

Kingdom and Continental Europe.

Operating Instructions

DVD Home Theater Sound System

Model No. SC-HT878/SC-HT870 SC-HT520

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







Region number

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

Region	Number
The United Kingdom, Continental Europe, the Middle East, South Africa, Saudi Arabia and Kuwait	2
Southeast Asia	3
Australia and N.Z.	4
Russia	5

Example: The United Kingdom and Continental Europe





Note

"EB" on the packaging indicates the United Kingdom.

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EB E E GC GS GCS GN

Dear customer

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

HT878: indicates features applicable to SC-HT878 only. HT870: SC-HT870 only. HT520: SC-HT520 only.

- •These operating instructions are applicable to models SC-HT878, SC-HT870 and SC-HT520 for a variety of regions.
- •Unless otherwise indicated, illustrations in these operating instructions are of SC-HT520 for the United Kingdom and Continental Europe.
- •Operations in these instructions are described mainly with the remote control, but you can do the operations on the main unit if the controls are the same.

System	SC-HT878	SC-HT870	SC-HT520
Main unit	SA-HT878	SA-HT870	SA-HT520
Front speakers	SB-FS878	SB-PF921	SB-FS520
Center speaker	SB-PC878	SB-PC920	SB-PC520
Surround speakers	SB-FS878	SB-PS921	SB-FS520
Active subwoofer	SB-WA878	SB-WA870	SB-WA520

CAUTION!

THIS PRODUCT UTILIZES A LASER.

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

WARNING:

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE, DO NOT EXPOSE THIS APPARATUS TO RAIN, MOISTURE, DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.

CAUTION!

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

For the Middle East, South Africa, Southeast Asia, Saudi Arabia and Kuwait

THIS UNIT IS INTENDED FOR USE IN TROPICAL CLIMATES. For the United Kingdom, Continental Europe, Australia, N.Z. and Russia

THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

The socket outlet shall be installed near the equipment and easily accessible or the mains plug or an appliance coupler shall remain readily operable.

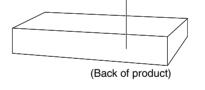
This product may receive radio interference caused by mobile telephones during use. If such interference is apparent, please increase separation between the product and the mobile telephone.



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



LUOKAN 1 LASERLAITE KLASS 1 LASER APPARAT



(For United Kingdom, Saudi Arabia and Kuwait)

("EB" and "GS" area code models only)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 5-ampere fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark or the BSI mark on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a

replacement cover is obtained.

A replacement fuse cover can be purchased from your local dealer.

CAUTION!

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFFLY

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.

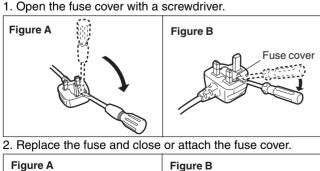
Before use

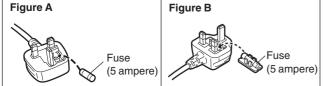
Remove the connector cover.

How to replace the fuse

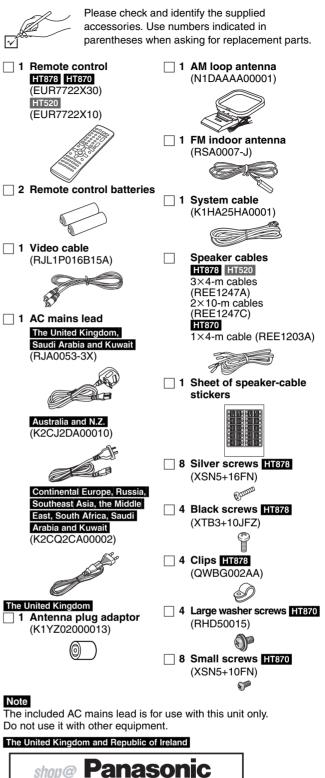
The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.

Illustrations may differ from actual AC mains plug.









www.panasonic.co.uk (for UK customers only)

- Order accessory and consumable items for your product with ease and confidence by telephoning our Customer Care Centre Mon–Friday 9:00am–5:30pm. (Excluding public holidays.) Or go on line through our Internet Accessory ordering
- application
- 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!
- Customer Care Centre
- For UK customers: 08705 357357
- For Republic of Ireland customers: 01 289 8333

Technical Support

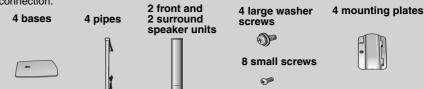
For UK customers: 0870 1 505610

This Technical Support Hot Line number is for Panasonic PC software related products only For Republic of Ireland, please use the Customer Care

Centre number listed above for all enquiries or all other product related enquiries, please use the Customer Care Centre numbers listed above.

Simple setup STEP T HI870

Make sure you have all the indicated components before starting the assembly, setup, and connection.



Front and surround speaker assembly

Note

The front and surround speaker pairs as well as the pipe pairs are different

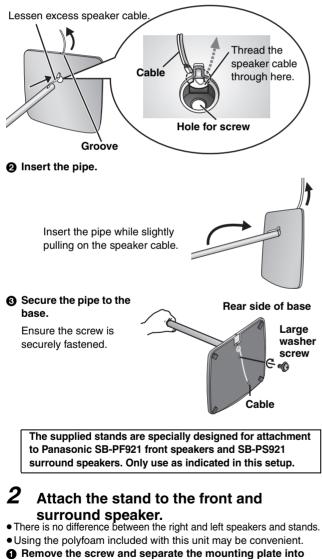
- Check the label on the rear of the speaker before attaching the pipe (> page 8).
- The pipe with the shorter cable is for the front speaker unit.

Preparation

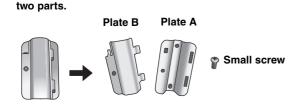
- To prevent damage or scratches, lay a soft cloth and perform assembly on it.
- For assembly, use a Phillips-head screwdriver.

1 Attach the pipe to the base.

1 Thread the speaker cable through the base.

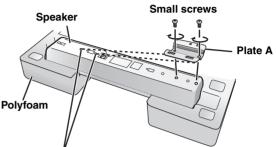






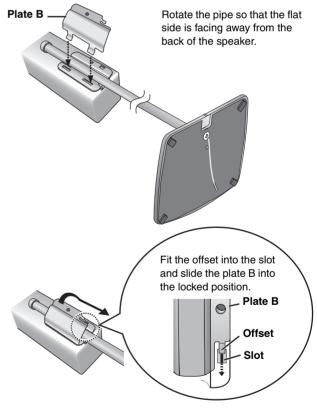
Attach the plate A to the speaker.

Ensure the plate A is fastened on straight by lightly tightening the top and bottom screws alternately until fully tightened.

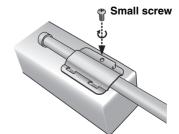


You can also attach to the upper rear of the speaker. The height of the speaker is indicated in the diagram (→ page 5) when attaching the plate A to the upper rear or lower rear of the speaker.

Place the pipe on the plate A and attach the plate B.



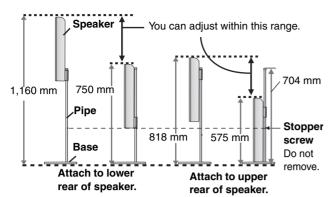
Secure the plate with the same screw removed in procedure 1.



Front and surround speaker assembly

Front and surround speaker height

(Assembled diagram)

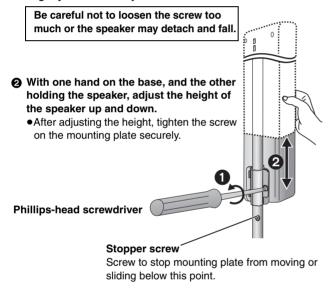


3 Adjust the speaker height.

• Check the screws you tightened on page 4.

e.g. Attaching the stand to the lower rear of the speaker

• Loosen the attached speaker mounting plate screw until the attached speaker is slightly loose and adjustable.



For your reference

You can enjoy good acoustics by adjusting the height of the speaker with the height of the television so the center positions of both are approximately the same.

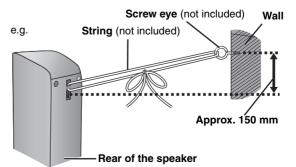


■ Preventing the speakers from falling over (Front and surround speakers)

Preparation

Attach screw eyes (not included) to secure the speakers to the wall (+diagram right).

- You will need to obtain the appropriate screw eyes to match the walls and pillars to which the screw eyes are going to be fastened.
- Consult with a qualified housing contractor concerning the appropriate procedure when attaching to a concrete wall or a surface that may not have strong enough support. Improper attachment may result in damage to the wall or speakers.
- Thread the string (not included) through the slot on the rear of the speaker to prevent it from falling over.
- O Loop the string through the screw eye and tie tightly.



4

Connect the speaker cables.

<u>∞</u> O

fully.

Push

Fasten the speaker cable to the base.

≪ X Insert the wire

Twist off the vinvl ends of

: Copper

Silver

Press the speaker cable into the groove.

If there is any excess speaker cable, detach the rubber cap on the top of

the speaker cable from the bottom of

the pipe and thread the speaker cable into the opening while pulling

the base.

Press the speaker

between the

hooks.

cable and thread

Rear side of base

5

the speaker cables.

Rear speaker

Ø Fit the speaker

base cover groove as far as

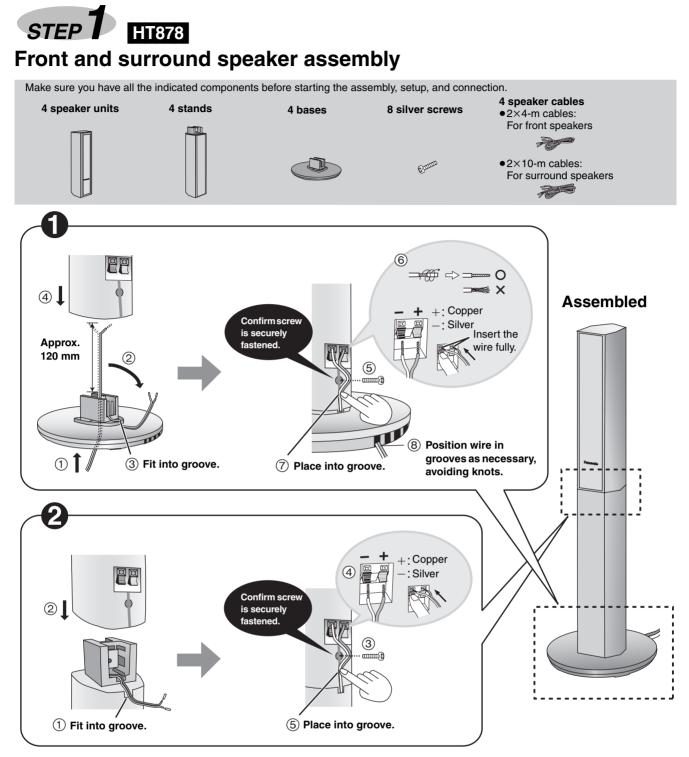
possible.

Cable

cable into the

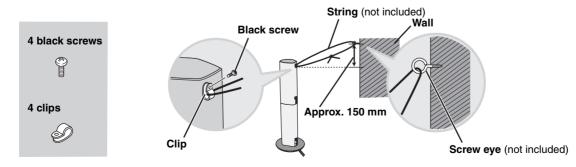
panel

RQT7429 5



• You can attach the speakers directly to their bases (if you want to put them on shelves, for example).

■ Preventing the speakers from falling over (Front and surround speakers)



Note

Consult with a qualified housing contractor concerning the appropriate procedure when attaching to a concrete wall or a surface that may not have strong enough support. Improper attachment may result in damage to the wall or speakers.

Other speaker setup options

HT878 (Center speaker only) HT870 HT520 Attaching to a wall

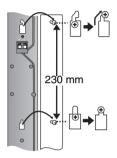
- Attaching to a wall
- Drive a screw (not included) into a wall.
- Pit the speaker securely onto the screw(s) with the hole(s).

- 30-35 mm ↓ Ø 7.5-9.4 mm +--| 8-11 mm Wall or pillar
- The wall or pillar on which the speakers are to be attached should be capable of supporting 10 kg per screw. Consult a qualified building contractor when attaching the speakers to a wall. Improper attachment may result in damage to the wall and speakers.

HT870

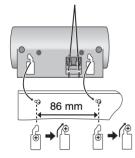
- When mounting the front and surround speaker to a wall, we recommend using a string (not included) to prevent it from falling (→ page 5).
 Use of optional speaker cables are recommended for wall-mounted front and surround speakers. (You can also remove the speaker cables
- Use of optional speaker cables are recommended from the pipes supplied with this system.)

Front and surround speakers HT870

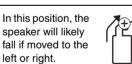


Center speaker HT520

So that the speaker fits up against the wall squarely, be sure to press the speaker cable down into the groove.







