Panasonic®



Operating Instructions *DVD Home Theater Sound System* Model No. **SC-HT335**

Advanced progressive scan page 6

Provides a smoother and sharper image.

Compatible with a variety of media formats page 9

DVD-RAM, DVD-Audio, DVD-Video, DivX and more.

Region number

The player plays DVD-Video marked with labels containing the region number "2" or "ALL".







IDE





High performance sound effects



Sound field control (SFC), Dolby Pro Logic II and more.

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

RQT8226-B

Dear customer

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

Operations in these instructions are described mainly with the remote control, but you can perform the operations on the main unit if the controls are the same.

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.

SystemSC-HT335Main unitSA-HT335Front speakersSB-FS335Center speakerSB-PC335Surround speakersSB-FS335SubwooferSB-W335

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	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
VARNING	 SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.
ADVARSEL	 SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
ADVARSEL	 SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.
VARO!	AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VORSICHT	 SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.
ATTENTION	 RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.
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	 ニ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、触れたりしないで下さい。 ROLXS0054

(Inside of product) (Produktets innside) (Tuotteen sisällä)



LUOKAN 1 LASERLAITE KLASS 1 LASER APPARAT

(Side of product)

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 places 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

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.

Table of contents

Getting started

	ecautions
STEP 2 STEP 3 STEP 4 STEP 5	Setup Positioning
Control re	eference guide

Disc operations

Using the main unit/Using the remote control

Displaying current playback condition (QUICK OSD)/ Reviewing titles to play (ADVANCED DISC REVIEW)/ Quick replay/Skipping 30 seconds forward/ Changing the zoom ratio/Changing soundtracks/ Changing subtitles/Angle selection and Still picture rotation/ advance/Changing play speed/Repeat play/ All group, Program and Random play Using navigation menus14 Playing data discs/Playing from the selected track in the CD/

Playing HighMAT[™] discs/Playing RAM/DVD-RW (DVD-VR) discs

Glossary

Decoder

A decoder restores the coded audio signals on DVD's to normal. This is called decoding.

DivX

A video compression format developed by DivXNetworks, Inc. that compresses video files without any considerable loss of video quality.

Dolby Digital

This is a method of coding digital signals developed by Dolby Laboratories. Apart from stereo (2-channel) audio, these signals can also be multi-channel audio. A large amount of audio information can be recorded on one disc using this method.

DTS (Digital Theater Systems)

This surround system is used in many movie theaters around the world. There is good separation between the channels, so realistic sound effects are possible.

Dynamic range

Dynamic range is the difference between the lowest level of sound that can be heard above the noise of the equipment and the highest level of sound before distortion occurs.

Frame still and field still

Frames are the still pictures that go together to make a moving picture. There are about 30 frames shown each second.

One frame is made up of two fields. A regular television shows these fields one after the other to create frames.

A still is shown when you pause a moving picture. A frame still is made up of two alternating fields, so the picture may appear blurred, but overall quality is high.

A field still is not blurred, but it has only half the information of a frame still so picture quality is lower.

Using on-screen menus	16
Main menu/Other Settings	
Changing the player settings	18
Changing the delay time (Speaker Settings)	

Other operations

The radio	20
Sound field and sound quality	22
Sound Field Control/Center Focus/	
Dolby Pro Logic II/Down-mixing/	
Subwoofer level/Speaker level adjustments	
Composition other convincent	24
Connecting other equipment	24
Operating the television	24
5 11	
Operating the television Other useful functions	
Operating the television Other useful functions Sleep timer/Muting/Using headphones Reference	25
Operating the television Other useful functions Sleep timer/Muting/Using headphones Reference Other speaker setup options	25 26
Operating the television Other useful functions	25 26 27
Operating the television Other useful functions	25 26 27 27
Operating the television Other useful functions	25 26 27 27 27

Specifications 29

Accessories..... Back cover

Troubleshooting guide.....

I/P/B

MPEG 2, the video compression standard adopted for use with DVD-Video, codes frames using these 3 picture types. I: Intra coded picture

- This picture has the best quality and is the best to use when adjusting the picture.
- P: Predictive coded picture This picture is calculated based on past I or P-pictures.
- B: Bidirectionally-predictive coded picture This picture is calculated by comparing past and future I and P-pictures so it has the lowest volume of information.

Linear PCM (pulse code modulation)

These are uncompressed digital signals, similar to those found on CDs.

MPEG4

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

Playback control (PBC)

If a Video CD has playback control, you can select scenes and information with menus.

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.

... 30

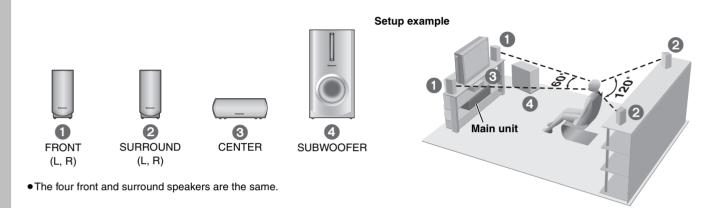
RQT8226

Simple setup STEP 1 Positioning

How you set up your speakers can affect the bass and the sound field. Note the following points:

- Place speakers on flat secure bases.
- Placing speakers too close to floors, walls, and corners can result in excessive bass. Cover walls and windows with thick curtains.
- Place the front, center, and surround speakers at approximately the same distance from the seating position.
- The angles in the diagram are approximate.

Other speaker setup options (→ page 26)



•Use only supplied speakers

- Using other speakers can damage the unit, and sound quality will be negatively affected.
- Set the speakers up on an even surface to prevent them from falling. Take proper precautions to prevent the speakers from falling if you cannot set them up on an even surface.

Main unit

Note

Keep your speakers at least 10 mm away from the system for proper ventilation.

Center speaker

- Vibration caused by the center speaker can disrupt the picture if it is placed directly on the television. Put the center speaker on a rack or shelf.
- To prevent the speakers from falling, do not place directly on top of the television.

Subwoofer

Place to the right or left of the television, on the floor or a sturdy shelf so that it won't cause vibration. Leave 10 cm at the rear for ventilation.

Notes on speaker use

- You can damage your speakers and shorten their useful life if you play sound at high levels over extended periods.
- Reduce the volume in the following cases to avoid damage: - When playing distorted sound.
- When the speakers are reverberating due to a record player, noise from FM broadcasts, continuous signals from an oscillator, test disc, or electronic instrument.
- -When adjusting the sound quality.
- -When turning the unit on or off.

If irregular coloring occurs on your television

The supplied speakers are designed to be used close to a television, but the picture may be affected with some televisions and setup combinations.

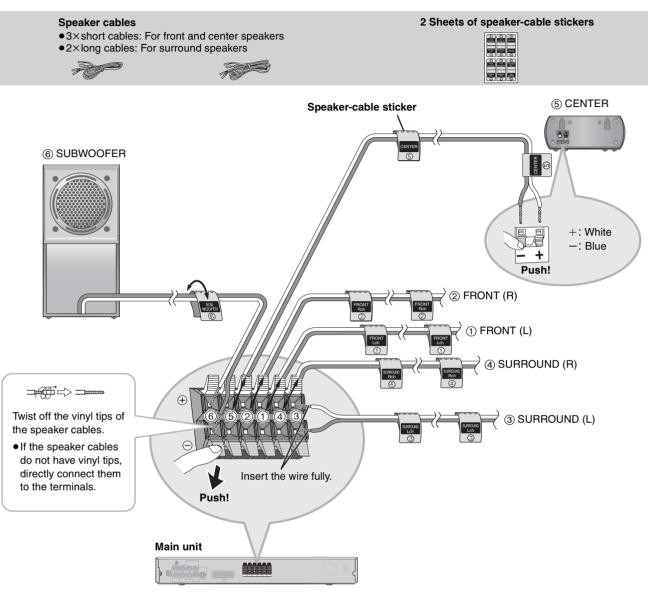
If this occurs, turn the television off for about 30 minutes. The television's demagnetizing function should correct the problem. If it persists, move the speakers farther away from the television.

Caution

- •The main unit and supplied speakers are to be used only as indicated in this setup. Failure to do so may lead to damage to the amplifier and/or the speakers, and may result in the risk of fire. Consult a qualified service person if damage has occurred or if you experience a sudden change in performance.
- •Do not attempt to attach these speakers to walls using methods other than those described in this manual.

STEP2 Speaker connections

Attach the speaker-cable stickers to make connection easier.



Note

- Never short-circuit positive (+) and negative (-) speaker wires.
- Be sure to connect only positive (white) wires to positive (+) terminals and negative (blue) wires to negative (-) terminals. Incorrect connection can damage the speakers.



Video cable

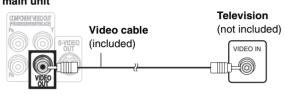


•Do not connect through the video cassette recorder.

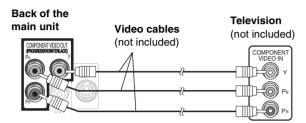
- Due to copy guard protection, the picture may not be displayed properly.
- Turn the television off before connecting, and refer to the television's operating instructions.

Television with a VIDEO IN terminal

Back of the main unit



Television with COMPONENT VIDEO IN terminals



COMPONENT VIDEO OUT terminals

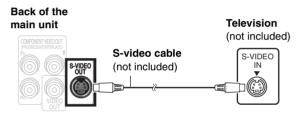
These terminals can be used for either interlace or progressive output and provide a purer picture than the S-VIDEO OUT terminal. Connection using these terminals outputs the color difference signals (P_B/P_R) and luminance signal (Y) separately in order to achieve high fidelity in reproducing colors.

- The description of the component video input terminals depends on the television or monitor (e.g. Y/P_B/P_R, Y/B-Y/R-Y, Y/C_B/C_R). Connect to terminals of the same color.
- When making this connection, select "Video/YPbPr" or "S-Video/ YPbPr" from QUICK SETUP (→ page 8). If "RGB/No Output" is selected, the RGB signal is output from the SCART (AV) terminal, but no signal is output from the component video output terminals.

To enjoy progressive video

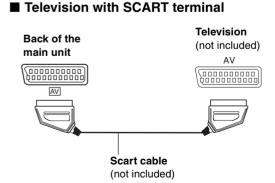
- Connect to the component video input terminals on a 625p or 525p compatible television. (Video will not be displayed correctly if connected to an incompatible television.)
- Panasonic televisions with 625 (576)/50i-50p, 525 (480)/ 60i-60p input terminals are progressive compatible. Consult the manufacturer if you have another brand of television.





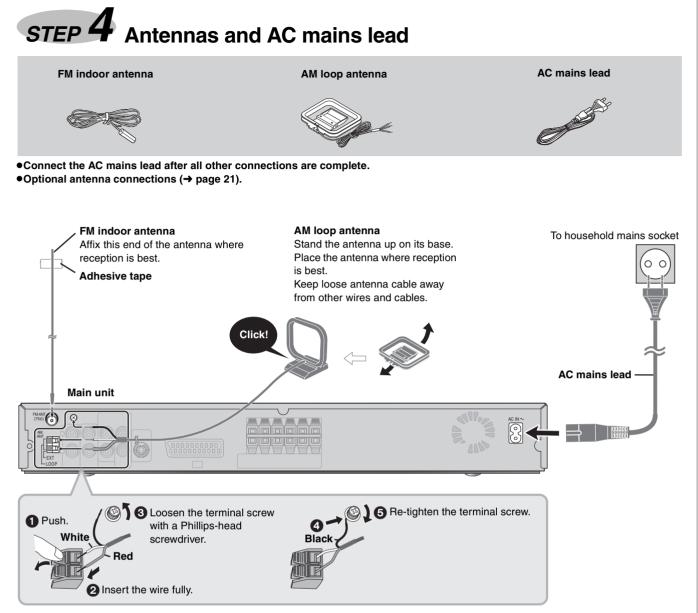
S-VIDEO OUT terminal

The S-VIDEO OUT terminal achieves a more vivid picture than the VIDEO OUT terminal by separating the chrominance (C) and luminance (Y) signals. (Actual results depend on the television.)



