



Operating Instructions

DVD/CD PLAYER

Model No. **DVD-S42**

Dear customer

Thank you for purchasing this product. 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 "2" or "ALL".

Example:



Note

"EB" on the packaging indicates the United Kingdom.

EB

Panasonic®

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Getting started

Operations

Reference

RQT8847-B

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.

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.

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 or the mains plug or an appliance coupler shall remain readily operable.

THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

Caution for AC Mains Lead

(For United Kingdom)

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.

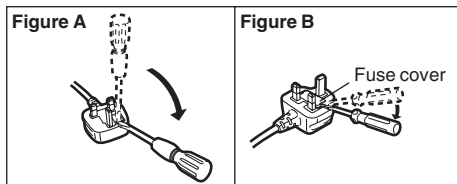
Before use

Remove the connector cover.

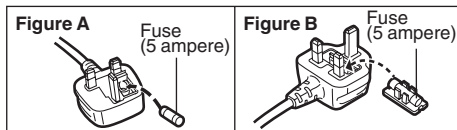
How to replace the fuse

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



Use numbers when asking for replacement parts.
(Product numbers correct as of July 2006. These may be subject to change.)



- | | | |
|----------------------------|--------------------------|----------------|
| ☐ 1 | Remote control | (EUR7631200R) |
| ☐ 2 | Remote control batteries | |
| ☐ 1 | AC mains lead | (K2CT3CA00004) |

Note

For use with this unit only. Do not use it with other equipment. Also, do not use cords for other equipment with this unit.

■ 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.

Discs that can be played

Commercial discs

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

■ Discs that cannot be played

DVD-Audio, Version 1.0 of DVD-RW, DVD-ROM, CD-ROM, CDV, CD-G, SACD, Photo CD, DVD-RAM that cannot be removed from their cartridge, 2.6-GB and 5.2-GB DVD-RAM, 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 video recorder, etc.		Recorded on a personal computer, etc.					Necessity of finalize ^{※6}
	DVD-VR ^{※2}	DVD-V ^{※4}	WMA	MP3	JPEG	MPEG4	DivX	
DVD-RAM 	✓	—	✕	✓	✓	✓	✓	Not necessary
DVD-R/RW 	✓	✓	✕	✓	✓	✓	✓	Necessary
DVD-R DL 	✓ ^{※3}	✓	✕	✕	✕	✕	✕	Necessary
+R/+RW —	✕	(✓) ^{※5}	✕	✕	✕	✕	✕	Necessary
+R DL —	✕	(✓) ^{※5}	✕	✕	✕	✕	✕	Necessary
CD-R/RW^{※1} —	—	—	✓	✓	✓	✓	✓	Necessary ^{※7}

● It may not be possible to play the above discs in all cases due to the type of discs, the condition of the recording, the recording method and how the files were created (→ page 5, Tips for making data discs).

※1 This unit can play CD-R/RW recorded with CD-DA or Video CD format.

WMA MP3 JPEG This unit also plays HighMAT discs.

※2 Discs recorded on DVD video recorders, DVD video cameras, etc. using Version 1.1 of the Video Recording Format (a unified video recording standard).

※3 Discs recorded on DVD video recorders or DVD video cameras using Version 1.2 of the Video Recording Format (a unified video recording standard).

※4 Discs recorded on DVD video recorders or DVD video cameras using DVD-Video Format.

※5 Recorded using a format different from DVD-Video Format, therefore some functions cannot be used.

※6 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.

※7 Closing the session will also work.

■ Tips for making data discs

Format	Disc	Extension	Reference
WMA	CD-R/RW	“.WMA” “.wma”	- Compatible compression rate: between 48 kbps and 320 kbps - 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-RAM DVD-R/RW CD-R/RW	“.MP3” “.mp3”	- Sampling frequency: DVD-RAM, 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 - Compatible compression rate: between 32 kbps and 320 kbps - This unit is not compatible with ID3 tags.
JPEG	DVD-RAM DVD-R/RW CD-R/RW	“.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-RAM DVD-R/RW CD-R/RW	“.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 video recorders with this unit. - The recording date may differ from that of the actual date.
DivX	DVD-RAM DVD-R/RW CD-R/RW	“.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.

- If groups were created away from the root like “002 group” in the illustration right, the eighth one onwards is displayed on the same vertical line in the menu screen.
- 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).

DVD-RAM

- Discs must conform to UDF 2.0.

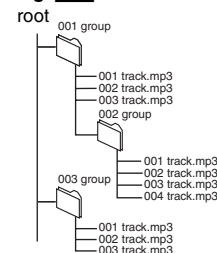
DVD-R/RW

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

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.

e.g. MP3

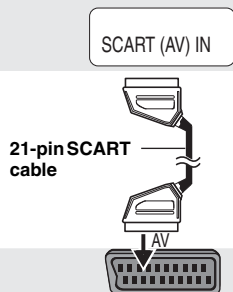


STEP 1 Connection to a television

- 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.

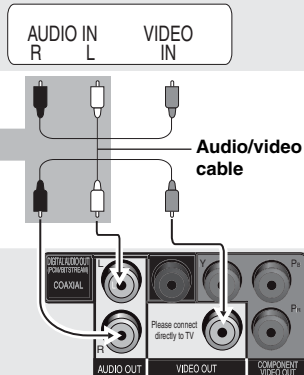
Television

With SCART (AV) IN



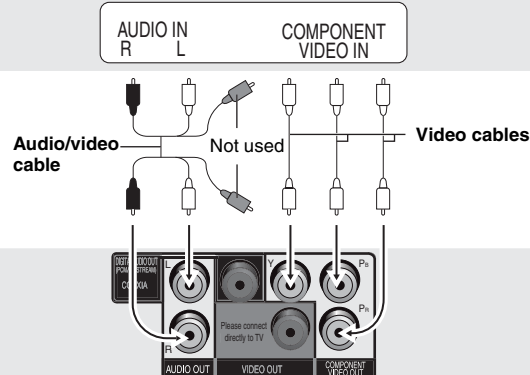
- If the television is compatible with S-video, select "S-Video/YPbPr", or compatible with RGB, select "RGB/No Output" for the AV terminals in QUICK SETUP (→ page 7).

