The illustration shows DVD-S32.

Operating Instructions
DVD/CD PLAYER
Model No. **DVD-S32/DVD-K32**

DVD-S32 is only for the United Kingdom, Australia, N.Z. and Unit with PX printed on the outer packaging.
DVD-K32 is only for Asia.

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 or "**ALL**".

Region	Number
Unit with PX printed on the outer packaging	1
The United Kingdom	2
Asia	3
Australia and N.Z.	4

Example:
The United Kingdom

2   **ALL**   **2 3 5**

EB   GN   GCS   PX

Panasonic®

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Reference

Unless otherwise indicated, illustrations in these operating instructions are DVD-K32.

Note
"EB" on the packaging indicates the United Kingdom.

RQT8685-2B

Getting started

Operations

Reference

Caution for AC Mains Lead/Accessories

RQT8685

2

Caution for AC Mains Lead

(For United Kingdom)
("EB" area code model 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.

Figure A	Figure B
	Fuse cover
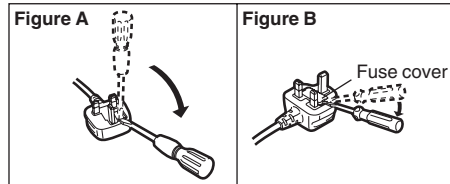
2. Replace the fuse and close or attach the fuse cover.

Figure A	Figure B
Fuse (5 ampere)	Fuse (5 ampere)
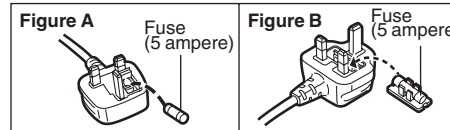
Accessories

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

☐ 1 Remote control
The United Kingdom, Asia, Australia and N.Z.
(N2QAYB000014)
Unit with PX printed on the outer packaging
(N2QAYB000013)

☐ 1 AC mains lead
The United Kingdom (K2CT3CA00004)
Australia and N.Z. (K2CJ2DA00008)
Asia and Unit with PX printed on the outer packaging
(K2CQ2CA00006)
● For use with this unit only. Do not use it with other equipment. Also, do not use the lead for other equipment with this unit.

☐ 2 Remote control batteries

Australia and N.Z.
Asia and Unit with PX printed on the outer packaging
☐ 1 Audio/video cable (K2KA6BA00004)

Unit with PX printed on the outer packaging
☐ 1 Power plug adaptor (K2DA42E00001)

The United Kingdom and Republic of Ireland
■ Sales and Support Information

<u>Customer Care Centre</u>
● 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

<u>Direct Sales at Panasonic UK</u>
● 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.

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.

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.

Asia
THIS UNIT IS INTENDED FOR USE IN TROPICAL CLIMATES.

The United Kingdom, Australia, N.Z. and Unit with PX printed on the outer packaging
THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

Safety precautions

Discs that can be played

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

DVD-Audio, DVD-RAM, Version 1.0 of DVD-R/RW, DVD-ROM, CD-ROM, CDV, CD-G, SACD, WMA Discs, DivX video Discs, Photo CD, and "Chaoji VCD" available on the market including CVD, DVCD and SVCD that do not conform to IEC62107.

■ Built-in decoder

This unit has a Dolby Digital decoder so you can play DVDs with this mark.

☐☐ DOLBY
D I G I T A L

This unit does not have a DTS decoder. Connect this unit to equipment that has a DTS decoder to enjoy DTS sound.

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

Disc Logo	Recorded on a DVD video recorder, etc. DVD-V ※2	Recorded on a personal computer, etc. MP3	JPEG	Necessity of finalize※4
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 all cases due to the type of discs, the condition of the recording, the recording method and how the files were created (➔ page 19, Tips for making data discs).

※1 This unit can also play CD-R/RW recorded with CD-DA or Video CD format.
※2 Discs recorded on DVD video 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.

■ 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.

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.
- Unless otherwise indicated, illustrations are of the models for areas except the United Kingdom.
  (The United Kingdom :There is no S VIDEO OUT terminal on the unit.)

Television

With VIDEO IN or S VIDEO IN

| AUDIO IN | VIDEO | or | S VIDEO |
| R L | IN | | IN |

S video cable※1

Audio/video cable※2
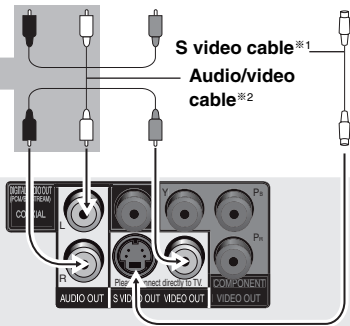
※1 When using this connection, the audio cable (red and white plugs) should also be connected.