SCART (AV) terminal

To improve picture quality, you can change the video signal output from the SCART (AV) terminal from "Video" to either "S-Video" or "RGB" to suit the type of television you are using. Select "S-Video/ YPbPr" or "RGB/No Output" from QUICK SETUP (→ page 8).



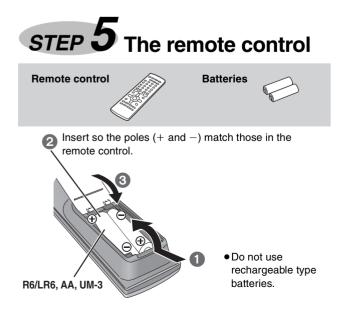
Conserving power

The main unit consumes a small amount of power, even when it is turned off (approx. 0.5 W). To save power when the unit is not to be used for a long time, unplug it from the household mains socket.

You will need to reset some memory items after plugging in the unit.

Note

The included AC mains lead is for use with this unit only. Do not use it with other equipment.



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.

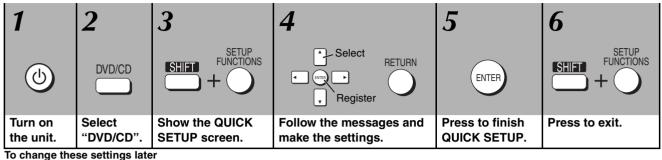
Remove if the remote control is not going to be used for a long period of time. Store in a cool, dark place.

Use

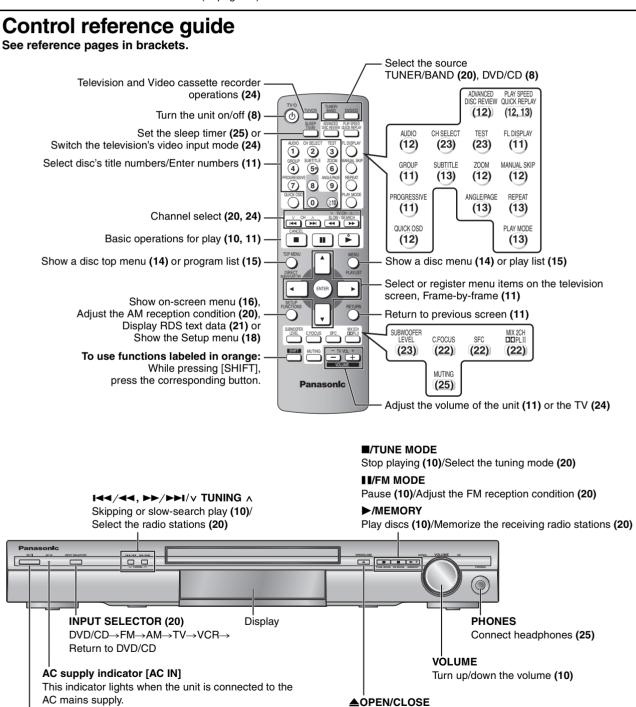
Aim at the display (\rightarrow page 8), avoiding obstacles, at a maximum range of 7 m directly in front of the unit.



The QUICK SETUP screen assists you to make necessary settings. Turn on the television and select the appropriate video input on the television.



Select "QUICK SETUP" in the "Others" tab (→ page 19).



Open/Close the disc tray (10)

Standby/on switch [O/I] Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power. (10)

Discs that can be played

Disc	Logo	Indication in these operating instructions	Remarks	
		RAM	Recorded with devices using Version 1.1 of the Video R unified video recording standard), such as DVD video re cameras, personal computers, etc.	
DVD-RAM		JPEG	Recorded with the Panasonic SD multi cameras or DVD video recorders using the DCF (Design rule for Camera File system) Standard Version 1.0.	●To play JPEG,
	R A M R A M 4.7	MPEG4	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].	MPEG4 or DivX video contents, select "Play as Data Disc" in Other Menu (→ page 17).
		DivX ^{×1}		
		DVD-A	_	
DVD-Audio	AUDIO	DVD-V	Some DVD-Audio discs contain DVD-Video content. To play DVD-Video content, select "Play as DVD-Video" (→ page 17).	in Other Menu
DVD-Video			_	
DVD-R (DVD-Video)/ DVD-RW (DVD-Video)	R R4.7	DVD-V	Discs recorded and finalized ^{*2} on DVD video recorders	or DVD video cameras.
+R (Video)/ +RW (Video)	_		Discs recorded and finalized*2 on DVD video recorders	or DVD video cameras.
DVD-R (DivX Video)/ DVD-RW (DivX Video)	R4.7	DivX *1	Finalize ^{**2} the disc after recording.	
DVD-RW (DVD-VR)	RW	DVD-RW (VR)	Discs recorded and finalized ^{*2} on DVD video recorders using Version 1.1 of the Video Recording Format (a unif standard).	
Video CD			_	
SVCD		VCD	Conforming to IEC62107	
CD	DIGITAL AUDIO	CD	This unit is compatible with HDCD, but does not support function (a function which expands the dynamic range o HDCD-encoded CD's sound better because they are en compared with 16 bits for all other CD's.	f high level signals).
CD-R CD-RW	_	WMA MP3 JPEG CD MPEG4 DivX ^{*1} VCD	 This unit can play CD-R/RW (audio recording disc) reconnected on the left. Close the sessions or finalize^{*2} the disc aft HighMAT discs WMA, MP3 or JPEG files only. To play without using the HighMAT function, select "Playmenu (→ page 17). WMA This unit does not support Multiple Bit Rate (MBI same content encoded at several different bit rates). 	er recording. ay as Data Disc" in Other

*1 Created using DivX ver.3.11, 4.x, 5.x [DivX video system/MP3, Dolby Digital or MPEG audio system].

*2 A process that allows play on compatible equipment.

• 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 15, Tips for making data discs).

Discs that cannot be played

Version 1.0 of DVD-RW, DVD-ROM, CD-ROM, CDV, CD-G, SACD and 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.

■ Video systems

- This unit can play PAL and NTSC, but your television must match the system used on the disc.
- 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 (→ page 19, "NTSC Disc Output" in "Video" tab).

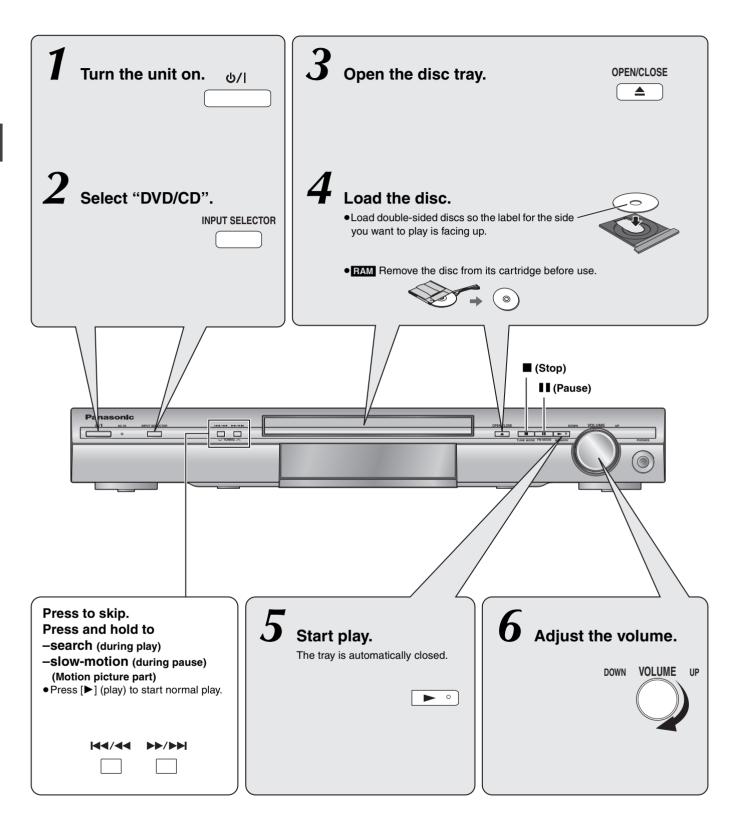
Audio format of DVD's

This unit automatically recognizes and decodes discs with these symbols.



Basic play

Using the main unit



Note

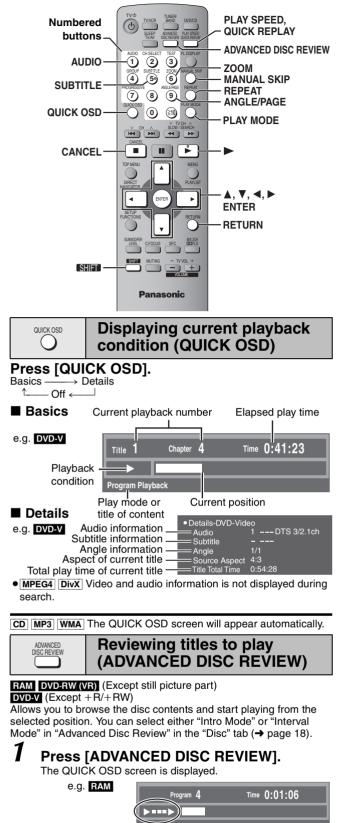
• Discs continue to rotate while menus are displayed. Press [I] when you finish to preserve the unit's motor and your television screen.

 \bullet Total title number may not be displayed properly on +R/+RW.

RAM DVD-RW (VR) DVD-A 123 DVD-V VCD CD 4 5 6 e.g. To select 12: Numbered 789 $[\geqq10] \rightarrow [1] \rightarrow [2]$ buttons 1 23 \bigcirc \cap 0 VCD with playback control **4**) 5 200M SUBTITLE (4) Press [I] to cancel the PBC PROGRES. $\overline{\mathcal{T}}$ 8 9 function, and then press the ENTER Enter number numbered buttons. (0) (210) SLOW/SEARCH WMA MP3 JPEG MPEG4 DivX CANCEL SHIFT e.g. To select 123: 5 Ď $[1] \rightarrow [2] \rightarrow [3] \rightarrow [ENTER]$ Ш +• Press [SHIFT]+[CANCEL] to DIREC CANCEL cancel the number(s). ▲. ▼. ◀. ▶ ► ENTER DVD-A DVD-V MX 20 TOP MENU Shows a disc top menu SHIFT 6 RAM DVD-RW (VR) DIRECT Shows the programs Panasonic (→ page 15) DVD-V MENU Shows a disc menu The position is memorized while Disc menu "RESUME" is on the display. RAM DVD-RW (VR) PLAYLIST Stop ● Press [▶] (play) to resume. Shows a play list (\rightarrow page 15) • Press [I] again to clear the VCD with playback control RETURN position. Shows a disc menu ● Press [▶] (play) to restart play. Pause Return to RETURN previous screen RAM DVD-RW (VR) DVD-A DVD-V WMA MP3 MPEG4 DivX • WMA MP3 JPEG MPEG4 Skip ۸ Time display DivX $[\blacktriangle, \nabla]$: Group skip during ↔ Information display play FL DISPLAY Main unit JPEG | **.** [◀, ▶] : Content skip during display When Slideshow (→ page 16) is play on: SLIDE↔Information display • Up to 5 steps. Search When Slideshow is off: ● Press [▶] (play) to start (during play) $PLAY \leftrightarrow Information display$ normal play. SLOW / SEARCH VCD Slow-motion: forward • RAM DVD-RW (VR) **Slow-motion** direction only. **SHIFT** Turns subtitle on/off (\rightarrow page 13) MPEG4 DivX Slow-motion: (during pause) Subtitles/ Does not work. DVD-V DivX VCD (SVCD only) +Selects the subtitle languages Information (→ page 13) SUBTITLE **DVD-A** (Motion picture part) screen Frame-by-RAM DVD-RW (VR) DVD-V VCD (5∘) JPEG frame **•** Date \leftrightarrow No information • VCD Forward direction only. (during pause) DVD-A WMA MP3 JPEG **SHIFT** MPEG4 DivX Select A folder on WMA/MP3, JPEG, +*/ MPEG4 and DivX video discs is **On-screen** GROUP treated as a "Group". • item select (4) Starting play • from a Register selected Select group SHIFT -7 **Progressive** ENTER +Video • PROGRESSIVE (7) Register

Using the remote control

Convenient functions



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

- This may not work depending on the disc and the play position.
- RAM DVD-RW (VR) This does not work when playing a play list

(→ page 15).