With VIDEO IN



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

With COMPONENT VIDEO IN



To enjoy progressive video

Connect to a progressive output compatible television.

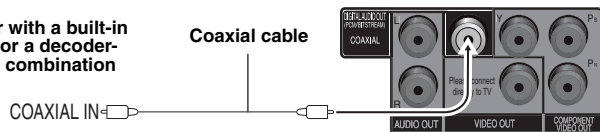
- Select "Video/YPbPr" for the component terminals in QUICK SETUP (→ page 7).
- Set "Video Output Mode" to "○○○p", then follow the instructions on the menu screen (→ page 17, Picture Menu).

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

Amplifier with a built-in decoder or a decoder-amplifier combination



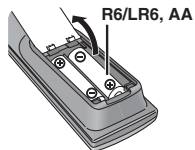
Back of the unit

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

Change "PCM Digital Output", "Dolby Digital", "DTS Digital Surround" and "MPEG" (→ page 19, "Audio" tab).

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.

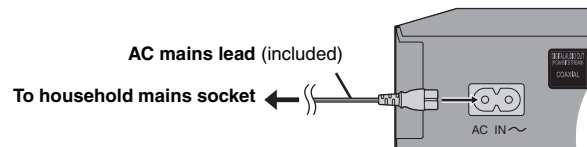
■ Use

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

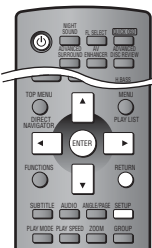
■ Connect the AC mains lead last

For the United Kingdom only

BE SURE TO READ THE CAUTION FOR AC MAINS LEAD ON PAGE 3 BEFORE CONNECTION.



STEP 3 QUICK SETUP



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

1 Power ON.	2 Shows QUICK SETUP screen.	3 Follow the message and make the settings.	4 Press to finish QUICK SETUP.	5 Press to exit.
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To change these settings later, select "QUICK SETUP" (→ page 19, "Others" tab).

Basic play

1 Power ON.



2 Open the disc tray.

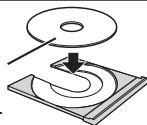


Stop Pause



3 Load the disc.

- Load double-sided discs so the label for the side you want to play is facing up.
- DVD-RAM: Remove discs from their cartridges before use.



Remote control sensor

4 Start play.



Repeat play

- Select "Repeat" (→ page 12, Repeat play) or "A-B Repeat" (→ page 16, Play Menu).

Search

(during play)

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

Pause

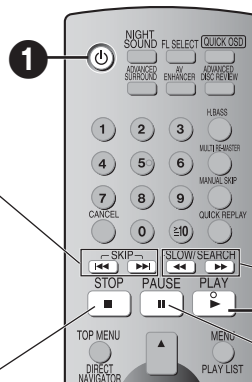
- Press [▶] (PLAY) to restart play.

Skip

- **DVD-VR** Can also skip to the markers.

Stop

- The position is memorized when "▷" flashes on the display.
- Press [▶] (PLAY) to resume. (**Resume play**)
- Press [■] to clear the position.
- Even after the unit is turned off, the position is memorized (Normal playback only).



Standby/on switch (⏻/⏻)

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.

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.
- To play MP3, JPEG, MPEG4 or DivX video contents on DVD-RAM that contain both **DVD-VR** and another format (e.g. **JPEG**), select "Play as Data Disc" (→ page 17, Other Menu).
- Total title number may not be displayed properly on +R/+RW.

If you are experiencing problems, refer to troubleshooting guide (→ page 22, 23).

Group skip

WMA MP3 JPEG
MPEG4 DivX



- Does not work while paused.

Frame-by-frame

(during pause)

DVD-VR DVD-V
VCD



- **VCD** forward direction only

On-screen item select



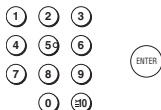
Select

Register

Return to previous screen



Enter number



DVD-VR DVD-V VCD CD
e.g. To select 12: [≥10] → [1] → [2]

WMA MP3 JPEG MPEG4 DivX
e.g. To select 123: [1] → [2] → [3] → [ENTER]

Disc menu



DVD-V

Shows a disc top menu.



DVD-V

Shows a disc menu.



DVD-VR

Plays a playlist (→ page 13).

VCD with playback control
Shows a disc menu.

Main unit display



Number display
Time display

Information screen
JPEG



Convenient functions

QUICK OSD



QUICK OSD
(Main unit)

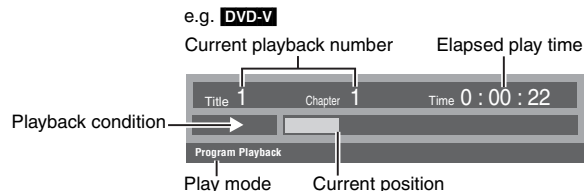
Displaying current playback condition (Quick OSD)

Press [QUICK OSD].

Basics → Details

← Off ←

■ Basics



■ Details

e.g. **DVD-V**

• Details-DVD-Video

See page 11 for changing soundtracks — Audio 1 ---DTS 3/2.1ch
See page 11 for changing subtitles — Subtitle - ---
See page 11, Angle select for changing angles — Angle 1/1
Aspect of current playback title — Source Aspect 4:3
Total play time of current playback title — Title Total Time 0:54:28

- **MPEG4 DivX** Video and audio information is not displayed during search.

ADVANCED DISC REVIEW



Reviewing titles/programs to play (Advanced Disc Review)

DVD-VR DVD-V (Except + R/+ RW)
(Normal playback only)

1 Press [ADVANCED DISC REVIEW].

Reviews each title/program.

2 Press [▶] (PLAY) when you find a title/program to play.

- You can also review each 10 minutes. Select "Interval Mode" (→ page 18, "Advanced Disc Review" in "Disc" tab).
- This may not work depending on the play position.
- **DVD-VR** Does not work:
 - with still picture part.
 - when playing a playlist.



