub sampling is 4:2:2 or 4:2:0)
※5 MPEG4 data recorded with the Panasonic SD multi cameras or DVD video recorders
Conforming to SD VIDEO specifications (ASF standard)/MPEG4 (Simple Profile) video system/G.726 audio system
※6 Plays all versions of DivX® video (including DivX®6) with standard playback of DivX® media files. Certified to the DivX Home Theater Profile.
GMC (Global Motion Compensation) is not supported.
※7 The total combined maximum number of recognizable audio, picture and video contents and groups: 4000 audio, picture and video contents and 256 groups.

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WMA is a compression format developed by Microsoft Corporation. It achieves the same sound quality as MP3 with a file size that is smaller than that of MP3.

Official DivX® Certified product.
Plays all versions of DivX® video (including DivX®6) with standard playback of DivX® media files.
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–If you see this symbol–

Information on Disposal for Users of Waste Electrical & Electronic Equipment (private households)

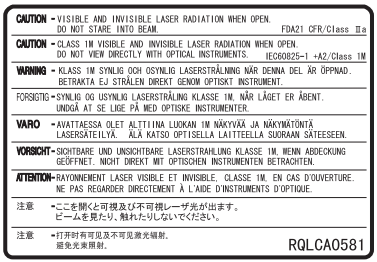
This symbol on the products and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste.
For proper treatment, recovery and recycling, please take these products to designated collection points, where they will be accepted on a free of charge basis. Alternatively, in some countries you may be able to return your products to your local retailer upon the purchase of an equivalent new product.
Disposing of this product correctly will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling. Please contact your local authority for further details of your nearest designated collection point.
Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

For business users in the European Union

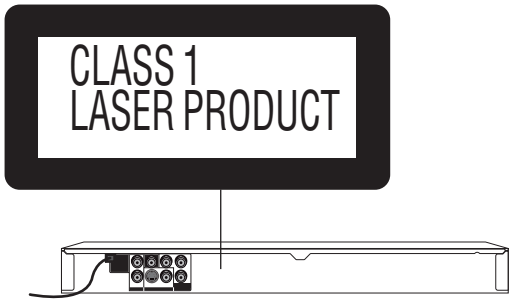
If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

Information on Disposal in other Countries outside the European Union

This symbol is only valid in the European Union.
If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.



(Inside of product)



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RQTC0118-B
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