Quick replay

(Only when the elapsed play time can be displayed.) (Except MPEG4 DivX, +R/+RW)

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



Skipping 30 seconds forward

(Only when the elapsed play time can be displayed.) RAM DVD-RW (VR) DVD-V (Except +R/+RW) Play restarts from approximately 30 seconds later. Convenient when you want to skip commercials etc.

During play Press [MANUAL SKIP].

RAM [DVD-RW (VR)] It is not possible to skip through the current program if the start of the next program is within about 30 seconds of the point you are skipping from.



Changing the zoom ratio

DVD-A (Motion picture part) RAM DVD-RW (VR) DVD-V VCD MPEG4 DivX

This feature expands the letterbox picture to fit the screen. **During play**

several time		🖾 Functions
	es to select the ect ratio (Just Fit	Just Fit Zoom ×1.00 ►
Zoom) or "/		0031111200111 ×1.00 ×
DVD-A (Motion Auto \rightarrow 4:3 Star	picture part) RAM DVD ndard \rightarrow European Vist	
↑ Cinemascope2	← Cinemascope1 ←	↓ American Vista
e.g.		66:1)
t	5 full-screen)	Driginal (actual recorded size
Press and hold	evision and its settings. d [◀, ▶] to alter faster.	
	Changing so	oundtracks
DVD-A DVD-V	DivX (with multiple sounds	
		racks) RAM DVD-RW (VR) VCC
Press [SHII	FT]+[AUDIO] se	veral e.a. DVD-V
Press [SHII times to se RAM DVD-RW(()	FT]+[AUDIO] se elect the soundt	veral e.g. DVD-V rack.
Press [SHI times to se RAM DVDRW((You can use this DivX	FT]+[AUDIO] se elect the soundt	veral e.g. DVD-V rack.
Press [SHI times to se RAM DVDRW((You can use this DivX While the menu	FT]+[AUDIO] se elect the soundt	veral e.g. DVD-V rack.
Press [SHI times to se RAM DVDRW((You can use this DivX While the menu Press [◀, ▶] to DVD-V (Karaoke	FT]+[AUDIO] se elect the soundt TB) VCD button to select "L", "R" is displayed select "L", "R" or "LR". e discs)	veral e.g. DVD-V rack.
Press [SHII times to se RAM DVDRW((You can use this DivX While the menu Press [◀, ▶] to DVD-V (Karaoke While the menu	FT]+[AUDIO] se elect the soundt (E) VCD button to select "L", "R" is displayed select "L", "R" or "LR". e discs) is displayed	veral rack. or "LR". e.g. DVD-V Functions Audio 1
Press [SHI times to se RAM DVDRW((You can use this DivX While the menu Press [◀, ▶] to DVDV (Karaoke While the menu Press [◀, ▶] to	FT]+[AUDIO] se elect the soundt TB) VCD button to select "L", "R" is displayed select "L", "R" or "LR". e discs)	veral rack. or "LR". e.g. DVD-V Functions Audio 1
Press [SHII times to se RAM DVD-RW((You can use this DivX) While the menu Press [◀, ▶] to DVD-V (Karaoke While the menu Press [◀, ▶] to Read the disc's	FT]+[AUDIO] se elect the soundt	veral rack. or "LR". e.g. DVD-V Functions Audio 1
Press [SHII times to se FAM DVD-RW((You can use this DivX While the menu Press [◀, ▶] to DVD-V (Karaoke While the menu Press [◀, ▶] to Read the disc's Signal type/dat	FT]+[AUDIO] se elect the soundt	veral rack. or "LR". e.g. DVD-V Functions Audio 1
Press [SHII times to se FAM DVD-RW((You can use this DivX While the menu Press [◀, ▶] to DVD-V (Karaoke While the menu Press [◀, ▶] to Read the disc's Signal type/dat LPCM/PPCM/D	FT]+[AUDIO] se elect the soundt	veral rack. or "LR". Signal type
Press [SHII times to se FAM DVDFWV(V You can use this DivX While the menu Press [◀, ▶] to DVD-V (Karaoke While the menu Press [◀, ▶] to Read the disc's Signal type/dat LPCM/PPCM/D	FT]+[AUDIO] se elect the soundt TD vcD button to select "L", "R" is displayed select "L", "R" or "LR". e discs) is displayed o select "On" or "Off" for instructions for details. ta Digital/DTS/MPEG: S frequency)/bit/ch (Numl 1.1ch	veral rack. e.g. DVD-V or "LR". Functions Audio 1 vocals. Signal type ber of channels)
Press [SHII times to set RAM DVD-RW((You can use this DivX) While the menu Press [◀, ▶] to DVDV (Karaoke While the menu Press [◀, ▶] to Read the disc's Signal type/dat LPCM/PPCM/D kHz (Sampling f	FT]+[AUDIO] se elect the soundt	veral rack. or "LR". Signal type ber of channels) uency effect
Press [SHII times to set RAM DVD:RW((You can use this DivX) While the menu Press [◀, ▶] to DVD-V (Karaoke While the menu Press [◀, ▶] to Read the disc's Signal type/dat LPCM/PPCM/D kHz (Sampling f	FT]+[AUDIO] se elect the soundt	veral rack. e.g. DVDV or "LR". Functions Audio 1 Signal type ber of channels) uency effect layed if there is no signal)
Press [SHII times to se FAM DVDFWV(V You can use this DivX While the menu Press [◀, ▶] to DVD-V (Karaoke While the menu Press [◀, ▶] to Read the disc's Signal type/dat LPCM/PPCM/D kHz (Sampling f	FT]+[AUDIO] se elect the soundt button to select "L", "R" is displayed select "L", "R" or "LR". e discs) is displayed o select "On" or "Off" for instructions for details. Digital/DTS/MPEG: S frequency)/bit/ch (Numi 1ch 1: Low freq (not disp 0: No surro 1: Mono su	veral rack. e.g. DVD-V or "LR". Image: Construction signal state is no signal state is no signal) vocals. Signal type state is no signal) uency effect layed if there is no signal) und

- 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.

RQT8226



Changing subtitles

DVD-V DivX (with multiple subtitles) VCD (SVCD only) Press [SHIFT]+[SUBTITLE] several times to select the subtitle language.

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

To display/clear the subtitles Press [◀, ▶] to select "On" or "Off".

Functions Subtitle Image: A off ►

RAM DVD-RW (VR) (On/Off only with discs that contain subtitle on/off information)

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

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

Angle selection and Still ANGLE/PAGE SHIFT + (9) picture rotation/advance

Press [SHIFT]+[ANGLE/PAGE] several times to select the angle or rotate/advance the still picture.

DVD-V (with multiple angles)-Angle selection

JPEG -Still picture rotation

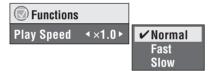
SHIFT +

DVD-A - Still picture advance (Press [RETURN] to go back to page 1.)

QUICK REPLA Changing play speed

DVD-A (Motion picture part) RAM DVD-RW (VR) DVD-V **During play**

Press [SHIFT]+[PLAY SPEED] several times to select "Normal", "Fast" or "Slow".



Changing play speed between the range of "×0.6" to "×1.4" (in 0.1 units)

Press $[\blacktriangleleft, \triangleright]$ while the above message is displayed.

Press [▶] (play) to return to normal play.

- After you change the speed
- Dolby Pro Logic II and Sound Enhancement do not work. -Audio output switches to 2ch.
- Sampling frequency of 96 kHz is converted to 48 kHz.
- This function may not work depending on the disc's recording.

Repeat play

(Only when the elapsed play time can be displayed. JPEG: Works with all JPEG content.)

During play

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



RAM DVD-RW (VR): Program→All→Off ● During play list play: Scene → Playlist → Off DVD-A: Track→Group*→Off DVD-V: Chapter→Title*→Off VCD CD: Track→All→Off

WMA MP3 MPEG4 DivX: Content -> Group* -> Off

JPEG: Group*→Off

* "All" is displayed during all group (DVD-A), program and random play.



All group, Program and Random play

Except RAM DVD-RW (VR)

Press [PLAY MODE] while stopped.

All group, program and random playback screens appear sequentially. All group (DVD-A)-→ Program-→ Random off (Normal play)* ←

- *Select "off" condition to exit the all group, program or random mode. • Disable HighMAT disc play to use random and program play. Select
- "Play as Data Disc" in Other Menu (→ page 17).
- DVD-A Some discs contain bonus groups. If a password screen appears after selecting a group, enter the password with the numbered buttons to play the bonus group. Refer also to the disc's jacket.

All group play

DVD-A

Press [▶] (play).

All Group Playback Press PLAY to start

> Clear Clear all

Program play (up to 32 items)

e.g. DVD-V Press the numbered O Program Playback buttons to select the items (WMA MP3 JPEG MPEG4 Divx then press [ENTER]). • Repeat this step to program other items. •To select a 2-digit number

e.g. To select 25: $[\geq 10] \rightarrow [2] \rightarrow [5]$ WMA MP3 JPEG MPEG4 DivX [2] \rightarrow [5] \rightarrow [ENTER]

2 Press [▶] (play).

To select an item using the cursor buttons

Press [ENTER] and $[\blacktriangle, \nabla]$ to select an item, then press [ENTER] again to register.

To select all the items

While the "Chapter", "Track" or "Content" field is highlighted, press [▲, ▼] to select "ALL". Then press [ENTER] again to register.

To change the selected program Press $[\blacktriangle, \nabla]$ to select an item. 1

- 2 Repeat step 1 above.
- To clear the selected program

Press $[\blacktriangle, \nabla]$ to select an item.

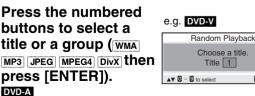
Press [SHIFT]+[CANCEL] (or press [▲, ▼, ◄, ▶] to select 2 "Clear" and press [ENTER]).

To clear the whole program

Press $[\blacktriangle, \nabla, \triangleleft, \blacktriangleright]$ to select "Clear all" and press [ENTER]. The whole program is also cleared when the unit is turned off, the disc tray is opened or another source is selected.

Random play

DVD-A DVD-V WMA MP3 JPEG MPEG4 DivX

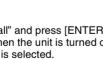


DVD-A

- To enter all groups, press [◀, ►] to select "All" and press [ENTER].
- To deselect a group, press the numbered buttons corresponding to the group you want to clear.

Press [▶] (play).

PLAY to s



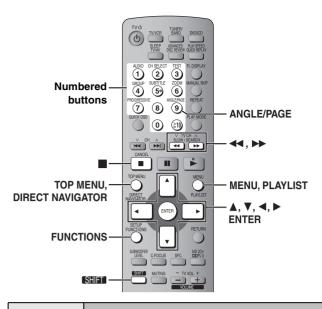
e.g. DVD-V

Chapter

ALL



Using navigation menus



Playing data discs

WMA MP3 JPEG MPEG4 DivX

You can play JPEG, MPEG4 and DivX video contents on DVD-RAM or play HighMAT discs without using the HighMAT function (→ page 17, "Play as Data Disc" in Other Menu).

● Playing HighMAT[™] discs (→ page 15)

Playing items in order (Playback Menu)

Press [TOP MENU].

Items shown differ depending on the type of disc.

e.g.