Convenient functions

AV
ENHANCER

Recalling recommended audio/video setting (AV Enhancer)

By pressing just one button the disc type is automatically determined and the best audio and video settings are configured.

Press [AV ENHANCER] to select "On".

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



When AV Enhancer is on, you cannot change the individual settings indicated below.

Audio settings:

Night Sound Mode, H.Bass (→ below), Advanced Surround, Multi Re-master (→ right), Dialogue Enhancer (→ page 17), Sound Enhancement (→ page 17)

Video settings:

Picture Mode (→ page 16)

NIGHT
SOUND

Controlling louder portions of audio (Night Sound Mode) Except JPEG MPEG4 DivX

You can enjoy movies and music late at night because the quieter parts of the audio are accentuated.

Press [NIGHT SOUND] to select "On".

- This may not work depending on the disc's recording.
- This does not work with MP3 on DVD-RAM or DVD-R/RW.



H.BASS

Enjoying heavy bass with the speakers (H.Bass)

DVD-V

Press [H.BASS] to select "On".

- This may not work depending on the disc's recording.
- If the sound is distorted or there is noise, set to "Off".
- This does not work when Night Sound Mode (→ above) is on.



ADVANCED
SURROUND

Enjoying virtual surround (Advanced Surround)

Motion pictures with 2 or more channels

Press [ADVANCED SURROUND] to select "SP 1", "SP 2", "HP 1" or "HP 2".

SP (Speaker) 1 (Natural) SP 2 (Enhanced)
HP (Headphone) 1 (Natural) HP 2 (Enhanced) Off



- When using discs recorded with surround sound, sound seems to come from speakers on either side of you.
- When using headphones from the connected equipment, select "HP 1" or "HP 2".
- 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.
- This does not work when Night Sound Mode or H.Bass (→ left) is on.

MULTI RE-MASTER

Reproducing more natural audio (Multi Re-master)

DVD-VR DVD-V (Discs recorded with 48 kHz only) VCD CD

- This feature gives you a more natural sound by adding the higher frequency signals not recorded on the disc, for example, playing DVD-Video recorded with 48 kHz at 96 kHz. (→ page 20, "Sampling frequency" in Glossary)

WMA MP3 (Disc recording is other than 8 kHz, 16 kHz, 32 kHz)

This feature reproduces the higher frequencies lost during recording to give you a sound closer to the original.

Press [MULTI RE-MASTER] to select "1", "2" or "3".

Setting	DVD-V CD (LPCM) Type of music	Other discs Effect level
1	High tempo (e.g., pop and rock)	Light
2	Various tempos (e.g., jazz)	Medium
3	Low tempo (e.g., classical)	Strong
Off	Off	Off



- When connecting with COAXIAL terminal, the actual output sampling frequency depends on "PCM Digital Output" setting in "Audio" tab (→ page 19).
- This may not work depending on the disc's recording.
- This does not work when Night Sound Mode, H.Bass (→ left) or Advanced Surround (→ above) is on.
- This does not work with MP3 on DVD-RAM or DVD-R/RW.

ZOOM 	Zoom <i>Motion pictures</i>
--	---------------------------------------

This feature expands a letterbox picture to fit the screen.

Press [ZOOM] to select the preset aspect ratio or "Auto". (Just Fit Zoom)

DVD-VR DVD-V VCD

Auto → 4:3 Standard → European Vista → 16:9 Standard

↑ Cinemascope2 ← Cinemascope1 ← American Vista ↓

• Depending on the disc, the preset aspect ratio may not be displayed.

MPEG4 DivX

Standard → Original

↑ Full ←

Fine adjustments (Manual Zoom)

Press [◀ ▶] while the menu is displayed. (Press and hold to alter faster.)

—from ×1.00 to ×1.60 (in 0.01 units), from ×1.60 to ×2.00 (in 0.02 units)

MPEG4 DivX only

—from ×2.00 to ×4.00 (in 0.05 units)

It may not be possible to zoom up to ×4.00 depending upon the connected television and its settings.

 Functions
Just Fit Zoom ×1.00 ▶

SUBTITLE 	Changing subtitles <i>Discs with subtitles</i>
--	--

DVD-V VCD DivX

Press [SUBTITLE] to select the subtitle language.

To clear/display the subtitles

Press [◀ ▶] to select "On" or "Off".

• On +R/+RW, a subtitle number may be shown for subtitles that are not displayed.

DVD-VR (with subtitle on/off information)

Press [SUBTITLE] to select "On" or "Off".

• On or Off only can be selected.

• Subtitle on/off information cannot be recorded using Panasonic DVD Recorders.

 Functions
Subtitle ◀ Off ▶

AUDIO 	Changing soundtracks <i>Motion pictures</i>
--	---

Press [AUDIO] to select the soundtrack.

DVD-VR VCD

You can use this button to select "L", "R" or "LR".

DivX

While the menu is displayed

Press [◀ ▶] to select "L", "R" or "LR".

DVD-V (Karaoke discs)

While the menu is displayed

Press [◀ ▶] to select "On" or "Off" of vocals. Read the disc's instructions for details.

 Functions
Audio 1

Signal type/data

LPCM/□□ Digital/DTS/MP3/MPEG: Signal type

kHz (Sampling frequency)/bit/ch (Number of channels)

Example: 3/2 1ch

- 1: Low frequency effect
(not displayed if there is no signal)
- 0: No surround
- 1: Mono surround
- 2: Stereo surround (left/right)
- 1: Center
- 2: Front left+Front right
- 3: Front left+Front right+Center

• **DivX** It may take some time for play to start if you change the audio on a DivX video disc.

ANGLE/PAGE 	Angle select DVD-V <i>with multiple angles</i> Still picture rotation JPEG
---	---

Press [ANGLE/PAGE] to select the angle or rotate the still picture.

e.g. **DVD-V**

 Functions
Angle 1/4

GROUP 	Starting play from a selected group WMA MP3 JPEG MPEG4 DivX
--	--

A folder on WMA/MP3, JPEG, MPEG4 and DivX video discs is treated as a "Group".

- 1 While stopped, press [GROUP].
- 2 Press [▲ ▼] or the numbered buttons to select a group and press [ENTER].