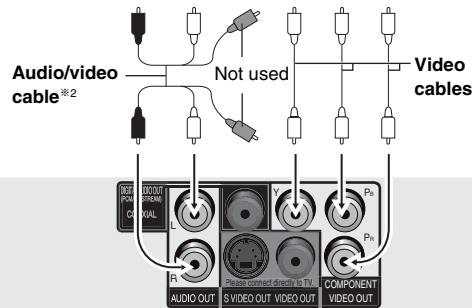※2 Australia and N.Z. : included
Unit with PX printed on the outer packaging : included
Asia : included
The United Kingdom : not included

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

With COMPONENT VIDEO IN

| AUDIO IN | COMPONENT |
| R L | VIDEO IN |

Audio/video cable※2   Not used   **Video cables**

Unit with PX printed on the outer packaging
Select "DARKER" from the "BLACK LEVEL" (➔ page 14, "VIDEO" tab).

To enjoy progressive video

Connect to a progressive output compatible television.
① The United Kingdom
   Set "VIDEO OUT-SCART" to "VIDEO/YPbPr" for component terminals. (➔ page 14, "VIDEO" tab).
② Set "VIDEO OUT (I/P)" to "PROGRESSIVE", then follow the instructions on the menu screen (➔ page 14, "VIDEO" tab).
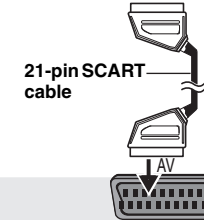
The United Kingdom
Panasonic televisions with 625 (576)/50i · 50p, 525 (480)/60i · 60p input terminals are progressive compatible.

Back of the unit

The United Kingdom
With SCART (AV) IN

| SCART (AV) IN |

21-pin SCART cable

AV

- If the television is compatible with S-video, select "S-VIDEO/YPbPr", or compatible with RGB, select "RGB/NO OUTPUT" for the AV terminals (➔ page 14, "VIDEO" tab).

Connection to a television

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STEP 1 Connection to a television

■ Enjoying multi-channel surround sound

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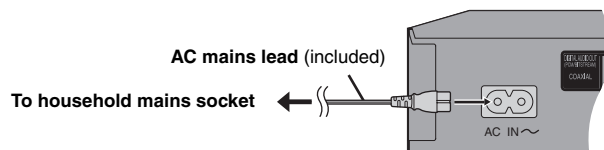
Coaxial cable

COAXIAL IN

Back of the unit

Change "DOWN SAMPLING", "DOLBY DIGITAL", "DTS" and "MPEG※" (➜ page 15, "AUDIO" tab).

※ The United Kingdom, Australia and N.Z.

■ Connect the AC mains lead last

FOR THE UNITED KINGDOM ONLY
READ THE CAUTION FOR AC MAINS LEAD ON PAGE 2 BEFORE CONNECTION.

AC mains lead (included)

To household mains socket

AC IN ～

Configuration of the AC inlet differs according to the area.

**Unit with PX printed on the outer packaging**
If the power plug does not fit your AC outlet, use the power plug adaptor (included).
If it still doesn't fit, contact an electrical parts distributor for assistance.
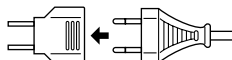
DVD-K32 only

■ Connect to the ground terminal

Ground the unit by connecting a copper wire to the screw on the back of the unit and the ground terminal to prevent static electricity buildup caused by the karaoke microphone.
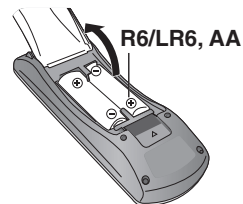
To the ground terminal
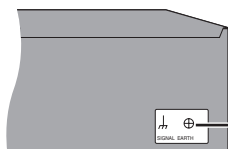
STEP 2 The remote control

■ Batteries

R6/LR6, AA

● 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.

STEP 3 Setting up the unit

Changing the unit's setting to suit your television.

Preparation
Turn on the television and select the appropriate video input on the television to suit the connections for the player.

1 Press [⏻] to turn on the unit.

2 Press [SETUP] to display "MAIN" menu.

MAIN
DISO
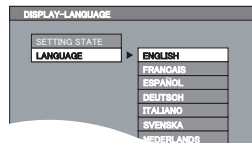VIDEO
AUDIO
DISPLAY
OTHERS

Selecting menu language

Choose the preferred language for these menus and the on-screen messages (Default setting is "ENGLISH").