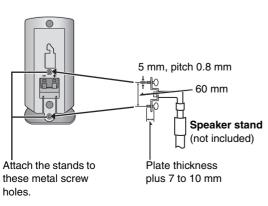
 Move the speaker so that the screw is in this position.

■ Fitting speaker stands (not included) HT676 HT670 (Center speaker only) HT520

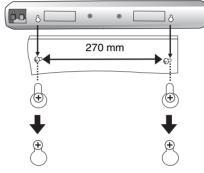
Ensure the stands meet these conditions before purchasing them.

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

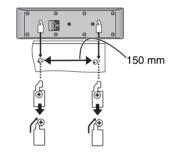
- •The stands must be able to support over 10 kg.
- The stands must be stable even if the speakers are in a high position.
- e.g. HT520 Front speaker



Center speaker HT878



Center speaker HT870





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

Place speakers on flat secure bases.
Placing speakers too close to floors, walls, and corners can result in excessive bass. Cover walls and windows with thick curtains.

• Place the front, center, and surround speakers at approximately the same distance from the seating position. The angles in the diagrams are approximate.

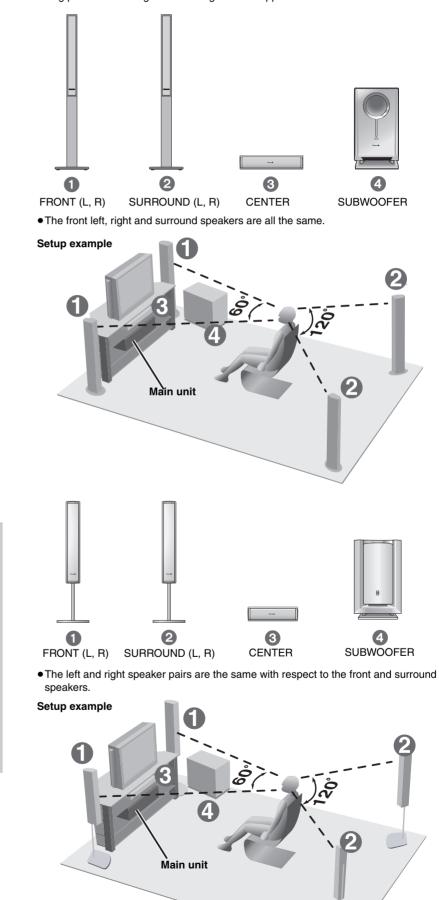


HT870

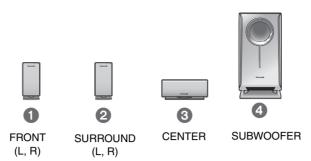
Do not use a front speaker as a surround speaker or vice versa. Verify the type of speaker with the label on the

Speaker labels

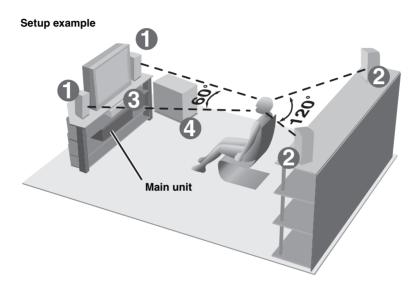
rear of the speaker.



HT520



• The front left, right and surround speakers are all the same.



Use only supplied speakers

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

Main unit

Note

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

Center speaker

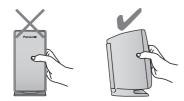
- Vibration caused by the center speaker can disrupt the picture if it is placed directly on the television. Put the center speaker on a rack or shelf.
- To prevent the speakers from falling, do not place directly on top of the television.

Subwoofer

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

Caution

Hold the speakers by the sides. Applying pressure to the front net can damage the speaker. e.g. HT520



Notes on speaker use

- You can damage your speakers and shorten their useful life if you play sound at high levels over extended periods.
- Reduce the volume in the following cases to avoid damage. - When playing distorted sound.
- When the speakers are receiving 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.

If irregular coloring occurs on your television

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

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

Caution

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

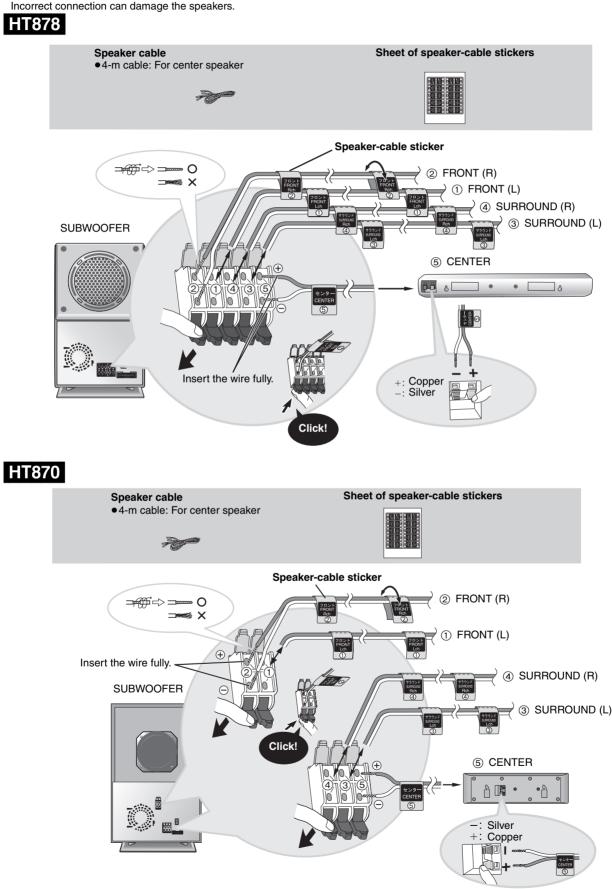


STEP3 Connecting speakers with the subwoofer

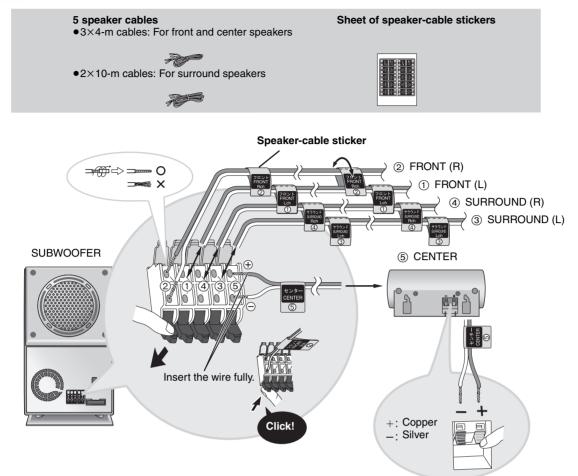
Attach the speaker-cable stickers to make connection easier.

Note

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

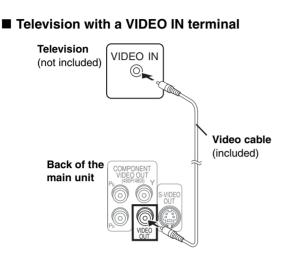


HT520

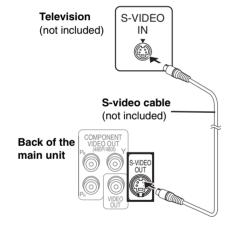




- Do not connect through the video cassette recorder. Due to copy guard protection, the picture may not display properly.
- Turn the television off before connecting, and refer to the television's operating instructions.



Television with an S-VIDEO IN terminal



S-VIDEO OUT terminal

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

COMPONENT VIDEO OUT terminals

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

 The description of the component video input terminals depends on the television or monitor (e.g. Y/P_B/P_R, Y/B-Y/R-Y, Y/C_B/C_R). Connect to terminals of the same color.

The United Kingdom, Continental Europe and Russia

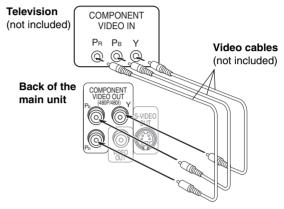
 When making this connection, select "Video/Y PB PR" or "S-Video/Y PB PR" from QUICK SETUP (→ page 14).

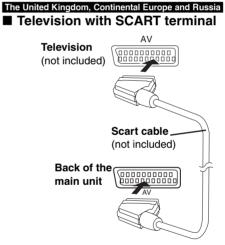
SCART (AV) terminal

To improve picture quality, you can change the video signal output from the SCART (AV) terminal from "Video" to either "S-Video" or "RGB" to suit the type of television you are using. Select "S-Video/ Y PB PR" or "RGB/No Output" from QUICK SETUP (→ page 14).



Television with COMPONENT VIDEO IN terminals





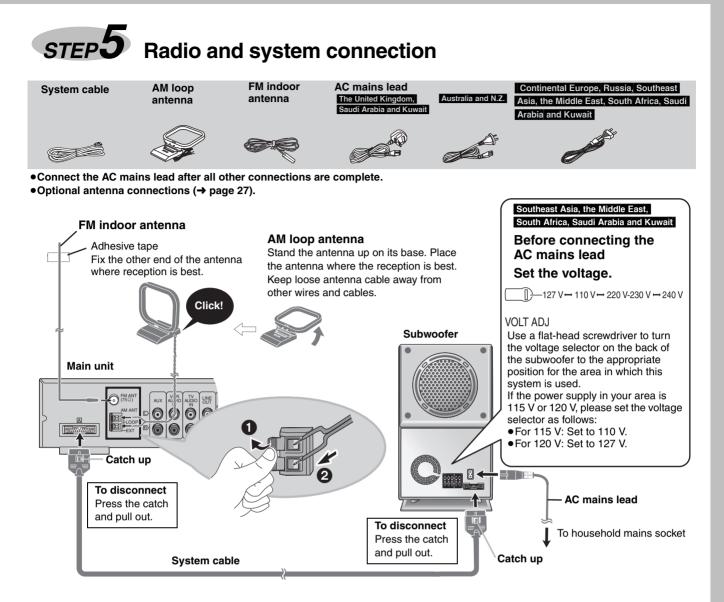
To enjoy progressive video

- Connect to the component video input terminals on a 480P compatible television. (Video will not be displayed correctly if connected to an incompatible television.)
- When playing NTSC discs, change video output mode to "480P" (→ page 23) or press [PROGRESSIVE] on the main unit so "PROG." appears on the display.

All Panasonic televisions that have 480P input connectors are compatible. Consult the manufacturer if you have another brand of television.

Note

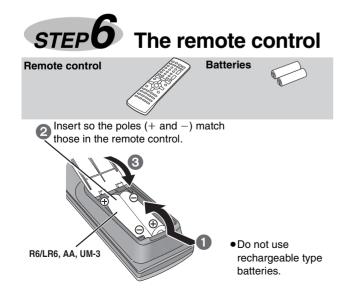
Output from this unit is interlace if you have connected to the television through the VIDEO OUT, S-VIDEO OUT or SCART (AV) terminal or when playing PAL discs, even if "PROG." is on the display.



Conserving power

The main unit consumes a small amount of power, even when it is turned off (For the United Kingdom, Continental Europe, Russia, Australia and N.Z.: approx. 0.7 W or for Southeast Asia, the Middle East, South Africa, Saudi Arabia and Kuwait: approx. 0.9 W). To save power when the unit is not to be used for a long time, unplug it from the household mains socket. You will need to reset some memory items after plugging in the unit.

The United Kingdom, Saudi Arabia and Kuwait BE SURE TO READ THE CAUTION FOR THE AC MAINS LEAD ON PAGE 3 BEFORE CONNECTION.



Do not:

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

• use batteries if the covering has been peeled off. Mishandling of batteries can cause electrolyte leakage which can damage items the fluid contacts and may cause a fire.

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

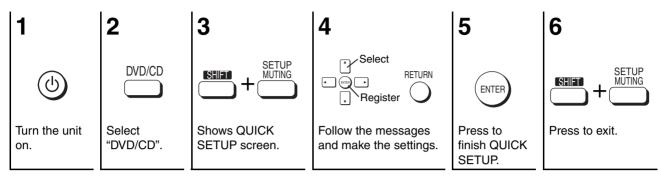
Use

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



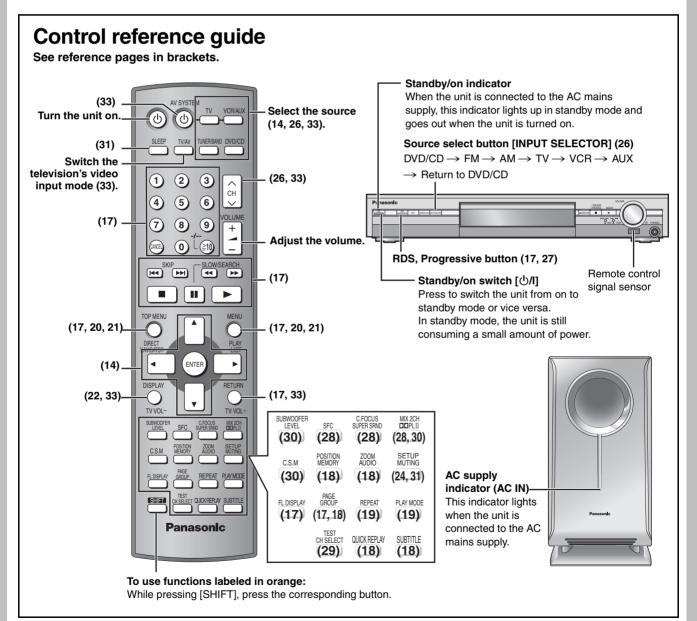
The QUICK SETUP screen assists you to make necessary settings.

