

Operations Guide

Panasonic®

Operating Instructions DVD Stereo System

Model No. **SC-NC9**
SC-NC6



Before connecting, operating or adjusting this product, please read these instructions completely. SC-NC9 is used in the illustrations unless otherwise indicated. Please keep this manual for future reference. Your unit may not look exactly the same as illustrated.

Note

“EB” on the packaging indicates the United Kingdom.

Region number

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

Example:



High-quality picture **10**

HDMI capability[#], Advanced progressive scan and more

High-performance sound effects **34**

Sound quality enhancement, Bi-Amp TS[#]

USB plug-and-play **40**

Using USB playback function

[#]Only available for SC-NC9.



Dear customer

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

SC-NC9 : indicates features applicable to SC-NC9 only

SC-NC6 : SC-NC6 only

- Operations in these instructions are described mainly for the remote control, but you can do the operations on this unit if the controls are the same

System	SC-NC9	SC-NC6
This unit	SA-NC9 (1 unit)	SA-NC6 (1 unit)
Front speakers	SB-PF9 (2 units)	SB-PF6 (2 units)
Center speaker	SB-PC9 (1 unit)	—
Surround speakers	SB-PS9 (2 units)	—
Subwoofer	SB-WNC9 (1 unit)	SB-WNC9 (1 unit)

Caution for AC Mains Lead

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

For your safety, please read the following text carefully.
This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark  or the BSI mark  on the body of the fuse.
If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

CAUTION!

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

If a new plug is to be fitted please observe the wiring code as stated below.

If in any doubt please consult a qualified electrician.

IMPORTANT

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

Blue: Neutral, Brown: Live.

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

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

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

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

THIS PLUG IS NOT WATERPROOF - KEEP DRY.

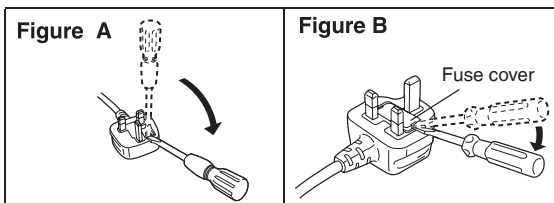
Before use

Remove the connector cover.

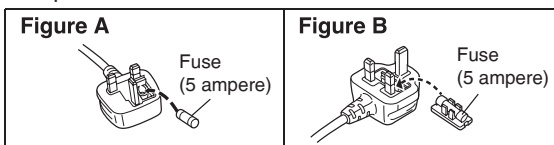
How to replace the fuse

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

1. Open the fuse cover with a screwdriver.



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



Safety precautions

Placement

Set the unit up on an even surface away from direct sunlight, high temperature, high humidity, and excessive vibration. These conditions can damage the cabinet and other components, thereby shortening the unit's service life.

Do not place heavy items on the unit.

Voltage

Do not use high voltage power sources. This can overload the unit and cause a fire.

Do not use a DC power source. Check the source carefully when setting the unit up on a ship or other place where DC is used.

AC mains lead protection

Ensure the AC mains lead is connected correctly and not damaged. Poor connection and lead damage can cause fire or electric shock. Do not pull, bend, or place heavy items on the lead.

Grasp the plug firmly when unplugging the lead. Pulling the AC mains lead can cause electric shock.

Do not handle the plug with wet hands. This can cause electric shock.

Foreign matter

Do not let metal objects fall inside the unit. This can cause electric shock or malfunction.

Do not let liquids get into the unit. This can cause electric shock or malfunction. If this occurs, immediately disconnect the unit from the power supply and contact your dealer.

Do not spray insecticides onto or into the unit. They contain flammable gases which can ignite if sprayed into the unit.

Service

Do not attempt to repair this unit by yourself. If sound is interrupted, indicators fail to light, smoke appears, or any other problem that is not covered in these instructions occurs, disconnect the AC mains lead and contact your dealer or an authorized service center. Electric shock or damage to the unit can occur if the unit is repaired, disassembled or reconstructed by unqualified persons. Extend operating life by disconnecting the unit from the power source if it is not to be used for a long time.

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Accessories



Please check and identify the supplied accessories.



☐ **1 Remote control** [⇒ page 11]

SC-NC9 (N2QAYB000111)

SC-NC6 (N2QAYB000112)



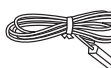
☐ **2 Batteries** [⇒ page 11]



☐ **1 AC mains lead** [⇒ page 9]
(K2CT3CA00004)



☐ **1 AM loop antenna** [⇒ page 9]
(N1DAAAA00001)



☐ **1 FM indoor antenna** [⇒ page 9]
(RSA0007-L)



☐ **1 Video cable** [⇒ page 9]
(K2KA2CA00011)



☐ **Speaker cable** [⇒ page 8]

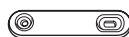
- Front (2 x 1.5 m)
- Subwoofer (1 x 2.5 m)

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- Center (1 x 2 m)
- Surround (2 x 7 m)



☐ **1 Speaker cable sticker** [⇒ page 8]
(RQCXA0013-1)



☐ **6 Metal brackets** [⇒ page 7]
(RMQX0267-K)



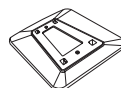
☐ **12 Short screws** (M4 x 8 mm)
(RHDH40009-K) [⇒ page 7]



☐ **4 Long screws** (M4 x 12 mm)
(RHDH40008-K) [⇒ page 7]



☐ **6 Side lock covers** [⇒ page 7]
(RMVX0113-K)



☐ **2 Base stands** [⇒ page 7]
(RKQX0049-K)



☐ **1 Allen key** [⇒ page 7]

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

■ Sales and Support Information

Customer Care Centre

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

Direct Sales at Panasonic UK

- Order accessory and consumable items for your product with ease and confidence by phoning our Customer Care Centre Monday-Friday 9:00am-5:30pm. (Excluding public holidays)
- Or go on line through our Internet Accessory ordering application at www.panasonic.co.uk

- Most major credit and debit cards accepted.
- All enquiries transactions and distribution facilities are provided directly by Panasonic UK Ltd.
- It couldn't be simpler!
- Also available through our Internet is direct shopping for a wide range of finished products, take a browse on our website for further details.

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

Tray/disc handling caution

Adhere to the following to avoid problems.

Tray caution



- Always press [▲, DISC OPEN/CLOSE] to insert or remove a disc.
- Do not push or pull out the tray by hand as this will damage the unit.

Removing the power plug

- Press [⏻] to turn off the unit and remove the power plug only after all the displays have disappeared.

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 hard 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.

Cleaning discs

DVD-V VCD CD

Wipe with a damp cloth and then wipe dry.



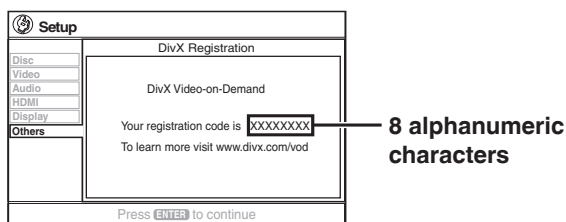
About DivX VOD content

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

(⇒ "DivX Registration" in "Others" tab, page 29)



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

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

- Some DivX VOD content can only be played a set number of times. When you play this content, the remaining number of plays is displayed. You cannot play this content when the number of remaining plays is zero. ("Rented Movie Expired" or "Rental Expired" is displayed.)

When playing this content

- The number of remaining plays is reduced by one if
 - you turn off the unit or press [–SETUP].
 - you press [■]. (Press [II] to pause play.)
 - you press [◀◀, ▶▶] or [◀, ▶] etc. and arrive at another content or the start of the content being played.

- Resume (⇒ Stop, page 17) function does not work.

Simple setup

STEP 1 Positioning the speakers

Positioning for best effect

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

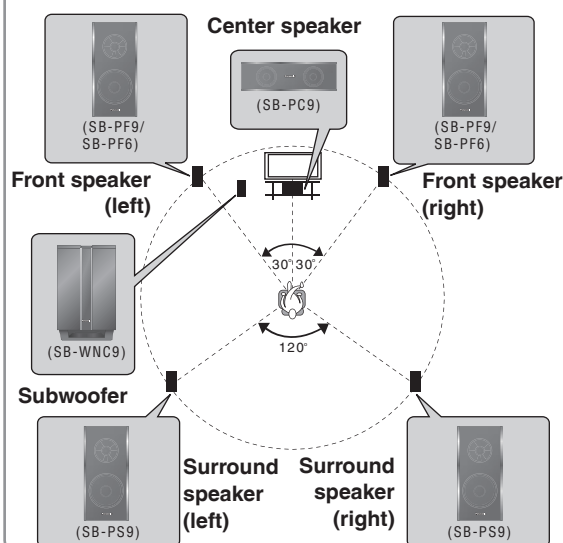
- Place speakers on flat secure bases.
- Placing speakers too close to floors, walls, and corners can result in excessive bass. Cover walls and windows with a thick curtain.
- Keep your speakers at least 10 mm away from the system for proper ventilation.
- The angles in the diagrams are approximate.
- Left and right speakers are interchangeable, but front and surround speakers are not.

Use only the 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.

Step 1: Positioning the speakers

Place the front, center, and surround speakers at approximately the same distance from the seating position.



Front speakers

Speakers are designed identically so that no left or right channel orientation is necessary.

Subwoofer

Place on either side of the television, on the floor or a sturdy shelf to reduce vibration. Leave about 30 cm from the television.

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Center speaker

Do not place the center speaker directly on the television as vibration may cause it to fall or disrupt the picture. Place it on a rack or shelf.

SC-NC9

Surround speakers

Place on the side of or slightly behind the seating area.

Note

- 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 emit strange noises (howling) from a record player, noise from FM broadcasts, or continuous signals from an oscillator, test disc, or electronic instrument.
 - When adjusting the sound quality.
 - When turning the unit on or off.

Caution

Do not touch the front netted area of the speakers. Hold by the sides. Example: Center speaker



If irregular colouring occurs on your television

The front and center 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 further away from the television.

Caution

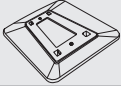
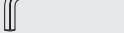
- Use the speakers only with the recommended system. Failure to do so can damage this unit and speakers, and can cause fire. Consult a qualified service person if damage occurs or if a sudden change in performance is apparent.
- Do not attempt to attach these speakers to walls using methods other than those described in this manual.

Speaker installation options

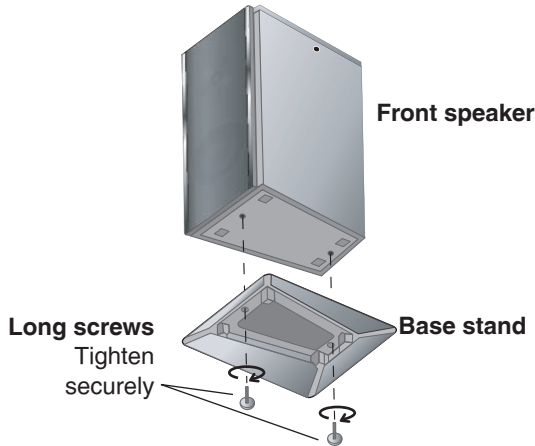
SC-NC9

■ Assembling the speakers for Bi-Amp TS mode

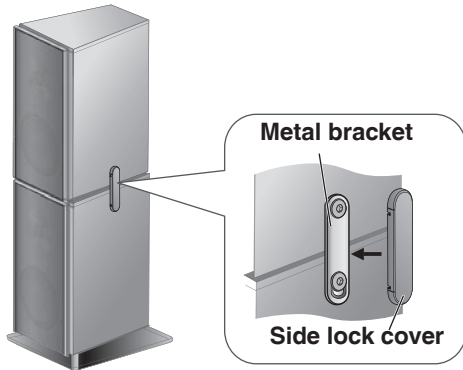
To enjoy better sound quality in Bi-Amp TS mode (➔ page 34, Refining the sound quality: Fi Mode), stack the surround speakers on the front speakers.

Supplied accessories	2 Base stands	6 Metal brackets	12 Short screws	4 Long screws	6 Side lock cover	1 Allen key
						

1 Attach the base stands to the front speakers.

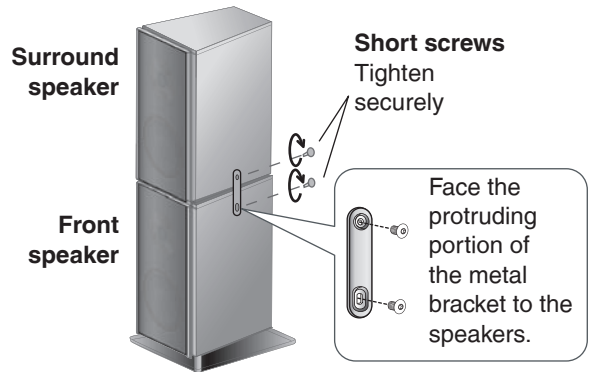


4 Push and click the side lock cover to the fastened metal bracket.



2 Place the surround speakers on the front speakers.

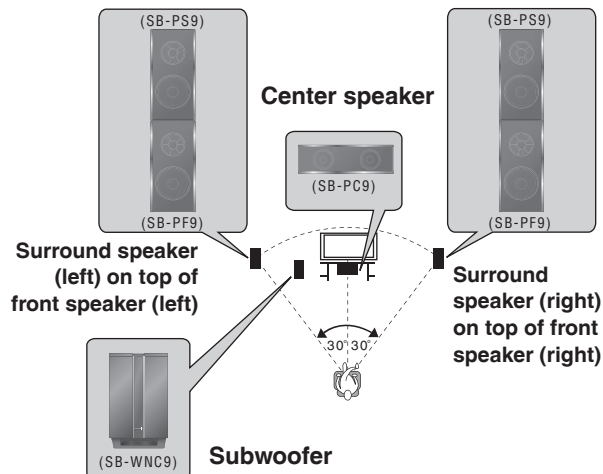
3 Fasten the metal bracket with the screws at the right, left and back of the speakers.



Note

If you play 5.1 channel sources in this stack up assembly, use Bi-Amp TS mode to enjoy better sound effect.

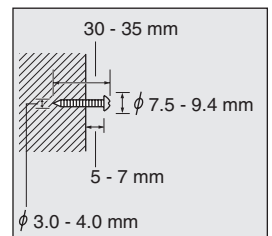
■ Positioning the speakers for Bi-Amp TS mode



■ Attaching to a wall

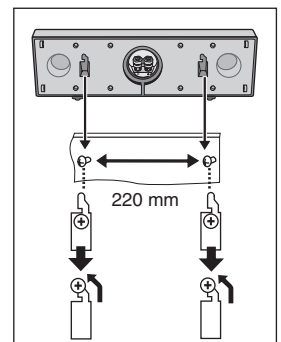
You can attach the center speakers to a wall.

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



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

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



STEP 2 Connecting the speakers

Supplied accessories

Speaker cables

- Front (2 x 1.5 m)
- Subwoofer (1 x 2.5 m)

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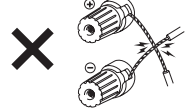
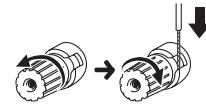
- Center (1 x 2 m)
- Surround (2 x 7 m)



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1 Speaker cable sticker

- Attach the speaker cable stickers to make connection easier

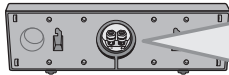


Note

Be careful not to cross (short-circuit) or reverse the polarity of the speaker wires as doing so may damage the speakers.



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⑤ CENTER

Insert the wire fully.
+: Red
-: Black

Speaker cable sticker

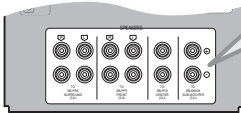
① FRONT (L)

② FRONT (R)

③ SURROUND (L)

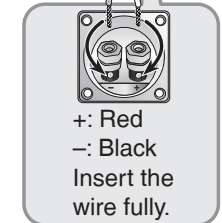
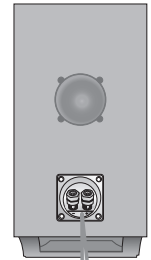
④ SURROUND (R)

This unit



Insert the wire fully.
+: Red
-: Black

⑥ SUBWOOFER



SC-NC6

① FRONT (L)

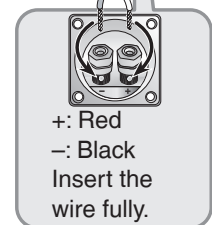
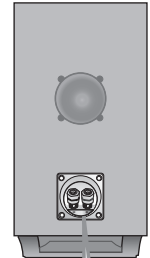
② FRONT (R)

This unit



Insert the wire fully.
+: Red
-: Black

③ SUBWOOFER



STEP 3

Television, antenna and AC mains lead connections



- Connect the AC mains lead after all other connections are complete.