3 Press [▲ ▼] to select "DISPLAY" tab and press [ENTER].

4 Press [▲ ▼] to select "LANGUAGE" and press [ENTER].

5 Press [▲ ▼] to select the language and press [ENTER].

e.g. **The United Kingdom**

DISPLAY–LANGUAGE
SETTING STATE
LANGUAGE ► ENGLISH
FRANÇAIS
ESPAÑOL
DEUTSCH
ITALIANO
SVENSKA
NEDERLANDS

Selecting aspect ratio

Select the TV type and how to show images (Default setting is "4:3PAN&SCAN").

3 Press [▲ ▼] to select "VIDEO" tab and press [ENTER].

4 Press [▲ ▼] to select "TV ASPECT" and press [ENTER].

5 Press [▲ ▼] to select the item and press [ENTER].

To select how to show images made for 16:9 aspect screens on a 4:3 aspect television.

4:3PAN&SCAN:
The sides of the picture are cut off so it fills the screen (unless prohibited by the disc).

4:3LETTERBOX:
Picture is shown in the letterbox style.

4:3ZOOM:
If you select 4:3 PAN & SCAN and there is no effect, select this and the image will display in 4:3 PAN &SCAN.

To select how to show images made for 4:3 aspect screens on a 16:9 aspect television.

16:9NORMAL:
The picture is displayed as a horizontally stretched 16:9 image.

16:9SHRINK:
The picture is displayed as a 4:3 ratio image in the center of the screen.

16:9ZOOM:
The picture is adjusted horizontally to display a full screen image in 16:9 aspect ratio.

● Press [RETURN] to go back to the previous screen.
● Press [SETUP] to exit the screen.

Setting up the unit

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Basic play

❶ Power ON.
(⏻/|)

❷ Open the disc tray.
(⏏) OPEN/CLOSE

Stop   Pause
(■)   (❙❙)
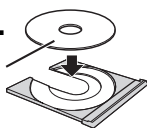
|DVD-K32| **only**
Enjoying KARAOKE ➜ page 10

KARAOKE MIC VOLUME
MIN MAX

❸ Load the disc.
● Load double-sided discs so the label for the side you want to play is facing up.
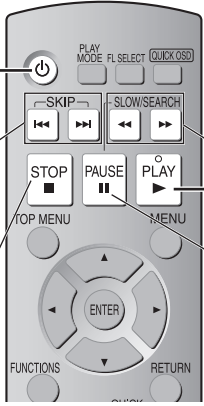
Remote control sensor

❹ Start play.
(▶)

Skip
Press [❙◀◀ ▶▶❙] to skip chapters or tracks.

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

Pause
● Press [▶] (PLAY) to restart play.

Repeat play (➜ page 12, On-Screen Menu 1)

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.**
● Total title number may not be displayed properly on +R/+RW.

If you are experiencing problems, refer to troubleshooting guide (➜ page 16, 17).

Basic play

RQT8685

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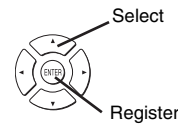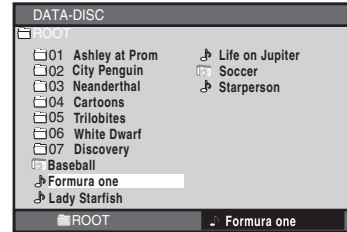|		
Frame-by-frame (during pause) DVD-V VCD		● VCD forward direction only
Return to previous screen	RETURN	
Disc menu	TOP MENU	DVD-V Shows a disc top menu.
	MENU	DVD-V Shows a disc menu.
	RETURN	VCD with playback control Shows a disc menu.
On-screen item select	Select / Register	
Number select	VCD with playback control 1 While the disc menu is displayed, press [FUNCTIONS] to display On-Screen Menu 1. 2 Press [◀ ▶] to select "1~99". 3 Press [▲ ▼] to select the track number and press [ENTER].	
Main unit display	FL SELECT	Number display ↑ ↓ Time display

Playing MP3/JPEG discs MP3 JPEG

While the menu is displayed

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

● Repeat this step if there are multiple layers.

DATA-DISC
📁 ROOT
📁01 **Ashley at Prom**   🎵 **Life on Jupiter**
📁02 **City Penguin**   📷 **Soccer**
📁03 **Neanderthal**   🎵 **Starperson**
📁04 **Cartoons**
📁05 **Trilobites**
📁06 **White Dwarf**
📁07 **Discovery**
📷 **Baseball**
🎵 **Formura one**
🎵 **Lady Starfish**
📁 ROOT   🎵 **Formura one**

📁 :Group (Folder)*

🎵 :MP3 content (File)*

📷 :JPEG content (File)*

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

● Once the last content of a group has finished playing, playback will stop.
● Press [◀ ▶] several times to go to the next page or previous page if any.
● Press [RETURN] to go back to the previous screen.
● Press [MENU] to display/exit the screen.