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



To change these settings later

Select "QUICK SETUP" in "Others" tab (→ page 25).



Disc	Logo	Indication used in operating instructions		Remarks
DVD-RAM		RAM	Recorded using Version 1.1 of the Video Recording Format (a unified video recording standard).	 Recorded with DVD-Video recorders, DVD-Video cameras, personal computers, etc. Remove TYPE 2 and 4 discs from their cartridges before use.
	RAM4.7	JPEG	Recorded using the DCF (Design rule for Camera File system) standard.	 Recorded with Panasonic DVD-Video recorders. To play JPEG files, select "Play as Data Disc" in Other Menu (-> page 23).
DVD-Audio	AUDIO	DVD-A DVD-V	Some DVD-Audio discs contain DV To play DVD-Video content, select ⁶	D-Video content. "Play as DVD-Video" in Other Menu (→ page 23)
DVD-Video			_	
DVD-R	R R R4.7	DVD-V	Panasonic DVD-R recorded and fin DVD-Video cameras are played as	alized [*] on Panasonic DVD-Video recorders or DVD-Video on this unit.
Video CD		VCD	_	
SVCD		VCD	Conforming to IEC62107	
CD	DIGITAL AUDIO	CD	(A function which expands the dyna HDCD-encoded CDs sound better compared with 16 bits for all other (• During HDCD play, "HDCD" lights	because they are encoded with 20 bits, as CDs. s on the unit's display.
CD-R CD-RW		WMA MP3 JPEG CD VCD	the left. Close the sessions or fina • HighMAT discs WMA, MP3 or JPEG files only.	io recording disc) recorded with the formats on alize [®] the disc after recording. T function, select "Play as Data Disc" in Other

*A process that allows play on compatible equipment.

• It may not be possible to play the above discs in all cases due to the type of disc or condition of the recording.

Discs that cannot be played

DVD-ROM, CD-ROM, CDV, CD-G, DVD+R, +RW, DVD-RW, SACD, Divx Video Discs and Photo CD, DVD-RAM that cannot be removed from their cartridge, 2.6-GB and 5.2-GB DVD-RAM, and "Chaoji VCD" available on the market including CVD, DVCD and SVCD that do not conform to IEC62107.

Audio format of DVDs

This unit automatically recognizes and decodes discs with these symbols.

Video systems

- This unit can play PAL and NTSC, but your television must match the system used on the disc.
- PAL discs cannot be correctly viewed on an NTSC television.
- −This unit can convert NTSC signals to PAL 60 for viewing on a PAL television (→ page 24, "NTSC Disc Output" in "Video" tab).



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DOLBY

DIGITAL

Disc handling

To clean discs

DVD-A DVD-V VCD CD Wipe with a damp cloth and then wipe dry.

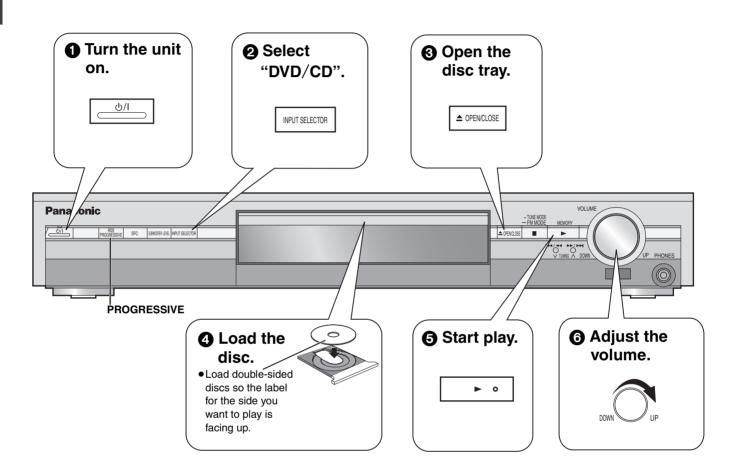


RAM DVD-R

- Clean with an optional DVD-RAM/PD disc cleaner (LF-K200DCA1, where available).
- (LF-K200DCAT, where available
- Never use cloths or cleaners for CDs, etc.

Disc handling precautions

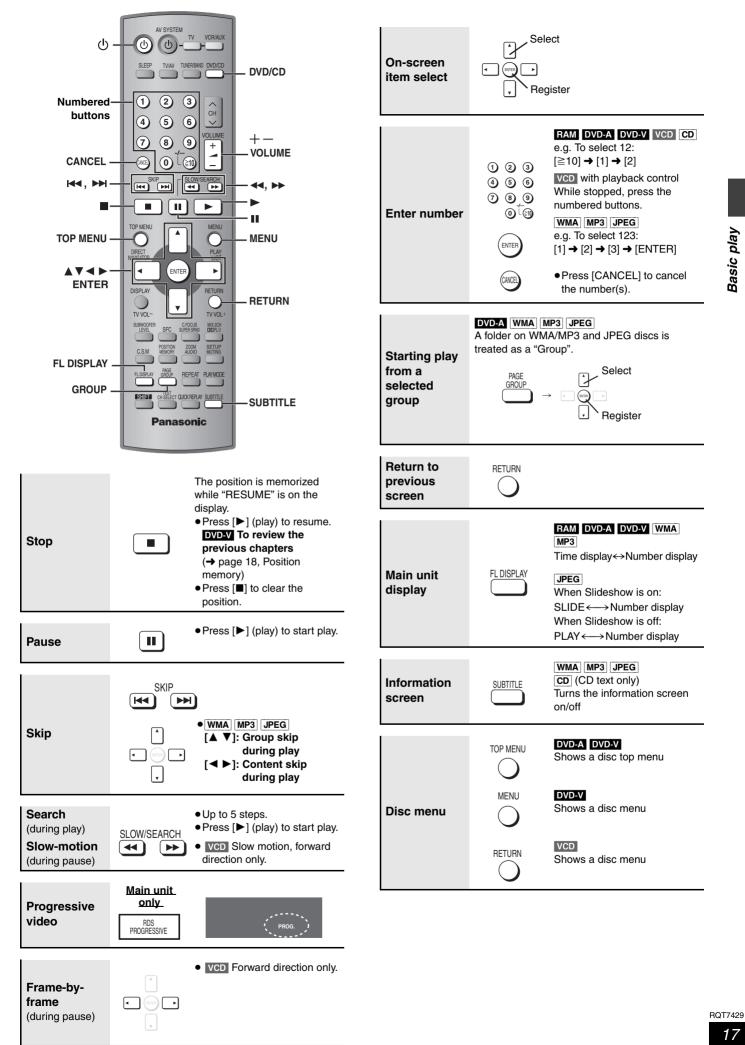
- Do not attach labels or stickers to discs (This may cause disc warping, rendering it unusable).
- Do not write on the label side with a ball-point pen or other writing instrument.
- Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
- Do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



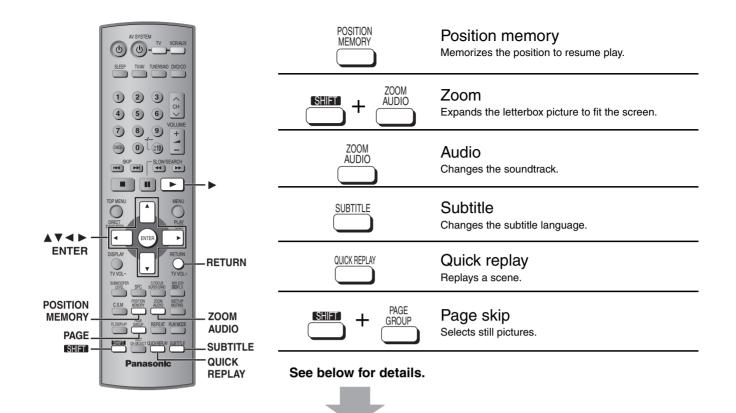
Note

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

If you are experiencing problems, refer to troubleshooting (→ page 38, 39).



Basic play



Position memory

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

This position is memorized even after turning off the unit, changing the source or changing the disc.

Press [POSITION MEMORY].

Position memorized -O= • • •

• Up to 5 discs.

• When the sixth disc is memorized, the earliest position is replaced. When the unit is turned on, "DVD/CD" is reselected or the disc is inserted, "RESUME" displays.

Press [▶] (play) to start play from that position.

To review the previous chapters DVD-V

Press [▶] (play) while the following message is displayed.



Press PLAY to Chapter Review

The beginning portions of each chapter up to the current one are played.
Do not press [▶] (play) if you want to cancel review.

Zoom

FAM DVDV VCD Press [SHIFT]+[ZOOM] several times to select the preset aspect ratio or "Auto". (Just Fit Zoom)



Fine adjustments (Manual Zoom) Press [◀ ►].

- -from $\times 1.00$ to $\times 1.60$ (in 0.01 units)
- -from $\times 1.60$ to $\times 2.00$ (in 0.02 units)
- Press and hold [◀ ▶] to alter faster.

Audio

DVD-A DVD-V (with multiple soundtracks) RAM VCD Press [AUDIO] several times to select the soundtrack.

RAM VCD

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

DVD-V (Karaoke discs) Press [◀ ►] to select "On" or "Off" of vocals. Read the disc's instructions for details.

Subtitle

DVD-V (with multiple subtitles) VCD (SVCD only)

TAM (On/Off only) Press [SUBTITLE] several times to select the subtitle language.



💿 Menu

1

Audio

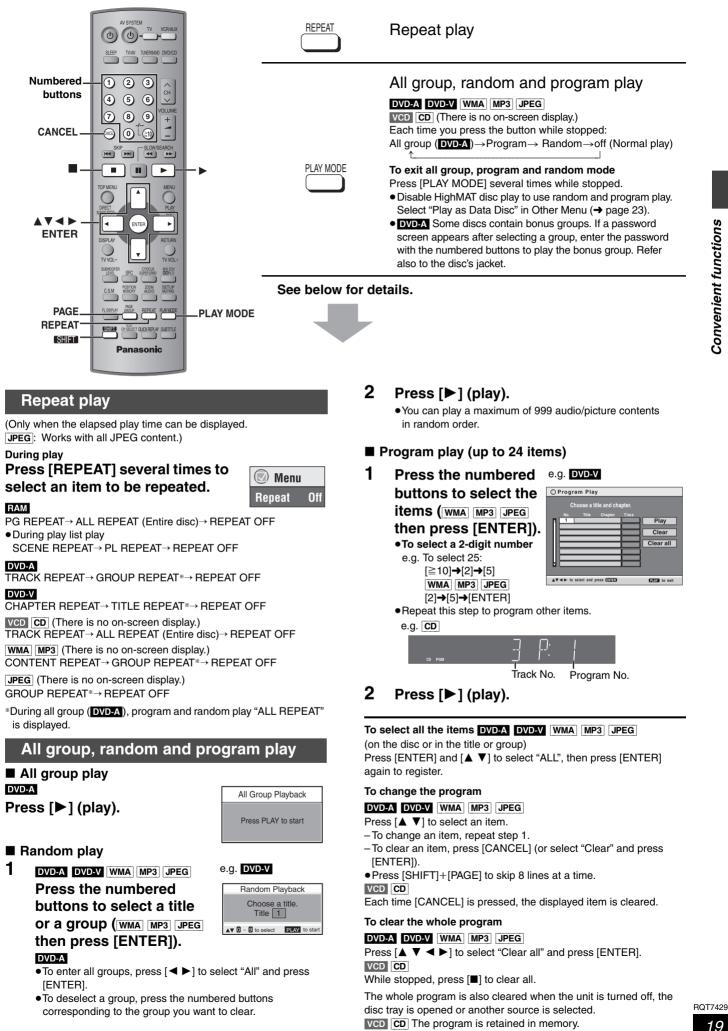
To clear/display the subtitles Press [◀ ▶] to select "On" or "Off".