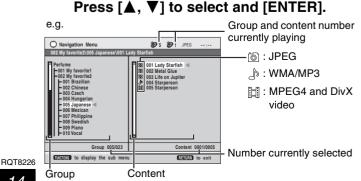
	Playback Menu
All contents _	All Total 436
WMA/MP3-	Audio Total 7
JPEG —	Picture Total 427
MPEG4 and DivX video –	Video Total 2
	▲▼ to select and press ENTER

•To exit the screen Press [TOP MENU].

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

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 [SHIFT]+[ANGLE/PAGE] to skip page by page in the group or content field.
- •To enjoy listening to WMA/MP3 contents while showing a JPEG image on the screen Select a JPEG file first, and then select audio contents.
- (The opposite order is not effective.)
- •To exit the screen Press [MENU].

Using the submenu

- **1** While the menu is displayed Press [FUNCTIONS].
- 2 Press [▲, ▼] to select an item and press [ENTER]. Items shown differ depending on the disc contents.

√Multi——	Groups and contents are displayed.
List	 Contents only
Tree——	 Groups only
Thumbnail—	– Thumbnail images JPEG
Next group-	 To go to next group
Previous group-	 To go to previous group
	WMA/MP3, JPEG, MPEG4 and DivX video
Audio ——	– WMA/MP3 only
Picture —	– JPEG only
Video ——	 MPEG4 and DivX video only
Help display-	To switch between guide messages and the elapsed play time indicator
Find	 To search by content or group title (→ below)

Searching by a content or group title

Highlight a group title to search the group, or a content title to search its content.

1 While the submenu is displayed (\rightarrow above)

Press $[\blacktriangle, \nabla]$ to select "Find" and press [ENTER].

|--|

- 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.
 - •Leave the asterisk (*) when you search for the titles including the character you enter.
 - •Erase the asterisk (*) to search for the titles starting with the character you enter. To add the asterisk (*) again, display the submenu again and select "Find".
- **3** Press [▶] to select "Find" and press [ENTER]. The search result screen appears.
- 4 Press [▲, ▼] to select the content or group and press [ENTER].

TOP MENU / MENU

Playing from the selected track in the CD

CD

Titles appear with CD Text disc playback.

7 Press [TOP MENU] or [MENU].

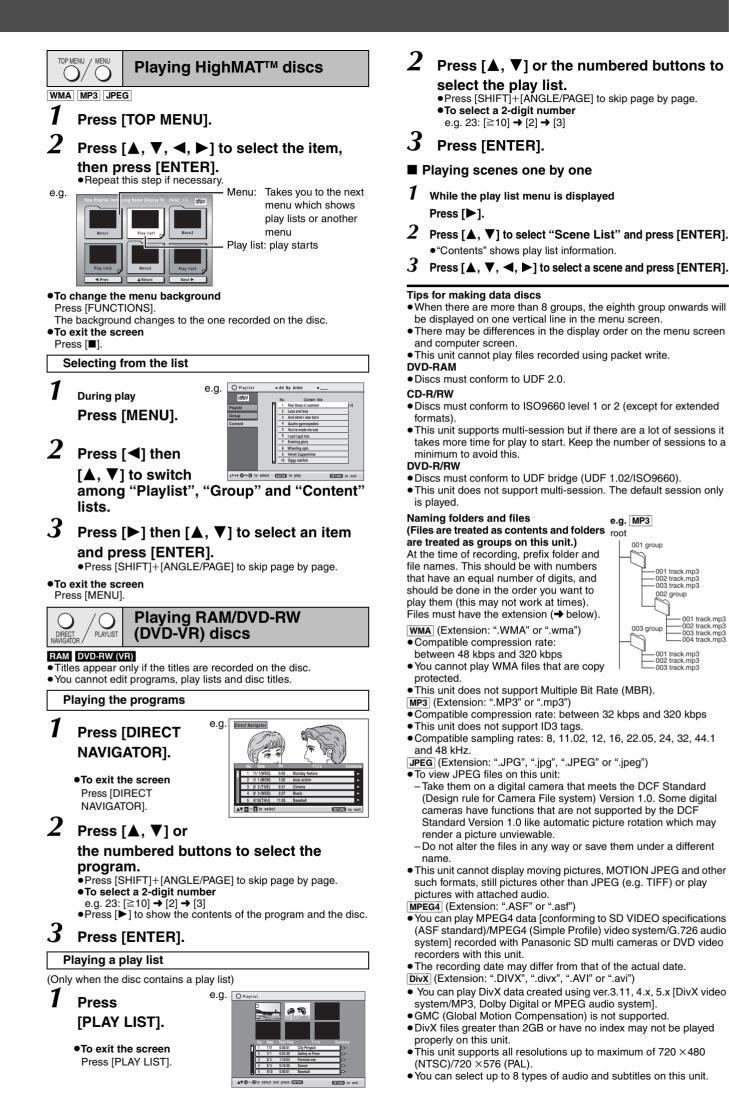


2 Press [▲, ▼] to select the track and press[ENTER].

• Press [SHIFT]+[ANGLE/PAGE] to skip page by page.

• Press [FUNCTIONS] to show the playback condition and current position.

To exit the screen Press [TOP MENU] or [MENU].



001 track.mp3 002 track.mp3 003 track.mp3

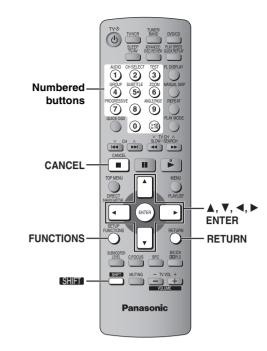
001 track.mp3 002 track.mp3 003 track.mp3

001 track.mp3 002 track.mp3 003 track.mp3 004 track mp3

002 group

RQT8226 15

Using on-screen menus



1	SETUP FUNCTIONS	Press once.
2	Select Go to the next menu Register Return to the previous menu	Select the menu.
3	Select	Make the settings.
	 2 3 4 5 6 7 8 9 0 4 	
4	SETUP FUNCTIONS	Press to exit.

Items shown differ depending on the type of disc.

Main menu		
Program Group Title Chapter Track Playlist Content	To start from a specific item	
Time * Except +R/ +RW	 To skip incrementally or decrementally* (Time Slip for play only) 1 Press [ENTER] twice to show the Time Slip indicator. 2 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	MPEG4 DivX To display pixel number DivX fps (frame per second) is also displayed.	
Audio	(→ page 12, Changing soundtracks) WMA MP3 To display the current disc type	
Still Picture	To switch still pictures	
Thumbnail	To show thumbnail images	
Subtitle	(→ page 13, Changing subtitles)	
Marker (VR)	RAM DVD-RW(VR) To recall a marker recorded on DVD-Video recorders To recall a marker: Press [▲, ▼] → Press [ENTER]	
Angle	(with multiple angles) To select the angle	
Rotate Picture	To rotate picture	
Slideshow	To turn on/off slideshow To change the slideshow timing (0–30 sec)	
Other Settings	(→ page 17)	

Other Settings

DVD-A (Motion picture part) RAM DVD-RW (VR) DVD-V To change play speed - - from "×0.6" to "×1.4" (in 0.1 unit steps) Image: Play Menu (Only when the elapsed play time can be displayed. JPEG : Works with all JPEG content.)		
Repeat	(→ page 13, Repeat play)	
A-B Repeat	Except JPEG RAM DVD-RW(VR) (Still picture part) MPEG4 DivX To repeat a specified section Press [ENTER] at the starting and ending points. Press [ENTER] again to cancel.	
Marker	Except RAM DVD:RW(VR) To mark up to 5 positions to play again Press [ENTER] (The unit is now ready to accept markers.) To mark a position: Press [ENTER] (at the desired point) To mark another position: Press $[\blacktriangleleft, \triangleright]$ to select "*" \rightarrow Press [ENTER] To recall a marker: Press $[\triangleleft, \triangleright] \rightarrow$ Press [ENTER] To erase a marker: Press $[\triangleleft, \triangleright] \rightarrow$ Press [SHIFT]+[CANCEL] • This feature does not work during program and random play.	
Advanced Disc Review	[→ page 12, Reviewing titles to play (ADVANCED DISC REVIEW)]	

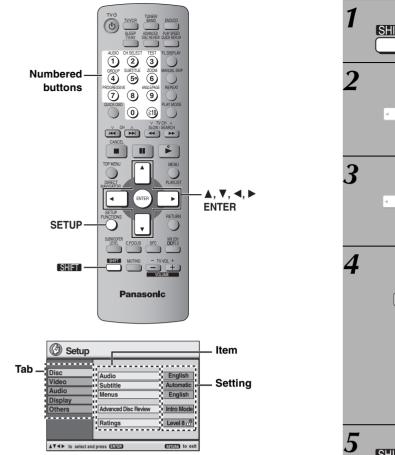
■ Picture Menu

Picture Mode	Normal Cinema1: Mellows images and enhances detail in dark scenes. Cinema2: Sharpens images and enhances detail in dark scenes. Animation, Dynamic User (Press [ENTER] to select "Picture Adjustment") (→ below) Picture Adjustment Contrast, Brightness, Sharpness, Colour Gamma: Adjusts the brightness of dark parts. Depth Enhancer Reduces the rough noise in the background to give a greater feeling of depth.					
Video Output Mode	give a greater feeling of depth. 625i* (or 525i*) (Interlace) ←→ 625p* (or 525p*) (Progressive) When you select "625p" or "525p", a confirmation screen appears. Select "Yes" only if connecting to a progressive output compatible television. *The number displayed depends on the disc being played or "Picture/Video Output" setting (→ page 19).					
Transfer Mode	If you have chosen "625p" or "525p" (→ above), select the method of conversion for video output to suit the type of material. When you play PAL discs, MPEG4 or DivX video contents Auto : Detects 25 frame-per-second film content and appropriately converts it. Video : Select when using Auto, and the video content is distorted. When you play NTSC discs Auto1 (normal): Detects 24 frame-per-second film content and appropriately converts it. Auto2 : Compatible with 30 frame-per-second film content in addition to 24 frame-per-second film content. Video : Select when using Auto1 or Auto2, and the video 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 Me	- TC				
Dolby Pro Logic II	(→ page	22, Dolby	Pro Logic II)		
Dialogue Enhancer	DVD-V (D higher, w channel) DivX (Do	Dolby Digita ith the dial Iby Digital recorded i	gue in movies easier to hear al, DTS, MPEG, 3-channel or ogue recorded in the center , 3-channel or higher, with the n the center channel)		
Sound Enhancement	Enhance sound.	Except MPEG4 DivX Enhances audio output to produce a warm hall-like sound. On \longleftrightarrow Off			
Display N	1enu				
Information		On ←→→	• Off		
Subtitle Pos	ition	0 to -60	(in 2 unit steps)		
Subtitle Brig	htness	Auto, 0 t	o —7		
4:3 Aspect		for 4:3 a aspect to Normal: Auto: Shrink: Zoom: If your te	t how to show images made spect screens on a 16:9 elevision Horizontally stretches images Expands 4:3 letterbox images to fill more of the screen. Other images appear in full in the center of the screen. Images appear in the center o the screen. Expands all images to fill the screen. levision has a similar feature,		
Just Fit Zoo	m	use it instead for a better effect. To select the appropriate screen size to fit your TV screen			
Manual Zoo	m		in and out manually		
Bit Rate Dis		DVD-A (Motion picture part) RAM DVD-RW (VR) DVD-V VCD MPEG4 DivX On ←→ Off			
GUI See-thro	-	Off, On, Auto			
GUI Brightn	ess	-3 to +3	3		
Quick OSD		To display current playback condition Off, Basics, Details After registering the item, press [RETURN] to show the QUICK OSD screen (→ page 12).			
■ Other Me	enu				
Setup		(→ page	18)		
Play as DVD or	-Video	Select "Play as DVD-Video" to play			
Play as DVD	-Audio	DVD-Vide	eo contents of DVD-Audio.		
Play as DVD	-VR	Select "P	Play as Data Disc" to play		

Play as DVD-Video or Play as DVD-Audio	Select "Play as DVD-Video" to play DVD-Video contents of DVD-Audio.
Play as DVD-VR, Play as HighMAT or Play as Data Disc	Select "Play as Data Disc" to play JPEG, MPEG4 or DivX video contents on DVD-RAM or to play a HighMAT disc without using the HighMAT function.