 Functions
Group Search ▶ 1

Convenient functions

PLAY SPEED 	Changing play speed DVD-VR DVD-V
---	---

During play, press [PLAY SPEED] to select “Fast”, “Normal” or “Slow”.

Fine adjustments

While the menu is displayed
Press [◀ ▶] to increase or decrease the playing speed from X0.6 to X1.4 in 0.1 units.

 Functions Play Speed ◀ x1.4	Normal ✓ Fast Slow
--	--------------------------

- Press [▶] (PLAY) to return to the normal play.
- After you change the speed
 - Night Sound Mode, H.Bass, Advanced Surround, Multi Re-master (→ page 10) and Sound Enhancement (→ page 17) do not work.
 - Digital output switches to PCM.
 - 96 kHz sampling frequency is converted to 48 kHz.
- This may not work depending on the disc's recording.

MANUAL SKIP 	Skipping 30 seconds forward DVD-VR DVD-V (Except +R/+RW)
--	--

Convenient when you want to skip commercials etc.

During play, press [MANUAL SKIP].

- This may not work depending on the play position.
- **DVD-VR** Does not work:
 - with still picture part.
 - when playing a playlist.

QUICK REPLAY 	Quick replay (Only when the elapsed play time can be displayed) DVD-VR DVD-V WMA MP3 VCD CD
---	---

Press [QUICK REPLAY] to skip back a few seconds.

- This may not work depending on the disc's recording.
- This does not work with +R/+RW.



FUNCTIONS 	Repeat play (Only when the elapsed play time can be displayed) JPEG † you can use even if there is no elapsed time display.)
--	---

- 1 Press [FUNCTIONS].
 - 2 Press [▲ ▼] to select “Other Settings” and press [▶].
 - 3 Press [▲ ▼] to select “Play Menu” and press [▶].
 - 4 Press [▲ ▼] to select “Repeat” and press [▶].
 - 5 Press [▲ ▼] to select an item to be repeated and press [ENTER].
- Depending on the disc, the items that can be selected will differ.

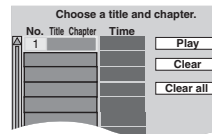
Changing the play sequences

Disable HighMAT disc play to use random and program play. Select “Play as Data Disc” in Other Menu (→ page 17).

PLAY MODE 	Program play (up to 32 items) (Except DVD-VR)
--	--

- 1 While stopped, press [PLAY MODE] several times.
- 2 Press the numbered buttons to select the items (→ page 9, Enter number).

e.g. **DVD-V**



- 3 Press [▶] (PLAY).
Repeat this step to program other items.

Selecting all the items (on the disc or in the title or group)

Press [ENTER] and [▲ ▼] to select “ALL”, then press [ENTER] again to register.

Changing the program

Press [▲ ▼] to select an item.

–To change an item, repeat step 2.

–To clear an item, press [CANCEL] (or select “Clear” and press [ENTER]).

- Press [ANGLE/PAGE] to skip page by page.

Clearing the whole program

Select “Clear all” and press [ENTER]. The whole program is also cleared when the unit is turned off or the disc tray is opened.

PLAY MODE 	Random play (Except DVD-VR)
--	--

- 1 While stopped, press [PLAY MODE] several times.
- 2 **DVD-V** **WMA** **MP3** **JPEG** **MPEG4** **DivX**
Press the numbered buttons to select a group or a title (→ page 9, Enter number).
- 3 Press [▶] (PLAY).

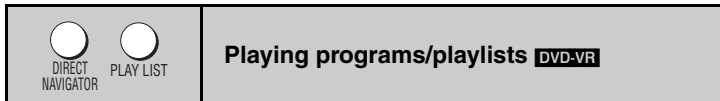
e.g. **DVD-V**



To exit the program or random mode

Press [PLAY MODE] several times while stopped.

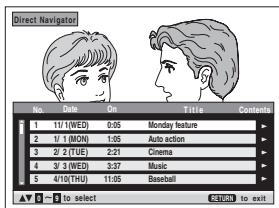
Using navigation menus



- Titles appear only if they have been entered.
- You cannot edit playlists and titles.

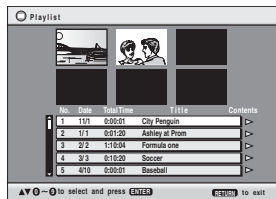
Playing the programs

- 1 Press [DIRECT NAVIGATOR].
- 2 Press [▲ ▼] or the numbered buttons to select the program.
 - Press [ANGLE/PAGE] to skip page by page.
 - To select a 2-digit number
e.g. 23: [≥10] → [2] → [3]
 - Press [▶] to show the contents of the program.
- 3 Press [ENTER].



Playing a playlist (Only when the disc contains a playlist)

- 1 Press [PLAY LIST].
- 2 Press [▲ ▼] or the numbered buttons to select the play list.
 - Press [ANGLE/PAGE] to skip page by page.
 - To select a 2-digit number
e.g. 23: [≥10] → [2] → [3]
- 3 Press [ENTER].



Playing a scene

- 1 Do steps 1–2 (→ above, Playing a playlist).
- 2 Press [▶].
- 3 Press [▲ ▼] to select “Scene List” and press [ENTER].
 - Select “Contents” to show the contents of the program.
- 4 Press [▲ ▼ ◀ ▶] to select a scene and press [ENTER].

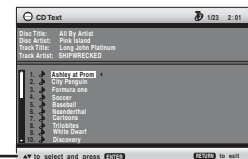


Titles appear with CD text playback.

e.g. CD text

- 1 Press [MENU].
- 2 Press [▲ ▼] to select the track and press [ENTER].

- Press [ANGLE/PAGE] to skip page by page.
- To exit the screen, press [MENU].



Press [FUNCTIONS] to switch between guide messages and the playback condition indicator.



While the menu is displayed

Press [▲ ▼ ◀ ▶] to select items then press [ENTER].



Menu:
Takes you to the next menu which shows playlists or another menu.