■ **Select the picture in thumbnails menu** JPEG

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

2 To select a picture in a group
Press [▲▼◀▶] to select the picture and press [ENTER].
● Press [◀ ▶] several times to go to the next page or previous page if any.

To select a picture in other groups
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].

● Press [MENU] to go back to thumbnails menu.

Group name

Group and content number

◀◀ FOLDER1 ▶▶ | G 1/ 1 | | C 1/ 2 |

Playing MP3/JPEG discs
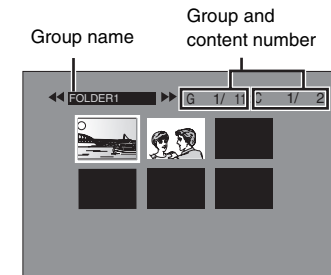
Basic play **Playing MP3/JPEG discs**

RQT8685

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Convenient functions

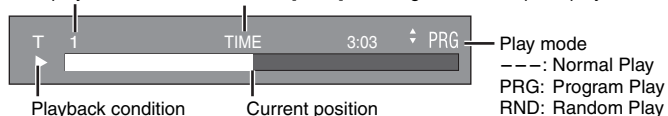| QUICK OSD	◯ QUICK OSD **(Main unit)**	**Displaying current playback condition (Quick OSD)**

Press [QUICK OSD].

e.g. **VCD**

Current playback number   Press [▲ ▼] to change current/elapsed play time.

T   1   TIME   3:03 ↕ PRG ─── Play mode
▶   ───: Normal Play
                                                  PRG: Program Play
Playback condition   Current position   RND: Random Play

● To exit the screen, press [QUICK OSD].

M. SKIP	**The United Kingdom, Asia, Australia and N.Z.** **Skipping 30 seconds forward**
CM SKIP	**Unit with PX printed on the outer packaging** **Skipping a minute forward** **DVD-V** (Except +R/+RW)

Convenient when you want to skip commercials etc.
During play, press [M.SKIP] or [CM 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** **MP3**

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**.**

ZOOM	**Zoom** **DVD-V** **VCD** **JPEG**

1 **JPEG Press [❙❙].**
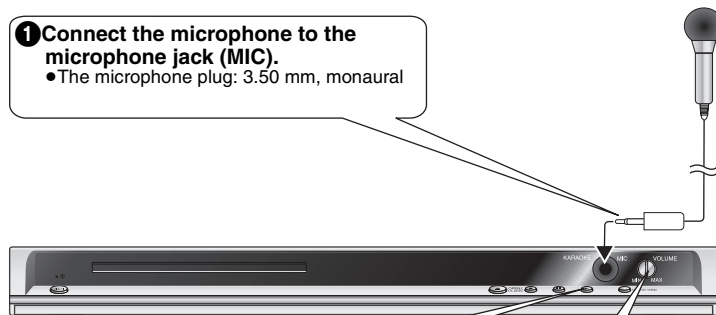2 **Press [ZOOM] to select the zoom ratio.**   e.g. **VCD**
NORMAL⟶ ×2⟶ ×4

🔍 ×2
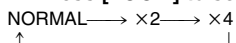
Enjoying Karaoke **DVD-K32** only

❶**Connect the microphone to the microphone jack (MIC).**
●The microphone plug: 3.50 mm, monaural

❷**Start playing the Karaoke disc.**

● Adjust the volume of the connected equipment (e.g. Television).

❸**Turn [VOLUME] (microphone volume controller) to adjust the volume of the microphone.**

VOLUME
MIN — MAX

To turn on or off of vocal

1 **Press [FUNCTIONS] several times to display the On-Screen Menu as below.**

e.g. **DVD-V** (Karaoke discs)

🎵 1:✱✱✱ 1 2   📷 :✱✱✱   🗨 1
🔄 OFF

2 **Press [◀ ▶] to select "** 🎵 **".**

3 **Press [▲ ▼] to turn on or off of vocal.**
   ● Depending on the type of disc, the settings may be different. Please read the disc's instructions for more details.

● If the picture is distorted when you enjoying karaoke, set Attenuator to "ON"
   (➔ page 13, On-Screen Menu 2).