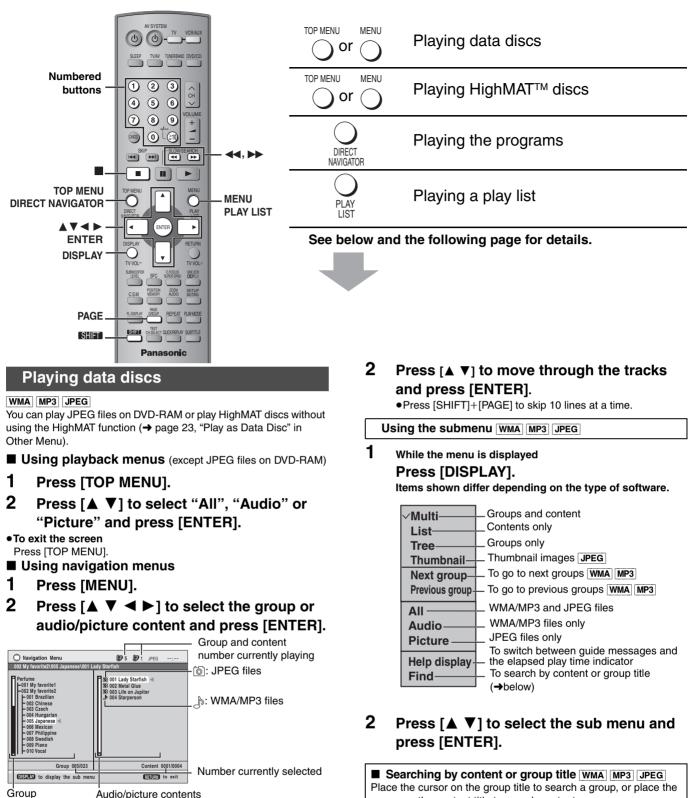
Quick replay

(Only when the elapsed play time can be displayed.) Press [QUICK REPLAY] to skip back a few seconds.

Page skip

DVD-A During play or while paused Press [SHIFT] + [PAGE]. The page changes each time you do this. • Press [RETURN] to go back to page 1.





- Group
- •To enjoy listening to WMA/MP3 contents while showing a JPEG image on the screen Select a JPEG file first, and then select tracks.
- (The opposite order is not effective.)
- To exit the screen
- Press [MENU].

To use the contents screen to find a track CD (CD text only)

1 Press [TOP MENU] or [MENU].



cursor on the content title to search contents. 1 Select "Find" (→ above).

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

Playing HighMAT[™] discs

WMA MP3 JPEG

1 While stopped

Press [TOP MENU].

2 Press $[\blacktriangle \lor \lhd \blacktriangleright]$ to select the item following the on-screen instructions.

e.a

Menu: Takes you to the next menu which shows play lists or another menu

Play list: play starts

•To change the menu background Press [DISPLAY].

The background changes to the one recorded on the disc. To exit the screen

- Press []].
- Selecting from the list
- 1 **During play** Press [MENU].

H음부		No.	Content title	
Playlist	- 6	1	Few times in summer	⊲
,	- 11	2	Less and less	
Group	- 11	3	And when I was born	
Content	- 11	4	Quatre gymnopedies	
	- 11	5	You've made me sad	
	- 11	6	I can't quit him	
	- 11	7	Evening glory	
	- 11	8	Wheeling spin	
	- 11	9	Velvet Cuppermine	
	- 11	10	Ziggy starfish	

- 2 Press [◀] then [▲ ▼] to switch among Playlist, Group and Content lists.
- 3 Press $[\blacktriangleright]$ then $[\land \lor]$ to select an item and press [ENTER].

• Press [SHIFT]+[PAGE] to skip 10 lines at a time.

•To exit the screen Press [MENU].

Tips for making WMA/MP3 and JPEG discs (For CD-R, CD-RW)

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

Naming folders and files

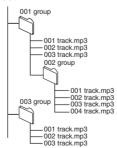
".WMA" or ".wma"

".MP3" or ".mp3"

At the time of recording, prefix folder and file names with 3-digit numbers in the order you want to play them (this may not work at times). Files must have the extension:

".JPG", ".jpg", ".JPEG" or ".jpeg"

e.g. MP3 root



Playing the programs

RAM

1 Press [DIRECT NAVIGATOR].

- Titles appear only if you have entered them. You cannot change
- program and disc titles.

2 Press [▲ ▼] or the numbered buttons to select the program.

• Press [SHIFT]+[PAGE] to skip 5 lines at a time.

- •To select a 2-digit number e.g. 23: [≧10] → [2] → [3]
 - ●Press [▶] to show the contents of the program and the disc.
- Press [ENTER].

3 •To exit the screen

Press [DIRECT NAVIGATOR].

Playing a play list

RAM

(Only when the disc contains a play list)

1 Press [PLAY LIST]. 2 Press [▲ ▼] or the numbered buttons to select the play list.

• Press [SHIFT]+[PAGE] to skip 10 lines at a time. • To select a 2-digit number e.g. 23: [≧10] → [2] → [3]



3 Press [ENTER].

•To exit the screen

Press [PLAY LIST].

WMA

You cannot play WMA files that are copy protected.

MP3

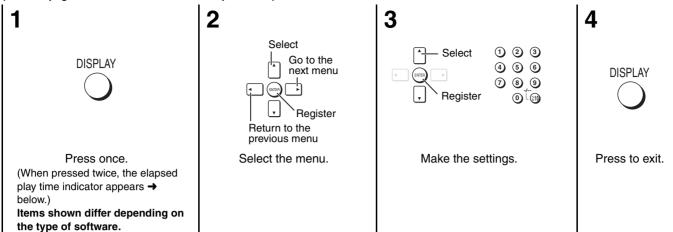
- This unit is not compatible with ID3 tags.
- •Compatible sampling rate: 8, 11.02, 12, 16, 22.05, 24, 32, 44.1 and 48 kHz

JPEG

- To view JPEG files on this unit:
- Take them on a digital camera that meets the DCF Standard (Design rule for Camera File system) Version 1.0. Some digital cameras have functions that are not supported by the DCF Standard Version 1.0 like automatic picture rotation which may render a picture un-viewable.
- -Do not alter the files in any way or save them under a different name.
- This unit cannot display moving pictures, MOTION JPEG and other such formats, still pictures other than JPEG (e.g. TIFF) or play associated sound.

Using on-screen menus

(Refer to page 14 for remote control button positions.)



Main Menu

			1
Program	To start from a specific item	Still Picture	To switch still picture
Group Title		Thumbnail	To show thumbnail images
Chapter		Subtitle	(→ page 18)
Track Playlist Content		Marker (VR)	FAM To recall a marker recorded on DVD-Video recorders
To skip incrementally or decrementally (Time Slip) 1 Press [ENTER] twice to show Time Slip indicator. 2 Press [▲ ▼] to select the time and press [ENTER]. ●Press and hold [▲ ▼] to alter faster. To start from a specific time (Time Search) To change remaining/elapsed time display	(Time Slip) 1 Press [ENTER] twice to show Time Slip		To recall a marker: $[\blacktriangle \lor] \rightarrow [ENTER]$
		Angle	(with multiple angles) To select the angle
	Rotate Picture	To rotate pictures	
	To start from a specific time (Time Search)	Slideshow	To turn on/off slideshow To change the slideshow timing (0–30 sec)
	(→ page 18)		
Audio	WMA MP3 To display the current bitrate or sampling frequency		

■Elapsed play time indicator (Except JPEG) Condition—play, pause, or slow/search Current position Current playback item Current playback item Press [▲ ▼] to select the elapsed play time or the remaining time.

Other Settings

DVD-A (Motion picture part) RAM DVD-V To change play speed – from × 0.6 to × 1.4 (in 0.1 unit steps)		A-B Repeat	Except JPEG RAM (Still picture part) To repeat a specified section Press [ENTER] at the starting and ending points. Press [ENTER] again to cancel.
 • After you change the speed - Output is in stereo. - Sampling frequency of 96 kHz is converted to 48 kHz. 		Except RAM To mark up to 5 positions to play again [ENTER] (The unit is now ready to accept	
 ■ Play Menu (Only when the elapsed play time can be displayed. JPEG: Works with all JPEG content.) Repeat (→ page 19) 		Marker	markers.) To mark a position: [ENTER] (at the desired point) To mark another position: [◀▶] → [ENTER]
			To recall a marker: [◀ ▶] → [ENTER] To erase a marker: [◀ ▶] → [CANCEL] • This feature does not work during program and random play.

Picture Menu

Picture Menu		
Picture Mode	Normal Cinema1: Mellows images and enhances detail in dark scenes. Cinema2: Sharpens images and enhances detail in dark scenes. Animation Dynamic User (Press [ENTER] to select "Picture Adjustment") (→ below) Picture Adjustment Contrast Brightness Sharpness Colour Gamma (Adjusts the brightness of dark parts.) Depth Enhancer Reduces the rough noise in the background to give a greater feeling of depth. This does not work while using Cinema1 or 2 (→ above).	
Video Output Mode	When playing NTSC discs ●480I (Interlace) ←→ 480P (Progressive)	
Transfer Mode	If you have chosen "480P" (→ above), select the method of conversion for progressive output to suit the type of material. Auto1(normal): For viewing film material Auto2: For viewing film material (the same as Auto1, but able to convert 30-frame- per-second progressive video) Video: For video material	
Audio Menu	1	
Dolby Pro Logic II	(→ page 28)	
Dialogue Enhancer	To make the dialogue in movies easier to hear DVD-V (Dolby Digital, DTS, MPEG, 3-channel or over, with the dialogue recorded in the center channel) On ←→ Off	
Multi Re-master	RAMDVD-V(Discs recorded with 48 kHz only)DVD-A(Discs recorded with 44.1 kHz and 48 kHz only)VCD-C(Discs recorded with 44.1 kHz and 48 kHz only)VCD-CDCD• During 2ch output of these discs, this feature gives you a more natural sound by adding the higher frequency signals not recorded on the disc, for example, playing DVD-Video recorded with 48 kHz at 96 kHz. (Sampling frequency \rightarrow page 35)• During multi-channel output of these discs, this feature reproduces the frequencies lost during recording to give you a sound closer to the original.WMAMP3(Disc recording is other than 8 kHz, 16 kHz, 32 kHz)This feature reproduces the higher frequencies lost during recording to give you a sound closer to the original. $1 \rightarrow 2 \rightarrow 3 \rightarrow Off$ $1 \rightarrow 2 \rightarrow 3 \rightarrow Off$ 2 VDFADVD-VCD(LPCM/PPCM)1High tempo (e.g., pop and rock)2Various tempos (e.g., jazz)3Low tempo (e.g., classical)Other discs1Light effect2Medium effect3Strong effect	

Display Menu

	-		
Information	On ←→ Off ([JPEG]: Off, Date, Details)		
Subtitle Position	0 to −60 (in 2 unit steps)		
Subtitle Brightness	Auto, 0 to -7		
	To select how to show images made for 4:3 aspect screens on a 16:9 aspect television		
4:3 Aspect	Normal: Horizontally 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 TV screen		
Manual Zoom	To zoom in and out manually		
Bitrate Display	RAM DVD-V VCD DVD-A (Motion picture part) On ←→ Off		
GUI See-through	On ←→ Off		
GUI Brightness	-3 to +3		
Other Menu			
Play as DVD-Video	While stopped • Select "Play as DVD-Video" to play DVD-Video contents of DVD-Audio.		
Play as DVD-Audio			
Play as DVD-VR, Play as HighMAT or	While stopped •Select "Play as Data Disc" to play JPEG files on DVD-RAM or to play a		
Play as Data Disc	HighMAT disc without using the		

Play as Data Disc

Signal type/data LPCM/PPCM/DDDigital/DTS/MPEG: Signal type kHz(Sampling frequency)/bit/ch(Number of channels)

Example: <u>3/2 .1</u>	ch 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

HighMAT function.

Changing the player settings

(Refer to page 14 for remote control button positions.) 5 Δ 3 1 2 Select Select Select 1 2 3 SETUE SETUE (4) (5) (6) SHIFT SHIFT MUTING MUTING 1 89 Go right Register Register 010 Shows Setup menu. Select the tab. Select the item. Make the settings. Press to exit. • The settings remain intact even if you switch the unit to standby. Item Underlined items are the factory preset. Setup The QUICK SETUP enables successive settings of the items in Tab Setting Disc Audio Ingli the shaded area. Subtitle Menus Audio English Rating Level 8 🗗 Oti ▲▼◀► to select and press "Disc" tab Audio • English (Language options)*1 Original^{*2} • Other****** Choose the audio language Subtitle • (Language options)*1 <u>Automatic</u>^{*4} English ● Other****** Choose the subtitle language. Menus • English • (Language options)*1 • Other ****** Choose the language for disc menus. Changing the menu language from QUICK SETUP also changes this setting. Ratings Setting ratings (When level 8 is selected) Set a ratings level to limit DVD-Video 8 No Limit • 1 to 7 • 0 Lock All: To prevent play of discs without ratings levels. play. Changing ratings (When level 0-7 is selected) Follow the on-screen instructions. Unlock Player Change Password Change Level Temporary Unlock *1 Language options *2 The original language designed on the disc is selected. Southeast Asia : Chinese *3 Input a code number referring to the table on page 34. Others : French, German, Italian, Spanish, Portuguese, Swedish *4 If the language selected for "Audio" is not available, subtitle and Dutch appears in that language (If available on the disc). "Video" tab • 4:3 Pan&Scan: Regular aspect television (4:3) **TV** Aspect Choose the setting to suit your The sides of the widescreen picture are cut off so it fills the screen (unless prohibited by the disc). television and preference. • 4:3 Letterbox: Regular aspect television (4:3) Widescreen picture is shown in the letterbox style. • 16:9: Widescreen television (16:9) **TV** Type Standard (Direct View TV) LCD TV/Projector CRT Projector Select to suit the type of television. Projection TV • Plasma TV **Time Delay** • 60ms •0ms • 20ms • 40ms • 80ms • 100ms When connected with a Plasma display, adjust if you notice the audio is out of sync with the video. Video Out (AV/Component)*5 Video/Y PB PR • S-Video/Y PB PR Choose the video signal format to be RGB/No Output output from the SCART (AV) and Component terminal. Still Mode Automatic • Field: The picture is not blurred, but picture quality is lower. Specify the type of picture shown • Frame: Overall quality is high, but the picture may appear blurred. when paused. **NTSC Disc Output** • PAL60: When connected to a PAL television Choose PAL 60 or NTSC output when NTSC: When connected to an NTSC television (Southeast Asia: "NTSC" is the factory preset.)