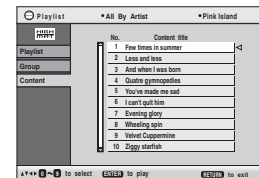
Playlist:
Play starts.

- To return to the menu screen, press [TOP MENU] then press [RETURN] several times.
- To change the menu background, press [FUNCTIONS].
The background changes to the one recorded on the disc.
- To display/exit the screen, press [TOP MENU].

Selecting from the list

- 1 Press [MENU].
- 2 Press [◀] then [▲ ▼] to switch among “Playlist”, “Group” and “Content” lists.
- 3 Press [▶] then [▲ ▼] to select an item and press [ENTER].

- Press [ANGLE/PAGE] to skip page by page.
- To exit the screen, press [MENU].



Using navigation menus

TOP MENU MENU

Playing data discs **WMA MP3 JPEG MPEG4 DivX**

Select "Play as Data Disc" (→ page 17, Other Menu) in the following cases:

-To play HighMAT discs without using the HighMAT function

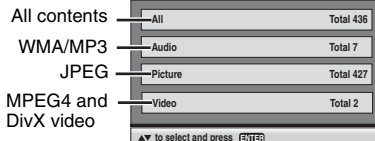
-To play **MP3**, **JPEG**, **MPEG4** or **DivX** on DVD-RAM that contain both **DVD-VR** and another format (e.g. **JPEG**)

Playing items in order (Playback Menu)

While the menu is displayed

Press [**▲ ▼**] to select "All", "Audio", "Picture" or "Video" and press [**ENTER**].

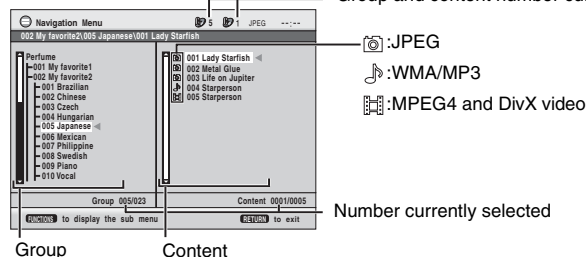
- To display/exit the screen, press [**TOP MENU**].



Playing from the selected item (Navigation Menu)

- 1 Press [**MENU**].
- 2 Press [**▲ ▼ ◀ ▶**] to select the group and press [**ENTER**].
- 3 • To play content in the group in order Press [**ENTER**].
- To start play from the selected content Press [**▲ ▼**] to select and press [**ENTER**].

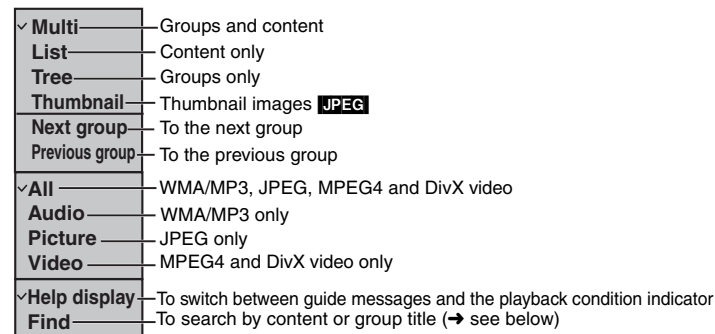
Group and content number currently playing



- Press [**ANGLE/PAGE**] to skip page by page.
- To listen to WMA/MP3 while showing a JPEG image on the screen Select a JPEG first, and then select WMA/MP3. (The opposite order is not effective.)
- To exit the screen, press [**MENU**].

■ Using the submenu

- 1 Press [**MENU**].
- 2 Press [**FUNCTIONS**].
- 3 Press [**▲ ▼**] to select an item and press [**ENTER**].



■ Searching by a content or group title

- 1 Press [**MENU**].
 - Press [**◀ ▶**] to highlight a group title to search a group, or a content title to search its content.
- 2 Press [**FUNCTIONS**].
- 3 Press [**▲ ▼**] to select "Find" and press [**ENTER**].
- 4 Press [**▲ ▼**] to select a character and press [**ENTER**].
 - Repeat to enter another character.
 - Lower case is also searched.
 - Press [**◀ ▶**] to skip between A, E, I, O and U.
 - Press [**◀**] to erase a character.
 - Erase the asterisk (*) to search for the titles starting with that character.
- 5 Press [**▶**] to select "Find" and press [**ENTER**].
The search result screen appears.
- 6 Press [**▲ ▼**] to select the content or group and press [**ENTER**].



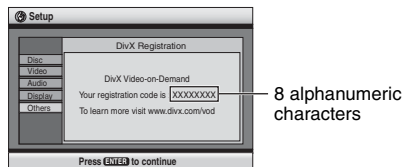
About DivX VOD content

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

(→ page 19, "DivX Registration" in "Others" tab)



- 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 "DivX 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. ("Rented Movie Expired" is displayed.)

When playing this content

- The number of remaining plays is reduced by one if
 - you press [0] or [SETUP].
 - you press [■] (STOP). [Press [II] (PAUSE) to stop play.]
 - you press [◀▶▶] (SKIP) or [◀▶▶] (SEARCH) etc. and arrive at another content or the start of the content being played.
- Resume (→ page 8, Stop) and Marker (→ page 16, Play Menu) functions do not work.

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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.

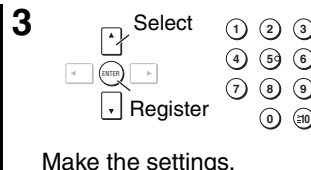
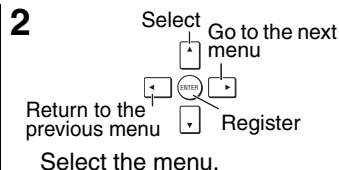
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Using On-Screen Menus



Press.



Items shown differ depending on the type of software.