Conserving power

The unit consumes a small amount of power (approx. 0.9 W) even when it is in standby mode. 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.

■ AM loop antenna

Stand the antenna up on its base.

Place the antenna where reception is the best.

Keep loose antenna cord away from other wires and cords.

■ FM indoor antenna

Affix this end of the antenna where reception is best.

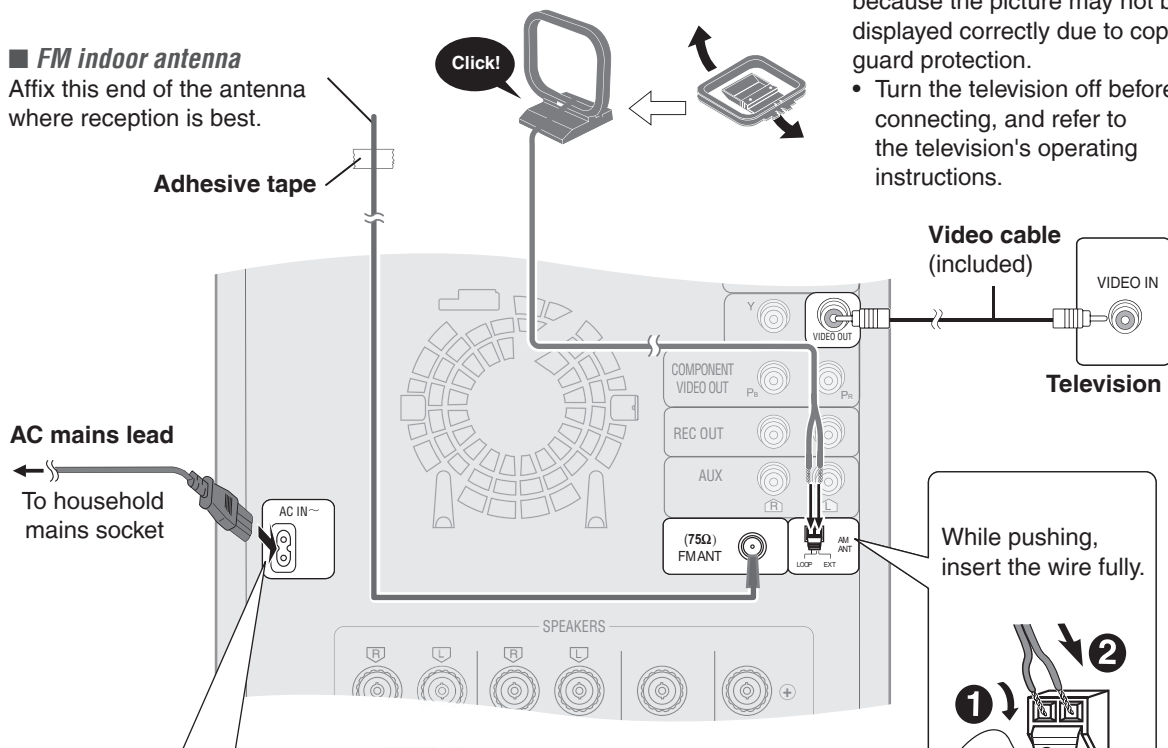
Adhesive tape

Click!

■ VIDEO OUT terminal

Do not connect the unit through a video cassette recorder, because the picture may not be displayed correctly due to copy guard protection.

- Turn the television off before connecting, and refer to the television's operating instructions.



BE SURE TO READ THE CAUTION FOR AC MAINS LEAD ON PAGE 2 BEFORE CONNECTION.

Insertion of connector

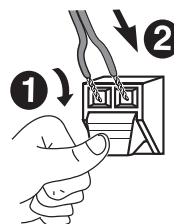
Even when the connector is perfectly inserted, depending on the type of inlet used, the front part of the connector may jut out as shown in the drawing. However there is no problem using the unit.

Appliance inlet

Connector

Approx. 3.5 mm

While pushing, insert the wire fully.

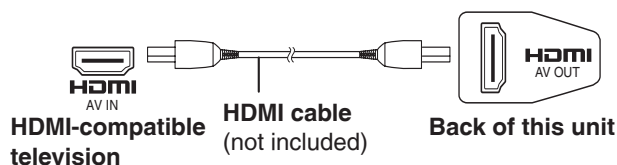


Other television connections

- Do not connect the unit through a video cassette recorder, because the picture may not be displayed correctly due to copy guard protection.
- Turn the television off before connecting, and refer to the television's operating instructions.

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■ Connecting a television with HDMI terminal



Use the HDMI connection to enjoy higher quality audio and video with a single cable (⇒ Glossary, HDMI, page 41).

- Do not use the SCART cable when you use the HDMI cable for the connection.
- When HDMI cable is connected, there will be no video output from SCART and component video out terminal of this unit.
- Set "Video Mode" to "On" and "Audio Output" to "On" (⇒ "HDMI" tab, page 29).
- Set "Video Output Mode" (⇒ Picture Menu, page 24).

Note

- It is recommended that you use Panasonic's HDMI cable.

[Recommended part number: RP-CDHG15 (1.5 m), RP-CDHG30 (3.0 m), RP-CDHG50 (5.0 m), etc.]

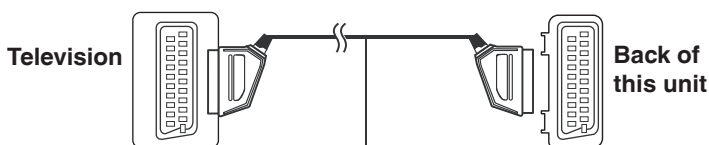
- Non-HDMI-compliant cables cannot be utilized.

Using the VIERA Link "HDAVI Control™"

If your Panasonic television is an HDMI control compatible television, you can operate your television synchronizing with home-theatre operations or vice versa (⇒ Using the VIERA Link "HDAVI Control™", page 37).

- Make the audio connection (⇒ page 38) when you use "HDAVI Control" function.

■ Connecting a television with SCART (AV) terminal



Scart cable (not included)

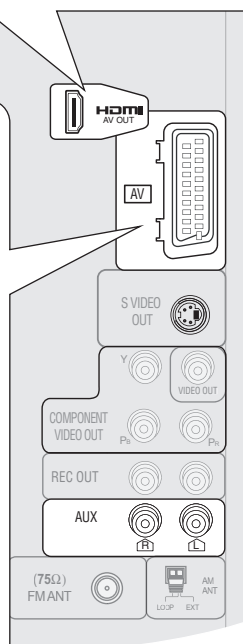
- To listen to the sound from the television, select the appropriate audio out (example: Monitor) on the television.

Sound from the television

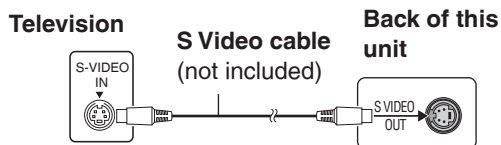
- Press [EXT-IN] (⇒ page 39) to select the "AV" audio input.

To improve picture quality, you can change the video signal output from the SCART (AV) terminal from "RGB" to either "S-Video" or "Video" to suit the type of television you are using.

- Select "S-Video/YPbPr" or "Video/YPbPr" from QUICK SETUP (⇒ page 12).
- Set "Video Mode" to "Off" (⇒ HDMI tab, page 29).
- This connection will also enable you to play audio from your television through your stereo system (⇒ Using other equipment, page 39).
- Do not use the HDMI cable when you use the scart cable for the connection.

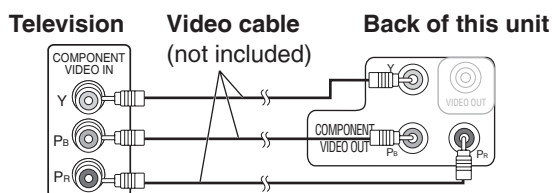


■ Using an S VIDEO OUT terminal



The S VIDEO 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.)

■ Using a COMPONENT VIDEO OUT terminal

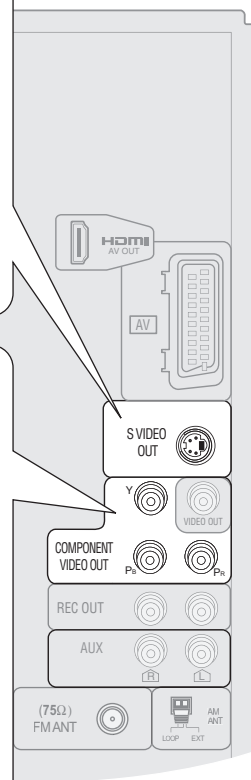


The COMPONENT VIDEO OUT terminals can be used for either interlace or progressive output and provide a purer picture than the S VIDEO OUT terminal. Connection using these terminals outputs the colour difference signals (P_B/P_R) and luminance signal (Y) separately in order to achieve high fidelity in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

- 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 colour.

To enjoy progressive video

- Connect to a progressive output compatible television.
- Set "Video Mode" to "Off" (⇒ "HDMI" tab, page 29)
- Set "Video Output Mode" to "480p" or "576p", and then follow the instructions on the menu screen (⇒ Picture Menu, page 24).



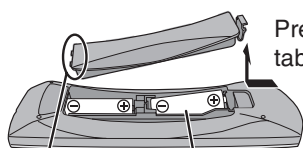
Step 3: Television, antenna and AC mains lead connections /
Step 4: The remote control

STEP 4 The remote control

Remote control



Batteries



Press on the tab to open

R6/LR6, AA

Insert this side first when closing

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

■ Do not:

- mix old and new batteries.
- use different types at the same time.
- heat or expose to flame.
- take apart or short circuit.
- attempt to recharge alkaline or manganese batteries.
- use batteries if the covering has been peeled off.

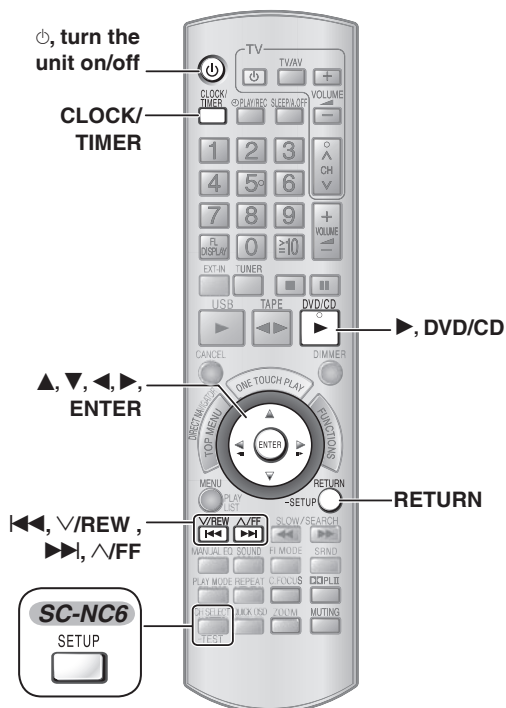
Mishandling of batteries can cause electrolyte leakage which can severely damage the remote control.

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

■ Use

Aim at the remote control sensor (⇒ page 14), avoiding obstacles, at a maximum range of 7 m directly in front of the unit.

STEP 5 QUICK SETUP



Turn on the television and select the appropriate video input on the television to suit the connection for the unit.

1 Power ON.	2 Select "DVD/CD".	3 (Press and hold) Display the QUICK SETUP screen.
4 Select the option from the screen.	5 Press to finish QUICK SETUP.	6 Press to exit.

Details of settings

Menu Language Choose the language for these menus and the on-screen messages.	- English - Italiano - Français - Nederlands - Español - Svenska - Deutsch - Polski
TV Type Select to suit the type of television.	- Standard (Direct View TV) - CRT Projector - Projection TV - LCD TV/Projector - Plasma TV
TV Aspect Choose the setting to suit your television and preference.	4:3: Regular aspect television 16:9: Widescreen television
Video Out (AV/Component) Choose the video signal format to be output from the SCART (AV) and Component terminal.	- Video/YPbPr: Video and YPbPr - S-Video/YPbPr: S-Video and YPbPr - RGB/No Output: RGB only

• Boxed items are the factory settings in the above diagram.

STEP 6 Setting the time

1 Press to select "CLOCK".	2 Set the time (press within 6 seconds or so).	3 Press [CLOCK/TIMER] to finish setting the time.
---	--	--

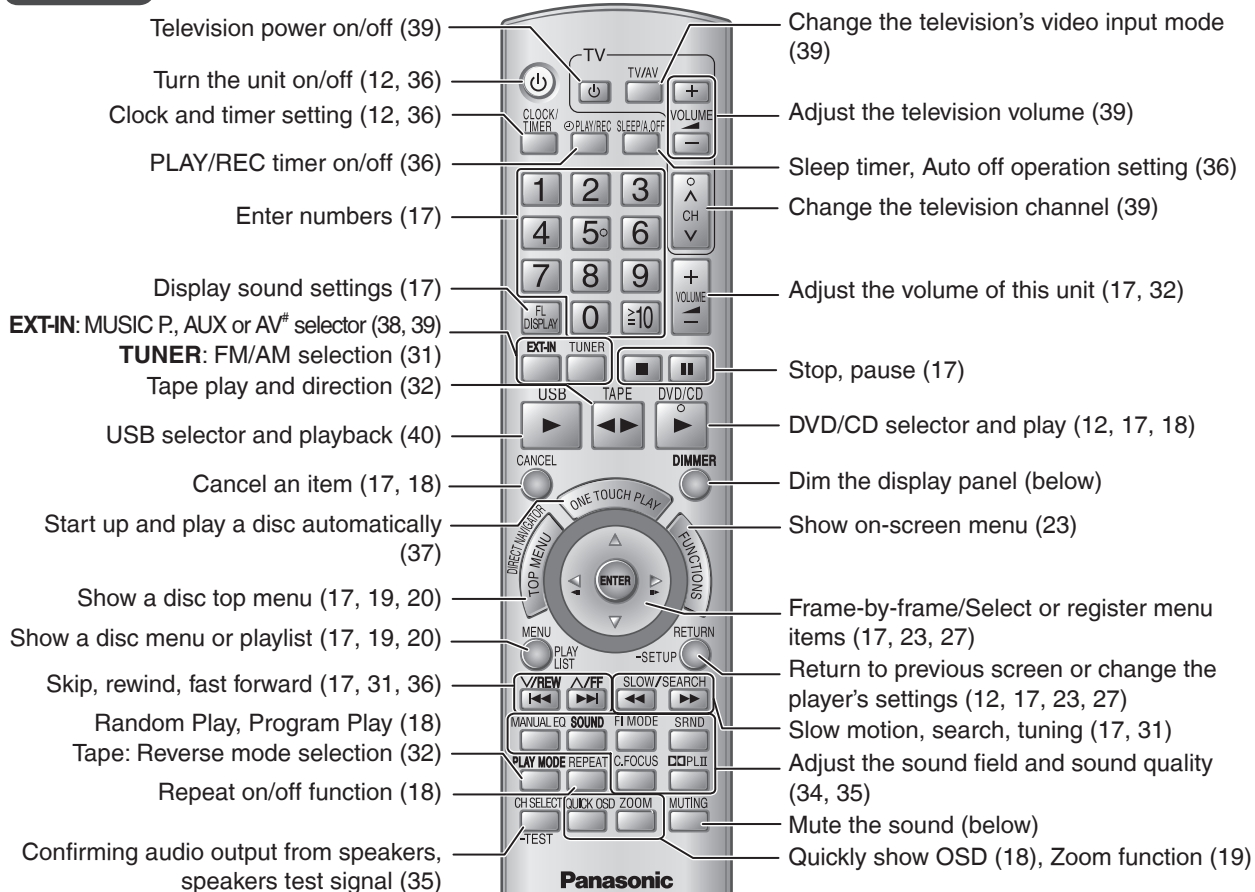
This is a 24-hour clock.

- Press [CLOCK/TIMER] when the unit is on to display the time.
- Reset the clock regularly to maintain accuracy.