The United Kingdom, Continental Europe and Russia

playing NTSC discs (→ page 15)

■ "Audio" tab

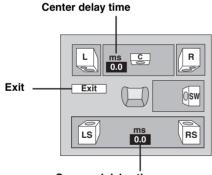
Dynamic Range Compression	 Off On: Adjust for clarity even when the volume is low through compressing the range of the lowest sound level and the highest sound level. Convenient for late night viewing. (Only works with Dolby Digital)
Audio during Search	● <u>On</u> ●Off
Speaker Setting (→ below) Set the delay time for your center and surround speakers.	•Center: <u>0.0</u> /1.0/2.0/3.0/4.0/5.0 ms •Surround (L/R): <u>0.0</u> /5.0/10.0/15.0 ms
■"Display" tab	
Menu Language	^{**6} ● <u>English</u> ● 中文 ^{**7} ● <u>English</u> ● Français ● Deutsch ● Italiano ● Español ● Português ● Svenska ● Nederlands
On-Screen Messages	● <u>On</u> ●Off
*6 Southeast Asia	*7 Except Southeast Asia
"Others" tab	
FL Dimmer	 Bright Dim Auto: The display is dimmed during play, but brightens when you perform some operations.
HighMAT	 Enable Disable (Unable to use the HighMAT function)
QUICK SETUP	● <u>Yes</u> ●No
Re-initialize Setting This returns all values in the Setup menus to the default settings.	 Yes: The password screen is shown if Ratings (→ page 24) are set. Please enter the same password. After "INIT" on the display disappears, turn the unit off and on again. No

Changing the delay time (Speaker Setting)

(Effective when playing multi-channel audio)

(Center and surround speakers only)

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



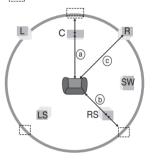
Surround delay time

1 Press [$\blacktriangle \nabla$] to select the delay time box and press [ENTER].

2 Press [\blacktriangle ∇] to adjust the delay time and press [ENTER].

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





(a) Center speaker

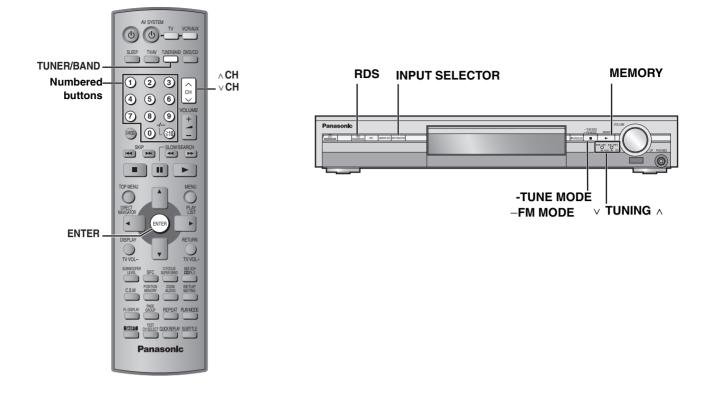
Difference	Setting
Approx. 34 cm	1.0 ms
Approx. 68 cm	2.0 ms
Approx. 102 cm	3.0 ms
Approx. 136 cm	4.0 ms
Approx. 170 cm	5.0 ms

(b) Surround speakers

Difference	Setting
Approx. 170 cm	5.0 ms
Approx. 340 cm	10.0 ms
Approx. 510 cm	15.0 ms

To finish the speaker setting

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



Automatic presetting

Up to 15 stations can each be set in the FM and AM bands. $\underline{\mbox{Main unit only}}$

- 1 Press [INPUT SELECTOR] to select "FM" or "AM".
- 2 Press [-TUNE MODE] to select "MANUAL".

Each time you press the button: MANUAL↔PRESET

Press [\vee TUNING] or [TUNING \land] to tune to the lowest frequency (FM: 87.50, AM: 522).

Southeast Asia, the Middle East, South Africa, Saudi Arabia and Kuwait : (AM: 522 or 520)

4 Press and hold [MEMORY]. Release the button when "FM AUTO" or "AM AUTO" is displayed.

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

- •"SET OK" is displayed when the stations are set. The last station to be set is then played.
- "ERROR" is displayed when automatic presetting is unsuccessful. Preset the channels manually (→ page 27).

Selecting the preset channels

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

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



When a stereo FM broadcast is being received.



■ If noise is excessive in FM <u>Main unit only</u> Press and hold [-FM MODE] to display "MONO".

UNED MONO

Press and hold [-FM MODE] again to cancel the mode. The mode is also canceled when you change the frequency.

3

Manual tuning

Main unit only

- 1 Press [INPUT SELECTOR] to select "FM" or "AM".
- 2 Press [-TUNE MODE] to select "MANUAL".
- 3 Press [∨ TUNING] or [TUNING ∧] to select the frequency.

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

Presetting the channel one by one

1 Tune to the station (\rightarrow above).

2 Press [ENTER].

3 While "PGM" is flashing on the display Press the numbered buttons to select a channel.

Alternatively, press [v CH] or [A CH], then press [ENTER].



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

AM frequency step

Main unit only

Southeast Asia, the Middle East, South Africa, Saudi Arabia and Kuwait The step is factory-set to 9 kHz, but you can change it to receive broadcasts allocated in 10-kHz steps.

- 1 Press [INPUT SELECTOR] on the main unit to select "FM".
- 2 Press and hold [INPUT SELECTOR]. After a few seconds, the display changes to show the current minimum frequency. Continue to hold the button down. The minimum frequency changes and the step is changed.
- To return to the original step, repeat the above steps.

Note

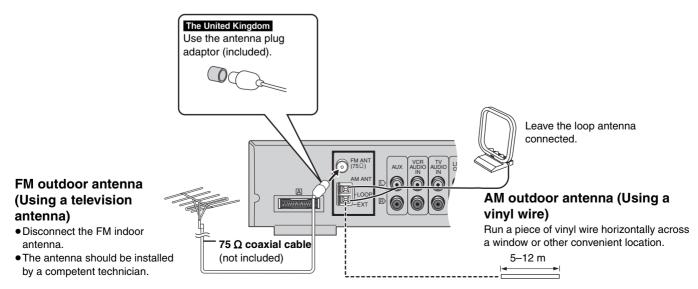
Any FM/AM frequencies preset in channels will be changed by this procedure. Preset them again.

Optional antenna connections

Use outdoor antennas if radio reception is poor.

Disconnect the antenna when the unit is not in use.

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



RDS broadcasting

The United Kingdom, Continental Europe and Russia

Main unit only

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"

Press [RDS] to display the text data.

Each time you press the button: PS \rightarrow PTY \rightarrow Frequency display

↑_____J

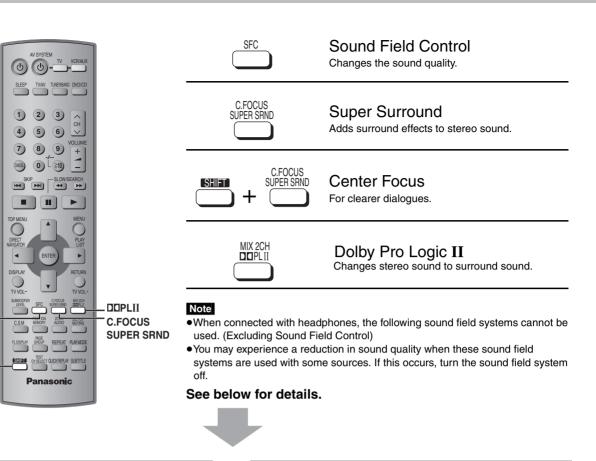
will light up on the display.

PTY displays			
NEWS	VARIED	FINANCE	COUNTRY
AFFAIRS	POP M	CHILDREN	NATIONAL
INFO	ROCK M	SOCIAL A	OLDIES
SPORT	M.O.R. M∗	RELIGION	FOLK M
EDUCATE	LIGHT M	PHONE IN	DOCUMENT
DRAMA	CLASSICS	TRAVEL	TEST
CULTURE	OTHER M	LEISURE	ALARM
SCIENCE	WEATHER	JAZZ	
*"M.O.R. M"=Mid	dle of the road m	usic	

Note

RDS displays may not be available if reception is poor.

rqt7429 **27**



Sound Field Control

SFC

SHIFT

Press [SFC].

Each time you press the button:

HEAVY: Adds punch to rock. CLEAR: Clarifies higher sounds.

SOFT:

For background music.

DISCO: Reverberates sound to make you feel like you are in a disco. LIVE: Makes vocals more alive.

- HALL: Expands sound to make you feel like you are in a hall.
- FLAT: Cancel (no effect is added) (factory preset).

To check the current setting Press [SFC]

Super Surround

Press [SUPER SRND].

- Each time you press the button: MUSIC: Adds surround effects to stereo sources
- MOVIE: Use this mode when playing movie software.
- PARTY: Sound is in stereo regardless of the direction you are facing
- (off): Cancel
- You can adjust the volume of the surround speakers to get the best surround effect (→ page 29, Speaker level adjustments).
- Super Surround does not work when playing a DVD recorded with Dolby Digital or DTS.
- ●When Super Surround is on, Dolby Pro Logic II (→ right) turns off.

Center Focus

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

Press [SHIFT]+[C.FOCUS].





CENTER FOCUS ON - CENTER FOCUS OFF

- This does not work when Super Surround is turned on.
- This will also work when Dolby Pro Logic II is turned on.

Dolby Pro Logic II

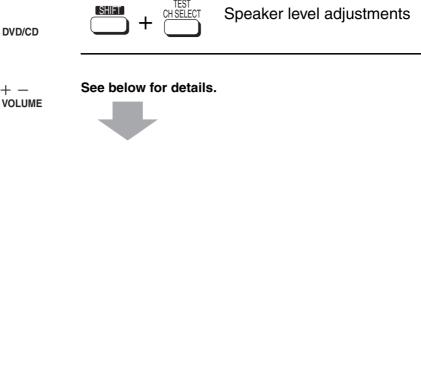
Dolby Pro Logic II is an advanced decoder that derives 5-channel surround (Left and Right Front, Center, Left and Right Surround) from any stereo program material, whether or not it has been specifically Dolby Surround encoded.

Press [DDPLII].

Each time you press the button: MOVIE: Movie software, recorded in Dolby Surround. MUSIC: Stereo sources OFF: Cancel



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



Speaker level adjustments

(ك) (ك)

1 2 3 CH

4) 5) 6 \sim

(7) 8 9 +

CAVCEL)

TV VOI SUBW

C.S.M

SHIFT TEST

CH SELECT

() L≥10

-

•

MIX 2CH

SETU

DVD/CD

+ -

This is one of the ways to get appropriate surround effects. Adjust the speaker level to the same level as the front speakers. Preparation Press [DVD/CD].

Panasonio

1

While stopped Press [SHIFT]+[TEST] to output a test signal. L: Front left

- C: Center
- R: Front right RS: Right surround LS: Left surround
- 2 Press [VOLUME, +] or [-] to set the volume level normally used for listening.
- 3 Press $[\blacktriangle]$ (increase) or $[\triangledown]$ (decrease) to adjust the speaker level for each speaker. C, RS, LS: -6 dB to +6 dB
 - (L, R: Only the balance is adjustable.)
 - •To adjust the balance of the front speakers
 - While outputting the test signal, press $[\blacktriangleleft \triangleright]$.

To stop the test signal

Press [SHIFT]+[TEST] again.

Note

There is no output from SW (subwoofer) channel.