Main menus

Program, Group, Title Chapter, Track Playlist, Content	To start from a specific item - Press [▲ ▼] to select and press [ENTER]. - Press and hold [▲ ▼] to alter faster.
Time	To skip incrementally or decrementally* (Time Slip for play only) - Press [ENTER] twice to show Time Slip indicator. - Press [▲ ▼] to select the time and press [ENTER]. - Press and hold [▲ ▼] to alter faster. To start from a specific time* (Time Search) To change remaining/elapsed time display
Video	To display pixel number DivX fps (frame per second) is also displayed.
Audio	(→ page 11, Changing soundtracks) To display the current bitrate or sampling frequency
Thumbnail	To show thumbnail images
Subtitle	(→ page 11, Changing subtitles)
Marker (VR)	To recall a marker recorded on DVD-Video recorders
Angle	(→ page 11, Angle select)
Rotate Picture	(→ page 11, Still picture rotation)
Slideshow	To turn on/off slideshow To change the slideshow timing (1 Fast ↔ 5 Slow) When using Slideshow, Skip/Rotate picture may not work correctly depending on the play position.
Other Settings	(→ below)

* Except +R/+RW

Other Settings

Play Speed	(→ page 12, Changing play speed)
AV Enhancer	(→ page 10)

■ Play Menu

(Only when the elapsed play time can be displayed, **JPEG** The Repeat and Marker functions can be used.)

Repeat	(→ page 12, Repeat play)
A-B Repeat	To repeat a specified section Press [ENTER] at the starting and ending points. Press [ENTER] again to cancel. DVD-VR (still picture part): Does not work.
Marker Except DVD-VR	To mark up to 5 positions to play again Press [ENTER] (The unit is now ready to accept markers.) To mark a position: [ENTER] (at the desired point) To mark another position: [◀ ▶] to select "*" → [ENTER] To recall a marker: [◀ ▶] → [ENTER] To erase a marker: [◀ ▶] → [CANCEL] - This feature doesn't work during program and random play. - Markers you add clear when you open the disc tray or switch the unit to standby.
Advanced Disc Review	(→ page 9)

■ Picture Menu

	Normal: Normal images Cinema1: Mellows images and enhances detail in dark scenes. Cinema2: Sharpens images and enhances detail in dark scenes. Animation: Suitable for animation Dynamic: Enhances the contrast for powerful images. User (Press [ENTER] to select "Picture Adjustment") (→ below)
Picture Mode	Picture Adjustment Contrast: Increases the contrast between light and dark parts of the picture (−7 to +7). Brightness: Brightens the picture (0 to +15). Sharpness: Adjusts the sharpness of the edges of the horizontal lines. (−7 to +7) Colour: Adjust the shade of the picture's colour (−7 to +7). Gamma: Adjusts the brightness of dark parts (0 to +5). Depth Enhancer: Reduce the rough noise in the background to give a greater feeling of depth (0 to +4). MPEG DNR: Smoothes block noise and reduces the smudging that appears around contrasting sections of the picture (0 to +3).

Video Output Mode	*480p/576p (progressive) *480i/576i (interlace) When you select "○○○p" (progressive) and a confirmation screen appears, select "Yes" only if connecting to a progressive output compatible television. *The numbers displayed depend on the geographical location and disc being played. One of the above numbers is displayed.
Transfer Mode	If you have chosen "○○○p" (progressive) (→ above), select the method of conversion for progressive output to suit the type of material. When the tray is opened, the setting will return to Auto or Auto1. When playing PAL discs, MPEG4 or DivX video contents Auto: Automatically detects the film and video content, and appropriately converts it. Video: Select when using Auto, and the content is distorted. Cinema: 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.
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 "I (Interlace)" or "P (Progressive)" depending on which constructing method was used when the contents were recorded to disc. Auto I (Interlace) P (Progressive)
■ Audio Menu	
Night Sound Mode	(→ page 10)
H.Bass	(→ page 10)
Advanced Surround	(→ page 10)
Dialogue Enhancer	To make the dialogue in movies easier to hear DVD-V (Dolby Digital, DTS, MPEG, 3-channel or over, with the dialogue recorded in the center channel) DivX (Dolby Digital, 3-channel or over, with the dialogue recorded in the center channel) On ↔ Off

Multi Re-master (→ page 10)	
You can enjoy comfortable, analog-like sound. DVD-VR DVD-V (Discs recorded with 48 kHz only) VCD CD WMA MP3 (Disc recording is other than 8 kHz, 16 kHz or 32 kHz)	
Sound Enhancement	On ↔ Off - This does not work when Night Sound Mode, H.Bass, Advanced Surround or Multi Re-master (→ page 10) is on. - This may not work depending on the disc's recording. - This does not work with MP3 on DVD-RAM or DVD-R/RW.
Attenuator	With AUDIO OUT connections (→ page 6) Switch on if sound is distorted. On ↔ Off

■ Display Menu

Information	On ↔ Off
Subtitle Position	0 to -60 (in 2 units)
Subtitle Brightness	Auto, 0 to -7
4:3 Aspect	To select how to show images made for 4:3 aspect screens on a 16:9 aspect television Normal: Laterally stretches images. Auto: The standard setting is "Shrink". However this automatically changes to "Zoom" with a letterbox picture. Shrink: Images appear in the center of the screen. Zoom: Expands to 4:3 aspect ratio.
Just Fit Zoom	(→ page 11, Zoom)
Manual Zoom	(→ page 11, Zoom)
Bit Rate Display	<i>Motion pictures</i> On ↔ Off
GUI See-through	Off, On, Auto (Switches on automatically when the images appear on the display.)
GUI Brightness	-3 to +3
Quick OSD	(→ page 9)

■ Other Menu

Setup	(→ page 18, Changing the player settings)
Play as DVD-VR	Select "Play as Data Disc" to play MP3, JPEG, MPEG4 or DivX on DVD-RAM that contain both DVD-VR and another format (e.g. JPEG) or to play HighMAT discs without using the HighMAT function.
Play as HighMAT	
Play as Data Disc	

Changing the player settings

1



Shows Setup menu.

2



Select



Go right

Select the tab.

3



Select



Register

Select the item.

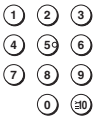
4



Select



Register



Make the settings.

5



Press to exit.