Changing the player settings



1		Show the Setup menu. If you have not set QUICK SETUP (→ page 8), the QUICK SETUP screen appears.
2	Select	Select the tab.
3	Select	Select the item.
4	Select * * * * * * * * * * * * *	Make the settings.
5		Press to exit.

The settings remain intact even if you switch the unit to standby.
Underlined items are the factory preset in the following diagram.

QUICK SETUP enables successive settings of the items in the shaded area.

∎ "Disc" tab

Audio Choose the audio language.	● <u>English</u> ●Swedish	FrenchDutch	● German ● Original ^{×1}	 Italian Other*** 	● Spanish *** ²	 Polish
Subtitle Choose the subtitle language.	● <u>Automatic</u> ^{*3} ●Polish	● English ● Swedish	FrenchDutch	●German ●Other***	● Italian *** ²	 Spanish
Menus Choose the language for disc menus. Changing the menu language in QUICK SETUP also changes this setting.	● <u>English</u> ●Swedish	FrenchDutch	●German ●Other***	● Italian * ^{*2}	● Spanish	● Polish
Advanced Disc Review (→ page 12)	Entro Mode: Reviews each title/program. Interval Mode: Reviews not only each title/program but also each 10 minute interval within a title/program.					
Ratings Set a ratings level to limit DVD-Video	Setting ratings (When level 8 is selected) • <u>8 No Limit</u> •1 to 7 •0 Lock All: To prevent play of discs without ratings levels.					
play.	Follow the on-so Do not forget y	creen instruction our password een will be show	vn if a DVD-Vide	o exceeding the		inserted in the unit.

*1 The original language designated on the disc is selected.
 *2 Input a code number referring to the table on page 28.

*3 If the language selected for "Audio" is not available, subtitles appear in that language (if available on the disc).

■ "Video" tab

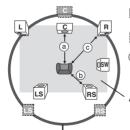
TV Aspect Choose the setting to suit your television and preference.	• <u>4:3 Pan&Scan</u> : Regular aspect television (4:3) The sides of the widescreen picture are cut off so it fills the screen (unless prohibited by the disc).					
	•4:3 Letterbox: Regular aspect television (4:3) Widescreen picture 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) Projection TV	 CRT Projector Plasma TV 	•LCD ⁻	TV/Projector		
Time Delay When connected with a Plasma display, adjust if you notice the audio is out of sync with the video.	• <u>0ms</u> •20ms	●40ms	●60ms	●80ms	• 100ms	

Video Out (AV/Component) Choose the video signal format to be	<u>Video/YPbPr</u> S-Video/YPbPr RGB/No Output
output from the SCART (AV) and Component terminal.	
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 (→ page 9, Video systems)	 <u>PAL60</u>: When connected to a PAL television. NTSC: When connected to an NTSC television.
Picture/Video Output Change the video signal format to be output for JPEG, MPEG4 and DivX video if picture output is not smooth during playback.	 ●Automatic ● PAL ● NTSC/PAL60: Output will depend on "NTSC Disc Output" setting (→ above).
■ "Audio" tab	
Dynamic Range Compression	 Off On: Adjusts for clarity even when the volume is low by compressing the range of the lowest sound level and the highest sound level. Convenient for late night viewing. (Only works with Dolby Digital)
Speaker Settings (→ below) Set the delay time for your center and surround speakers.	• Center: 0.0/1.0/2.0/3.0/4.0/5.0 ms • Surround (L/R): 0.0/5.0/10.0/15.0 ms
■ "Display" tab	·
Menu Language	● English ● Français ● Deutsch ● Italiano ● Español ● Polski ● Svenska ● Nederlands
On-Screen Messages	● <u>On</u> ●Off
Background during Play Select background during JPEG, MPEG4 and DivX video playback.	● <u>Black</u> ●Grey
■ "Others" tab	
FL Dimmer Changes the brightness of the unit's display.	 ●<u>Bright</u> ● Dim ● Auto: The display is dimmed, but brightens when you perform some operations.
DivX Registration Displays the unit's registration code.	You need this registration code to purchase and play DivX Video-on-Demand (VOD) content. (→ page 27, About DivX VOD content)
QUICK SETUP	● <u>Yes</u> ●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. After "INIT" on the display disappears, turn the unit off and on again. No

Changing the delay time (Speaker Settings)

(Effective when playing multi-channel audio)

(Center and surround speakers only) For optimum listening with 5.1-channel sound, all the speakers, except for the subwoofer, should be the same distance from the seating position. If you have to place the center or surround speakers closer to the seating position, adjust the delay time to make up for the difference.



: Actual speakers position

: Ideal speakers position

(a) (b) (c) : Primary listening distance

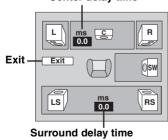
Approximate room dimensions

Circle of constant primary listening distance

If either distance (a) or (b) is less than (c), find the difference in the table and change to the recommended setting.

(a) Center spea	ker	b Surround speaker		
Difference (Approx.) Setting		Difference (Approx.)	Setting	
30 cm	1.0 ms	150 cm	5.0 ms	
60 cm	2.0 ms	300 cm	10.0 ms	
90 cm	3.0 ms	450 cm	15.0 ms	
120 cm	4.0 ms			
150 cm	5.0 ms			

- 1 Press [▲, ▼] to select the delay time box and press [ENTER].
- 2 Press [▲, ▼] to adjust the delay time and press [ENTER]. Center delay time



To finish the speaker setting

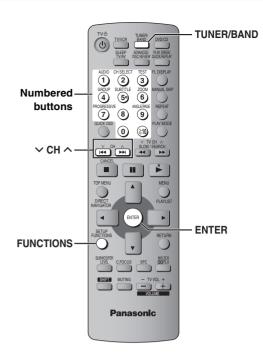
Press [4] to select "Exit" and press [ENTER].

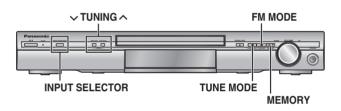
When you change the surround speaker setting for Dolby Digital, the setting also changes for Dolby Pro Logic II.

e.g., the settings for MUSIC are the same as those for Dolby Digital.

Dolby Digital	Dolby Pro Logic II			
Doiby Digital	MUSIC	MOVIE		
0 ms	0 ms	10 ms		
5 ms	5 ms	15 ms		
10 ms	10 ms	20 ms		
15 ms	15 ms	25 ms		

The radio





Automatic presetting

Main unit only

Up to 15 stations can be set in each band, FM and AM.

- **1** Press [INPUT SELECTOR] to select "FM" or "AM".
- 2 Press [TUNE MODE] to select "MANUAL". Each time you press the button: MANUAL↔PRESET
- **3** Press [∨ TUNING ∧] to tune to the lowest frequency (FM: 87.50, AM: 522).

4 Press and hold [MEMORY].

Release the button when "FM AUTO" or "AM AUTO" is displayed.

The tuner presets all the stations it can receive into the channels in ascending order.

- •"SET OK" is displayed when the stations are set, and the radio tunes to the last preset station.
- "ERROR" is displayed when automatic presetting is unsuccessful. Preset the channels manually (→ right).

Selecting the preset channels

- **7** Press [TUNER/BAND] to select "FM" or "AM".
- 2 Press the numbered buttons to select the channel

Alternatively, press [\lor CH \land]. **To select a 2-digit number** e.g. 12: [\ge 10] \rightarrow [1] \rightarrow [2]



When a stereo FM broadcast is being received.



If noise is excessive

When "FM" is selected

Press [FM MODE] on the main unit to display "MONO".



Press [FM MODE] again to cancel the mode. • FM mode is also canceled when you change the frequency.

When "AM" is selected

Press [FUNCTIONS] on the remote control.

Each time you press the button: BP $2 \leftrightarrow BP 1$

• The setting is recalled whenever "AM" is selected.

Manual tuning

Main unit only

- **1** Press [INPUT SELECTOR] to select "FM" or "AM".
- **2** Press [TUNE MODE] to select "MANUAL".
- 3 Press [ee TUNING \land] to select the frequency.

Press and hold [\lor TUNING \land] until the frequency starts scrolling to start automatic tuning. Tuning stops when a station is found.

Presetting the channel

Up to 15 stations can be set in each band, FM and AM.

- 7 While listening to the radio broadcast Press [ENTER].
- 2 While the frequency and "PGM" are flashing on the display Press the numbered buttons to select a channel. Alternatively, press [∨ CH ∧], then press [ENTER]. •To select a 2-digit number

e.g. 12: [≧10] → [1] → [2].



The station occupying a channel is erased if another station is preset to that channel.

RDS broadcasting

The unit can display the text data transmitted by the radio data system (RDS) available in some areas. If the station you are listening to is transmitting RDS signals, "RDS" will light up on the display.

When "FM" is selected Press [FUNCTIONS] on the remote control to display the text data.

Each time you press the button:

 $\mathsf{PS} \text{ (factory preset)} \rightarrow \mathsf{PTY} \rightarrow \mathsf{Frequency display}$

PTY displays					
NEWS	VARIED	FINANCE	COUNTRY		
AFFAIRS	POP M	CHILDREN	NATIONAL		
INFO	ROCK M	SOCIAL A	OLDIES		
SPORT	M.O.R. M∗	RELIGION	FOLK M		
EDUCATE	LIGHT M	PHONE IN	DOCUMENT		
DRAMA	CLASSICS	TRAVEL	TEST		
CULTURE	OTHER M	LEISURE	ALARM		
SCIENCE	WEATHER	JAZZ			

*"M.O.R. M"=Middle of the road music

Note

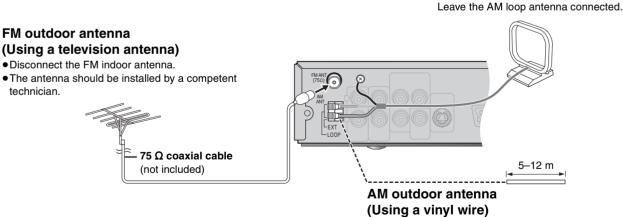
RDS displays may not be available if reception is poor.

Optional antenna connections

Use outdoor antennas if radio reception is poor.

• Disconnect the antenna when the unit is not in use.

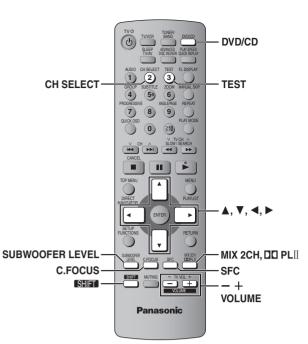
• Do not use the outdoor antenna during an electrical storm.



Run a piece of vinyl wire horizontally across a window or other convenient location.

The radio

Sound field and sound quality



Note

- When connected with headphones, the following sound field systems have no effect. (Excluding Sound Field Control)
- You may experience a reduction in sound quality when these sound field systems are used with some sources. If this occurs, turn the sound field system off.
- The following functions may not work depending on the disc's recording.

SFC

Sound Field Control

Changes the sound quality.

Press [SFC].

Each time you press the button:FLAT:Cancel (no effect is added) (factory preset).HEAVY:Adds punch to rock.CLEAR:Clarifies higher sounds.SOFT:For background music.

To check the current setting

Press [SFC].



Center Focus

(Discs where the dialogue is recorded in the center channel) You can make the sound of the center speaker seem like it is coming from within the television.

Press [C.FOCUS].