To adjust speaker level during play

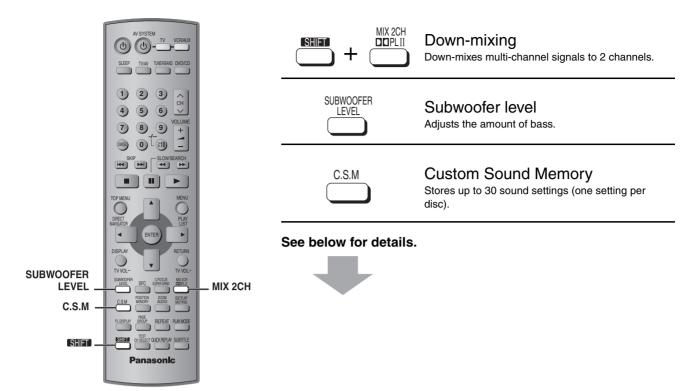
(Effective when playing multi-channel audio or Dolby Pro Logic II is on.)

1 Press [CH SELECT] to select the speaker.

 $L \!\rightarrow\! C \!\rightarrow\! R \!\rightarrow\! RS \!\rightarrow\! LS \!\rightarrow\! SW$

SW: Subwoofer

- You can adjust SW only if the disc includes a subwoofer channel.
- •SW does not appear on the display and is not adjustable when Dolby Pro Logic II is turned on.
- •S appears instead of RS and LS on the display when "MUSIC" or "MOVIE" is selected with Super Surround (-> page 28). In this case, you can adjust both surround speaker levels at the same time. S: -6 dB to +6 dB
- 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 During play, press [◀ ▶].



Down-mixing

You can output the down-mixed 2 channel signals when necessary (e.g. when you intend to record 5.1 ch sound on other recording equipment).

Press [SHIFT]+[MIX 2CH].



MIX 2CH ON \longleftrightarrow MIX 2CH OFF

Note

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

Subwoofer level

Press [SUBWOOFER LEVEL].

SUB W 1→SUB W 2→SUB W 3→SUB W 4 (factory preset)



Custom Sound Memory

DVD-A DVD-V VCD CD

Available sound setting: Subwoofer level, Center Focus, Sound Field Control, Super Surround

After making the sound field or sound quality settings **Press and hold [C.S.M].**



Recall the settings

The unit recalls the settings when you play the disc again.

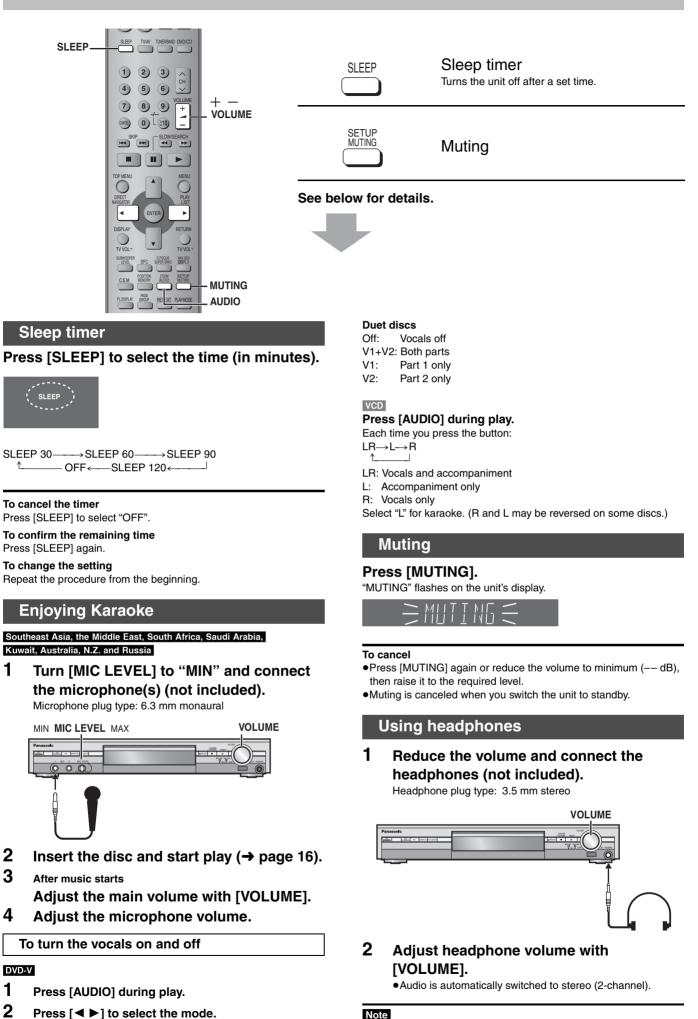
- The settings are replaced if you change them.
- When you store settings for the 31st disc, the settings for the earliest disc are cleared.
- Press [C.S.M] while "CSM" is displayed to cancel the sound setting for the disc.
- Press [C.S.M] while "CSM" is out to recall the sound setting for the disc.

Other functions

Solo discs

Off Vocals off

On: Vocals on

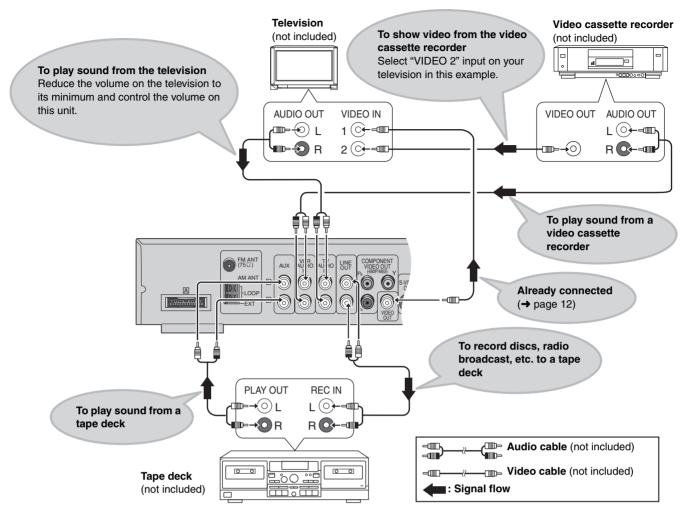


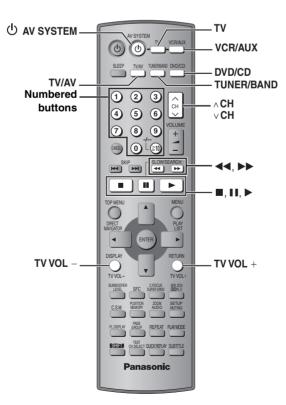
damage.

Avoid listening for prolonged periods of time to prevent hearing

Operating other equipment

Connection example





Download from Www.Somanuals.com. All Manuals Search And Download.

Operating the television and the video cassette recorder

You can use the remote control to operate a Panasonic television or a video cassette recorder. Connect your equipment referring to "Connection example" (> page 32).

Note

The remote control may not work properly with some models.

Television

Preparation

•Aim the remote control at the unit and press [TV] to light up the button

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

Turning the television on/off

Press [U AV SYSTEM].

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

Changing channels

Press [v CH] or [A CH].

Adjusting the volume

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

Changing the remote control code

HT878 HT870

This remote control can also operate some other brands of televisions, video cassette recorders. Change the code to operate such equipment (→ below).

Aim the remote control at the equipment.

While pressing [TV] or [VCR/AUX]

Press a numbered button to enter the first digit, and then the second digit.

The remote control outputs the on/off signal. If the code is correct, the equipment turns on or off. If it doesn't, try entering another code.

Note

Reenter the codes after you change the batteries.

Video cassette recorder

Preparation

- •Change the video input mode on the television ("VIDEO 2" in the example).
- •Aim the remote control at the unit and press [VCR/AUX] to light up the button.
- •Aim the remote control at the video cassette recorder for the following operations.

Turning the video cassette recorder on/off Press [U AV SYSTEM].

Play, pause and stop Press [▶] (play), [**II**] or [**I**].

Fast forward and rewind Press [◀◀] or [▶▶].

Connecting a laser disc or record player

Connect instead of a video cassette recorder (→ page 32) and select "VCR" as the source.

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

Operating the tape deck

Listening to the tape deck

Press [VCR/AUX] several times to select "AUX" as the source.

Recording to the tape deck

1 Press [DVD/CD] to select "DVD/CD".

Press [TUNER/BAND] to select "FM" or "AM".

2 Start recording and play.

HT878 HT870

Television code list		Video cassette recorder o	code list
PANASONIC: 01, 29, 30, 31 AKAI: 07, 11, 28, 36, 37 ALBA: 05, 11, 12 BAUR: 32 BLAUPUNKT: 28, 36 BRANDT: 26, 41 BUSH: 02, 05, 10, 11, 12, 32 DAEWOO: 11, 12, 32 DUAL: 32 FERGUSON: 11, 12, 32 DUAL: 32 FISHER: 37 FUNAI: 02, 38 GOLDSTAR: 11, 12, 25, 32 GRUNDIG: 28, 36 HITACHI: 01, 09, 26, 41 ICE: 21, 39 INNO HIT: 34 ITT/NOKIA: 05, 07, 37 JVC: 18 KENDO: 40 LOEWE: 14, 33	NOKIA: 05, 07, 37 NORDMENDE: 26, 41 OCEANIC: 27, 35 ORION: 02, 03, 05, 10, 11, 12, 38 PHILIPS: 11, 12, 13, 15 PHONOLA 11, 12 RADIOLA: 11, 12, 15, 21, 25, 37 SABA: 26, 41 SALORA: 07, 37 SAMSUNG: 11, 12, 15, 21, 25, 37 SCHNEIDER: 11, 12 SEG: 39, 40 SELECO: 11, 24 SHARP: 17, 20 SIEMENS: 11, 12, 17, 28, 36 SINUDYNE: 02, 05, 11, 12, 22, 24, 38, 40 SONY: 16 THOMSON: 05, 26, 41 THORN: 06, 08, 11, 12, 14, 4	PANASONIC: 01, 29, 30 AKAI: 06, 08, 16, 17, 19, 37 ALBA: 02, 06, 23 BAIRD: 08, 10, 37 BLAUPUNKT: 01, 26, 29, 30, 33 BUSH: 02, 09, 23 DAEWOO: 15 FERGUSON: 31 FISHER: 05, 07, 10, 11, 12 GOLDSTAR/LG: 03, 04, 36, 37 GOODMANS: 02, 23, 26, 28, 32, 33 GRUNDIG: 02, 23, 26, 28, 32, 33 HITACHI: 13, 14 ITT: 08, 10, 11, 37 ITT/NOKIA: 18, 27, 37 JVC: 20, 21 KENDO: 08, 09, 37 LOEWE: 03, 32 LUXOR: 08, 10, 11, 17, 19, 37 MATSUI: 03, 05, 09	Code list NORDMENDE: 20, 21 OKANO: 06 ORION: 05, 09 PHILIPS: 22, 32, 33, 34, 35 PHONOLA: 32 RFT: 33 ROADSTAR: 02, 03, 18, 23, 27 SABA: 21 SALORA: 08, 11, 17, 19, 37 SAMSUNG: 15, 16, 18, 27 SAMYO: 07, 10, 11 SCHNEIDER: 02, 03, 18, 23, 27, 32 SEG: 02, 18, 23, 27 SHARP: 22 SIEMENS: 03, 10, 11, 32 SONY: 24, 25, 26 THOMSON: 21 THORN: 10 TOSHIBA: 15, 17, 19, 32 UNIVERSUM: 03, 08, 32, 37
LOEWE OPTA: 32 LUXOR: 37 MATSUI: 02, 05, 06, 07, 10, 11, 12, 25, 37, 38 MITSUBISHI: 14, 19, 28, 36	TOSHIBA: 03, 04, 06, 08 UNIVERSUM: 39 WHITE WESTING HOUSE: 11, 12, 22, 40	METZ: 01 MITSUBISHI: 17, 19, 21, 32 NEC: 04, 21, 36, 37 NOKIA: 08, 10, 11, 18, 22, 27, 37	

RQT7429

Placement

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

Do not place heavy items on the unit.

Voltage

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

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

AC mains lead protection

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

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

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

Maintenance

Clean this unit with a soft, dry cloth.