- Referring to pages 18 to 19, change as required.
- 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” tab

Audio Choose the audio language.	English (Language options) ^{*1} Original ^{*2} Other***** ^{*3}
Subtitle Choose the subtitle language.	Automatic ^{*4} English (Language options) ^{*1} Other***** ^{*3}
Menus Choose the language for disc menus.	English (Language options) ^{*1} Other***** ^{*3} • Changing the menu language from QUICK SETUP also changes this setting.
Advanced Disc Review Select how to review (→ page 9).	Intro Mode: Reviews each title/program. Interval Mode: Reviews each 10 minutes.
Ratings Set a ratings level to limit DVD-Video play. • Follow the on-screen instructions.	Setting ratings (When level 8 is selected) 8 No Limit 1 to 7: To prohibit play of DVD-Video with corresponding ratings recorded on them. 0 Lock All: To prevent play of discs without ratings levels. 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.

■ “Video” tab

TV Aspect Choose the setting to suit your television and preference.	4:3 Pan&Scan: Regular aspect television (4:3) The sides of the widescreen picture are cut off so it fills the screen (unless prohibited by the disc). 4:3 Letterbox: Regular aspect television (4:3) Widescreen picture is shown in the letterbox style.  16:9: Widescreen television (16:9) 
TV Type Select to suit the type of television.	Standard (Direct View TV) CRT Projector Projection TV LCD TV/Projector Plasma TV
Time Delay When connected with an AV amplifier and Plasma display, adjust if you notice the audio is out of sync with the video.	0ms 20ms 40ms 60ms 80ms 100ms
Video Out (AV/Component) Choose the video signal format to be output from the SCART and COMPONENT VIDEO OUT terminals (→ page 6).	Video/YPbPr S-Video/YPbPr RGB/No Output
Still Mode Specify the type of picture shown when paused.	Automatic Field: The picture is not blurred, but picture quality is lower. Frame: Overall quality is high, but the picture may appear blurred.
NTSC Disc Output Choose PAL 60 or NTSC output when playing NTSC discs.	PAL60: NTSC discs can be viewed on PAL television. NTSC: Output signal from NTSC discs remains as NTSC.
Picture/Video Output Choose the video signal format to be output for JPEG, MPEG4 and DivX video.	Automatic PAL NTSC/PAL60: Output will depend on “NTSC Disc Output” setting (→ above). • If picture output is not smooth during playback, change the setting.

■ “Audio” tab

PCM Digital 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 (→ page 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 Digital Surround With COAXIAL connections (→ page 7)	Bitstream PCM	
MPEG With COAXIAL connections (→ page 7)	PCM Bitstream	
Dynamic Range Compression	Off 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)	

■ “Display” tab

Menu Language	English Polski	Français Svenska	Deutsch Nederlands	Italiano	Español
On-Screen Messages	On	Off			
Background during Play Select background during JPEG, MPEG4 and DivX video playback.	Black	Gray			

■ “Others” tab

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
DivX Registration Displays the unit's registration code.	You need this registration code to purchase and play DivX Video-on-Demand (VOD) content. (→ page 15, About DivX VOD content)
QUICK SETUP	Yes No
Re-initialise Setting This returns all values in the Setup menus to the default settings.	Yes: The password screen is shown if “Ratings” (→ page 18) is set. Please enter the same password and press [ENTER]. After “INI” on the display disappears, turn the unit off and on again. No

*1 Language options

French, German, Italian, Spanish, Polish, Swedish and Dutch

*2 The original language designated on the disc is selected.

*3 Input a code number referring to the table (→ page 20).

*4 If the language selected for “Audio” is not available, subtitles appear in that language (If available on the disc).

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.

MPEG4

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

Sampling frequency

Sampling is the process of converting the heights of sound wave (analog signal) samples taken at set periods into digits (digital encoding). Sampling frequency is the number of samples taken per second, so larger numbers mean more faithful reproduction of the original sound.

Language code list

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

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.

Specifications

Signal system:	PAL 625/50, PAL525/60, 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-RAM (DVD-VR, JPEG[®]4, 7, MP3[®]2, 7, MPEG4[®]5, 7, DivX[®]6, 7)
- (3) DVD-R (DVD-Video, DVD-VR, JPEG[®]4, 7, MP3[®]2, 7, MPEG4[®]5, 7, DivX[®]6, 7)
- (4) DVD-R DL (DVD-Video, DVD-VR)
- (5) DVD-RW (DVD-Video, DVD-VR, JPEG[®]4, 7, MP3[®]2, 7, MPEG4[®]5, 7, DivX[®]6, 7)
- (6) +R/+RW (Video)
- (7) +R DL (Video)
- (8) 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, HighMAT Level 2 (Audio and Image)]

Video output:

Output level:	1 Vp-p (75 Ω)
Output terminal:	Pin jack (1 system)/AV

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:	AV

Component video output:

(NTSC: 480p/480i, PAL: 576p/576i)	
Y output level:	1 Vp-p (75 Ω)
P _b output level:	0.7 Vp-p (75 Ω)
P _r output level:	0.7 Vp-p (75 Ω)
Output terminal:	Pin jack (Y: green, P _b : blue, P _r : red)(1 system)

RGB video output:

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:	Pin jack/AV
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)
4 Hz to 20 kHz
 - CD Audio: 115 dB
- (2) S/N ratio:
 - CD Audio: 102 dB
- (3) Dynamic range:
 - DVD (linear audio): 98 dB
 - CD Audio: 0.003 %
- (4) Total harmonic distortion:
 - CD Audio: 0.003 %

Digital audio output:

Coaxial digital output:	Pin jack
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Pickup:

Wave length:	662 nm/785 nm
Laser power:	CLASS 1/CLASS 1M

Power supply:

AC 230 to 240 V, 50 Hz	11 W
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Power consumption:

Power consumption in standby mode:

approx. 1 W

Dimensions (W×D×H):

430 mm × 251 mm × 43 mm

Mass:

2.2 kg

Note

Specifications are subject to change without notice. Mass and dimensions are approximate.