Each time you press the button: C FOCUS ON $\leftarrow \rightarrow$ C FOCUS OFF

• This also works when Dolby Pro Logic II is turned on.



Dolby Pro Logic II

Except DivX

Dolby Pro Logic II is an advanced decoder that derives 5-channel surround (Left and Right Front, Center, Left and Right Surround) from any stereo program material, whether or not it has been specifically Dolby Surround encoded.

Press [DDPLII].



Each time you press the button:

MOVIE: Movie software, recorded in Dolby Surround. **MUSIC:** Stereo sources

OFF: Cancel

- This works only in DVD/CD mode.
- "DDPLII" lights when there is effect.



You can output the down-mixed 2 channel signals when necessary.

Press [SHIFT]+[MIX2CH].



Each time you press the button: MIX 2CH ON ←→ MIX 2CH OFF

When "D.MIX" flashes on the display, the disc contains multiplechannel signals that cannot be down-mixed. DVD-A



Subwoofer level

You can adjust the amount of bass. The unit automatically selects the most suitable setting according to the type of playing source.

Press [SUBWOOFER LEVEL].

• DVD-V RAM DVD-RW (VR)

SUB W 4 (factory preset) \rightarrow SUB W 1 \rightarrow SUB W 2 \rightarrow SUB W 3

•When another source is selected

SUB W 2 (factory preset) \rightarrow SUB W 3 \rightarrow SUB W 4 \rightarrow SUB W 1



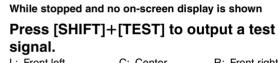
The setting you make is retained, and recalled every time you play the same type of source.



Speaker level adjustments

This is one of the ways to get appropriate surround effects. **Preparation** Press [DVD/CD].

1



 L: Front left
 C: Center
 R: Front right

 RS: Right surround
 LS: Left surround

•There is no output from SW (subwoofer) channel.

Press [VOLUME, +] or [-] to set the volume level normally used for listening.

3

Press [▲] (increase) or [▼] (decrease) to adjust the speaker level for each speaker.

C, RS, LS: $-6 \, dB$ to $+6 \, dB$

- (L, R: Only the balance is adjustable.)To adjust the balance of the front speakers
- While outputting the test signal, press $[\blacktriangleleft, \blacktriangleright]$.
- Adjust the speaker level to the same level as the front speakers.

To stop the test signal Press [SHIFT]+[TEST] again.

■ To adjust speaker level during play

(Effective when playing multi-channel audio or when Dolby Pro Logic II is on.)

1 Press [SHIFT]+[CH SELECT] to select the speaker.

```
L \rightarrow C \rightarrow R \rightarrow RS \rightarrow LS \rightarrow SW
```

SW: Subwoofer

- You can adjust SW only if the disc includes a subwoofer channel.
- "SW" does not appear on the display and is not adjustable when Dolby Pro Logic II is turned on.

2 Press [\blacktriangle] (increase) or [\triangledown] (decrease) to adjust the

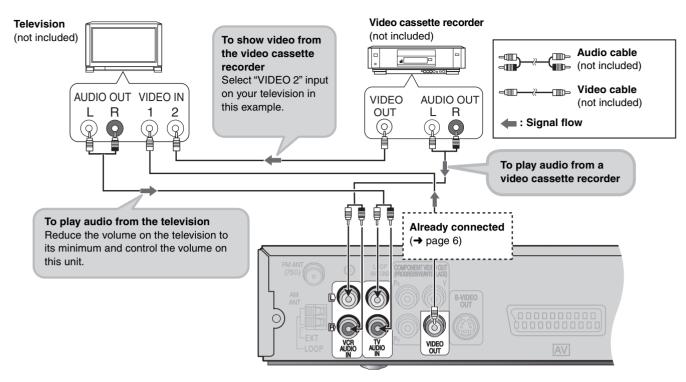
speaker level for each speaker.

- C, RS, LS, SW: -6 dB to +6 dB
- (L, R: Only the balance is adjustable.)
- •To adjust the balance of the front speakers While "L" or "R" is selected, press [◀, ▶].



Connecting other equipment

Connection example

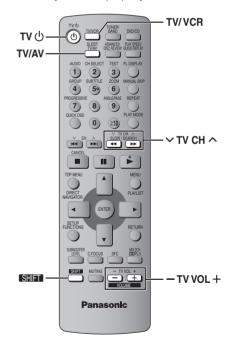


Operating the television

You can use the remote control to operate a Panasonic television. Connect your equipment referring to "Connection example" (+ above).

Note

The remote control may not work properly with some models.



Preparation

Aim the remote control at the unit and press [TV/VCR] once or twice until "TV" appears in the display, and then aim it at the television for the following operations:

Turning the television on/off Press [SHIFT]+[TV 也].

Switching the television's video input mode Press [TV/AV].

Changing channels

Press [SHIFT]+[\lor TV CH \land].

Adjusting the volume

Press [SHIFT]+[- TV VOL +].

Enjoying your Home Theater Sound System with a video cassette recorder

- Change the video input mode on the television ("VIDEO 2" in the example).
- Aim the remote control at the unit and press [TV/VCR] once or twice until "VCR" appears in the display.
- **3** Operate the video cassette recorder using its remote control.

Connecting a laser disc or record player

Connect instead of a video cassette recorder (\rightarrow above) and select "VCR" as the source.

We recommend using a record player with a built-in phono equalizer. If your player doesn't have a built-in equalizer, connect it first to a separate equalizer and then to the unit.

Other useful functions





Press [SHIFT]+[SLEEP] to select the time (in minutes).

SLEEP 30-	→SLEEP 60	——→SLEEP 90
t	OFF←SLEE	EP 120←



To cancel the timer

Press [SHIFT]+[SLEEP] to select "OFF".

To confirm the remaining time

Press [SHIFT]+[SLEEP] again.

To change the setting

Repeat the procedure from the beginning.



Press [MUTING].

"MUTING" flashes on the unit's display.



To cancel

- Press [MUTING] again or reduce the volume to minimum (- dB), then raise it to the required level.
- Muting is canceled when you switch the unit to standby.

Using headphones

Main unit only

1 Reduce the volume and connect the headphones (not included).

Headphone plug type: 3.5 mm stereo



Adjust headphone volume with [VOLUME].

• Audio is automatically switched to stereo (2-channel).

Note

2

Avoid listening for prolonged periods of time to prevent hearing damage.

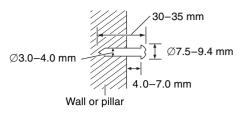
Other speaker setup options

Attaching to a wall

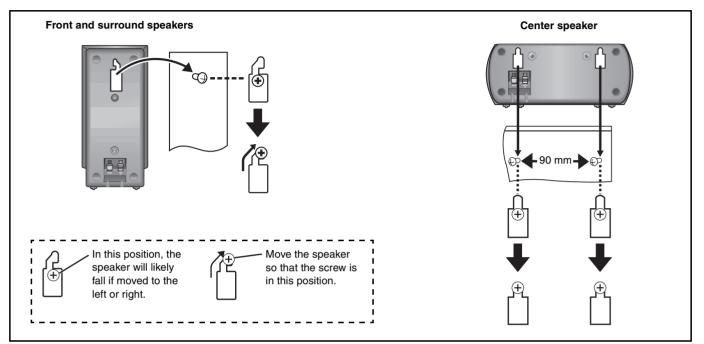
You can attach all of the speakers to a wall.

1 Drive a screw (not included) into the wall.

2 Fit the speaker securely onto the screw(s) with the hole(s).



• The wall or pillar on which the speakers are to be attached should be capable of supporting 10 kg per screw. Consult a qualified building contractor when attaching the speakers to a wall. Improper attachment may result in damage to the wall and speakers.



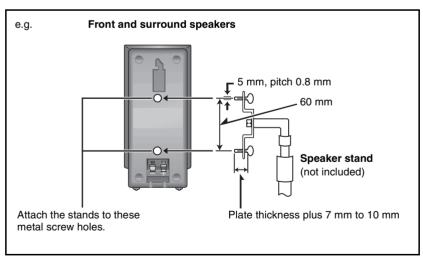
Fitting speaker stands (not included)

Ensure the stands meet these conditions before purchasing them.

Note the diameter and length of the screws and the distance between screws as shown in the diagram.

 \bullet The stands must be able to support over 10 kg.

• The stands must be stable even if the speakers are in a high position.



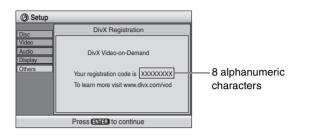
About DivX VOD content

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 online 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.)

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, carefully read the instructions that came with the cloth.

Do not use commercially available lens cleaners as they may cause malfunction. (Cleaning of the lens is generally not necessary although this depends on the operating environment.)

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 turn off the unit or press [SHIFT]+[SETUP].
 -you press [■]. (Press [II] to pause play.)
- -you press [I⊲, ▷▷] or [◄⊲, ▷▷] etc. and arrive at another content or the start of the content being played.
- Resume (→ page 11, Stop) and Marker (→ page 17, Play Menu) functions do not work.

Before moving the unit, ensure the disc tray is empty. Failure to do so will risk severely damaging the disc and the unit.

Disc handling

■ To clean discs

Wipe with a damp cloth and then wipe dry.





Disc 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.

Language code list

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





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Specifications

AMPLIFIER SECTION

RMS Output Power: Dolby Digital Mode

Front Ch	65 W per channel (6 Ω), 1 kHz, 1	
FIONU		
Surround Ch	65 W per channel (6 Ω), 1 kHz, 1	0 % THD
Center Ch	65 W per channel (6 Ω), 1 kHz, 1	0 % THD
Subwoofer Ch	75 W per channel (4 Ω), 100 Hz, 1	0 % THD
Total RMS Dolby Digi	tal mode power	400 W
DIN Output Power: Do	Iby Digital Mode	
Front Ch	55 W per channel (6 Ω), 1 kHz,	1 % THD
Surround Ch	55 W per channel (6 Ω), 1 kHz,	1 % THD
Center Ch	55 W per channel (6 Ω), 1 kHz,	1 % THD
Subwoofer Ch	65 W per channel (4 Ω), 100 Hz,	1 % THD
Total DIN Dolby Digita	al mode power	340 W

Preset station	FM 15 stations
	AM/MW 15 stations
Frequency Modulation (FM)	
Frequency range	87.50–108.00 MHz (50-kHz step)
Sensitivity	1.5 μV (IHF)
S/N 26 dB	1.2 μV
Antenna terminals	75 Ω (unbalance)
Amplitude Modulation (AM/MW)	
Frequency range	522–1629 kHz (9-kHz step)
AM Sensitivity S/N 20 dB at 999	9 kHz 560 μV/m
Phone jack	
Terminal	Stereo, 3.5 mm jack

DISC SECTION

Discs played (8 cm or 12 cm)

- (1) DVD (DVD-Video, DVD-Audio, DivX^{*1,2})
- (2) DVD-RAM (DVD-VR, JPEG*^{2, 3}, MPEG4*^{2, 4}, DivX*^{1, 2})
- (3) DVD-R (DVD-Video, DivX*1,2)
- (4) DVD-RW (DVD-Video, DVD-VR, DivX*1, 2)
- (5) + R/+RW (Video)
- (6) CD, CD-R/RW [CD-DA, Video-CD, SVCD*5, MP3*2, 6, WMA*2, 7, JPEG^{*2, 3}, MPEG4^{*2, 4}, DivX^{*1,2}, HighMAT Level 2 (Audio and Image)] *1 DivX 3.11, 4.x, 5.x
- GMC (Global Motion Compensation) is not supported. *2 The total combined maximum number of recognizable audio, picture and video contents and groups: 4000 audio, picture
- and video contents and 400 groups. *3 Exif Ver 2.1 JPEG Baseline files
- Picture resolution: between 160×120 and 6144×4096 pixels (Sub sampling is 4:2:2 or 4:2:0)
- *4 MPEG4 data recorded with Panasonic SD multi cameras or DVD video recorders
- Conforming to SD VIDEO specifications (ASF standard)/ MPEG4 (Simple Profile) video system/G.726 audio system
- *5 Conforming to IEC62107
- *6 MPEG-1 Layer 3, MPEG-2 Layer 3
- *7 Windows Media Audio Ver. 9.0 L3
- Not compatible with Multiple Bit Rate (MBR)