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

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

-			
Abkhazian:	6566	Lingala:	7678
Afar:	6565	Lithuanian:	7684
Afrikaans:	6570	Macedonian:	7775
Albanian:	8381	Malagasy:	7771
Ameharic:	6577	Malay:	7783
Arabic:	6582	Malayalam:	7776
Armenian:	7289	Maltese:	7784
Assamese:	6583	Maori:	7773
Aymara:	6588	Marathi:	7782
Azerbaijani:	6590	Moldavian:	7779
Bashkir:	6665	Mongolian:	7778
Basque:	6985	Nauru:	7865
Bengali; Bangla:	6678	Nepali:	7869
Bhutani:	6890	Norwegian:	7879
Bihari:	6672	Oriya:	7982
Breton:	6682	Pashto, Pushto:	8083
Bulgarian:	6671	Persian:	7065
Burmese:	7789	Polish:	8076
Byelorussian:	6669	Portuguese:	8084
Cambodian:	7577	Punjabi:	8065
Catalan:	6765	Quechua:	8185
Chinese:	9072	Rhaeto-Romance:	8277
Corsican: Croatian:	6779 7282	Romanian: Russian:	8279
Croalian. Czech:	6783	Samoan:	8285 8377
Danish:	6865	Sanskrit:	8365
Dutch:	7876	Scots Gaelic:	7168
English:	6978	Serbian:	8382
Esperanto:	6979	Serbo-Croatian:	8372
Estonian:	6984	Shona:	8378
Faroese:	7079	Sindhi:	8368
Fiji:	7074	Singhalese:	8373
, Finnish:	7073	Slovak:	8375
French:	7082	Slovenian:	8376
Frisian:	7089	Somali:	8379
Galician:	7176	Spanish:	6983
Georgian:	7565	Sundanese:	8385
German:	6869	Swahili:	8387
Greek:	6976	Swedish:	8386
Greenlandic:	7576	Tagalog:	8476
Guarani:	7178	Tajik:	8471
Gujarati:	7185	Tamil:	8465
Hausa:	7265	Tatar:	8484
Hebrew:	7387	Telugu:	8469
Hindi:	7273	Thai:	8472
Hungarian:	7285	Tibetan:	6679 8472
Icelandic: Indonesian:	7383 7378	Tigrinya: Tonga:	8473 8479
Interlingua:	7365	Turkish:	8482
Irish:	7305	Turkmen:	8475
Italian:	7384	Twi:	8487
Japanese:	7465	Ukrainian:	8575
Javanese:	7487	Urdu:	8582
Kannada:	7578	Uzbek:	8590
Kashmiri:	7583	Vietnamese:	8673
Kazakh:	7575	Volapük:	8679
Kirghiz:	7589	Welsh:	6789
Korean:	7579	Wolof:	8779
Kurdish:	7585	Xhosa:	8872
Laotian:	7679	Yiddish:	7473
Latin:	7665	Yoruba:	8979
Latvian, Lettish:	7686	Zulu:	9085

Language code list

Decoder

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

Dolby Digital

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

DTS (Digital Theater Systems)

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

Dynamic range

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

Frame still and field still

Frames are the still pictures that go together to make a moving picture. There are about 30 frames shown each second. One frame is made up of two fields. A regular television shows these fields one after the other to create frames.

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

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

I/P/B

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

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

Linear PCM (pulse code modulation)

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

Playback control (PBC)

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

Sampling frequency

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

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developed by Microsoft Corporation. It

MP3 with a file size that is smaller than

achieves the same sound quality as

WMA is a compression format

that of MP3

Designed for Windows Mediand

MPEG Layer-3 audio decoding technology licensed from Fraunhofer IIS and Thomson multimedia.

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AMPLIFIER SECTION

AMPLIFIER SEC	TION
HT878	
RMS Output Power:	Dolby Digital Mode
Front Ch	55 W per channel (6 Ω), 1 kHz, 10 % THD
Surround Ch	55 W per channel (6 Ω), 1 kHz, 10 % THD
Center Ch	160 W per channel (6 Ω), 1 kHz, 10 % THD
Subwoofer Ch	220 W per channel (4 Ω), 100 Hz, 10 % THD
Total RMS Dolby Di	
	le East, South Africa, Saudi Arabia and Kuwait
PMPO output pow	
DIN Output Power: D	
Front Ch	
	40 W per channel (6 Ω), 1 kHz, 1 % THD
Surround Ch	40 W per channel (6 Ω), 1 kHz, 1 % THD
Center Ch	120 W per channel (6 Ω), 1 kHz, 1 % THD
Subwoofer Ch	150 W per channel (4 Ω), 100 Hz, 1 % THD
Total DIN Dolby Dig	ital mode power 430 W
HT870	
RMS Output Power:	Dolby Digital Mode
Front Ch	170 W per channel (6 Ω), 1 kHz, 10 % THD
Surround Ch	70 W per channel (4 Ω), 1 kHz, 10 % THD
Center Ch	260 W per channel (4 Ω), 1 kHz, 10 % THD
Subwoofer Ch	260 W per channel (4 Ω), 100 Hz, 10 % THD
Total RMS Dolby Di	
DIN Output Power: D	
Front Ch	140 W per channel (6 Ω), 1 kHz, 1 % THD
Surround Ch	55 W per channel (4 Ω), 1 kHz, 1 % THD
Center Ch	180 W per channel (4 Ω), 1 kHz, 1 % THD
Subwoofer Ch	180 W per channel (4 Ω), 100 Hz, 1 % THD
Total DIN Dolby Dig	ital mode power 750 W
HT520	
RMS Output Power:	Dolby Digital Mode
Front Ch	60 W per channel (4 Ω), 1 kHz, 10 % THD
Surround Ch	60 W per channel (4 Ω), 1 kHz, 10 % THD
Center Ch	60 W per channel (4 Ω), 1 kHz, 10 % THD
Subwoofer Ch	200 W per channel (4 Ω), 100 Hz, 10 % THD
Total RMS Dolby Di	
	le East, South Africa, Saudi Arabia and Kuwait
PMPO output pow	
DIN Output Power: D	olby Digital Mode
Front Ch	45 W per channel (4 Ω), 1 kHz, 1 % THD
Surround Ch	40 W per channel (4 Ω), 1 kHz, 1 % THD
Center Ch	40 W per channel (4 Ω), 1 kHz, 1 % THD
Subwoofer Ch	140 W per channel (4 Ω), 100 Hz, 1 % THD
Total DIN Dolby Dig	
Total Birt Bolby Big	
	FERMINALS SECTION
Preset station	FM 15 stations
	AM/MW 15 stations
Frequency Modulation	
Frequency Range	87.50–108.00 MHz (50-kHz step)
Sensitivity	
The United Kingdor	n, Continental Europe and Russia 1.5 μV (IHF)
Others	2.5 µV (IHF)
S/N 26 dB	
	n, Continental Europe and Russia 1.2 µV
Others	2.2 μV
Antenna terminals	75Ω (unbalance)
Amplitude Modulatio	n (AW/WW)
Frequency range	
The United Kingdor	n, Continental Europe, Russia, Australia and N.Z.
	522–1629 kHz (9-kHz step)
Others	522–1629 kHz (9-kHz step)

 Others
 522–1629 kHz (9-kHz step)

 522–1629 kHz (9-kHz step)
 520–1630 kHz (10-kHz step)

 AM Sensitivity S/N 20 dB at 999 kHz
 560 µV/m

 Phone jack
 560 µV/m

 Terminal
 Stereo, 3.5 mm jack

 Southeast Asia, the Middle East, South Africa, Saudi Arabia, Kuwait,

 Russia, Australia and N.Z.

 Mic jack

Sensitivity0.7 mV, 1.2 kΩTerminalMono, 6.3 mm jack (2 systems)

DISC SECTION

Discs played [8 cm or 12 cm]

- (1) DVD-RAM (DVD-VR compatible, JPEG formatted disc)
- (2) DVD-Audio
- (3) DVD-Video
- (4) DVD-R (DVD-Video compatible)
- (5) CD-Audio (CD-DA)
- (6) Video CD
- (7) SVCD (Conforming to IEC62107)
- (8) CD-R/RW (CD-DA, Video-CD, SVCD, MP3, WMA, JPEG formatted disc)
- (9) MP3/WMA*1
 - •Compatible compression rate:
 - MP3: between 32 kbps and 320 kbps
 - WMA: between 48 kbps and 320 kbps
- (10) JPEG*1
 - Exif Ver 2.1 JPEG Baseline files
 Picture resolution: between 320×240 and 6144×4096 pixels (sub sampling is 4:2:2 or 4:2:0)
- (11) HighMAT Level 2 (Audio and Image)
- *1The total combined maximum number of recognizable audio and picture contents and groups: 4000 audio and picture contents and 400 groups.

Pick up

Pick up	
Wavelength (DVD/CD)	662 nm/785 nm
Laser power	CLASS 2/CLASS 3A
NORSK	
Bølgelengde (DVD/CD)	662 nm/785 nm
Laserstyrke	Ingen farlig stråling sendes ut
Audio output (Disc)	
Number of channels	5.1ch (FL, FR, C, SL, SR, SW)
Audio performance (measured	at LINE OUT terminal)
(1) Frequency response	
 DVD (linear audio) 	4 Hz–22 kHz (48 kHz sampling)
	4 Hz–44 kHz (96 kHz sampling)
 DVD-Audio 	4 Hz–88 kHz (192 kHz sampling)
●CD-Audio	4 Hz–20 kHz
(2) S/N ratio	
●CD-Audio	95 dB
(3) Dynamic range	
 DVD (linear audio) 	95 dB
●CD-Audio	93 dB
(4) Total harmonic distortion	
●CD-Audio	0.005 %

VIDEO SECTION

Video system	
Signal system	PAL625/50, PAL525/60, NTSC
Composite video out	tput
Output level	1 Vp-p (75 Ω)
Terminal	Pin jack (1 system)
The United Kingdo	m, Continental Europe and Russia
	Scart jack (1 system)
S-video output	
Y output level	1 Vp-p (75 Ω)
C output level	PAL; 0.3 Vp-p (75 Ω)
	NTSC; 0.286 Vp-p (75 Ω)
Terminal	S terminal (1 system)
The United Kingdo	m, Continental Europe and Russia
	Scart jack (1 system)
Component Video or	utput (480P/480I)
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 F	Pin jack (Y: green, PB: blue, PR: red) (1 system)
The United Kingdom, Co	ntinental Europe and Russia
RGB video output	
R output level	0.7 Vp-p (75 Ω)
G output level	0.7 Vp-p (75 Ω)
B output level	0.7 Vp-p (75 Ω)
Terminal	Scart jack (1 system)