Enjoying Karaoke
Convenient functions

Changing the play sequences

PLAY MODE

Program play (up to 20 items)

1 While stopped, press [PLAY MODE] several times to select "OOO PROGRAM".
- When playing a disc with both MP3 and JPEG recorded, select "MUSIC PROGRAM" for MP3 or "PICTURE PROGRAM" for JPEG pictures. You cannot set both "MUSIC PROGRAM" and "PICTURE PROGRAM".

e.g. DVD-V

```
DVD-V  PROGRAM
SELECT  TITLE          TITLE  CHAP.
  TITLE 1               1
  TITLE 2               2
  TITLE 3               3
  TITLE 4               4
  TITLE 5               5
  TITLE 6               6
  TITLE 7               7
  TITLE 8               8
  TITLE 9               9
  TITLE10              10
START : PLAY          CLEAR  ALL
```

2 Press [▲ ▼] to select an item and press [ENTER].
- Repeat this step to program other items.
- To select all items in a disc, title, or group, select "ALL" and press [ENTER].
- Press [▲ ▼] several times to go to the next page or previous page if any.
- Press [RETURN] to return to the previous menu.

```
DVD-V  PROGRAM
SELECT   CHAPTER      TITLE  CHAP.
  ALL                  1        1      4
  CHAP.  1             2
  CHAP.  2             3
  CHAP.  3             4
  CHAP.  4             5
  CHAP.  5             6
                       7
                       8
                       9
                      10
START : PLAY          CLEAR  ALL
```

3 Press [▶] (PLAY) to start play.

Clearing the program
Press [▶] and then press [▲ ▼] to select the item and press [RETURN].

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.

PLAY MODE

Random play
CD VCD (up to 20 tracks)
MP3 JPEG (up to 24 groups/999 contents)

1 While stopped, press [PLAY MODE] several times to select "OOO RANDOM".

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

e.g. VCD

```
VCD  RANDOM

PRESS  PLAY  TO  START
```

2 MP3 JPEG
Only when the disc has a group (folder)
Press [▲ ▼] to select a group and press [ENTER].
- "✳" will be displayed next to the selected groups. Press [ENTER] again to clear.
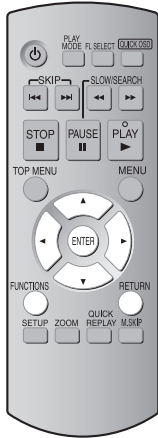- To select multiple groups, repeat this step.
- To select all items in a disc, select "ALL".
- Press [▲ ▼] several times to go to the next page or previous page if any.

3 Press [▶] (PLAY) to start play.

To exit the random screen
Press [PLAY MODE] several times.

Changing the play sequences

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Using On-Screen Menus

1 FUNCTIONS

Press.
Each time you press the button:
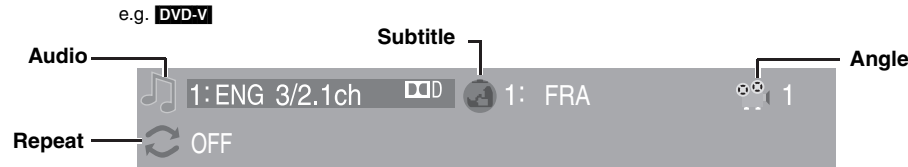On-Screen Menu 1 (➜ below) → On-Screen Menu 2 (➜ page 13)
↑————————exit←————————|

2 Select the item.

3 Make the settings.

4 RETURN

Press to exit.

On-Screen Menu 1

e.g. DVD-V

Audio
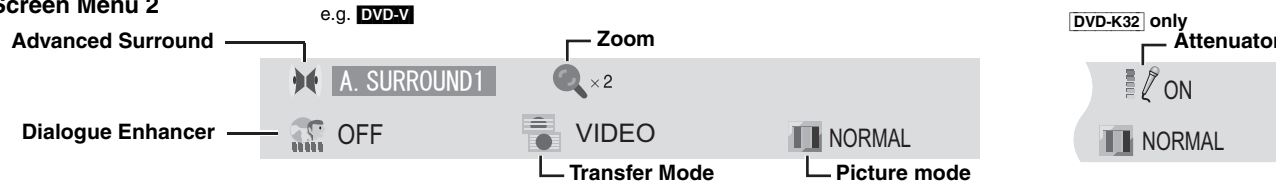**Subtitle**
Angle

♪ 1: ENG 3/2.1ch □□D 🌐 1: FRA ⊠ 1

Repeat — ↻ OFF

Items shown differ depending on the type of software.

On-Screen Menu 1

♪	**Audio (Soundtrack)**	*Motion pictures* Press [▲ ▼] to select the soundtrack. VCD CD Press [▲ ▼] to select "L", "R","L+R" or "L R".	↻	**Repeat**	(Only when the elapsed play time can be displayed JPEG: you can use even if there is no elapsed time display.) 1 Press [▲ ▼] to select an item to be repeated. 2 **A-B repeat only** Press [ENTER] at the starting and ending points. ● Press [ENTER] again to cancel.
🌐	**Subtitle**	*Discs with subtitles* Press [▲ ▼] to select the subtitle language or "OFF". ● On +R/+RW, a subtitle number may be shown for subtitles that are not displayed.	1~99	**Playback control**	VCD with playback control See page 9, Number select.
📹	**Angle**	DVD-V *with multiple angles* Press [▲ ▼] to select the angle.	↻	**Rotate**	JPEG During pause, press [▲ ▼] to select "0", "90", "180" or "270".