Pick up

Wavelength	CD 785 nm
	DVD 662 nm
Laser power	CLASS 2/CLASS 3A
NORSK	
Bølgelengde	CD 785 nm
	DVD 662 nm
Laserstyrke	Ingen farlig stråling sendes ut
Audio output (Disc)	
Number of channels	5.1ch (FL, FR, C, SL, SR, SW)

VIDEO SECTION

Video system Signal system Composite video output Output level . Terminal

S-video output

Y output level C output level

Terminal

Component video output

[NTSC: 525 (480)) p/525 (480) i, PAL: 625 (576) p/625 (576) i]
Y output level	1 Vp-p (75 Ω)
P _B output level	0.7 Vp-p (75 Ω)
PR output level	0.7 Vp-p (75 Ω)
Terminal	Pin jack (Y: green, P _B : blue, P _B : 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)
Terminal	Scart jack (1 system)

PAL625/50, PAL525/60, NTSC

1 Vp-p (75 Ω)

1 Vp-p (75 Ω)

Pin jack (1 system) Scart jack (1 system)

PAL; 0.3 Vp-p (75 Ω) NTSC; 0.286 Vp-p (75 Ω) S terminal (1 system)

Scart jack (1 system)

SPEAKER SECTION

Front/Surround speakers SB-FS335 1 way, 1 speaker system (Bass reflex) Туре Speaker unit(s) Impedance 6 Ω Full range 6.5 cm Cone type Input power (IEC) 70 W (Max) 80 dB/W (1.0 m) Output sound pressure **Frequency range** 88 Hz-25 kHz (-16 dB) 100 Hz = 22 kHz (-10 dB)Dimensions (W×H×D) 90 mm×193 mm×105 mm Mass 0.74 kg Center speaker SB-PC335 1 way, 1 speaker system (Bass reflex) Туре Speaker unit(s) Impedance 6 Ω Full range 6.5 cm Cone type Input power (IEC) 70 W (Max) **Output sound pressure** 80 dB/W (1.0 m) **Frequency range** 100 Hz-25 kHz (-16 dB) 113 Hz-22 kHz (-10 dB) Dimensions (W×H×D) 220 mm×88 mm×96 mm Mass 0.72 kg Subwoofer SB-W335 1 way, 1 speaker system (Bass reflex) Туре Speaker unit(s) Impedance 4 Ω Subwoofer 16 cm Cone type Input power (IEC) 90 W (Max) Output sound pressure 80 dB/W (1.0 m) Frequency range 29 Hz-173 Hz (-16 dB) 33 Hz-148 Hz (-10 dB) Dimensions (W×H×D) 175 mm×345 mm×295 mm Mass **GENERAL**

Power supply AC 230 V, 50 Hz Power consumption Main unit 80 W Dimensions (W×H×D) 430 mm×60 mm×337 mm Mass Main unit 3.3 kg +5 °C to +35 °C Operating temperature range Operating humidity range 5 % to 90 % RH (no condensation)

Power consumption in standby mode approx. 0.5 W

Note

- 1. Specifications are subject to change without notice. Mass and dimensions are approximate.
- 2. Total harmonic distortion is measured by the digital spectrum analyzer.

3.3 kg

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.

No power. • Insert the AC mains lead securely. The unit is automatically switched to the standby mode. • The Sleep timer was working and had reached the set time limit. Unresponsive or inoperable function • This unit cannot play discs other than the ones listed in these operating instructions. No response when any buttons are pressed. • This unit cannot play discs other than the ones listed in these operating instructions. No response when remote control buttons are pressed. • Check that the batteries are installed correctly. No picture or sound. • Check the video or audio connection.	7 25 9 7 7 7
switched to the standby mode. Unresponsive or inoperable function No response when any buttons are pressed. • This unit cannot play discs other than the ones listed in these operating instructions. • 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. • Check that the batteries are installed correctly. • The batteries are depleted. Replace them with new ones. • Aim the remote control at the display and operate. • Check the video or audio connection.	9
Unresponsive or inoperable function No response when any buttons are pressed. • This unit cannot play discs other than the ones listed in these operating instructions. • 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. • Check that the batteries are installed correctly. • The batteries are depleted. Replace them with new ones. • Aim the remote control at the display and operate. • Check the video or audio connection.	
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control buttons are pressed.• The batteries are depleted. Replace them with new ones. • Aim the remote control at the display and operate.No picture or sound.• Check the video or audio connection.	-
No picture or sound. • Check the video or audio connection.	8
	5, 6,
 Check the power or input setting of the connected equipment. Check that the disc has something recorded on it. 	24 — —
You have forgotten your ratings password. Reset all the settings to Factory Preset. • While stopped and "DVD/CD" is the source, press and hold [■] on the main unit and [≧10] on the remote control until "Initialised" disappears from the television. Turn the unit off and on again All settings will return to the default values.	. –
Specific operation undesirable or unexpected	
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. This is normal. This is normal on DivX video. 	
Folders deeper than the eighth layer on a data disc are not displayed correctly. •Folders deeper than the eighth layer are displayed as the eighth layer. JPEG IMPEG4 DivX	-
A menu screen appears during skip or search. VCD	-
Playback control menu doesn't appear. VCD with playback control ● Press [■] twice and then press [▶] (play).	-
The program and random play functions do not work. • These functions do not work with some DVD-Videos. Program and items are not. • Come items are not.	-
Programmed items are not played. DVD-V	_
The on-screen menu shows "2" • Even if a second soundtrack isn't recorded, two numbers will normally be shown. as a soundtrack option when [SHIFT]+[AUDIO] is pressed, but the audio does not change. DVD-A	
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) DivX • If a disc contains CD-DA and other formats, proper playback may not be possible.	=
Play restarts from the beginning of the track when soundtrack is changed. DVD-A This is normal on DVD-Audio. Interview Interview	-
Scenes are skipped • If you change the volume or sound field/quality setting during ADVANCED DISC REVIEW, the function continues without the on-screen display. Press [ADVANCED DISC REVIEW] again to cancel the function.	12
Subtitle	_
Subtitle position is wrong. • Adjust the position. ("Subtitle Position" in Display Menu)	17
No subtitles. • Display the subtitles. • Subtitles may not be displayed depending on the disc. DivX	13
Marker	
Cannot add markers. • You cannot add markers. RAM DVD-RW (VR) • If the disc's elapsed play time doesn't appear on the unit's display, you cannot add markers.	_
A-B Repeat Point B is automatically set. • The end of an item becomes point B when it is reached.	
A-B Repeat is automatically canceled. • A-B Repeat is canceled when you press [QUICK REPLAY].	_
Sound abnormal or improper	-
Sound distorted. • Noise may occur when playing WMA.	-
 Effects do not work. Some audio effects do not work or have less effect with some discs. Dolby Pro Logic II does not work if you have changed the play speed. 	=
Humming is heard during play. • An AC mains lead or fluorescent light is near the cables. Keep other appliances and cords away from this unit's cables.	-
No sound • There may be a pause in sound when you change the play speed. • Audio may not be output due to how files were created. DivX	 15
Sound mixed. • If you are using the SCART (AV) terminal and the audio input terminals (TV AUDIO IN) at the same time, turn off the connected equipment at one or the other terminals.	—
Menus	
The Setup menu cannot be accessed. • Select "DVD/CD" as the source. • Cancel all group, program and random play.	— 13