Control reference guide

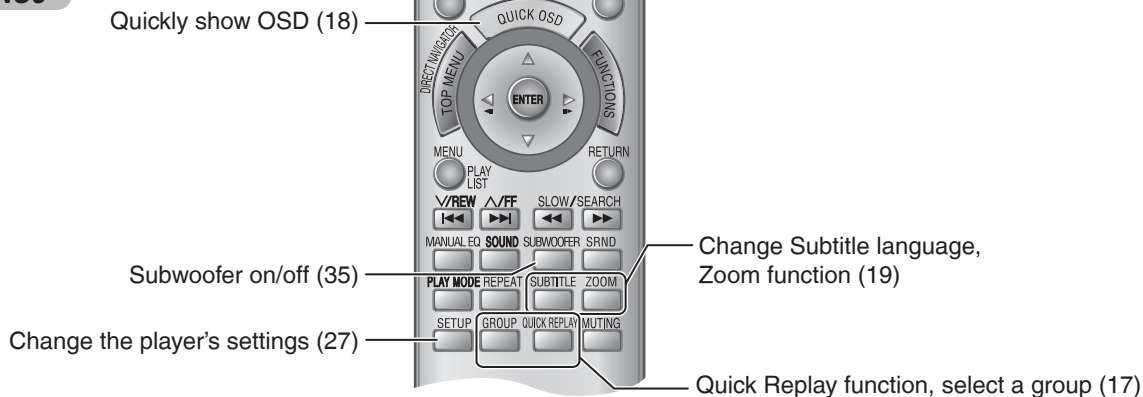
Remote control

SC-NC9



*AV only works when scart cable is connected (→ page 10).

SC-NC6



Dimming the display

To dim the display panel.

Every time you press the button:

On ↔ Off



Muting the volume

To mute the sound.

- To cancel, press the button again or adjust the volume.
- Muting is cancelled when you switch the unit to standby.

Control reference guide

This unit

AC supply indicator (AC IN)

This indicator lights when the unit is connected to the AC mains supply.

Standby/on switch (⏻/⏻)

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

Remote control sensor

EXT-IN: MUSIC P., AUX or AV* (38, 39)

DISPLAY sound setting (17), -DEMO function (below)

●, **RECORD** (33)

▲, **TAPE OPEN** (32)

USB ▶,

USB selector and play (40)

DVD/CD ▶,

DVD/CD selector and play

TAPE ◀▶, Tape Play and direction (32)

TUNER, BAND (31)

Disc tray (5, 16)

▲, ▼, selection button (34)

MANUAL EQ, SOUND

SC-NC9 FI MODE

SC-NC6 SUBWOOFER

Adjust sound field and sound quality (34).

ENTER (17, 34)

▲, **DISC OPEN/CLOSE** (16)

■, **STOP** (17)

◀◀, ▶▶, √/REW, ∧/FF, Skip, rewind, fast forward (17, 31, 36)

VOL -, **VOL +**, Rotate to adjust the volume (16)

Cassette deck (32)

Press down to open the lid

🔌: Connect a USB device (40)

MUSIC P.: Connect a portable audio equipment (38)

Phones: Headphone jack

Reduce the volume level and connect the headphone. Headphone plug type: Ø3.5 mm stereo.

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

*AV only works when scart cable is connected (➡ page 10).

DISPLAY



-DEMO

Press and hold.

■ Demo function

When the unit is first plugged in, a demonstration of its functions may be shown on the display.

If the demo setting is off, you can see a demonstration by turning on the demo.

The display changes each time the button is held down.

DEMO ON ↔ **DEMO OFF**

You can reduce the power consumed in standby mode by turning the demonstration off.

Disc information

Commercial discs

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

Recorded discs (○: Playable, X: Not playable)

Disc	Logo	Recorded on a DVD video recorder, etc.		Recorded on a personal computer, etc.					Finalizing ^{#8}
		DVD-VR ^{#2}	DVD-V ^{#4}	WMA	MP3	JPEG	MPEG4	DivX ^{#7}	
DVD-RAM		○	—	X	○	○	○ ^{#6}	○	Not necessary
DVD-R/RW		○	○	X	○	○	○	○	Necessary
DVD-R DL		○ ^{#3}	(○) ^{#5}	X	X	X	X	X	Necessary
+R/+RW	—	X	(○) ^{#5}	X	X	X	X	X	Necessary
+R DL	—	X	(○) ^{#5}	X	X	X	X	X	Necessary
CD-R/RW ^{#1}	—	—	—	○	○	○	○	○	Necessary ^{#9}

- It may not be possible to play all the above-mentioned discs in some cases due to the type of disc, the condition of the recording, the recording method, or how the files were created (➡ page 22, Tips for making data discs).

^{#1} This unit can play CD-R/RW recorded with CD-DA or Video CD format.

WMA MP3 JPEG This unit also plays HighMAT discs.

^{#2} Recorded with devices using Version 1.1 of the Video Recording Format (a unified video recording standard), such as DVD video recorders, DVD video cameras, personal computers, etc.

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

^{#4} Discs recorded on DVD video recorders or DVD video cameras using DVD-Video Format.

^{#5} Recorded using a format different from DVD-Video Format, therefore, some functions cannot be used.

^{#6} 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].

^{#7} Functions added with DivX Ultra are not supported.

^{#8} A process that allows play on compatible equipment. To play a disc that is displayed as “Necessary” on this unit, the disc must first be finalized on the device it was recorded on.

^{#9} Closing the session will also work.

Discs that cannot be played

DVD-RW version 1.0, DVD-Audio, DVD-ROM, CD-ROM, CDV, CD-G, SACD, Photo CD, DVD-RAM that cannot be removed from their cartridges, 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.

Note about using a DualDisc

The digital audio content side of a DualDisc does not meet the technical specifications of the Compact Disc Digital Audio (CD-DA) format so playback may not be possible.

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 (➡ “Video” tab—NTSC Disc Output, page 28).

Discs — Basic play

Using this unit

1 Turn the unit on.

2 Press to open disc tray.

3 Load a disc vertically.

12 cm disc

4 Start play.

- It may take some time for play to start but this is normal.

5 Adjust the volume.

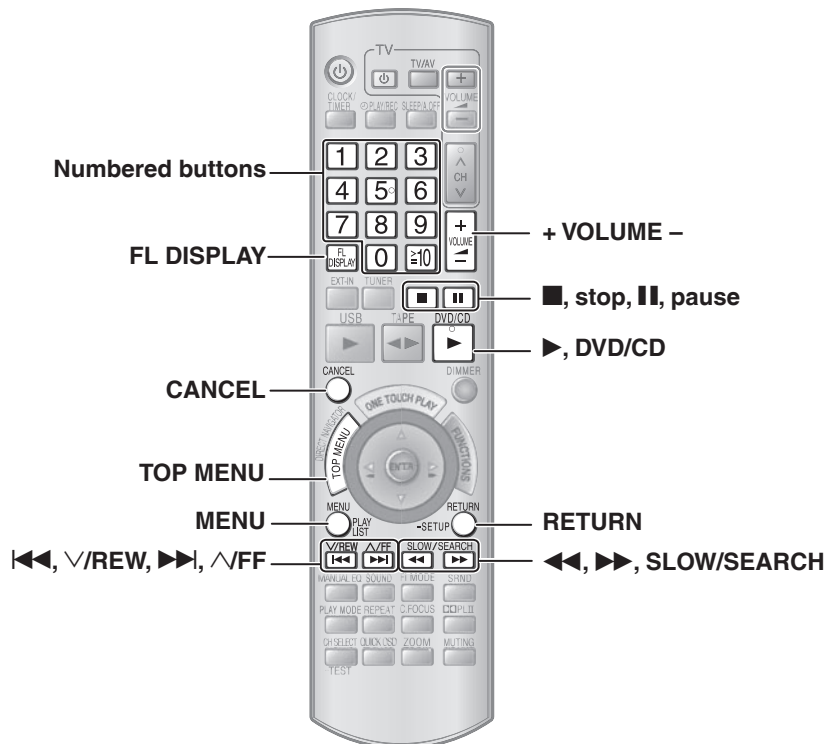
8 cm disc

- For DVD-RAM, remove the disc from its cartridge before use

Note

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

Using the remote control



Using the remote control

Volume adjustment		
Stop		The stopped play position is memorized when "RESUME" is displayed. - Press , DVD/CD] to resume play. - Press  again to clear the position.
Pause		Press , DVD/CD] to continue normal play.
Skip	 or 	WMA MP3 JPEG MPEG4 DivX This feature does not work during program and random play (⇒ page 18).
Search (during play)		- Play speed increases up to 5 steps. - Press , DVD/CD] to continue normal play.
Slow-motion (during pause)	 → 	- Up to 5 steps. - Press , DVD/CD] to continue normal play. VCD Forward direction only. MPEG4 DivX Slow motion does not work.
Frame-by-frame (during pause)	 → 	DVD-V DVD-VR VCD VCD Forward direction only. - Pressing  also activates forward direction. - Press , DVD/CD] to continue normal play.
Skip back a few seconds (during play)	SC-NC6 	This may not work while playing some parts of a disc or at all with some discs (only when the elapsed play time can be displayed).
Return to previous screen		

On-screen item select		Select Confirm																												
Enter number	<table border="1"><tr><td>1</td><td>2</td><td>3</td></tr><tr><td>4</td><td>5</td><td>6</td></tr><tr><td>7</td><td>8</td><td>9</td></tr><tr><td>0</td><td colspan="2">≧10</td></tr></table> 	1	2	3	4	5	6	7	8	9	0	≧10		DVD-V(while stopped) DVD-VR VCD CD Example: To select 12: [≧10] → [1] → [2] VCD with playback control - Press  to cancel the PBC function, then press the numbered buttons. WMA MP3 JPEG MPEG4 DivX Example: To select 123: [1] → [2] → [3] → [ENTER] - Press [CANCEL] to cancel the number(s).																
1	2	3																												
4	5	6																												
7	8	9																												
0	≧10																													
Selecting a group	WMA MP3 JPEG  or SC-NC6 GROUP  → <table border="1"><tr><td>1</td><td>2</td><td>3</td></tr><tr><td>4</td><td>5</td><td>6</td></tr><tr><td>7</td><td>8</td><td>9</td></tr><tr><td>0</td><td colspan="2">≧10</td></tr></table>	1	2	3	4	5	6	7	8	9	0	≧10		Select Confirm																
1	2	3																												
4	5	6																												
7	8	9																												
0	≧10																													
Disc menu	  	DVD-V Shows a disc top menu. DVD-VR Shows the programs. DVD-V MPEG4 DivX Shows a disc menu. DVD-VR Shows a playlist. VCD with playback control (PBC) Shows a disc menu.																												
This unit display	  (on this unit)	Press to show sound settings display. Example: <table><tr><td>EQ</td><td>HEAVY</td><td>—</td><td>Preset EQ</td></tr><tr><td>M.EQ</td><td>OFF</td><td>—</td><td>Manual EQ</td></tr><tr><td>BASS</td><td>—</td><td></td><td></td></tr><tr><td>MID</td><td>—</td><td></td><td></td></tr><tr><td>TREBLE</td><td>—</td><td></td><td></td></tr><tr><td>SUB.W</td><td>+3</td><td>—</td><td>Subwoofer level</td></tr><tr><td>CENTR</td><td>OFF</td><td>—</td><td>Center speaker level</td></tr></table>	EQ	HEAVY	—	Preset EQ	M.EQ	OFF	—	Manual EQ	BASS	—			MID	—			TREBLE	—			SUB.W	+3	—	Subwoofer level	CENTR	OFF	—	Center speaker level
EQ	HEAVY	—	Preset EQ																											
M.EQ	OFF	—	Manual EQ																											
BASS	—																													
MID	—																													
TREBLE	—																													
SUB.W	+3	—	Subwoofer level																											
CENTR	OFF	—	Center speaker level																											

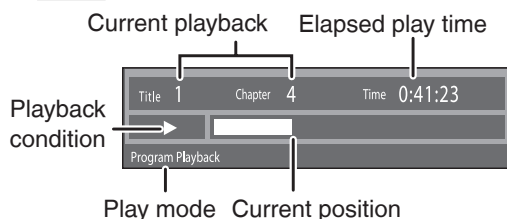
Displaying current playback condition



Each time you press the button:
Basics → Details → Off

■ Basics

Example: **DVD-V**



■ Details

Example: **DVD-V**

Audio information	Audio	1 English	Digital 3/2, 1 ch
Subtitle information	Subtitle	1 English	
Angle information	Angle	1/1	
Aspect of current title	Source Aspect	4:3	
Total play time of current title	Title Total Time	0:54:28	

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

Random play

DVD-V WMA MP3 JPEG MPEG4 DivX

While stopped

- 1 Press **[PLAY MODE]** to select “Random Playback” screen.

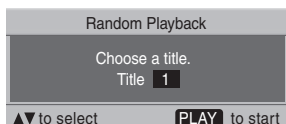
Every time you press the button:
Program → Random → off (Normal play)

- 2 Press the numbered buttons to select the item.

(**WMA MP3 JPEG MPEG4 DivX**)

Press **[ENTER]** to confirm the selection.)

Example: **DVD-V**



- 3 Press **[▶, DVD/CD]**

Program play (up to 32 items)

PLAY MODE

While stopped

- 1 Press **[PLAY MODE]** to select “Program Playback” screen.

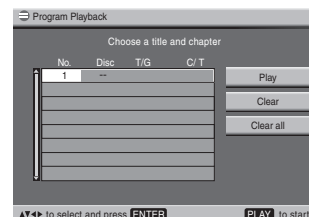
Every time you press the button:
Program → Random → off (Normal play)

- 2 Press the numbered buttons to select the items.

(**WMA MP3 JPEG MPEG4 DivX**)

Press **[ENTER]** to confirm the selection.)

Example: **DVD-V**



- Repeat this step to program other items.

- 3 Press **[▶, DVD/CD]**.

- **To select items using the cursor buttons**

Press **[ENTER]** and **[▲, ▼]** to select an item, then press **[ENTER]** again to confirm the number.

- **To exit the program mode**

Press **[PLAY MODE]** to select “off”.

- **To add or change the program**

Press **[▲, ▼]** to select a program number, then repeat step 2.

- **To clear the whole program**

Select “Clear all” and press **[ENTER]**.

- **To clear an item**

Press **[CANCEL]**, or select “Clear” and press **[ENTER]**.

Note

- Select “Play as Data Disc” in Other Menu (→ page 26) when using
 - HighMAT discs without using the HighMAT function, or
 - DVD-RAM or DVD-R/RW discs containing MP3 or JPEG files.
- **DVD-V** Some items cannot be played even if you have programmed them.

Repeat play

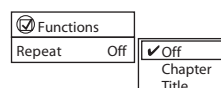
REPEAT

This works only when the elapsed play time can be displayed. It also works with all JPEG content.

During play

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

Example: **DVD-V**



Items shown differ depending on the type of disc and playback mode.

Zoom ratio

ZOOM

DVD-VR **DVD-V** **VCD** (motion picture parts only)

To select appropriate screen size to fit your television screen.

AUTO **American Vista**
4:3 Standard **Cinemascope1**
European Vista **Cinemascope2**
16:9 Standard

Example:



MPEG4 **DivX**

Standard (x0.25 full-screen)

Original (actual recorded size)

Full (full-screen)

- This may not work depending on the discs recording.

Subtitles

SC-NC6

SUBTITLE

SC-NC9

This is only available through the on-screen menus (→ Functions Menu, Discs — Using On-screen menus, page 23).

DVD-V **DivX** (with multiple subtitles)

VCD (SVCD only)

To select subtitle language

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

Press **[▲, ▼]** to select “On” or “Off” and press **[ENTER]**.

- DVD-VR** “On” or “Off” only appears with discs that contain subtitle on/off information (Subtitle on/off information cannot be recorded using Panasonic DVD Recorders.)
- DivX** DivX video files that do not display “Text” do not contain subtitles text. Subtitles text cannot be displayed.

Discs — Using navigation menus

Playing data discs



WMA **MP3** **JPEG** **MPEG4** **DivX**

- Select “Play as Data Disc” in Other Menu (→ page 26) when using
 - HighMAT discs without using the HighMAT function, or
 - DVD-RAM or DVD-R/RW discs containing MP3 or JPEG files.

Playing items in order (Playback Menu)

- Press **[TOP MENU]**.

Example:

Playback Menu		
All content	All	Total 436
WMA/MP3	Audio	total 7
JPEG	Picture	Total 427
MPEG4 and DivX video	Video	Total 2
▲▼ to select and press [ENTER]		

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

- To exit the screen

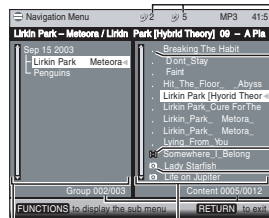
Press **[TOP MENU]** or **[RETURN]**

Playing from the selected items (Navigation Menu)

- Press **[MENU]**.
- Press **[▲, ▼, ◀, ▶]** to select the group or audio/picture/video content and press **[ENTER]**.
- To play content in the group in order Press **[ENTER]**.
To start play from the selected content Press **[▲, ▼]** and then **[ENTER]**.

Example: **WMA** **MP3** **JPEG**

Group and content number currently playing



Group Content

WMA/MP3 files

Indicates the group/content currently playing.

MPEG4 and DivX video
JPEG files

Number currently selected

- To play WMA/MP3 while showing a JPEG image First select the JPEG file you want to show, then select the WMA/MP3 file(s).
- To exit the screen Press **[MENU]** or **[RETURN]**.