On-Screen Menu 2

e.g. DVD-V

Advanced Surround — 𝄂) A. SURROUND1

Zoom — 🔍 ×2

DVD-K32 only
Attenuator — 🎤 ON
▌▌ NORMAL

Dialogue Enhancer — 🐟 OFF

📷 VIDEO

▌▌ NORMAL

└ Transfer Mode └ Picture mode
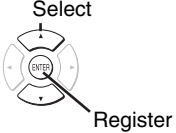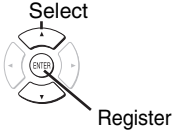
On-Screen Menu 2

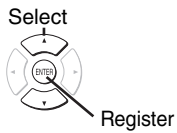|		
𝄂)	**Advanced Surround**	*Motion pictures with 2 or more channels* **Enjoy a surround-like effect when using 2 front speakers.** Press [▲ ▼] to select the item. **A.SURROUND 1:** Light effect **A.SURROUND 2:** Medium effect **A.SURROUND 3:** Strong effect **OFF** ●When using discs recorded with surround 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.
🔍	**Zoom**	*Motion pictures* Press [▲ ▼] to select the zoom ratio. `JPEG` During pause, press [▲ ▼] to select the zoom ratio. **NORMAL** ×**2** ×**4**
Only `DVD-K32` 🎤	**Attenuator**	When using AUDIO OUT connections (➜ page 5) or enjoying Karaoke (➜ page 10). If sound is distorted, press [▲ ▼] to select "ON". **ON** **OFF**
🐟	**Dialogue Enhancer**	**To make the dialogue in movies easier to hear** `DVD-V` (Dolby Digital, MPEG※, 3-channel or over, with the dialogue recorded in the center channel) Press [▲ ▼] to select "ON". **ON** **OFF** ※ **The United Kingdom, Australia and N.Z.**

📷	**Transfer Mode**	If you have set "VIDEO OUT (I/P)" to "PROGRESSIVE" (➜ page 14, "VIDEO" tab), press [▲ ▼] to 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 **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.
▌▌	**Picture Mode**	Press [▲ ▼] to select the mode. **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

Using On-Screen Menus

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13

Changing the player settings

1

SETUP

Shows Setup menu.

2

Select

ENTER

Register

Select the tab.

3

Select

ENTER

Register

Select the item.

4

Select

ENTER

Register

Make the settings.

5

SETUP

Press to exit.

- Referring to page 14 to 15, change as required.
- The settings remain intact even if you switch the unit to standby.
- Underlined items are the factory preset.

■ "DISC" tab

SETTING STATE	Display the current setting of the items below
AUDIO Choose the audio language.	<u>ENGLISH</u>　(LANGUAGE OPTIONS)※1　ORIGINAL※2 OTHER‒‒‒‒※3
SUBTITLE Choose the subtitle language.	<u>AUTO</u>※4　ENGLISH　　　　(LANGUAGE OPTIONS)※1 OTHER‒‒‒‒※3
MENUS Choose the language for disc menus.	<u>ENGLISH</u>　(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** When setting a ratings level, a password screen is shown. Enter the password with [▲ ▼] and [▶], then press [ENTER]. **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 [▲ ▼] and [▶], then press [ENTER]. 3　Enter the new password with [▲ ▼] and [▶], then press [ENTER]. 　　If "VERIFY" is displayed, please verify the password and insert it again.

■ "VIDEO" tab

SETTING STATE	Display the current setting of the items below
TV ASPECT Choose the setting to suit your television and preference. (➜ page 7, Selecting aspect ratio)	<u>4:3PAN&SCAN</u>　　　4:3LETTERBOX 4:3ZOOM　　　　　　16:9NORMAL 16:9SHRINK　　　　　16:9ZOOM
TV TYPE Select to suit the type of television.	<u>STANDARD</u>　　　　　CRT LCD　　　　　　　　　PROJECTION PLASMA
NTSC DISC OUT※5,6,7 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.	<u>AUTO</u> **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 (➜page 5)	<u>VIDEO/YPbPr</u> S-VIDEO/YPbPr RGB/NO OUTPUT
BLACK LEVEL※8 Change the black level of the picture if you connected a television through the COMPONENT VIDEO OUT terminals.	**LIGHTER**:　When connected through VIDEO OUT or 　　　　　　　S VIDEO OUT. **DARKER**:　When connected through COMPONENT 　　　　　　　VIDEO OUT.
VIDEO OUT (I/P) Select "PROGRESSIVE" only if connecting to a progressive output compatible television.	<u>INTERLACE</u>　　　PROGRESSIVE When you select "PROGRESSIVE", a message screen will appear. - For progressive output, press [▲] and then press [ENTER]. - Press [RETURN] to cancel.