Picture distorted.	• Ensure that the unit is connected directly to the television, and is not connected through a video	6
	cassette recorder. • Change "Source Select" in Picture Menu. DivX	17
Picture size doesn't fit the		
screen.	 Change "TV Aspect" in the "Video" tab. Use the television to change the aspect. If your television does not have that function, change "4:3 Aspect" in Display Menu. 	18 17
	Change the Zoom setting.	12
Picture stops. DivX	Picture may stop if the DivX files are greater than 2GB.	—
The television may display incorrectly or colors appear	•The unit and television are using different video systems. Use a multi-system or PAL television.	-
faded.	 The system used on the disc does not 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). 	 19
Menu is not displayed correctly.	 Restore the zoom ratio to "×1.00". Set "Subtitle Position" in Display Menu to "0". Set "4:3 Aspect" in Display Menu to "Normal". 	12 17 17
Auto zoom function does not work well.	 Turn off TV's zoom function. Use the other preset aspect ratios or manual adjustment. Zoom function may not work well, especially in dark scenes and may not work depending on the type of disc. 	12
The picture on the television disappears or stripes appear on the screen.	 Mobile telephone chargers can cause some disturbance. If you are using a TV indoor antenna, change to an outdoor antenna. The television antenna wire is too close to the unit. Separate the antenna wire of the television from the unit. 	=
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 "625i" or "525i". 	17
Pictures not in progressive output.	 Press [SHIFT]+[PROGRESSIVE] so "PRG" is displayed. Or select "625p" or "525p" in "Video Output Mode" in Picture Menu. 	11, 17
- upun	 If the unit is connected to the television through VIDEO OUT, S-VIDEO OUT or SCART (AV) terminal, output will be interlace even if "PRG" is displayed. 	6
istening to the radio		
Noise is heard. "ST" flickers or doesn't light. Sound is distorted.	 Adjust the position of the FM or AM antenna. Use an outdoor antenna. 	21
A beat sound is heard.	• Turn the television off or move it away from the unit.	
A beat sound is neard.		
A low hum is heard during AM	• Senarate the antenna from other cables	_
A low hum is heard during AM broadcasts.	Separate the antenna from other cables.	-
		—
broadcasts.	Separate the antenna from other cables. To use functions labeled in orange, while pressing [SHIFT], press the corresponding button.	-
broadcasts. Television operation Cannot operate the TV. Unit displays	• To use functions labeled in orange, while pressing [SHIFT], press the corresponding button.	-
broadcasts. Television operation Cannot operate the TV. Unit displays The display is dark.	To use functions labeled in orange, while pressing [SHIFT], press the corresponding button. Select "Bright" in "FL Dimmer" in the "Others" tab.	— — 19
broadcasts. Television operation Cannot operate the TV. Jnit displays The display is dark. "NO PLAY"	To use functions labeled in orange, while pressing [SHIFT], press the corresponding button. Select "Bright" in "FL Dimmer" in the "Others" tab. You inserted a disc the unit cannot play; insert one it can. You inserted a blank disc.	
broadcasts. Television operation Cannot operate the TV. Jnit displays The display is dark. "NO PLAY" "NO DISC"	 To use functions labeled in orange, while pressing [SHIFT], press the corresponding button. Select "Bright" in "FL Dimmer" in the "Others" tab. You inserted a disc the unit cannot play; insert one it can. You inserted a blank disc. You haven't inserted a disc; insert one. You haven't inserted the disc correctly; insert it correctly. 	9 10
broadcasts. elevision operation Cannot operate the TV. Init displays The display is dark. "NO PLAY" "NO DISC" "F61"	 To use functions labeled in orange, while pressing [SHIFT], press the corresponding button. Select "Bright" in "FL Dimmer" in the "Others" tab. You inserted a disc the unit cannot play; insert one it can. You inserted a blank disc. You haven't inserted a disc; insert one. You haven't inserted the disc correctly; insert it correctly. Check and correct the speaker cord connections. If this does not fix the problem, there is a power supply problem. Consult the dealer. 	9 — 10 5
broadcasts. elevision operation Cannot operate the TV. Jnit displays The display is dark. "NO PLAY" "NO DISC" "F61" "DVD U11"	 To use functions labeled in orange, while pressing [SHIFT], press the corresponding button. Select "Bright" in "FL Dimmer" in the "Others" tab. You inserted a disc the unit cannot play; insert one it can. You inserted a blank disc. You haven't inserted a disc; insert one. You haven't inserted the disc correctly; insert it correctly. Check and correct the speaker cord connections. If this does not fix the problem, there is a power supply problem. Consult the dealer. Disc may be dirty. Wipe it clean. 	9 10
broadcasts. elevision operation Cannot operate the TV. Jnit displays The display is dark. "NO PLAY" "NO DISC" "F61" "DVD U11" "ERROR"	 To use functions labeled in orange, while pressing [SHIFT], press the corresponding button. Select "Bright" in "FL Dimmer" in the "Others" tab. You inserted a disc the unit cannot play; insert one it can. You inserted a blank disc. You haven't inserted a disc; insert one. You haven't inserted the disc correctly; insert it correctly. Check and correct the speaker cord connections. If this does not fix the problem, there is a power supply problem. Consult the dealer. Disc may be dirty. Wipe it clean. Incorrect operation performed. Read the instructions and try again. 	9 — 10 5
broadcasts. elevision operation Cannot operate the TV. Init displays The display is dark. "NO PLAY" "NO DISC" "F61" "DVD U11" "ERROR" "DVD H□□"	 To use functions labeled in orange, while pressing [SHIFT], press the corresponding button. Select "Bright" in "FL Dimmer" in the "Others" tab. You inserted a disc the unit cannot play; insert one it can. You inserted a blank disc. You haven't inserted a disc; insert one. You haven't inserted the disc correctly; insert it correctly. Check and correct the speaker cord connections. If this does not fix the problem, there is a power supply problem. Consult the dealer. Disc may be dirty. Wipe it clean. 	9 — 10 5
broadcasts. elevision operation Cannot operate the TV. Init displays The display is dark. "NO PLAY" "NO DISC" "F61" "DVD U11" "ERROR" "DVD H□" □ stands for a number. elevision displays	 To use functions labeled in orange, while pressing [SHIFT], press the corresponding button. Select "Bright" in "FL Dimmer" in the "Others" tab. You inserted a disc the unit cannot play; insert one it can. You inserted a blank disc. You haven't inserted a disc; insert one. You haven't inserted the disc correctly; insert it correctly. Check and correct the speaker cord connections. If this does not fix the problem, there is a power supply problem. Consult the dealer. Disc may be dirty. Wipe it clean. Incorrect operation performed. Read the instructions and try again. 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 	9 — 10 5
broadcasts. elevision operation Cannot operate the TV. Init displays The display is dark. "NO PLAY" "NO DISC" "F61" "DVD U11" "ERROR" "DVD H==""" of a number. Elevision displays	 To use functions labeled in orange, while pressing [SHIFT], press the corresponding button. Select "Bright" in "FL Dimmer" in the "Others" tab. You inserted a disc the unit cannot play; insert one it can. You inserted a blank disc. You haven't inserted a disc; insert one. You haven't inserted the disc correctly; insert it correctly. Check and correct the speaker cord connections. If this does not fix the problem, there is a power supply problem. Consult the dealer. Disc may be dirty. Wipe it clean. Incorrect operation performed. Read the instructions and try again. 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 	9 — 10 5
broadcasts. elevision operation Cannot operate the TV. Jnit displays The display is dark. "NO PLAY" "NO DISC" "F61" "DVD U11" "ERROR" "DVD U11" "ERROR" "DVD H==""" elevision displays "©" "Cannot play group xx, content xx"	 To use functions labeled in orange, while pressing [SHIFT], press the corresponding button. Select "Bright" in "FL Dimmer" in the "Others" tab. You inserted a disc the unit cannot play; insert one it can. You inserted a blank disc. You haven't inserted a disc; insert one. You haven't inserted the disc correctly; insert it correctly. Check and correct the speaker cord connections. If this does not fix the problem, there is a power supply problem. Consult the dealer. Disc may be dirty. Wipe it clean. Incorrect operation performed. Read the instructions and try again. 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. 	9 — 10 5
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broadcasts. elevision operation Cannot operate the TV. Init displays The display is dark. "NO PLAY" "NO DISC" "F61" "DVD U11" "ERROR" "DVD U11" "ERROR" "DVD H=" = stands for a number. elevision displays "O" "Cannot play group xx, content xx" "Cannot display group xx, content xx" "Cannot play audio" "No audio" "Check the disc" "This disc may not be played in	 To use functions labeled in orange, while pressing [SHIFT], press the corresponding button. Select "Bright" in "FL Dimmer" in the "Others" tab. You inserted a disc the unit cannot play; insert one it can. You haven't inserted the disc. You haven't inserted the disc correctly; insert it correctly. Check and correct the speaker cord connections. If this does not fix the problem, there is a power supply problem. Consult the dealer. Disc may be dirty. Wipe it clean. Incorrect operation performed. Read the instructions and try again. 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. The operation is prohibited by the unit or disc. You are trying to play a protected group or content. You cannot play it. Audio has not been recorded, or recorded in a format this unit cannot playback. Video playback only is possible. This disc may be dirty. 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 	9
broadcasts. elevision operation Cannot operate the TV. Unit displays The display is dark. "NO PLAY" "NO DISC" "F61" "DVD U11" "ERROR" "DVD H=" DVD H=" elevision displays "O" Cannot play group xx, content xx" "Cannot display group xx, content xx" "Cannot display group xx, content xx" "Cannot display group xx, content xx" "Cannot display group xx, content xx" "Content xx" "Group xx, content xx is protected" "Cannot play audio" "No audio" "Check the disc" "This disc may not be played in your region"	 To use functions labeled in orange, while pressing [SHIFT], press the corresponding button. Select "Bright" in "FL Dimmer" in the "Others" tab. You inserted a disc the unit cannot play; insert one it can. You haven't inserted the disc. You haven't inserted the disc correctly; insert it correctly. Check and correct the speaker cord connections. If this does not fix the problem, there is a power supply problem. Consult the dealer. Disc may be dirty. Wipe it clean. Incorrect operation performed. Read the instructions and try again. 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. The operation is prohibited by the unit or disc. You are trying to play a protected group or content. You cannot play it. Audio has not been recorded, or recorded in a format this unit cannot playback. Video playback only is possible. This disc may be dirty. You can only play DVD-Video if their region number is the same or includes the same region number of the DVD-Video is marked "ALL". Confirm the region number for the unit or the number for the unit or if the problem. 	9
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SUOMI

VAROITUS!

LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

VAROITUS:

TULIPALO-, SÄHKÖISKUVAARAN TAI TUOTETTA KOHTAAVAN MUUN VAHINGON VÄHENTÄMISEKSI EI LAITETTA SAA ALTISTAA SATEELLE, KOSTEUDELLE, VESIPISAROILLE TAI ROISKEELLE, EIKÄ NESTETTÄ SISÄLTÄVIÄ ESINEITÄ, KUTEN ESIMERKIKSI MALJAKOITA, SAA ASETTAA LAITTEEN PÄÄLLE.

VAROITUS!

- •ÄLÄ ASENNA TAI LAITA TÄTÄ LAITETTA KABINETTITYYPPISEEN KIRJAKAAPPIIN TAI MUUHUN SULJETTUUN TILAAN, JOTTA TUULETUS ONNISTUISI. VARMISTA, ETTÄ VERHO TAI MIKÄÄN MUU MATERIAALI EI HUONONNA TUULETUSTA, JOTTA VÄLTETTÄISIIN YLIKUUMENEMISESTA JOHTUVA SÄHKÖISKU- TAI TULIPALOVAARA.
- ÄLÄ PEITÄ LAITTEEN TUULETUSAUKKOJA SANOMALEHDELLÄ, PÖYTÄLIINALLA, VERHOLLA TAI MUULLA VASTAAVALLA ESINEELLÄ.
- ÄLÄ ASETA PALAVAA KYNTTILÄÄ TAI MUUTA AVOTULEN LÄHDETTÄ LAITTEEN PÄÄLLE.
- •HÄVITÄ PARISTOT LUONTOA VAHINGOITTAMATTOMALLA TAVALLA.

TÄMÄ LAITE ON TARKOITETTU KÄYTETTÄVÄKSI LEUDOSSA ILMASTOSSA.

Laite tulee asettaa lähelle verkkopistorasiaa ja pistokkeen täytyy olla sellaisessa asennossa, että siihen on helppo tarttua ongelman sattuessa.

NORSK

ADVARSEL!

DETTE PRODUKTET ANVENDER EN LASER. BETJENING AV KONTROLLER, JUSTERINGER ELLER ANDRE INNGREP ENN DE SOM ER BESKREVET I DENNE BRUKSANVISNING, KAN FØRE TIL FARLIG BESTRÅLING. DEKSLER MÅ IKKE ÅPNES, OG FORSØK ALDRI Å REPARER APPARATET PÅ EGENHÅND. ALT SERVICE OG REPARASJONSARBEID MÅ UTFØRES AV KVALIFISERT PERSONELL.

ADVARSEL:

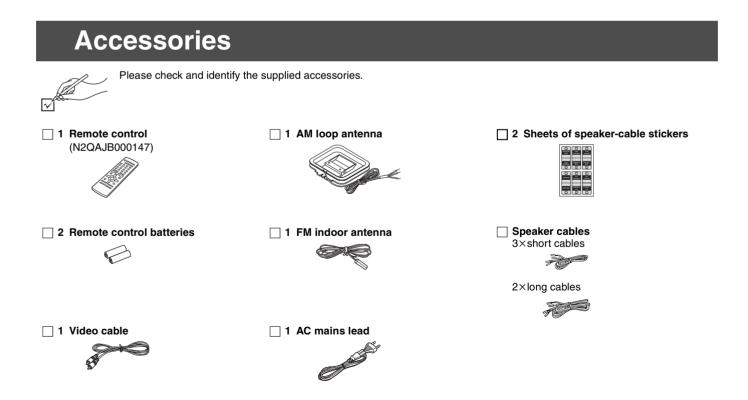
FOR Å REDUSERE FAREN FOR BRANN, ELEKTRISK STØT ELLER SKADER PÅ PRODUKTET, MÅ DETTE APPARATET IKKE UTSETTES FOR REGN, FUKTIGHET, VANNDRÅPER ELLER VANNSPRUT. DET MÅ HELLER IKKE PLASSERES GJENSTANDER FYLT MED VANN, SLIK SOM BLOMSTERVASER, OPPÅ APPARATET.

ADVARSEL!

- APPARATET MÅ IKKE PLASSERES I EN BOKHYLLE, ET INNEBYGGET KABINETT ELLER ET ANNET LUKKET STED HVOR VENTILASJONSFORHOLDENE ER UTILSTREKKELIGE. SØRG FOR AT GARDINER ELLER LIGNENDE IKKE FORVERRER VENTILASJONSFORHOLDENE, SÅ RISIKO FOR ELEKTRISK SJOKK ELLER BRANN FORÅRSAKET AV OVERHETING UNNGÅS.
- OVERHETING UNNGÅS.
 APPARATETS VENTILASJONSÅPNINGER MÅ IKKE DEKKES TIL MED AVISER, BORDDUKER, GARDINER OG LIGNENDE.
- •PLASSER IKKE ÅPEN ILD, SLIK SOM LEVENDE LYS, OPPÅ APPARATET.
- •BRUKTE BATTERIER MÅ KASSERES UTEN FARE FOR MILJØET.

DETTE APPARATET ER BEREGNET TIL BRUK UNDER MODERATE KLIMAFORHOLD.

Utstyret bør plasseres i nærheten av AC-stikkontakten, og støpslet må være lett tilgjengelig hvis det skulle oppstå problemer.



Matsushita Electric Industrial Co., Ltd. Web Site: http://www.panasonic.co.jp/global/ (En)