■ Using the submenu

- 1 Press [FUNCTIONS] while the navigation menu (➔ page 19) is displayed

Actual items depend on the disc.

Example:

Multi	Show groups and content
List	Content only
✓Tree	Groups only
Thumbnail	Thumbnails JPEG
Next group	Go to next group
Previous group	Go to previous group
All	WMA/MP3, JPEG, MPEG4 and DivX
✓Audio	WMA/MP3 files only
Picture	JPEG files only
Video	MPEG4 and DivX video only
✓Help display	Show help bar or the elapsed play time indicator
Find	Enter a title to find content and group (➔ below)

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

- To return to the menu
Press [RETURN].

■ Searching by content or group title

To find a group: highlight one of the group names

To find content: highlight an item in the content column

- 1 Press [▲, ▼] to select "Find" in the submenu.

*A Find

- 2 Press [▲, ▼] to select a character and press [ENTER].

- Repeat to enter other characters.
- Lower case is also searched.
- Press [◀, ▶] to skip between A, E, I, O, and U.
- Press [◀] to erase a character.
- Leave the asterisk (*) to search for the titles including the character you enter.
- Erase the asterisk (*) to search only 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 results screen appears.

- 4 Press [▲, ▼] to select the content or group and press [ENTER].

Selecting a track using CD text



CD

Titles appear with CD Text disc playback.

- 1 Press [TOP MENU] or [MENU]

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

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

- To exit the screen

Press [TOP MENU], [MENU] or [RETURN].

Example:



Playing HighMAT discs



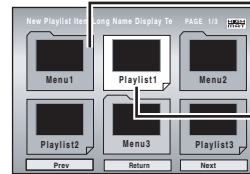
WMA MP3 JPEG

- 1 Press [TOP MENU].

- 2 Press [▲, ▼, ◀, ▶] to select the item then press [ENTER].

- Repeat this step if necessary.

Example:



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

Playlist: Play starts.

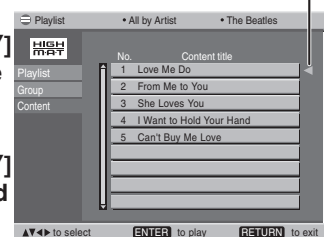
- To return to the menu above the current one
Press [RETURN].
- To change the menu background
Press [FUNCTIONS].
The background changes to the one recorded on the disc.
- To exit the screen
Press [■].

Selecting from the lists

During play

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

Example:



Playing

- To exit the list screen

Press [MENU] or [RETURN].

Playing RAM and DVD-R/RW (DVD-VR) discs



- Titles appear only if the titles are recorded on the disc.
- You cannot edit programs, playlists and disc titles.

Playing the programs

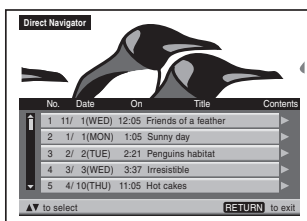
1 Press [DIRECT NAVIGATOR].

2 Press [▲, ▼] to select the item.

The selected program plays in the background.

- Press [▶] to show the contents of the program.

Example:



3 Press [ENTER] to play.

Indication on the unit's display.

PG: Program number

• To exit the list screen

Press [DIRECT NAVIGATOR] or [RETURN].

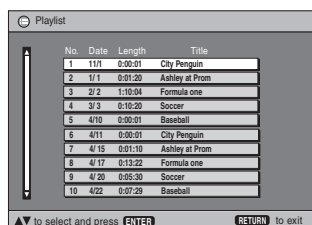
Playing the playlists

This works only when the disc contains a playlist. You can play the groups of scenes (playlists) created on DVD video recording equipment.

1 Press [PLAY LIST].

2 Press [▲, ▼] to select the item.

Example:



3 Press [ENTER] to play.

Indication on the unit's display.

PL: Playlist number

• To exit the list screen

Press [PLAY LIST] or [RETURN].

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SC-NC6

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SC-NC9

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Tips for making data discs

- When there are more than 8 groups, the eighth group onwards will be displayed on one vertical line in the menu screen.
- There may be differences in the display order on the menu screen and computer screen.
- This unit cannot play files recorded using packet write.

DVD-RAM

- Discs must conform to UDF 2.0.

DVD-R/RW

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

CD-R/RW

- Discs must conform to ISO9660 level 1 or 2 (except for extended formats).
- This unit supports multi-session but if there are many sessions it takes more time for play to start. Keep the number of sessions to a minimum to avoid this.

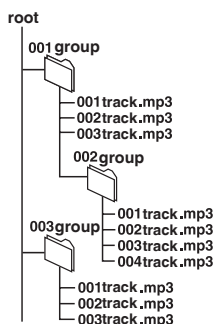
Naming folders and files

(Files are treated as contents and folders are treated as groups on this unit.)

At the time of recording, prefix folder and file names. This should be with numbers that have an equal number of digits, and should be done in the order you want to play them (this may not work at times).

Files must have the extension (➡ below).

Example: **MP3**



WMA (Extension: ".WMA" or ".wma")

- Compatible compression rate: between 48 kbps and 320 kbps
- You cannot play WMA files that are copy-protected.
- This unit does not support Multiple Bit Rate (MBR).

MP3 (Extension: ".MP3" or ".mp3")

- Compatible compression rate: between 32 kbps and 320 kbps
- This unit does not support ID3 tags.
- Compatible sampling rates:
 - DVD-RAM, DVD-R/RW: 11.02, 12, 22.05, 24, 44.1 and 48 kHz
 - CD-R/RW: 8, 11.02, 12, 16, 22.05, 24, 32, 44.1 and 48 kHz

JPEG (Extension: ".JPG", ".jpg", ".JPEG" or ".jpeg")

- JPEG files taken on a digital camera that conform to DCF Standard (Design rule for Camera File system) Version 1.0 are displayed. Files that have been altered, edited or saved with computer picture editing software may not be displayed.
- This unit cannot display moving pictures, MOTION JPEG and other such formats, and still pictures other than JPEG (e.g. TIFF), or play pictures with attached audio.

MPEG4 (Extension: ".ASF" or ".asf")

- You can play MPEG4 data [conforming to SD VIDEO specifications (ASF standard)/MPEG4 (Simple Profile) video system/G.726 audio system] recorded with Panasonic SD multi cameras or DVD video recorders with this unit.
- The recording date may differ from that of the actual date.

DivX (Extension: ".DIVX", ".divx", ".AVI" or ".avi")

- You can play all versions of DivX® video (including DivX®6) [DivX video system/MP3, Dolby Digital or MPEG audio system] with standard playback of DivX® media files. Functions added with DivX Ultra are not supported.
- DivX files greater than 2 GB or have no index may not be played properly on this unit.
- This unit supports all resolutions up to maximum of 720 x 480 (NTSC)/720 x 576 (PAL).
- You can select up to 8 types of audio and subtitles on this unit.

Discs — Using On-screen menus

3 Make the settings.

Select

Confirm

Example: **DVD-V**

Functions	
Title	1/2
Chapter	3/10
Time	0:24:31
Audio	1 English
Subtitle	3 French

1 English
✓ 2 French
3 Spanish

1 Show the "Functions" menu.

FUNCTIONS

2 Select the menu.

Return to the previous menu

Go to the next menu

Confirm

Example: **DVD-V**

Functions	
Title	1/2
Chapter	3/10
Time	0:24:31
Audio	1 English
Subtitle	3 French

✓ 1 English
2 French
3 Spanish

4 Press to exit.

RETURN

-SETUP

Items shown differ depending on the type of disc and the recording format.

Functions Menu

Program, Group, Title, Track, Chapter, Playlist, Content	To start from a specific item Example: DVD-VR To select Program 12 Press the numbered buttons: [1] → [2] → [ENTER] Functions Program2/16 Time0:34:15 Audio Program Search 12
Time	(Time slip does not work with +R/+RW discs.) To skip the time forward or backward 1. Press [ENTER] twice to show the Time Slip indicator. 2. Press [▲, ▼] to select the time and press [ENTER]. • To change the steps more quickly, press and hold [▲, ▼]. To change remaining/elapsed time display.
Video	MPEG4 DivX To display pixel number DivX fps (frame per second) is also displayed.
Audio	DVD-V DivX (Discs with multiple soundtracks) To select audio soundtrack DVD-VR DivX To select “L”, “R” or “L R” DVD-V (Karaoke disc) To select “On” or “Off” for vocal • Read the disc’s instructions for details. VCD To select “L”, “R”, “L R” or “L+R”
Audio	Signal type/data LPCM/PPCM/□□ Digital/DTS/MP3/ MPEG: Signal type kHz: Sampling frequency / bit: Number of bits / ch: Number of channels Example: 3 / 2 .1ch 1: Low frequency effect (not displayed if there is no signal) 0: No surround 1: Mono surround 2: Stereo surround (left/right) 1: Center 2: Front left + Front right 3: Front left + Front right + Center WMA MP3 To display current bitrate or sampling frequency.
Number Select	VCD with playback control To select number While the disc menu is displayed Press [▲, ▼] ⇒ press [ENTER] • To change the steps more quickly, press and hold [▲, ▼].
Thumbnail	JPEG To show thumbnail images
Subtitle	(⇒ Discs – Convenient Functions, page 19)
Marker (VR)	DVD-VR To recall a marker recorded on DVD-Video recorders Press [▲, ▼] ⇒ press [ENTER]
Angle	(with multiple angles) To select a video angle

Discs — Using On-screen menus

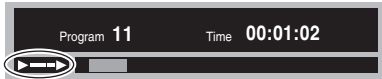
Functions Menu

Rotate picture	To rotate a picture
Slideshow	To turn slideshow on/off On ↔ Off To change the slideshow timing 1 (Fast) to 5 (Slow).
Other Settings	(⇒ below)

Other Settings

Play Speed	To change play speed DVD-VR DVD-V – from "x0.6" to "x1.4" • Press [▶, DVD/CD] to return to normal play. • After you change the speed – SC-NC9 Dolby Pro Logic II has no effect. – SC-NC9 Audio output switches to 2-channel stereo. – Sampling frequency of 96 kHz is converted to 48 kHz. • This function may not work depending on the disc's recording.
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Play Menu

Repeat	(⇒ Repeat play, page 18)
A-B Repeat	Except DVD-VR JPEG (still picture part) MPEG4 DivX To repeat a specified section [ENTER] (start point) ⇒ [ENTER] (finish point) To cancel: [ENTER]
Advanced Disc Review	DVD-VR (except still picture part) DVD-V (except +R/+RW) Allows you to browse the disc contents and start playing from the selected position. You can select either "Intro Mode" or "Interval Mode". (⇒ Advanced Disc Review, page 27.) Example:  Press [▶, DVD/CD] when you find a title/program to play. • This may not work depending on the disc and the play position. • DVD-VR This does not work when playing a playlist. (⇒ page 21.)

Picture Menu

Picture Mode	Normal Cinema1: Mellows images and enhances detail in dark scenes. Cinema2: Sharpens images and enhances detail in dark scenes. Animation: Suitable for animation. Dynamic: Enhances the contrast for powerful images. User: Enables settings you make in "Picture Adjustment".
Video Output Mode	Picture Adjustment Contrast Brightness Sharpness Colour Gamma (Adjusts the brightness of dark parts.) Depth Enhancer (Reduce the rough noise in the background to give a greater feeling of depth.) To select suitable picture quality with your television (Video recordings will be converted to, and output as, high-definition video.) When HDMI connection is being used and "Video Mode" (⇒ "HDMI" tab, page 29) is set to "On" 480p/576p/720p/1080p[#] (progressive) 480i/576i/1080i[#] (interlace) • Select a video output with an "*" mark. The "*" mark shows that the video output is acceptable with your television. • Selecting a video output without an "*" mark can result in the picture being distorted. If the picture is distorted, press and hold [CANCEL] until the picture is displayed correctly. • Output from the COMPONENT VIDEO OUT terminals will be "480i" or "576i". When HDMI connection is not being used and "Video Mode" (⇒ "HDMI" tab, page 29) is set to "Off" 480p/576p[#] (progressive) 480i/576i[#] (interlace) When you select "xxx[#]p", a confirmation screen appears. Select "Yes" only if connecting to a progressive output compatible television. [#] The number displayed depend on the disc being played. One of the above number is displayed. (HDMI connection is available for SC-NC9 only.)

Other Settings

Transfer Mode	If you have chosen “xxx#p” (progressive) or “1080i” (interlace) (⇒ “Video Output Mode” in Picture Menu, page 24), select the method of conversion for progressive output to suit the type of material. The setting will return to Auto or Auto1 when the disc tray is opened, the unit is turned off or another source is selected. When you play NTSC disc Auto1: Automatically detects the film and video content, and appropriately converts it. Auto2: In addition to Auto1, automatically detects film contents with different frame rates and appropriately converts it. Video: Select when using Auto1 and Auto2, and the video content is distorted. When you play PAL discs, MPEG4 or DivX video Auto: Automatically detects the film and video content, and appropriately converts it. Video: Select when using Auto, and the content is distorted. Film: Select this if the edges of the film content appear jagged or rough when Auto is selected. However, if the video content is distorted as shown in the illustration, then select Auto. 
	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)
Source Select DivX	

HD Picture Enhancer SC-NC9	This works when the HDMI connection is being used and “Video Mode” (⇒ “HDMI” tab, page 29) is set to “On”. To Sharpen the “720p”, “1080i” and “1080p” picture quality Off ↔ 1 ↔ 2 ↔ 3 (sharpest picture)
HDMI Colour Space SC-NC9	This works when the HDMI connection is being used and “Video Mode” (⇒ “HDMI” tab, page 29) is set to “On” To select suitable picture colour with your television RGB YCbCr (4:4:4) YCbCr (4:2:2) - If the setting above is not compatible with your television, it will not be displayed. “RGB Range” (⇒ “HDMI” tab, page 29) is available when “RGB” is selected.
Audio Menu	
Dolby Pro Logic II SC-NC9	(⇒ Enhancing the stereo sound: Dolby Pro Logic II, page 35)
Dialogue Enhancer	To make the dialogue in movies easier to hear DVD-V (Dolby Digital, DTS, MPEG, 3-channel or higher, with the dialogue recorded in the center channel) DivX (Dolby Digital, 3-channel or higher, with the dialogue recorded in the center channel) On ↔ Off

Discs — Using On-screen menus

Other Settings

■ Display Menu

Information	On ↔ Off JPEG
Subtitle Position	0 to -60 in 2 unit steps.
Subtitle Brightness	“Auto” to automatically adjust the brightness against the background, or 0 to -7.
4:3 Aspect	To select how to show images made for 4:3 aspect screens on a 16:9 aspect television [Go to “Video” menu in the Setup menus, and select “16:9” for “TV Aspect” (⇒ page 28).] Normal: Laterally stretches images. Auto: Expands 4:3 letterbox images to fill more of the screen. Other images appear in full in the center of the screen. Shrink: Images appear in the center of the screen. Zoom: Expands all images to fill the screen. If your television has a similar feature, use it instead for a better effect.
Just Fit Zoom	To select the appropriate screen size to fit your television screen (⇒ Discs — Convenient Functions, page 19)

Manual Zoom	To zoom in and out manually – in 0.01-unit steps from “x1.00” to “x1.60” – in 0.02-unit steps from “x1.60” to “x2.00” – MPEG4 DivX in 0.05-unit steps from “x2.00” to “x4.00” • To change the steps quickly, press and hold [▲, ▼]. • MPEG4 DivX It may not be possible to zoom up to “x4.00” depending upon the connected television and its settings.
Bit Rate Display	DVD-VR DVD-V VCD MPEG4 DivX On ↔ Off
GUI See-through	To adjust the on-screen menu transparency Off, On, Auto
GUI Brightness	To adjust the brightness of the on-screen displays. (-3 to +3)
HDMI Status SC-NC9	Indicates various information when connected with HDMI AV OUT terminal. (⇒ Confirming HDMI information, below)
Quick OSD	To display current playback condition Off → Basics → Details (Displaying current playback condition, ⇒ page 18)

■ Other Menu

Setup	Open the Setup menu to change the player's settings (⇒ page 27).
Play as DVD-VR, Play as HighMAT or Play as Data Disc	To use functions for data discs (⇒ page 19) Select “Play as Data Disc” to play JPEG, MP3, MPEG4 or DivX files on DVD-RAM or DVD-R/RW, or to play HighMAT disc without using the HighMAT function.