■ **"AUDIO" tab**

SETTING STATE	Display the current setting of the items below		
DOWN SAMPLING Check the digital input limitations of the equipment you connect using COAXIAL terminal and select the maximum sampling frequency of PCM digital output.	**ON**:	When connected to equipment compatible with 44.1 or 48 kHz	
	OFF:	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 6)	**BITSTREAM**	**PCM**	Select "**BITSTREAM**" when the equipment can decode the bitstream (digital form of multi-channel data). Otherwise, select "**PCM**" or "**OFF**". (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 (➔ page 6)	**BITSTREAM**	**OFF**	
MPEG※5 ※6 With COAXIAL connections (➔ page 6)	**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" tab**

SETTING STATE	Display the current setting of the items below			
LANGUAGE (➔ page 7, Selecting menu language)	※5 **ENGLISH** ITALIANO	FRANÇAIS SVENSKA	ESPAÑOL NEDERLANDS	DEUTSCH POLSKI
	※6 **ENGLISH** ITALIANO	FRANÇAIS РУССКИЙ	ESPAÑOL NEDERLANDS	DEUTSCH PORTUGUÊS
	※7 **ENGLISH**	繁體中文		
	※8 **ENGLISH**	FRANÇAIS	ESPAÑOL	

■ **"OTHERS" tab**

SETTING STATE	Display the current setting of the items below	
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** **AUTO**:	**DIM** 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	
DEFAULTS This returns all values in the setup menus to the default settings.	**RESET** The password screen is shown if "RATINGS" (➔ page 14) is set. Please enter the same password with [▲ ▼] and [►], then press [ENTER], then turn the unit off and on again.	

※1 Language options
The United Kingdom :
FRENCH, SPANISH, GERMAN, ITALIAN, SWEDISH, DUTCH and POLISH
Australia and N.Z. :
FRENCH, SPANISH, GERMAN, ITALIAN, RUSSIAN, DUTCH and PORTUGUESE
Asia : CHINESE
Unit with PX printed on the outer packaging : FRENCH and SPANISH
※2 The original language designed on the disc is selected.
※3 Input a code number referring to the table (➔ below).
※4 If the language selected for "AUDIO" is not available, subtitles appear in that language (If available on the disc).
※5 **The United Kingdom**
※6 **Australia and N.Z.**
※7 **Asia**
※8 **Unit with PX printed on the outer packaging**

Language code list

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

Changing the player settings

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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.)

Troubleshooting guide

Power

No power.	● Insert the AC mains lead securely into the household mains socket. **(6)**
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. **(15)**

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. **(6)** ● The batteries are depleted: Replace them with new ones. **(6)** ● Point the remote control at the remote control sensor and operate. **(8)** ● When operating the On-Screen Menus, even if the items are lined up vertically, select the item with [◄ ►] and then set the item using [▲ ▼].
No picture or sound.	● Check the video or audio connection. **(5, 6)** ● 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 [▲OPEN/CLOSE] 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.
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.

No subtitles.	● Display the subtitles. **(12)**
The subtitles overlap closed captions recorded on discs.[1]	● Clear the subtitles. **(12)**
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 [M.SKIP] or [CM SKIP].

Picture incorrect

Picture distorted.	● Ensure that the unit is not connected through a video cassette recorder. **(5)** ● 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".
Picture size doesn't fit the screen.	● Change "TV ASPECT" in "VIDEO" tab. **(14)** ● Use the television to change the aspect. If your television does not have that function, change "TV ASPECT". **(14)** ● Change the Zoom setting. **(10)**
When playing PAL disc, picture distorted.	● Set "Transfer Mode" to "AUTO". **(13)**
The television may display incorrectly or colours appear faded.	**Unit with PX printed on the outer packaging** ● PAL discs cannot be played. **The United Kingdom, Asia, Australia and N.Z.** ● The unit and television are using different video systems. **Asia** Use a multi-system or NTSC television. **The United Kingdom, Australia and N.Z.** Use a multi-system or PAL television. **The United Kingdom, Asia, Australia and N.Z.** ● 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" tab). **(14)**
Menu not displayed correctly.	● Restore the zoom ratio to "NORMAL". **(10)** ● Change "TV ASPECT" in "VIDEO" tab. **(14)**

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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 OUT (I/P)" in "VIDEO" tab to "INTERLACE". **(14)**
Pictures not in progressive output.	● If the unit is connected to the television through VIDEO OUT or S VIDEO OUT※2, output will be interlace.
Closed captions not displayed.※1	● When progressive output is on, closed captions will not be displayed.