[※]1 Conforming to IEC62107

[※]2MPEG-1 Layer 3, MPEG-2 Layer 3

[※]3Windows Media Audio Ver.9.0 L3

Not compatible with Multiple Bit Rate (MBR)

[※]4Exif Ver 2.1 JPEG Baseline files

Picture resolution: between 160×120 and 6144×4096 pixels (Sub sampling is 4:0:0, 4:2:0, 4:2:2 or 4:4:4)

Extremely long and slender pictures may not be displayed.

[※]5MPEG4 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

[※]6Plays 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.

[※]7The total combined maximum number of recognizable audio, picture and video contents and groups: 4000 audio, picture and video contents and 400 groups.

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. (19)

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, press and hold [QUICK OSD] and [III] on the unit and then also press and hold [▲OPEN/CLOSE] on the unit until "Initialised" 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 and random play functions 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.	- 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 the DivX VOD content. (Example: www.divx.com/vod) - If a disc contains CD-DA and other formats, proper playback may not be possible.
Subtitle position is wrong.	Adjust the position. ("Subtitle Position" in Display Menu) (17)
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.	- A-B Repeat is canceled when you press [QUICK REPLAY]. - Repeat play may be canceled when you press [MANUAL SKIP] or [ADVANCED DISC REVIEW].

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 [CANCEL] until the picture displays correctly. The settings will return to "○○○i" (interlace). [DivX] Change "Source Select" in Picture Menu. (17)
Picture size doesn't fit the screen.	- Change "TV Aspect" in "Video" tab. (18) - Use the television to change the aspect. If your television does not have that function, change "4:3 Aspect" in Display Menu. (17) - Change the Zoom setting. (11)
Picture stops.	Picture may stop if the DivX files are greater than 2GB.
When playing PAL disc, picture distorted.	Set "Transfer Mode" in Picture Menu to "Auto". (17)
The television may display incorrectly or colours appear faded.	- The unit and television are using different video systems. 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 PAL 60 for viewing on a PAL television ("NTSC Disc Output" in "Video" tab). (18)
Menu not displayed correctly.	- Restore the zoom ratio to $\times 1.00$. (11) - Set "Subtitle Position" in Display Menu to "0". (17) - Set "4:3 Aspect" in Display Menu to "Normal". (17)

Auto zoom function does not work well.	• Turn off TV's zoom function. • Use the other preset aspect ratios or manual adjustment. (11) • Zoom function may not work well, especially in dark scenes and may not work depending on the type of disc.
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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 Output Mode" in Picture Menu to "○○○" (interlace). (17)
Pictures not in progressive output.	• If the unit is connected to the television through VIDEO OUT or S VIDEO OUT, output will be interlace.

Sound incorrect

Sound distorted.	• Select "Off" in "Advanced Surround". (10) • Set "Attenuator" in Audio Menu to "On" if it causes distortion with AUDIO OUT connections. (17) • Noise may occur when playing WMA files.
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 Digital Surround" or "MPEG" in "Audio" tab. (19)
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. • Night Sound Mode, H.Bass, Advanced Surround, Multi Remaster and Sound Enhancement do not work if you have changed the play speed.
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 Digital Output: Up to 48 kHz (19) – Dolby Digital/DTS Digital Surround/MPEG: PCM (19)
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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. (right)

"H□□" (□□ stands for a number.)	• Trouble may have occurred. The number following "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.
"nodISC"	• You haven't inserted a disc: Insert one. • You haven't inserted the disc correctly: Insert it correctly. (8)

Television displays

"Ⓢ"	• The operation is prohibited by the unit or disc.
"Cannot play group xx, content xx"	• You are trying to play incompatible group or content. (5)
"Cannot display group xx, content xx"	
"Group xx, content xx is protected"	• You are trying to play protected group or content. You cannot play it.
"Cannot play audio"	• Audio has not been recorded, or recorded in a format this unit cannot playback. Video playback only is possible. (4)
"No audio"	
"Check the disc"	• This disc may be dirty. (below)
"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)
No on-screen display.	• Select "On" in "On-Screen Messages" in "Display" tab. (19)
"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. (15)
"Rented Movie Expired"	• The DivX VOD content has zero remaining plays. You cannot play it. (15)

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.



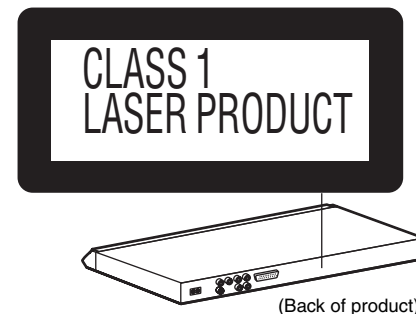
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CAUTION	VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM.	FDA21 CFR/Class IIa
CAUTION	CLASS 1W VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.	IEC60825-1 +A2/Class 1W
VARNING	KLASS 1W SYNLIKT OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DELÄR ÖPPNAD. BETRÄKTA EJ STRÅLEN DIREKT GENOM OPTISKE INSTRUMENT.	
FORSÖTT	SYNLIG OCH OSYNLIG LASERSTRÅLNING KLASS 1W. NÄR LÄGRET ÄR ÖPPENT, UNDVÄJ ATT SE LIGT PÅ MED OPTISKE INSTRUMENTER.	
VARO	AVATTÄSSÄ OLET ALTTI INA LUOKAN 1W NÄKYVÄÄ JA NÄKYMÄTÖN LASERÄTEILYÄ. ÄLÄ KATSO OPTISELLA LAITTEILLA SUORAAN SÄTEESEEN.	
VORSICHT	SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG KLASSE 1W. WENN ABOCKUNG GEÖFFNET, NICHT DIREKT MIT OPTISCHEN INSTRUMENTEN BETRACHTEN.	
ATTENTION	RAYONNEMENT LASER VISIBLE ET INVISIBLE, CLASSE 1W. EN CAS D'OUVERTURE, NE PAS REGARDER DIRECTEMENT A L'AIDE D'INSTRUMENTS D'OPTIQUE.	
注意	ここに開くと可視及び不可視レーザー光が出ます。 ビームを真たり、触れたりしないでください。	
注意	・打开时有可见及不可见激光辐射。 避免光束照射。	RQLCA0581

(Inside of product)



(Back of product)