Confirming HDMI information **SC-NC9**

Example:

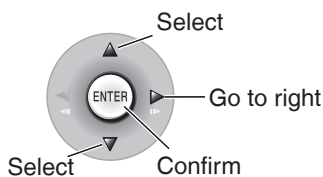
■ HDMI Status — HDMI is connected.		Connection status
HDMI Information		
Audio Stream	<u>PCM</u>	Shows the output signal type
Max Channel	2ch	Shows the number of audio channels
Colour Space	<u>YCbCr (4:4:4)/YCbCr (4:2:2)/RGB</u>	(⇒ HDMI Colour Space, page 25)
Video Format	<u>480i/576i/480p/576p</u> 720p/1080i/1080p	(⇒ Video Output Mode, page 24)

Note

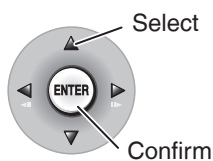
- All possible types of output are displayed.
- The current output for “Audio Stream”, “Colour Space” and “Video Format” will be underlined. (If you select a video output without an “*” mark in the “Video Output Mode” in Picture Menu, the selected video format will not be underlined.)
- When “Off” is selected in “Audio Output” (⇒ “HDMI” tab, page 29), “— — —” will be displayed in “Audio Stream” and “Max Channel”.

Discs — Changing the player's settings

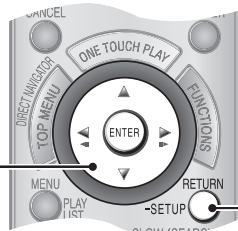
2 Select the menu and item.



3 Make the setting.



SC-NC9



SC-NC6



1 Display the Setup menu.

SC-NC9

RETURN

-SETUP

(Press and hold)

SC-NC6

SETUP

If you have not performed QUICK SETUP (➔ page 12) the QUICK SETUP screen appears.

4 Press to exit

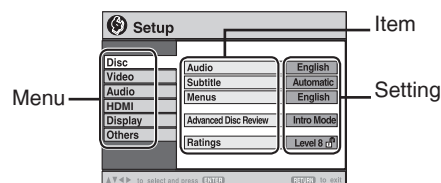
SC-NC9

RETURN

-SETUP

SC-NC6

RETURN



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

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

■ “Disc” menu

Audio Choose the audio language.	- English - French - Spanish - German - Italian - Dutch - Swedish - Polish - Original^{#1} - Other*****^{#2}
Subtitle Choose the subtitle language.	- Automatic^{#3} - English - French - Spanish - German - Italian - Dutch - Swedish - Polish - Other*****^{#2}
Menus Choose the language for disc menus.	- English - French - Spanish - German - Italian - Dutch - Swedish - Polish - Other*****^{#2} Changing the menu language from QUICK SETUP (➔ page 12) also changes this setting.
Advanced Disc Review Choose the mode for Advanced Disc Review (➔ page 24).	- Intro Mode: Plays the first few seconds of each title. - Interval mode: Plays a few seconds of the disc at ten-minute intervals.
Ratings Set a ratings level to limit DVD-Video play.	Setting ratings (When level 8 is selected) 8 No Limit 1 to 7: Prohibits play of DVD-Video with corresponding ratings recorded on them. 0 Lock All: To prevent play of discs without ratings levels. When you select your rating level, a password screen is shown. Follow the on-screen instructions. Do not forget your password. A message screen will be shown if a DVD-Video exceeding the ratings level is inserted in the unit. Enter your password and then follow the on-screen instructions.

^{#1} The original language of each disc is selected.

^{#2} Input a code number with the numbered buttons (➔ Language code list, page 30).

^{#3} If the language selected for “Audio” is not available, subtitles of that language automatically appear if available on the disc.

■ “Video” menu

TV Aspect Choose the setting to suit your television and preference.	• 4:3 Pan&Scan: Regular aspect television (4:3) The sides of the widescreen picture are cut off so it fills the screen (unless prohibited by the disc).  • 4:3 Letterbox: Regular aspect television (4:3) Widescreen picture is shown in the letterbox style.  • 16:9: Widescreen television (16:9)
TV Type Select to suit the type of television.	• Standard (Direct View TV) • CRT Projector • LCD TV/Projector • Projection TV • Plasma TV
Time Delay When connected with an AV amplifier and Plasma display, adjust if you notice the audio is out of sync with the video.	• 0ms • 20ms • 40ms • 60ms • 80ms • 100ms
Video Out (AV/Component) Choose the video signal format to be output from the SCART (AV) and Component terminal.	• Video/YPbPr: Video and YPbPr • S-Video/YPbPr: S-Video and YPbPr • RGB/No Output: RGB only
Still Mode Specify the type of picture shown when paused.	• Automatic • Field^{#4}: The picture is not blurred, but picture quality is lower. • Frame^{#4}: Overall quality is high, but the picture may appear blurred.
NTSC Disc Output Choose PAL 60 or NTSC output when playing NTSC discs (⇒ Video systems, page 15).	• PAL60: 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” menu

PCM Digital Output SC-NC6 Select the maximum sampling frequency of PCM digital output. Check the digital input limitations of the equipment you connect.	• Up to 48 kHz: Signals over 48 kHz converted to 48 or 44.1 kHz • Up to 96 kHz: Signals over 96 kHz converted to 48 or 44.1 kHz – Signals from copy-protected discs are converted to 48 or 44.1 kHz irrespective of the setting. – Some equipment cannot handle sampling frequencies of 88.2 kHz, even if it can handle 96 kHz. Read your equipment’s operating instructions for details.
Dolby Digital^{#5}	• Bitstream • PCM
DTS Digital Surround^{#5}	• Bitstream • PCM
MPEG^{#5}	• PCM • Bitstream
Dynamic Range Compression (Dolby Digital only)	• Off • On: Adjust for clarity even when the volume is low through compressing the range of the lowest sound level and the highest sound level. Convenient for late night viewing.
SC-NC9 Speaker Settings (⇒ page 30) Set the delay time for your center and surround speakers.	SC-NC9 Select to suit the type of equipment you connected to the HDMI AV OUT terminal (⇒ page 10). Select “Bitstream” when the equipment can decode the bitstream (digital form of multi-channel data). Otherwise, select “PCM”. (If the bitstream is output to the equipment without a decoder, high levels of noise can be output and may damage your speakers and hearing.) • Center (C): 0.0/1.0/2.0/3.0/4.0/5.0 ms • Surround (LS/RS): 0.0/5.0/10.0/15.0 ms

^{#4} Refer to “Frame still and field still” (⇒ Glossary, page 41)

^{#5} **SC-NC9** When audio is output from HDMI AV OUT terminal, and the connected equipment does not support the item selected, the actual output will depend on the performance of this connected equipment.

■ “HDMI” menu **SC-NC9**

RGB Range Set “HDMI Colour Space” to “RGB” (⇒ Picture Menu, page 25)	• Standard • Enhanced: When the black and white images are not distinct.
Video Mode	• On: When connected through the HDMI AV OUT terminal. Video is output from the HDMI terminal. Video is also output from the COMPONENT VIDEO OUT terminal, but only in 480i or 576i (interlace). When connected through the SCART (AV) terminal, RGB signal is not output. • Off: When connected through the COMPONENT VIDEO OUT or SCART (AV) terminal. Video is output from the COMPONENT VIDEO OUT or SCART (AV) terminal according to the setting of the “Video Output Mode” (⇒ Picture Menu, page 24) or SCART (AV) terminal according to the setting of the “Video Out (AV/Component)” in the “Video” menu (⇒ page 28). Video is also output from the HDMI AV OUT terminal, but only in 480p or 576p (progressive).
Audio Output	• On: When audio output is from the HDMI AV OUT terminal. (Depending on the capabilities of the connected equipment, audio output may differ from the audio settings of this unit.) • Off: When audio output is not from the HDMI AV OUT terminal. (The audio is output using the settings of this unit.)
VIERA Link	• On: The VIERA Link “HDAVI Control” function is available (⇒ page 37). • Off

■ “Display” menu

Menu Language Choose the language for these menus and the on-screen messages.	• English • Italiano • Français • Nederlands • Español • Svenska • Deutsch • Polski
On-Screen Messages	• On • Off
Background during Play Select background during JPEG, MPEG4 and DivX video playback.	• Black • Grey

■ “Others” menu

DivX Registration Displays the unit's registration code.	You need this registration code to purchase and play DivX Video-on-Demand (VOD) content. (⇒ About DivX VOD content, page 5)
QUICK SETUP	• Yes • No
Re-initialise Setting This returns all values in the SETUP menus to the default settings.	• Yes: The password screen is shown if “Ratings” (⇒ “Disc” menu, page 27) are set. Please enter the same password. After “INIT” on the display disappears, turn the unit off and on again. • No

Discs — Changing the player's settings

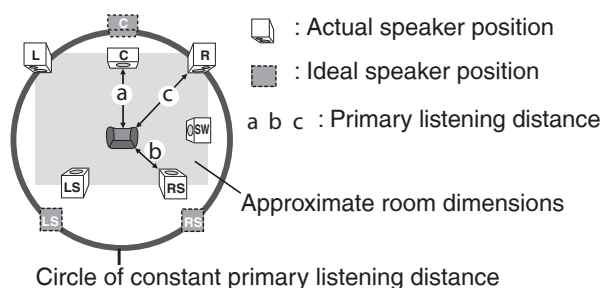
Language code list

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

Changing the delay time (Speaker settings)

SC-NC9

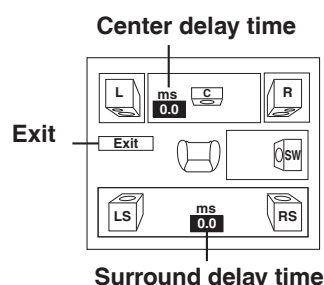
For optimum listening with 5.1 channel sound, all the speakers, except for the subwoofer, should be the same distance from the seating position. If you have to place the center or surround speakers closer to the seating position, adjust the delay time to make up for the difference.



If either distance ① or ② is less than ③, find the difference in the table and change to the recommended setting.

① Center speaker		② 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		

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

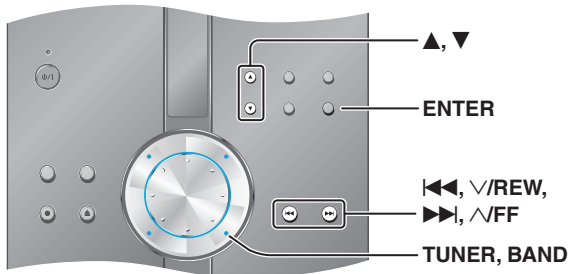
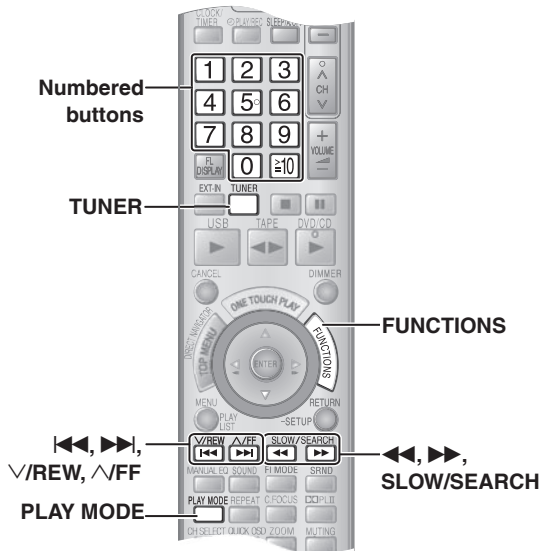


To finish the speaker setting

Press [◀] 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 setting for Music are the same as those for Dolby Digital.

Dolby Digital	Dolby Pro Logic II	
	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



Manual tuning



1 Press to select "FM" or "AM".



2 Press to select the frequency of the desired station

- Press and hold [◀◀] or [▶▶] (this unit: [◀◀, √/REW] or [▶▶, √/FF]) until the frequency starts scrolling to start automatic tuning. Tuning stops when a station is found.

"ST" is displayed when a stereo FM broadcast is being received.

■ If noise is excessive

When "FM" is selected

Press [PLAY MODE] to display "MONO".

To cancel, press [PLAY MODE] again.

The mode also cancels when you change the frequency.

Preset tuning

Preset channels to make selection simpler. Up to 30 stations can each be set in the FM and AM bands.

Automatic presetting



Press and hold [ENTER].
(Release when "PROGRAM" appears)

The tuner tunes to the lowest frequency and start to preset the stations it can receive into the channels in ascending order.

When finished, the last station to be set is played.

Manual presetting

1



To enter manual presetting mode.
("PROGRAM" appears)

2



Select the frequency of the desired station.

3



or



Press while the station is flashing to select the channel.

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

Selecting the preset channels

Remote control only

- 1** Press [TUNER] to select "FM" or "AM".
- 2** Press the numbered buttons or [◀◀, √/REW] or [▶▶, √/FF] to select the channel.

The radio

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] to display the text data.

Each time you press the button:

P. SERVICE → P. TYPE → Frequency display
(factory preset)

P. SERVICE: Program service

P. TYPE : Program type

PTY displays

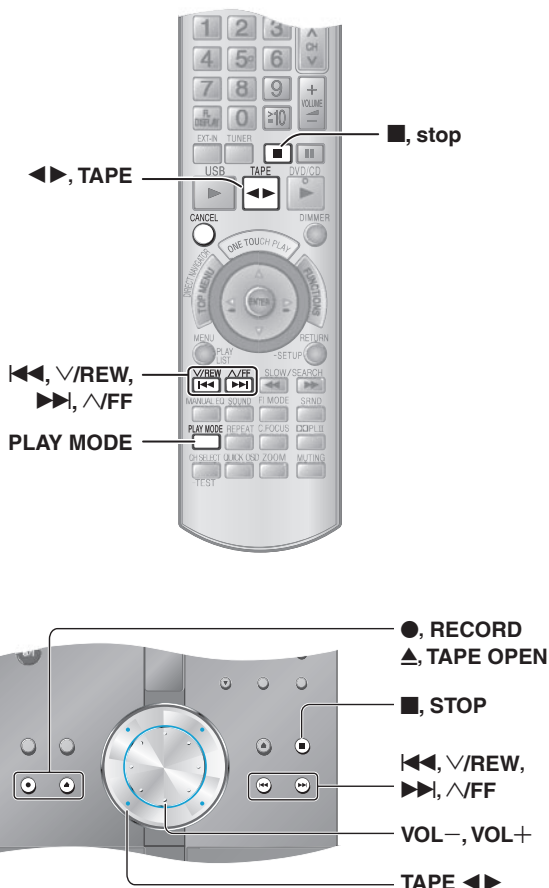
NEWS	VARIED	FINANCE	COUNTRY
AFFAIRS	POP M	CHILDREN	NATIONAL
INFO	ROCK M	SOCIAL A	OLDIES
SPORT	M-O-R-M	RELIGION	FOLK M
EDUCATE	LIGHT M	PHONE IN	DOCUMENT
DRAMA	CLASSICS	TRAVEL	TEST
CULTURE	OTHER M	LEISURE	ALARM
SCIENCE	WEATHER	JAZZ	

“M-O-R-M” = Middle of the road music

Note

RDS displays may not be available if reception is poor.

Cassette tapes — Play and Recording



- Tapes exceeding 100 minutes are thin and can break or get caught in the mechanism.
- Tape slack can get caught up in the mechanism and should be wound up before the tape is played.
- Endless tapes can get caught up in the deck's moving parts if used incorrectly. Use tapes appropriate to this unit's auto-reverse mechanism.

Play

Use normal position tapes.

High position and metal position tapes can be played, but the unit is not able to do full justice to the characteristics of these tapes.

- 1 Press [◀▶,TAPE]**
The unit comes on. If a cassette was loaded, play starts automatically.
- 2 Press [▲,TAPE OPEN] on this unit and insert the cassette.**

Make sure that the cassette is fully inserted and close the lid by hand.



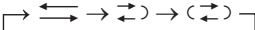
- Side to be played facing towards you.

Insert the cassette with the exposed tape facing you.

- ### 3 Start play.
- Every time you press the button:
- FWD ↔ REV
- FWD ► : Forward side is played
REV ◄ : Reverse side is played.

- 4** Adjust the volume with [+ VOLUME -]
(this unit: VOL -, VOL +).

Cassette tapes — Play and Recording

Stop	
Reverse mode selection	PLAY MODE Every time you press the button:  ↔ One side is played. ↔↔ Both sides are played (forward → reverse). ↔↔ Both sides are played repeatedly until [■] is pressed.
Fast-forward and rewind	 

Recording

Preparation:

- Wind up the leader tape so recording can begin immediately.
- Press [PLAY MODE] to select the reverse mode.
 - ↔ One side only records.
 - ↔↔, While recording, if a track is cut off in the middle at the end of the front side, it is re-recorded from the beginning on the reverse side.