Sound incorrect

Sound distorted.	● Set Advanced Surround to "OFF". **(13)** ● Set Attenuator to "ON" if it causes distortion. **(13)**
Piercing noise comes from the speakers.	● If you have connected a digital amplifier which does not include decoder, be sure to set "DOLBY DIGITAL", "MPEG※3" to "PCM" and set "DTS" to "OFF" in "AUDIO" tab. **(15)**
Effects do not work.	● None of the audio effects work when the unit is outputting bitstream signals from the COAXIAL terminal. **(6)** ● Some audio effects do not work or have less effect with some discs.

Recording

Cannot record to digital recording equipment. (Incorrect sound recorded.)	● You cannot record 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 **(13)** – DOWN SAMPLING: ON **(15)** – DOLBY DIGITAL/MPEG※3: PCM **(15)** – DTS: OFF **(15)**

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. **(18)** ● You haven't inserted the disc correctly: Insert it correctly. **(8)**
"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.
"NODISC"	● You haven't inserted a disc: Insert one.
"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)**

※1 Unit with PX printed on the outer packaging
※2 Except The United Kingdom
※3 The United Kingdom, Australia and N.Z.

Troubleshooting guide

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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:

Unit with PX printed on the outer packaging	NTSC
Others	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 (3″) or 12 cm (5″)]:
(1) DVD (DVD-Video)
(2) DVD-R (DVD-Video, MP3※2, 4, JPEG※3, 4)
(3) DVD-R DL (DVD-Video)
(4) DVD-RW (DVD-Video, MP3※2, 4, JPEG※3, 4)
(5) +R/+RW (Video)
(6) +R DL (Video)
(7) CD, CD-R/RW (CD-DA, Video-CD, SVCD※1, MP3※2, 4, JPEG※3, 4)
Video output:
Output level: 1 Vp-p (75 Ω)
Output terminal:

The United Kingdom	Pin jack (1 system)/AV
Others	Pin jack (1 system)

S-video output:

Unit with PX printed on the outer packaging
Y output level: 1 Vp-p (75 Ω)
C output level: 0.286 Vp-p (75 Ω)

Others
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	AV
Others	S terminal (1 system)

Component video output:

Unit with PX printed on the outer packaging
[NTSC: 525 (480)p/525 (480)i]
Others
[NTSC: 525 (480)p/525 (480)i, PAL: 625 (576)p/625 (576)i]

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: The United Kingdom
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	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 3A
Power supply:

The United Kingdom, Australia and N.Z.
AC 230 to 240 V, 50 Hz
Asia and Unit with PX printed on the outer packaging
AC 110 to 240 V, 50/60 Hz

Power consumption: 10 W
Power consumption in standby mode:

DVD-S32	approx. 1 W
DVD-K32	less than 1.5 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
※2 MPEG-1 Layer 3, MPEG-2 Layer 3
※3 Exif Ver 2.1 JPEG Baseline files
Picture resolution:
between 320×240 and 6144×4096 pixels
(Sub sampling is 4:2:2 or 4:2:0)
※4 The total combined maximum number of recognizable audio and picture contents and groups: 1000 audio and picture contents and 256 groups.

Tips for making data discs

Format	Disc	Extension	Reference
MP3	DVD-R/RW CD-R/RW	".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 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.

● 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-R/RW
● Discs must conform to UDF bridge (UDF 1.02/ISO9660).
● This unit is not compatible with multi-session. The default session only 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
root
001 group
001 track.mp3
002 track.mp3
003 track.mp3
002 group
001 track.mp3
002 track.mp3
003 track.mp3
004 track.mp3
003 group
001 track.mp3
002 track.mp3
003 track.mp3

-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.

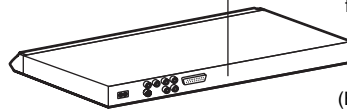### Information on Disposal in other Countries outside the European Union
This symbol is only valid in the European Union.
If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

RQT8685

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CAUTION	LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM.	FDA 21 CFR / Class II
CAUTION	VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.	IEC60825-1 / Class 3b
ATTENTION	RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.	
ADVARSEL	SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.	
VARO!	AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.	
VARNING	SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.	
ADVARSEL	SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.	
VORSICHT	SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET, NICHT DEM STRAHL AUSSETZEN.	
注意	打开时有可见及不可见激光辐射. 避免激光束照射.	
注意	ここを開くと可視及び不可視レーザー光が出ます。ビームを見たり、触れたりしないでください。	RQLCA0141

(Inside of product)

CLASS 1
LASER PRODUCT

The illustration shows DVD-S32 for the United Kingdom.

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