At the end of the reverse side, recording stops and the current track will be interrupted.

 - “↔↔” automatically changes to “↔↔” when you start recording.

Recording from radio, disc or USB

1 Select the source to be recorded.

Radio	Tune to the required station. (⇒ The radio, page 31)
Disc	- Insert the disc you want to record. - Press [▶, DVD/CD] and then [■] • Recording specific tracks Program the tracks (⇒ Program play, page 18)
USB	- Connect the USB mass storage device (⇒ Using the USB playback function, page 40) - Press [▶, USB] and then [■] • Recording specific tracks Program the tracks (⇒ Program play, page 18)

- Press [●, RECORD] on this unit to start recording.

Recording from external source: “MUSIC P.”, “AUX” or “AV”

For connection and operation ⇒ Using other equipment, page 38, 39.

- Press [EXT-IN] to select “MUSIC P.”, “AUX” or “AV”.
- Press [●, RECORD] on this unit to start recording.
- Play the external unit or portable audio equipment.

• To stop recording

Press [■]

• If the tape finishes before the disc

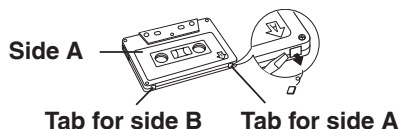
The disc continues playing. Press [■] to stop it.

Note

- **SC-NC9** Multi-channel sources are automatically down-mixed to 2 channels during recording playback.
- The volume, sound field and quality have no effect on recording.

Erasure prevention

Use a screwdriver or similar object to break out the tab.



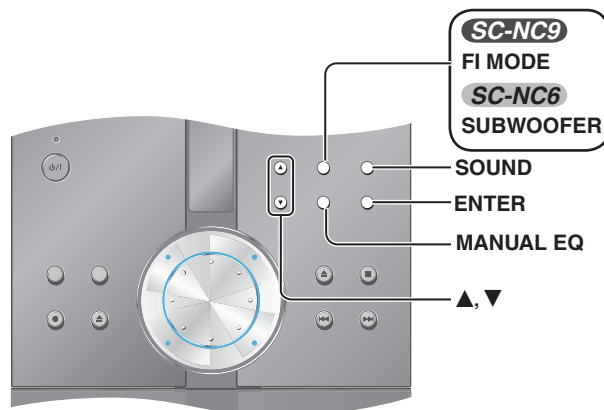
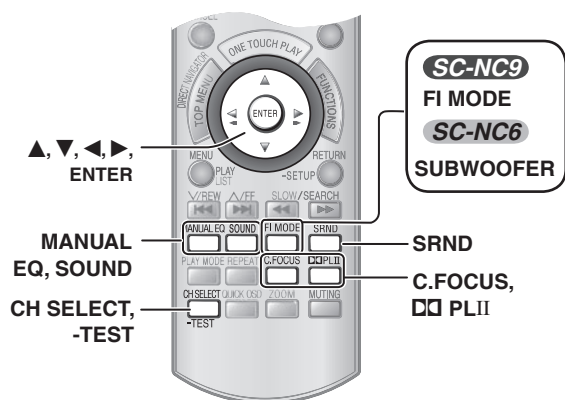
To record on the tape again, cover the hole with adhesive tape.



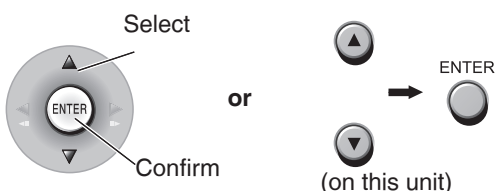
Erasing recordings

- Press [◀▶, TAPE] and then [■].
- Press [●, RECORD] on this unit.

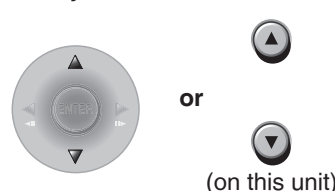
Sound field and sound quality



To make a setting.



To adjust the level in the setting.



- The following sound effects may not be available or have no effect depending on the type of source, or when headphones are used.

- 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.

Changing the sound quality: Sound



Press [SOUND].

PRESET EQ

- HEAVY** : Adds punch to rock.
- CLEAR** : Clarifies higher sounds.
- SOFT** : For background music.
- EQ-OFF** : Cancel (no effect is added).

H.BASS

- ON**: You can enhance low-frequency sound so that heavy bass sound can be heard clearly, even if the acoustics of your room are not optimal.
- OFF**: Cancel

Using the Manual Equalizer: Manual EQ



Create your own sound quality effects.

Press [MANUAL EQ].

- BASS** (-3 to +3)
- MID** (-3 to +3)
- TREBLE** (-3 to +3)

After you select a setting, press [◀, ▶] to switch between the sound range.

- The changes you make are stored and automatically recalled the next time you select "MANUAL EQ".

Refining the sound quality: Fi Mode



SC-NC9

You can refine the sound quality to suit the placement of your speakers when listening to stereo sources.

Press [FI MODE].

BI-AMP TS:

- ON**: The amplifiers for the front and surround speakers separately run the low frequency and mid to high frequency. This reduces distortions and produce a more open and cleaner sound. Use this mode when surround speakers are stacked up (➡ Speaker installation options, page 7) or placed beside front speakers.
- OFF** : Cancel

SUBWOOFER:

- ON** (-5 to +5)
- OFF**: Cancel (When Bi-Amp TS is off, this is only available for 2-channel sources.)

CENTER: Adjustable only when Bi-Amp TS is on.

- ON** (-5 to +5)
- OFF**: Cancel

PARTY: Adjustable only when Bi-Amp TS is off.

STEREO: Front and surround speakers produce stereo source.

MONO: Center, front and surround speakers produce same sound source.

OFF: Cancel

Note

- If Bi-Amp TS mode is selected at DVD mode, DVD will automatically play to down mix mode.
- If Bi-Amp TS mode is selected, 5.1 channel and Dolby Pro Logic II will turn off by default.

Enhancing the surround sound effect: Surround

SRND

Press [SRND].

SRND 1: Adds surround effects to stereo sources.

SRND 2: Use this mode when playing movie software.

OFF: Cancel

- You can adjust the volume of the surround speakers to get the best surround effect (➡ right).
- SRND mode does not work when playing a DVD recorded with 5.1 channel.
- When Dolby Pro Logic II is on, SRND mode has no effect.

Enhancing the sound from the center speaker: Center Focus

C.FOCUS

SC-NC9

Use with 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]

ON: The "C.F" indicator lights.

OFF: Cancel

- This works only during 5.1 channel or when Dolby Pro Logic II is turned on.
- This does not work when Surround is turned on.

Enhancing the stereo sound: Dolby Pro Logic II

DOLBII

SC-NC9

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 [DOLBII].

MOVIE: Movie software, recorded in Dolby Surround.

MUSIC: Stereo sources

OFF: Cancel

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

Adjusting the amount of bass: Subwoofer level

SUBWOOFER

SC-NC6

Press [SUBWOOFER].

ON (-5 to +5)

OFF: Cancel (Only available for 2-channel sources.)

Speaker level adjustments

CH SELECT

-TEST

SC-NC9

This is one of the ways to get appropriate surround effects.

Preparation:

Press [▶], DVD/CD] and then [■].

- 1 During stop and no on-screen display is shown
Press and hold [-TEST] to output a test signal.
TEST L : Front Left TEST RS : Right surround
TEST C : Center TEST LS : Left surround
TEST R : Front right
• There is no output from SW (subwoofer) channel.
- 2 Press [+ VOLUME -] to set the volume level normally used for listening.
- 3 Press [▲] (increase) or [▼] (decrease) to adjust the speaker level for each speaker.
• Adjust the speaker level to the same level as the front speakers.
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 [◀, ▶].

• To stop the test signal

Press and hold [-TEST] again or [■].

■ To adjust speaker level during play

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

① Press [CH SELECT] to select the speaker.

L → C → R → RS → LS → 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 [▲] (increase) or [▼] (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 [◀, ▶].

The play/record timer



You can set the timer to come on at a certain time to wake you up (play timer) or to record from radio station, "MUSIC P.", "AUX" or "AV" (record timer). The play and record timers cannot be used together.

- Switch on the unit and set the clock (⇒ Setting the time, page 12).
- **For the play timer**, prepare the desired music source (tape, CD, radio, "MUSIC P.", "AUX", "AV" or USB) and set the volume.
- **For the record timer**, check the cassette's erasure prevention tabs (⇒ Erasure prevention, page 33) and insert the tape (⇒ Cassette tapes, page 32). Tune to the radio station (⇒ The radio, page 31) or select "MUSIC P.", "AUX" or "AV" (⇒ Using other equipment, page 38, 39).

1 Press [CLOCK/TIMER] to select the timer function.

Every time you press the button:

CLOCK → →
 ↑ Previous display ←

: to set the play timer
: to set the record timer

2 ON time setting

(Within 6 seconds or so)

- 1 Press [] or [] or [] to set the start time.

- 2 Press [CLOCK/TIMER].

OFF time setting

Repeat step ① and ②.

The start and finish times are now set.

3 Press [/REC] to display the timer indicator.

→ → Off
 ↑

: to turn the play timer on
: to turn the record timer on
 (The indicator doesn't appear if the start and finish times or the clock have not been set.)

4 Press [] to turn the unit off.

The unit must be off for the timers to operate.

- **Play timer**: Play will start in the set condition at the set time with volume increasing gradually to the set level.
- **Record timer**: The unit comes on 30 seconds before the set time with the volume muted.

• To cancel the timer

Press [] to clear the timer indicator from the display.
 (The timer comes on at the set time everyday if the timer is on.)

To change the settings (when the unit is on)

• To change the play/record times

Do steps 1, 2 and 4.

• To change the source or volume

- ① Press [] to clear the timer indicator from the display.
- ② Make changes to the source or volume.
- ③ Do steps 3 to 4.

• To check the settings

Press [CLOCK/TIMER] while the unit is on to select "PLAY" or "REC".

The settings are shown:

Play timer: start time, finish time (source and volume are blinking)

Record timer: start time, finish time (source is blinking)

If you use the unit after the timers are set

After using, check that the correct tape or disc is loaded before turning the unit off.

Note

- If you turn the unit off and on again while a timer is functioning, the finish time setting will not be activated.
- If you selected "MUSIC P.", "AUX" or "AV", when the timer comes on, the unit turns on and engages "Music Port", "AUX" or "AV" respectively as the source. If you want to playback or record from a connected unit, set that unit's timer to the same time. (See the connected unit's instruction manual.)

Sleep timer/Auto-off function

SLEEP/A.OFF



- **Sleep timer**: This timer turns the unit off after a set time.
- **Auto-off function**: Only when disc, USB or tape is selected as the source. To save power, the unit turns off if it is left unused for 10 minutes.

While enjoying the desired source:

Press [SLEEP/A.OFF] to select a setting (minutes).

Every time you press the button:

30 → 60 → 90 → 120
 ↑ OFF ← AUTO OFF ←

The "SLP" or "A.OFF" indicator lights.

• To cancel the sleep timer

Press [SLEEP/A.OFF] to select "SLEEP OFF".

• To confirm the remaining time

Press [SLEEP/A.OFF] once.

The remaining time is shown for about 5 seconds.

• To change the setting

Press [SLEEP/A.OFF] to select the new setting.

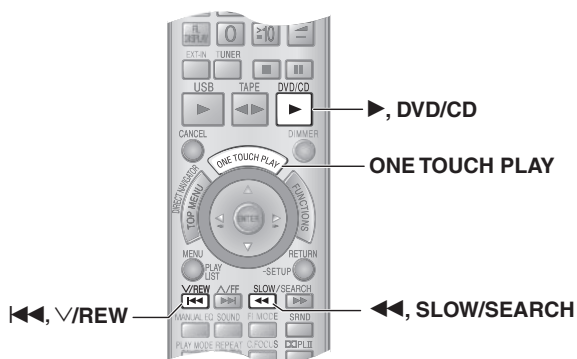
• To cancel the Auto-off function

Press [SLEEP/A.OFF] to select "AUTO OFF" again.

Note

- The sleep timer will be turned off when you start recording.
- You can use the sleep timer in combination with the play/record timer. Make sure the unit is off before the play/record timer's start time.
- The Auto-off function is maintained even if the unit is turned off.

Using the VIERA Link “HDAVI Control”™



What is VIERA Link “HDAVI Control”?

VIERA Link “HDAVI Control” is a convenient function that offers linked operations of this unit, and a Panasonic television (VIERA) under “HDAVI Control”. You can use this function by connecting the equipment with the HDMI cable.

See the operating instructions for connected equipment for operational details.

This unit supports “HDAVI Control 2” function.

The TV with “HDAVI Control 2” function enables the following operation:

VIERA Link Control only with TV’s remote control (for “HDAVI Control 2”) (⇒ page 38)

Preparation

- Confirm that the HDMI connection (⇒ page 10) has been made.
- Set “VIERA Link” to “On” (⇒ “HDMI” tab, page 29).
- To complete and activate the connection correctly, turn on all VIERA Link “HDAVI Control” compatible equipment and set the television to the corresponding HDMI input mode for the stereo system.

Whenever the connection or settings are changed, reconfirm the points above.

One Touch Play

You can turn on the stereo system and television, and start playing the disc in the play position with a single press of a button.

Press [ONE TOUCH PLAY].

Stereo system speakers will be automatically activated (⇒ right).

- This function also works if you press [▶, DVD/CD] on the stereo system remote control during stereo system standby mode.

Note

- Playback may not be immediately displayed on the television. If you miss the beginning portion of playback, press [◀◀] or [◀◀] to go back to where playback started.

Speaker control

You can select whether audio is output from the stereo system or the television speakers by using the television menu settings. For details, refer to the operating instructions of your television.

Home Cinema

Stereo system speakers are active.

- When the stereo system is in standby mode, changing the television speakers to stereo system speakers in the television menu will automatically turn the stereo system on and select “AUX” as the source.
- The television speakers are automatically muted.
- You can control the volume setting using the volume or mute button on the TV’s remote control. (The volume level is displayed on this unit’s FL display.)
- To cancel muting, you can also use the stereo system remote control (⇒ Muting the volume, page 13)
- If you turn off the stereo system, television speakers will be automatically activated.

TV

Television speakers are active.

- The volume of the stereo system is set to “0”.
 - This function works only when “DVD/CD”, “USB” or “AUX” is selected as the source on the stereo system.
- Audio output is 2-channel audio.

- When switching between the stereo system and television speakers, the TV screen may be blank for several seconds.

Auto input switching

- When you switch the television input to:
 - TV tuner mode, the stereo system will automatically switch to “AUX”.
 - HDMI input mode for the stereo system, the stereo system will automatically switch to “DVD/CD” if it is “AUX” mode.
- When you start disc play, the television will automatically switch to the HDMI input mode for the stereo system.

Power off link

When the television is turned off, the stereo system goes into standby mode automatically.

- This function works only when “DVD/CD”, “USB” or “AUX” is selected as the source on the stereo system.
- When the television is turned on, the stereo system does not turn on automatically. (Power on link is not available.)

Note

Only the stereo system turns off when you press [⏻] for shutting it down. Other connected equipment compatible with VIERA Link “HDAVI Control” stays on.

Using the VIERA Link "HDAVI Control™"

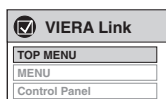
VIERA Link Control only with TV's remote control (for "HDAVI Control 2")

You can control the disc menus of the stereo system with the TV's remote control when using the "DVD/CD" or "USB" source. When operating the TV's remote control, refer to the below illustration for operation buttons.

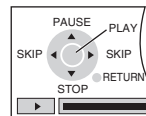
- 1 Select the stereo system operation menu by using the television menu settings. (For details, refer to the operating instructions of your television.)
 - The stereo system will automatically switch to "DVD/CD" if it is in "AUX" mode.



- 2 Select the desired item.
 - **"TOP MENU"**: Shows a disc top menu (⇒ page 19, 20) or program list (⇒ page 21).
 - **"MENU"**: Shows a disc menu (⇒ page 19, 20) or playlist (⇒ page 21).



- **"Control Panel"**: The basic operations for discs are available.



Note

- Depending on the menu, some button operations cannot be performed from the TV's remote control.
 - "Control Panel" can be selected directly by using a button on the TV's remote control (e.g. [OPTION]).
- While recording, these functions are not available:
- One Touch Play, Auto input switching, Speaker control, Power off link, VIERA Link Control only with TV's remote control (for "HDAVI Control 2").

Using other equipment

Before connection

- Disconnect the AC mains lead.
- Turn off all equipment and read the appropriate operating instructions.
- The equipment connections described are examples only.
- Peripheral cables and equipment are sold separately unless otherwise indicated.

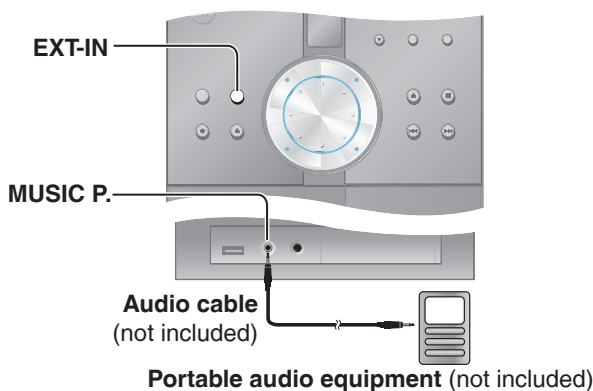
Using the Music Port

You can playback sound from portable audio equipment. Sound from the speaker may be distorted if the portable audio equipment's equalizer (if any) is turned on. Turn it off before you plug into the MUSIC PORT jack. (There is no output from REC OUT.)

Preparation:

Reduce the volume of the unit and portable audio equipment before connecting or disconnecting.

- 1 **Connect the portable audio equipment.**
Plug type: Ø3.5 mm stereo



- 2 **Press [EXT-IN] to select "MUSIC P."**

The unit comes on.

Every time you press the button:
MUSIC P. → AUX → AV

- 3 **Play the portable audio equipment.**

(For details, refer to the external unit's instruction manual.)

For recording, ⇒ page 33.

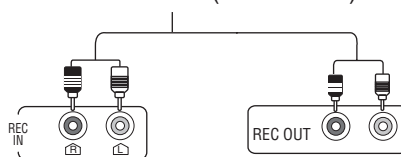
Note

To avoid damage to the speakers, do not maximize the volume level of portable audio equipment or this unit.

Recording to other equipment

SC-NC9

Audio cable (not included)

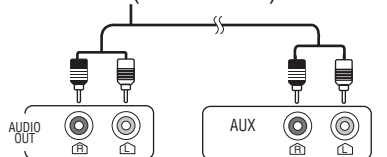


Video cassette recorder

Back of this unit

Audio connection for video cassette recorder or television.

Audio cable (not included)



Television/
Video cassette recorder

Back of this unit

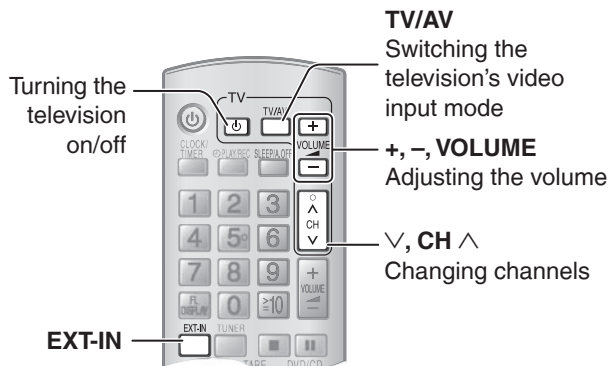
This audio connection enables you to play audio from your video cassette recorder or television through your DVD stereo system.

Press [EXT-IN] (⇒ page 13) to select "AUX" as the source to operate the audio output.

Using other equipment

Operating a television

Aim at the remote control at the television for the following operations.



To play audio from your television through this unit's speakers.

For SCART (AV) terminal connection ➡ page 10.
For AUX terminal connection ➡ page 38.

Press [EXT-IN] to select "AV" or "AUX".

Every time you press the button:

MUSIC P. → AUX → AV

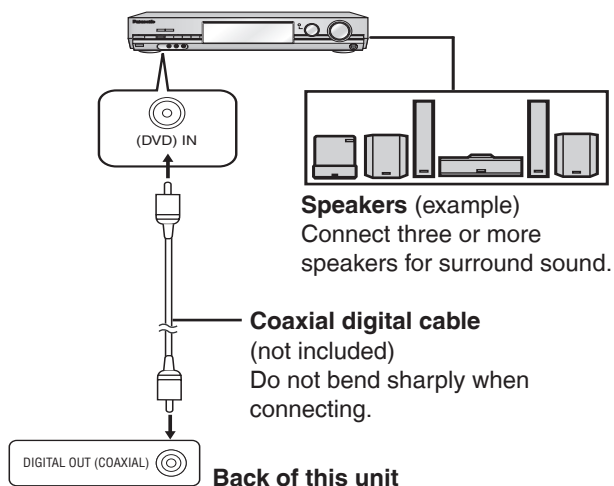
Reduce the volume on the television to its minimum, and control the volume on this unit.

Note

- The remote control may not work properly with some models.

*AV only works when the scart cable is connected.

Home theater - Enjoying more powerful sound



SC-NC6

Enjoy the powerful movie theater and hall-like sound available with multiple channel audio found on DVD-Video by connecting an amplifier and speakers.

Recording Output

- With DVD, the following conditions must be met:
 - the disc doesn't have protection preventing digital recording
 - the recording equipment can handle signals with a sampling frequency of 48 kHz

When recording DVDs, make the following settings.

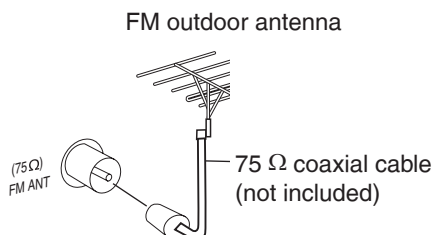
- PCM Digital Output: Up to 48 kHz (➡ page 28)
- MPEG: PCM (➡ page 28)

Using an outdoor antenna (optional)

Use outdoor antennas if radio reception is poor.

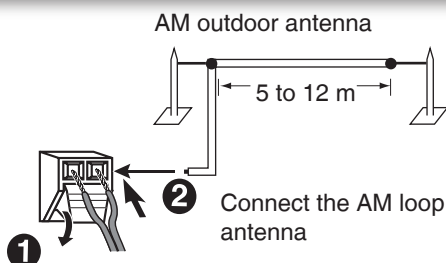
- Disconnect the outdoor antenna when the unit is not in use.
- Do not use the outdoor antenna during a lightning storm.

FM outdoor antenna (using a television antenna)



- Disconnect the FM indoor antenna.
- The antenna should be installed by a competent technician.

AM outdoor antenna



- Run a piece of vinyl wire horizontally across a window or other convenient location.
- Leave the loop antenna connected.

Using other equipment

Using the USB playback function

WMA MP3 JPEG MPEG4

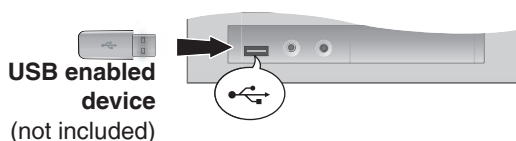
The USB connectivity enables you to connect and play tracks or files from USB mass storage class devices. Typically, USB memory devices. (Bulk only transfer)

Preparation

Before connecting any USB mass storage device to the unit, ensure that the data stored therein has been backed up.

It is not recommended to use a USB extension cable. The USB device is not recognized by this unit.

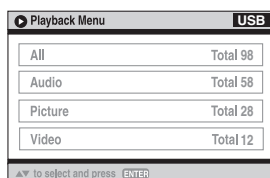
1 Connect the USB mass storage device (not included).



It is not recommended to use a USB extension cable. The device connected via the cable will not be recognized by this unit.

2 Press [USB] to show USB menu.

Example:



3 Press [+ VOLUME -] to adjust the volume of this unit.

4 Begin playback by selecting the track from the USB mass storage device.

• To return to the previous screen

Press [RETURN]

- Other basic operations, ➡ "Playing Discs", page 16 to 30.

■ Compatible Devices

• Devices which are defined as USB mass storage class

- USB devices that support bulk only transfer.
- USB devices that support USB 2.0 full speed.

■ Supported formats

	Filename	File extension
Still picture	JPG	.jpg .jpeg
Music	MP3	.mp3
	WMA	.wma
Video	MPEG4 [#]	.asf

[#]For Panasonic D-Snap/DIGA

Note

Maximum number of folders	400
Maximum number of files	4000
Maximum length of folder name	44
Maximum length of file name	44

- CBI (Control/Bulk/Interrupt) is not supported.
- Digital Cameras that use PTP protocol or which require additional program installation when connected to a PC are not supported.
- A device using NTFS file system is not supported. [Only FAT12/16/32 (File Allocation Table 12/16/32) file system is supported.]
- Depending on the sector size, some files may not work.
- It will not operate with Janus enabled MTP (Media Transfer Protocol) devices.
- Only one memory card will be selected when connecting a multi-port USB card reader. Typically the first memory card inserted.

Avoiding interference with other Panasonic equipment

Other Panasonic audio/video equipment may start functioning when you operate the unit using the supplied remote control.

You can operate this unit in another mode by setting the remote control operating mode to "REMOTE 2".

This unit and remote control must be set to the same mode.

- 1 Press and hold [EXT-IN] on this unit and [2] on the remote control until this unit's display shows "REMOTE 2".
- 2 Press and hold [ENTER] and [2] on the remote control for at least 2 seconds.

To change the mode back to "REMOTE 1", repeat both steps above by replacing [2] with [1].

Decoder

A decoder restores the coded audio signals on DVDs to normal. This is called decoding.

DivX

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

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.

Film and video

DVD-Videos are recorded using either film or video. Usually, film is recorded at 24 frames per second, the rate movies are filmed at, while video is recorded at 30 frames per second.

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.

HDMI (High-Definition Multimedia Interface)

HDMI is a next-generation digital interface for consumer electronic products. Unlike conventional connections, it transmits uncompressed digital video and audio signals on a single cable. This unit supports high-definition video output (720p, 1080i) from the HDMI AV OUT terminal. To enjoy high-definition video, a high-definition compatible television is required.

Interlace and progressive output

The PAL video signal standard has 576 interlaced (i) scan lines, whereas progressive scanning, called 576p, uses twice the number of scan lines. For the NTSC standard, these are called 480i and 480p respectively. Using progressive output, you can enjoy the high-resolution video recorded on media such as DVD-Video. Your television must be compatible to enjoy progressive video.

I/P/B

MPEG 2, the video compression standard adapted 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.

JPEG (Joint Photographic Experts Group)

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

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 faithful reproduction of the original sound.

WMA (Windows Media™ Audio)

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.

Troubleshooting guide

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

(HDMI function is only available for SC-NC9.)

■ Power		Page
No power.	• Insert the AC mains lead securely.	9
The unit is automatically switched to the standby mode	• The unit was switched to standby by the sleep timer or auto-off function.	36
■ Operation		
No response when any buttons are pressed.	• Some operations may be prohibited by the disc.	—
	• 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, press [⏻] to switch the unit to standby mode, disconnect the AC mains lead, and then reconnect it.	—
	• DivX If playing DivX VOD content, refer to the website where you purchased it. (Example: www.divx.com/vod)	5
No operations can be performed with the remote control.	• Check that the batteries are installed correctly.	11
	• The batteries are depleted: replace them with new ones.	11
	• Point the remote control at the remote control sensor and operate.	14
Play doesn't start (or stops immediately) when you press [▶], DVD/CD].	• Condensation has formed: wait 1 to 2 hours for it to evaporate.	—
	• This unit cannot play discs other than the ones listed in these operating instructions.	15
	• The disc may be dirty and may require cleaning.	5
	• Ensure that the disc is loaded with the label of the side to be played facing right.	16
	• Check that the DVD-RAM has something recorded on it.	—
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 on DivX video.	—
Cannot select random or program play.	• You cannot select random or program play with some DVD-Video.	—
Folders deeper than the eighth layer on a data disc are not displayed correctly.	WMA MP3 JPEG MPEG4 DivX	22
	• Folders deeper than the eighth layer are displayed as the eighth layer.	
You have forgotten your ratings password.	• While stopped and "DVD/CD" is the source, press and hold [■] on the unit and [≥10] on the remote control for about 3 seconds until "Initialised" disappears from the television. Turn the unit off and on again.	—
Reset all the Setup settings to the factory preset.	• All settings will return to the default values.	—
Cannot eject disc.	• The unit may not operate properly if the disc is damaged or dirty.	5
	• Press [⏻] and after the display disappears, wait a few seconds, then press [⏻] again and eject the disc.	—
The VIERA Link "HDAVI Control" function does not respond.	• Depending on the condition of the stereo system or the connected equipment, it may be necessary to repeat the same operation so that the function can work correctly.	—
■ Menu		
No menu play.	• This function is dependent on software availability.	—
Playback control menu doesn't appear. VCD (with playback control)	• Press [■] twice and then press [▶], DVD/CD].	—
Cannot access the Setup menu.	• Select "DVD/CD" as the source.	—
	• Cancel program and random play.	18
■ Subtitle		
No subtitles.	• This function is dependent on software availability.	—
	• Display the subtitle.	19
The position of the subtitles is incorrect.	• Change the position of the subtitles with "Subtitle Position" in the Display Menu.	26
Cannot select alternative languages.	• This function is dependent on software availability.	—
	• Try selecting from the disc's menu if one is available.	19

■ A-B repeat

Page

Point B is automatically set.

- The end of an item become point B when it is reached.

24

■ Markers

Cannot add markers.

- You cannot add markers with DVD-RAM or DVD-R/RW (DVD-VR) discs.
- You cannot add markers if the disc's elapsed play time doesn't appear on the unit's display.

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There are already markers.

- The unit reads and displays the markers added with a DVD video recorder. You can clear them but they will reappear when you switch the unit to standby, change the source, or open the disc tray.

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■ Sound

No sound. Distorted sound.

- Check the connections.
- Turn the volume up.
- There may be a pause in sound when you change the play speed.
- **DivX** Audio may not be output due to how files were created.
- When using the HDMI output, audio may not be output from other terminals.
- Audio may not be heard when more than 4 devices are connected with HDMI cables. Reduce the number of connected devices.
- When using the HDMI connection, ensure that "Audio Output" in the "HDMI" menu is set to "On".

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Effects do not work.

- Some audio effects do not work or have less effect with some discs.

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Humming 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.

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■ Picture

No picture.

- Check the connection.
- Ensure the television's video input setting is correct.
- While the HDMI cable is being used, there will be no video output from the SCART and COMPONENT VIDEO OUT terminals. If the SCART and COMPONENT VIDEO OUT terminals are to be used, remove the HDMI cable and power on/off this unit again.

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The picture on the television is not displayed correctly or disappears.

- The unit and television are using different video systems.
 - Use the multi-system or PAL television
- 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.)
- Mobile telephone chargers can cause some disturbance.
- If you are using a TV indoor antenna, change to an outdoor antenna.
- Ensure that the unit is connected directly to the television, and is not connected through a video cassette recorder.
- The television antenna wire is too close to the unit. Separate the antenna wire of the television from the unit.
- Change "Source Select" in Picture Menu. **DivX**
- Picture may not be seen when more than 4 devices are connected with HDMI cables. Reduce the number of connected devices.
- When using HDMI output, the video signal is progressive. Use other video connections if your television is not compatible with progressive video.
- If the picture is distorted or not displayed when using HDMI output, press and hold [CANCEL] until the picture is displayed correctly. (The output will return to "480p" or "576p".)
- When using SCART (AV) terminal, set "Video Mode" in the "HDMI" menu to "Off".
- When using component terminal, set "Video Out (AV/Component)" in the "Video" menu to "Video/YPbPr" or "S-Video/YPbPr".

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Picture size doesn't fit the screen.

- Change the "TV Aspect" in the "Video" tab.
- Change the Zoom setting.

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19, 26

Picture stops. **DivX**

- Picture may stop if the DivX files are greater than 2GB.

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		<i>Page</i>
Menu is not displayed correctly.	• Change the zoom ratio to “x1.00”. • Set “Subtitle Position” in Display Menu to “0”. • Set “4:3 Aspect” in Display Menu to “Normal”.	26 26 26
Auto zoom function does not work well.	• Turn off television’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.	– – –
■ HDMI or Progressive video		
There is ghosting when progressive output is on.	• Change “Video Output Mode” to “480i” or “576i” so “PRG.” on the display goes out. This problem is caused by the editing method or material used on DVD-Video, but should be corrected if you use interlace output. • Disable the HDMI AV OUT connection and use other video connections. Make the settings in the following order: 1. Set “Video Mode” in the “HDMI” menu to “Off”. 2. Set “Video Output Mode” in Picture Menu to “480i” or “576i”. (Alternatively, press and hold [CANCEL] to switch to “480i” or “576i”.)	24 29 24
Picture not in progressive output.	• Select “480p” or “576p” in “Video Output Mode” in Picture Menu. • If the unit is connected to the television through VIDEO OUT or S VIDEO OUT terminal, output will be interlace even if “PRG” is displayed.	24 9, 11
■ USB		
The USB drive or it’s contents cannot be read.	• The USB drive format or it’s contents is/are not compatible with the system. • The USB host function of this product may not work with some USB devices. • USB devices with storage capacity of more than 32 GB may not work in some instances.	40 – –
Slow operation of the USB device.	• Large file size or high memory USB device takes longer time to read and display on the TV.	–
■ Listening to the radio		
Distorted sound or noise is heard. “ST” flickers or doesn’t light.	• Adjust the position of the FM or AM antenna. • Use an outdoor antenna. • Press [PLAY MODE] to select “Mono”.	9 39 31
A beat sound is heard.	• Turn the television off or move it away from the unit.	–
A low hum is heard during AM broadcasts.	• Separate the antenna from other cables and cords.	–
■ Using the cassette deck		
Poor quality sound.	• Clean the heads.	45
Recording is not possible.	• If the erasure prevention tabs have been removed, cover the holes with adhesive tape.	33
■ Unit displays		
Although the unit is in standby mode, the display lights up and changes continuously.	• Turn off the demo function. (If you set the clock, the demo function turns off automatically.)	14
“NO PLAY”	• You inserted a disc or USB device which the unit cannot play; insert one that can. • You inserted a blank disc or USB device. • You inserted a disc that has not been finalized.	15, 40 – –
“NO DISC”, “NO USB”	• You haven’t inserted a disc or USB device; insert one. • You haven’t inserted the disc or USB device correctly; insert it correctly.	16, 40
“OVER CURRENT ERROR”	• The USB device is drawing too much power. Switch to DVD/CD mode, remove the USB and turn the unit off.	–
“F61”	• Check and correct the speaker cord connections. If this does not fix the problem, consult the dealer.	8
“F76”	• There is a power supply problem. Consult the dealer.	–

“DVD U11”	• Disc is dirty. Wipe it clean.	5
“ERROR”	• Incorrect operation performed. Read the instructions and try again.	—
		Page
“DVD H □□” “DVD F □□□” □ stands for a number.	• Trouble may have occurred. The number following “H” and “F” depend on the status of the unit. Turn the unit off and then back 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.	—
“U70 □ ” □ stands for a number. The actual number following “U70” will depend on the state of this unit.	• The HDMI connection acts unusually. – The connected equipment is not HDMI-compatible. – The HDMI cable is too long. – The HDMI cable is damaged.	— — —
“REMOTE 1” or “REMOTE 2”	• Match the modes on this unit and remote control. Depending on the number being displayed (“1” or “2”), press and hold [ENTER] and the corresponding numbered button ([1] or [2]) for at least 2 seconds.	40

■ Television displays

“⊗”	• The operation is prohibited by the unit or disc.	—
“Cannot display group xx, content xx.”	• You are trying to display incompatible contents.	—
“This disc may not be played in your region”	• Only DVD-Video discs that include or have the same region number as the one on the rear panel of this unit can be played.	Cover page
No on-screen display.	• Go to “Display” menu in the Setup menus, and select “On” for “On-Screen Messages”.	29
“Check the disc”	• The disc may be dirty.	5
“Authorization Error” [DivX]	• You are trying to play the DivX VOD content that was purchased with a different registration code. You cannot play the content on this unit.	5
“Rental Expired” [DivX] “Rental Movie Expired”	• The DivX VOD content has zero remaining plays. You cannot play it.	5
This unit’s screen saver remains.	• When using the HDMI connection, audio/video information is continually transferred between this unit and the television regardless of which source has been selected on this unit. This is normal.	—

Memory reset (Initialization)

When the following situations occur, reset the memory:

- There is no response when buttons are pressed.
- You want to clear and reset the memory contents.

1 Disconnect the AC mains lead. (Wait at least 3 minutes before proceeding to step 2.)

2 While pressing and holding down [⏻/I] on this unit, reconnect the AC mains lead.
“-----” appears on the display.

3 Release [⏻/I]

All the settings are returned to the factory preset.
You will need to reset the memory items.

Maintenance

To clean this unit, wipe with a soft, dry cloth.

- Never use alcohol, paint thinner or benzine to clean this unit.
- Before using chemically treated cloth, read the instructions that came with the cloth carefully.

For a cleaner, crisper sound (cassette deck)

Clean the heads regularly to assure good quality playback and recording. Use a cleaning tape (not included).

Specifications

■ AMPLIFIER SECTION

SC-NC9

RMS Output Power: Dolby Digital Mode

Front Ch	95 W per channel (3 Ω), 1 kHz, 10% THD
Surround Ch	95 W per channel (3 Ω), 1 kHz, 10% THD
Center Ch	95 W per channel (3 Ω), 1 kHz, 10% THD
Subwoofer Ch	115 W per channel (3 Ω), 100 Hz, 10% THD
Total RMS Dolby Digital mode power	590 W

DIN Output Power: Dolby Digital Mode

Front Ch	65 W per channel (3 Ω), 1 kHz, 1% THD
Surround Ch	65 W per channel (3 Ω), 1 kHz, 1% THD
Center Ch	65 W per channel (3 Ω), 1 kHz, 1% THD
Subwoofer Ch	75 W per channel (3 Ω), 100 Hz, 1% THD
Total DIN Dolby Digital mode power	400 W

SC-NC6

RMS Output Power: Dolby Digital Mode

Front Ch	90 W per channel (3 Ω), 1 kHz, 10% THD
Subwoofer Ch	90 W per channel (3 Ω), 100 Hz, 10% THD
Total RMS Dolby Digital mode power	270 W

DIN Output Power Stereo Mode

Front Ch	62 W per channel (3 Ω), 1 kHz, 1% THD
Subwoofer Ch	62 W per channel (3 Ω), 100 Hz, 1% THD
Total DIN Stereo mode power	186 W

■ FM/AM TUNER, TERMINALS SECTION

Preset memory	FM 30 stations AM 30 stations
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Frequency Modulation (FM)

Frequency range	87.50 MHz to 108.00 MHz (50-kHz step)
Sensitivity	4.0 μV (IHF)
S/N 26 dB	2.2 μV
Antenna terminals	75 Ω (unbalance)

Amplitude Modulation (AM)

Frequency range	522 kHz to 1629 kHz (9-kHz step)
AM sensitivity S/N 20 dB at 999 kHz	1000 μV/m

Digital audio output SC-NC6

Coaxial digital output	Pin jack
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Phone jack

Terminal	Stereo, 3.5-mm jack
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Music Port jack (Front)

Sensitivity	100 mV, 10 kΩ
Terminal	Stereo, 3.5-mm jack

USB Port

USB Standard	USB 2.0 full speed
Media file format support	MP3 (*.mp3), WMA (*.wma), JPEG (*.Jpg, *.JPEG), MPEG4 (*.asf)
USB device file system	FAT12, FAT16, FAT32
USB port power	Max 500mA

■ CASSETTE DECK SECTION

Track system

4-Track, 2 Channel

Head Record/Playback

Solid Permalloy Head
Double Gap Ferrite Head

Erase

DC Servo Motor

Recording System

AC Bias 100 kHz

Erase System

AC Erase 100 kHz

Tape Speed

4.8 cm/sec

Overall Frequency Response (+3, -6 dB) at DECK

OUT

Normal 35 Hz to 14 kHz

S/N Ratio

50 dB (A weighted)

Wow and Flutter

0.18% (WRMS)

Fast Forward and Rewind Time

Approx. 120 seconds with C-60 cassette tape

■ DISC SECTION

Disc played (8 cm or 12 cm)

- (1) DVD (DVD-Video, DivX^{#1,#2})
- (2) DVD-RAM (DVD-VR, JPEG^{#2,#3}, MP3^{#2,#4}, MPEG4^{#2,#5}, DivX^{#1,#2})
- (3) DVD-R (DVD-Video, DVD-VR, JPEG^{#2,#3}, MP3^{#2,#4}, MPEG4^{#2,#5}, DivX^{#1,#2})
- (4) DVD-R DL (DVD-Video, DVD-VR)
- (5) DVD-RW (DVD-Video, DVD-VR, JPEG^{#2,#3}, MP3^{#2,#4}, MPEG4^{#2,#5}, DivX^{#1,#2})
- (6) +R/ +RW (Video)
- (7) +R DL (Video)
- (8) CD, CD-R/RW [CD-DA, Video CD, SVCD^{#6}, MP3^{#2,#4}, WMA^{#2,#7}, JPEG^{#2,#3}, MPEG4^{#2,#5}, DivX^{#1,#2}, HighMAT Level 2 (Audio and Image)]

^{#1} Plays all versions of DivX[®] video (including DivX[®]6) with standard playback of DivX[®] media files. Certified to the DivX Stereo system Profile.

^{#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 x 120 and 6144 x 4096 pixels
(Sub sampling is 4:0:0, 4:2:0, 4:2:2 or 4:4:4). Extremely long and narrow pictures may not be displayed.

^{#4} MPEG-1 Layer 3, MPEG-2 Layer 3

^{#5} MPEG4 data recorded with the Panasonic SD multi cameras or DVD video recorders
Conforming to SD VIDEO specifications (ASF standard) / MPEG4 (Simple Profile) video system / G.726 audio system

^{#6} Conforming to IEC62107

^{#7} Windows Media Audio Ver. 9.0 L3
Not compatible with Multiple Bit Rate (MBR)

Pick up

Wavelength (DVD/CD) 662 nm/785 nm
Laser power (DVD/CD) CLASS 1 / CLASS 1M

Audio output (Disc)

Number of channels
SC-NC9 (FL, FR, C, SL, SR, SW), 5.1 ch
SC-NC6 (FL, FR, SW), 2.1 ch

■ VIDEO SECTION

Video system PAL625/50, PAL525/60, NTSC

Composite video output

Output level 1 Vp-p (75 Ω)
Terminal Pin jack (1 system)
Scart jack (1 system)

S-video output

Y output level 1 Vp-p (75 Ω)
C output level 0.3 Vp-p (75 Ω) (PAL)
0.286 Vp-p (75 Ω) (NTSC)
Terminal S terminal (1 system)
Scart jack (1 system)

Component video output

[NTSC: 480p / 480i, PAL: 576p / 576i]

Y output level 1 Vp-p (75 Ω)
 P_B output level 0.7 Vp-p (75 Ω)
 P_R output level 0.7 Vp-p (75 Ω)
Terminal Pin jack (Y: green, P_B : blue, P_R : red)
(1 system)

HDMI AV output **SC-NC9**

Terminal Type A connector (19-pin)
This unit supports "HDAVI Control 2" function.

■ SPEAKER SECTION

SC-NC9 Front speakers SB-PF9

Type 2 way, 2 speaker system (Bass reflex)
Speaker unit(s) Impedance 3 Ω
1. Woofer 16 cm Cone type
2. Tweeter 2.5 cm Dome type
Input power (IEC) 95 W (Max)
Output sound pressure 82 dB/W (1.0 m)
Cross over frequency 7 kHz
Frequency range 50 Hz to 40 kHz (–16 dB)
58 Hz to 32 kHz (–10 dB)
Dimensions (W x H x D) 201 mm x 383 mm x 277 mm
Mass 4.6 kg

SC-NC9 Surround speaker SB-PS9

Type 2 way, 2 speaker system (Bass reflex)
Speaker unit(s) Impedance 3 Ω
1. Woofer 16 cm Cone type
2. Tweeter 2.5 cm Dome type
Input power (IEC) 95 W (Max)
Output sound pressure 82 dB/W (1.0 m)
Cross over frequency 7 kHz
Frequency range 50 Hz to 40 kHz (–16 dB)
58 Hz to 32 kHz (–10 dB)
Dimensions (W x H x D) 201 mm x 383 mm x 277 mm
Mass 4.6 kg

Stack up assembly with front

Dimensions (W x H x D) max 260 mm x 791 mm x 295 mm
Mass 9.6 kg

SC-NC9 Center speaker SB-PC9

Type 2 way, 2 speaker system (Bass reflex)
Speaker unit(s) Impedance 3 Ω
1. Full range 6.5 cm Cone type
2. Full range 6.5 cm Cone type
Input power (IEC) 95 W (Max)
Output sound pressure 84 dB/W (1.0 m)
Cross over frequency 5 kHz
Frequency range 85 Hz to 25 kHz (–16 dB)
100 Hz to 22 kHz (–10 dB)
Dimensions (W x H x D) 380 mm x 113 mm x 105 mm
Mass 1.6 kg

Subwoofer SB-WNC9

Type 1 way, 1 speaker system (Bass reflex)
Speaker unit(s) Impedance 3 Ω
1. Woofer 17 cm Cone type
Input power (IEC) 115 W (Max)
Output sound pressure 80 dB/W (1.0 m)
Frequency range 42 Hz to 210 Hz (–16 dB)
46 Hz to 160 Hz (–10 dB)
Dimensions (W x H x D) 231 mm x 385 mm x 236 mm
Mass 5.2 kg

SC-NC6 Front speakers SB-PF6

Type 2 way, 2 speaker system (Bass reflex)
Speaker unit(s) Impedance High 3 Ω
1. Woofer 16 cm Cone type
2. Tweeter 2.5 cm Dome type
Input power (IEC) 95 W (Max)
Output sound pressure 82 dB/W (1.0 m)
Cross over frequency 7 kHz
Frequency range 50 Hz to 40 kHz (–16 dB)
58 Hz to 32 kHz (–10 dB)
Dimensions (W x H x D) 201 mm x 383 mm x 277 mm
Mass 4.6 kg

■ GENERAL

Power supply AC 230 to 240V, 50 Hz

Power consumption

SC-NC9 165 W
SC-NC6 125 W

Dimensions (W x H x D) 205 mm x 385 mm x 342 mm
Mass approx. 7.1 kg

Operating temperature range +5°C to +35°C
(+41°F to +95°F)
Operating humidity range 5% to 90% RH
(no condensation)

Power consumption in standby mode: approx. 0.9 W

Note

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

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.

CAUTION!

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

WARNING:

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

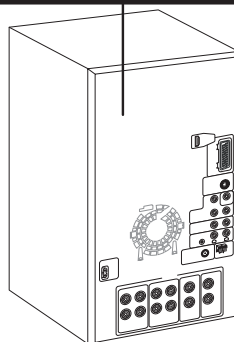
- DO NOT EXPOSE THIS APPARATUS TO RAIN, MOISTURE, DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.
- USE ONLY THE RECOMMENDED ACCESSORIES.
- DO NOT REMOVE THE COVER (OR BACK); THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

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

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.

THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

**CLASS 1
LASER PRODUCT**



(Back of product)

CAUTION	- LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM.	FDA 21 CFR 1 Class II
CAUTION	- CLASS 1M VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. RECORDERS-1 +A2 Class 1M	
WARNING	- KLASS 1M SYNJUG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRÄKTA EJ STRÅLEN DIREKT GENOM OPTISKT INSTRUMENT.	
FORSIGTIG	- SYNLIG OG USYNLIG LASERSTRÅLING KLASSE 1M. NÄR LÅGET ER ÅBENT, UNDGÅ AT SE UDGE PÅ MED OPTISKE INSTRUMENTER.	
VARO!	- HUUTASSA OLET ALTUUKA LUOKAN 1M NÄKYVÄÄ JA NÄKYMÄTÖNTÄ LASERSÄTELYÄ. ÄLÄ KATSO OPTISELLÄ LAITTEELLA SUORAAN SÄTEESEEN.	
VORSICHT	- SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG KLASSE 1M. WENN ABDECKUNG GEÖFFNET, NICHT DIREKT MIT OPTISCHEN INSTRUMENTEN BETRACHTEN.	
ATTENTION	- RAYONNEMENT LASER VISIBLE ET INVISIBLE. CLASSE 1M. EN CAS D'OUVERTURE, NE PAS REGARDER DIRECTEMENT A L'ŒIL D'INSTRUMENTS D'OPTIQUE.	
注意	- ここを開くと可視及び不可視レーザー光が出ます。 ビームを見たり、触れたりしないでください。	
注意	- 打开时有可见及不可见激光辐射。避免光束照射。	GB7241.1-2001108 类 RQLXS0075

(Inside of product)

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



This symbol on the products and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste.

For proper treatment, recovery and recycling, please take these products to designated collection points, where they will be accepted on a free of

charge basis. Alternatively, in some countries you may be able to return your products to your local retailer upon the purchase of an equivalent new product.

Disposing of this product correctly will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling. Please contact your local authority for further details of your nearest designated collection point.

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

For business users in the European Union

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

Information on Disposal in other Countries outside the European Union

This symbol is only valid in the European Union.

If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

Matsushita Electric Industrial Co., Ltd.

Web Site: <http://panasonic.net>

(En)

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