SPEAKER SECTION

SPEAKER SECTION	
HT878 Front/Surround speake	
Type Speaker unit(s)	2 way, 2 speaker system (Bass reflex) Impedance 6 Ω
Full range	6.5 cm Cone type
Tweeter	Piezo type
Input power (IEC)	55 W (Max)
Output sound pressure	79 dB/W (1.0 m)
Cross over frequency	10 kHz
Frequency range	85 Hz–25 kHz (–16 dB)
Dimensions (W×H×D)	90 Hz−22 kHz (−10 dB) 250×1062×250 mm
Mass	4.1 kg
HT878 Center speaker SB-PC8 Type	3. way, 5 speaker system (Bass reflex)
Speaker unit(s)	Impedance 6 Ω
Woofer	5 cm Cone type
Woofer	5 cm Cone type
Woofer	5 cm Cone type
Woofer Tweeter	5 cm Cone type 2.5 cm Semi-dome type
Input power (IEC)	160 W* (Max)
Output sound pressure	82 dB/W (1.0 m)
Cross over frequency	3.5 kHz, 5 kHz
Frequency range	130 Hz–50 kHz (–16 dB)
Dimensions (W×H×D)	150 Hz−45 kHz (−10 dB) 430×64×100 mm
Mass	430×64×100 mm 1.8 kg
HT878 Active subwoofer SB-W	6
Туре	1 way, 1 speaker system (Bass reflex)
Speaker unit(s)	Impedance 4 Ω
Woofer	17 cm Cone type
Output sound pressure Frequency range	80 dB/W (1.0 m) 32 Hz–220 Hz (−16 dB)
Trequency range	36 Hz–190 Hz (–10 dB)
Dimensions (W×H×D)	209×361×463 mm
Mass	
Russia, Australia and N.Z.	ast, South Africa, Saudi Arabia and Kuwait
oouncuor Aola, inc inidale E	
	11 kg
	11 kg
HT870 Front speakers SB-PF9	21
Туре	21 2 way, 3 speaker system (Bass reflex)
Type Speaker unit(s)	21 2 way, 3 speaker system (Bass reflex) Impedance 6 Ω
Туре	21 2 way, 3 speaker system (Bass reflex) Impedance 6 Ω 6.5 cm Cone type
Type Speaker unit(s) Woofer Woofer Tweeter	21 2 way, 3 speaker system (Bass reflex) Impedance 6 Ω 6.5 cm Cone type 6.5 cm Cone type 6 cm Ring-shaped dome type
Type Speaker unit(s) Woofer Woofer Tweeter Input power (IEC)	21 2 way, 3 speaker system (Bass reflex) Impedance 6 Ω 6.5 cm Cone type 6.5 cm Cone type 6 cm Ring-shaped dome type 170 W* (Max)
Type Speaker unit(s) Woofer Woofer Tweeter Input power (IEC) Output sound pressure	21 2 way, 3 speaker system (Bass reflex) Impedance 6 Ω 6.5 cm Cone type 6 cm Ring-shaped dome type 170 W* (Max) 83 dB/W (1.0 m)
Type Speaker unit(s) Woofer Woofer Tweeter Input power (IEC) Output sound pressure Cross over frequency	21] 2 way, 3 speaker system (Bass reflex) Impedance 6 Ω 6.5 cm Cone type 6 cm Ring-shaped dome type 170 W [∗] (Max) 83 dB/W (1.0 m) 7 kHz
Type Speaker unit(s) Woofer Woofer Tweeter Input power (IEC) Output sound pressure	21 2 way, 3 speaker system (Bass reflex) Impedance 6 Ω 6.5 cm Cone type 6 cm Ring-shaped dome type 170 W* (Max) 83 dB/W (1.0 m)
Type Speaker unit(s) Woofer Woofer Tweeter Input power (IEC) Output sound pressure Cross over frequency	21] 2 way, 3 speaker system (Bass reflex) Impedance 6 Ω 6.5 cm Cone type 6 cm Ring-shaped dome type 170 W [∗] (Max) 83 dB/W (1.0 m) 7 kHz 92 Hz–50 kHz (−16 dB)
Type Speaker unit(s) Woofer Woofer Tweeter Input power (IEC) Output sound pressure Cross over frequency Frequency range Dimensions (W×H×D) Speaker height adjustment	21 2 way, 3 speaker system (Bass reflex) Impedance 6 Ω 6.5 cm Cone type 6 cm Ring-shaped dome type 170 W [∗] (Max) 83 dB/W (1.0 m) 7 kHz 92 Hz–50 kHz (−16 dB) 110 Hz–45 kHz (−10 dB) 250×1160 (Max)/704 (Min)×247 mm nt range 1160–575 mm
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Type Speaker unit(s) Woofer Tweeter Input power (IEC) Output sound pressure Cross over frequency Frequency range Dimensions (W×H×D) Speaker height adjustmen [However, the Mass HT670 Surround speakers SB- Type Speaker unit(s) Woofer	21 2 way, 3 speaker system (Bass reflex) Impedance 6 Ω 6.5 cm Cone type 6 cm Ring-shaped dome type 170 W ⁼ (Max) 83 dB/W (1.0 m) 7 kHz 92 Hz-50 kHz (-16 dB) 110 Hz-45 kHz (-16 dB) 110 Hz-45 kHz (-10 dB) 250×1160 (Max)/704 (Min)×247 mm nt range 1160-575 mm the height of the stand is fixed at 704 mm] 4 kg PS921 2 way, 2 speaker system (Bass reflex) Impedance 4 Ω 6.5 cm Cone type
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Type Speaker unit(s) Woofer Tweeter Input power (IEC) Output sound pressure Cross over frequency Frequency range Dimensions (W×H×D) Speaker height adjustmen [However, th Mass HTE70 Surround speakers SB- Type Speaker unit(s) Woofer Tweeter Input power (IEC) Output sound pressure	21 2 way, 3 speaker system (Bass reflex) Impedance 6 Ω 6.5 cm Cone type 6 cm Ring-shaped dome type 170 W* (Max) 83 dB/W (1.0 m) 7 kHz 92 Hz–50 kHz (-16 dB) 110 Hz–45 kHz (-10 dB) 250×1160 (Max)/704 (Min)×247 mm nt range 1160–575 mm he height of the stand is fixed at 704 mm] 4 kg PS921 2 way, 2 speaker system (Bass reflex) Impedance 4 Ω 6.5 cm Cone type 6 cm Cone type 70 W (Max) 81 dB/W (1.0 m) 5 kHz 89 Hz–41 kHz (-16 dB)
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Type Speaker unit(s) Woofer Tweeter Input power (IEC) Output sound pressure Cross over frequency Frequency range Dimensions (W×H×D) Speaker height adjustmen [However, th Mass IIE70] Surround speakers SB- Type Speaker unit(s) Woofer Tweeter Input power (IEC) Output sound pressure Cross over frequency Frequency range Dimensions (W×H×D) Speaker height adjustmen [However, th Mass HT670] Center speaker SB-PCS	21 2 way, 3 speaker system (Bass reflex) Impedance 6 Ω 6.5 cm Cone type 6 cm Ring-shaped dome type 170 W [#] (Max) 83 dB/W (1.0 m) 7 kHz 92 Hz-50 kHz (-16 dB) 110 Hz-45 kHz (-10 dB) 250×1160 (Max)/704 (Min)×247 mm nt range 1160-575 mm he height of the stand is fixed at 704 mm] 4 kg PS921 2 way, 2 speaker system (Bass reflex) Impedance 4 Ω 6.5 cm Cone type 6 cm Cone type 70 W (Max) 81 dB/W (1.0 m) 5 kHz 89 Hz-41 kHz (-16 dB) 100 Hz-40 kHz (-10 dB) 250×1160 (Max)/704 (Min)×247 mm nt range 1160-575 mm he height of the stand is fixed at 704 mm] 3.6 kg
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Output sound pressure	82 dB/W (1.0 m)
Cross over frequency	5 kHz
Frequency range	110 Hz–50 kHz (–16 dB)
	140 Hz-45 kHz (-10 dB)
Dimensions (W×H×D)	320×97×93 mm
Mass	1.5 kg
HT870 Active subwoofer SB-WA870	
	y, 1 speaker system (Bass reflex)
Speaker unit(s)	Impedance 4 Ω
Woofer	20 cm Cone type
Output sound pressure Frequency range	84 dB/W (1.0 m) 34 Hz–220 Hz (−16 dB)
requency range	38 Hz–190 Hz (–10 dB)
Dimensions (W×H×D)	248×417×476.6 mm
Mass	16.4 kg
HT520 Front/Surround speakers SB-FS	
	y, 1 speaker system (Bass reflex)
Speaker unit(s)	Impedance 4 Ω
Full range	6.5 cm Cone type
Input power (IEC)	70 W (Max)
Output sound pressure	80 dB/W (1.0 m)
Frequency range	88 Hz-25 kHz (-16 dB)
Dimensions (W×H×D)	100 Hz−22 kHz (−10 dB) 86×180×112 mm
Mass	0.73 kg
	0.73 kg
HT520 Center speaker SB-PC520	
	y, 1 speaker system (Bass reflex)
Speaker unit(s)	Impedance 4 Ω
Full range	6.5 cm Cone type
Input power (IEC)	60 W (Max)
Output sound pressure Frequency range	80 dB/W (1.0 m) 84 Hz–25 kHz (−16 dB)
Frequency range	96 Hz-25 kHz (-10 dB)
Dimensions (W×H×D)	181×102×112 mm
Mass	0.77 kg
HT520 Active subwoofer SB-WA520	
	y, 1 speaker system (Bass reflex)
Speaker unit(s) Woofer	Impedance 4 Ω 17 cm Cone type
Output sound pressure	80 dB/W (1.0 m)
Frequency range	32 Hz–220 Hz (–16 dB)
	36 Hz–190 Hz (–10 dB)
Dimensions (W $ imes$ H $ imes$ D)	209×361×463 mm
Mass	11 kg
0515541	
GENERAL	
Power supply	
Continental Europe and Russia The United Kingdom, Australia and N	AC 230 V, 50 Hz Z. AC 230–240 V, 50 Hz
	10/127/220–230/240 V, 50/60 Hz
Power consumption	Main unit 25 W
•	HT878 Subwoofer 250 W
	HT870 Subwoofer 390 W
	HT520 Subwoofer 220 W
Dimensions (W×H×D)	430×68×359.2 mm
Mass	Main unit 3.2 kg
Operating temperature range	$+5 \text{ to } +35 ^{\circ}\text{C}$
Operating humidity range	5 to 90 % RH (no condensation)
_	
Power consumption in standby	
The United Kingdom, Continental Europ Others	De, Russia, Australia and N.Z. 0.7 W 0.9 W
Otters	0.9 W
Rating with low cut filter equipped	amplifier
	-
Note 1. Specifications are subject to cha	ance without notice

Ν 1. Specifications are subject to change without notice. Mass and dimensions are approximate.

- 2. Total harmonic distortion is measured by the digital spectrum analyzer.

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.

Power

Power		Page
No power.	Insert the AC mains lead and system cable securely.	13
The unit is automatically	•The Sleep timer activated.	31
switched to the standby mode.		

Unresponsive or inoperable fu	nction	
No response when any button is pressed.	 This unit cannot play discs other than the ones listed in these operating instructions. The unit may not be operating properly due to lightning, static electricity or some other external factor. Turn the unit off and then back to ON. Alternatively, turn the unit off, disconnect the AC mains lead, and then reconnect it. Condensation has formed: Wait 1 to 2 hours for it to evaporate. 	15 —
No response when remote control buttons are pressed.	 Check that the batteries are installed correctly. The batteries are depleted. Replace them with new ones. Aim the remote control at the remote control sensor and operate. 	13 13 14
No picture or sound.	 Check the video or audio connection. Check the power or input setting of the connected equipment. Check that the DVD-RAM has something recorded on it. 	10-12, 32
You have forgotten your ratings password. Reset all the settings to Factory Preset.	•While stopped and "DVD/CD" is the source, press and hold [■] on the main unit and [≥10] on the remote control until "Initialized" disappears from the television. Turn the unit off and on again. All settings will return to the default values.	_

Specific operation undesirable	or unexpected	
It takes time before play starts.	•Play may take time to begin when an MP3 track has still picture data. Even after the track starts, the correct play time will not be displayed, however this is normal.	—
Folders deeper than the eighth layer on a data CD are not displayed correctly. WMA MP3 JPEG	 Folders deeper than the eighth layer are displayed as the eighth layer. 	—
A menu screen appears during skip or search. VCD	•This is normal for Video CDs.	_
Programmed items are not played. DVD-V	 Some items cannot be played even if you have programmed them. 	—
The on-screen menu shows "2" as a soundtrack option when [AUDIO] is pressed, but the audio does not change. DVD-A	•Even if a second soundtrack isn't recorded, two numbers will normally be shown.	_
Play restarts from the beginning of the track when soundtrack is changed. DVD-A	•This is normal for DVD-Audio.	

Subtitle

Sublille		
Subtitle position is wrong.	 Adjust the position. ("Subtitle Position" in Display Menu) 	23
No subtitles.	•Display the subtitles.	18
Marker		
Cannot add markers.	•You cannot add markers with DVD-RAM.	—
	•If the disc's elapsed play time doesn't appear on the unit's display, you cannot add markers.	-

A-B repeat		
Point B is automatically set.	•The end of an item becomes point B when it is reached.	—
A-B repeat is automatically canceled.	 A-B repeat is canceled when you press [QUICK REPLAY]. 	—

Sound abnormal or improper		
Sound distorted.	Noise may occur when playing WMA files.	—
Effects do not work.	 Some audio effects do not work or have less effect with some discs. Multi Re-master and Dolby Pro Logic II do not work if you have changed the play speed. 	_
Humming heard during play.	•An AC mains lead or fluorescent light is near the subwoofer. Keep other appliances and cables away from the subwoofer.	—
Sound mixed.	•If you are using the scart terminal (AV) and the audio input terminals (TV AUDIO IN) at the same time, turn off the connected equipment at one or the other terminals.	—
Menus		
The Setup menu cannot be	•Select "DVD/CD" as the source.	—
accessed.	•Cancel all group, program and random play.	19

Picture distorted.	•Ensure that the unit is connected directly to the television, and is not connected through a video	12
	cassette recorder.	
Picture size doesn't fit the	●Change "TV Aspect" in "Video" tab.	24
screen.	•Use the television to change the aspect. If your television does not have that function, change	23
	"4:3 Aspect" in Display Menu.	10
T he delegate is a second second	•Change the Zoom setting.	18
The television may display incorrectly or colors appear	The unit and television are using different video systems. Southeast Asia Use a multi-system or NTSC television.	_
faded.	Others Use a 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	24
	Output" in "Video" tab).	
Menu not displayed correctly.	 Restore the zoom ratio to ×1.00. Set "Subtitle Position" in Display Menu to "0". 	18 23
	• Set "4:3 Aspect" in Display Menu to "Normal".	23
Auto zoom function does not	•Turn off TV's zoom function.	
work well.	•Use the other preset aspect ratios or manual adjustment.	18
	•Zoom function may not work well, especially in dark scenes and may not work depending on the	-
	type of disc.	
The picture on the television	•Mobile telephone chargers can cause some disturbance.	<u> </u>
disappears or stripes appear on	 If you are using a TV indoor antenna, change to an outdoor antenna. The television antenna wire is too close to the unit. Separate the antenna wire of the television 	27
the screen.	from the unit.	_
		1
Progressive video		
There is ghosting when progressive output is on.	• Change "Video Output Mode" in Picture Menu to "480!". This problem is caused by the editing method or material used on DVD-Video, but should be corrected if you use interlace output.	23
Pictures not in progressive	•When playing NTSC discs, press [PROGRESSIVE] on the main unit so "PROG." is displayed.	17, 2
output.	Or select "480P" in "Video Output Mode" in Picture Menu.	
	• If the unit is connected to the television through VIDEO OUT, S-VIDEO and SCART, output will	12
	be interlace.	
istening to the radio		
Noise is heard.	Adjust the position of the FM or AM antenna.	-
"ST" flickers or doesn't light. Sound is distorted.	•Use an outdoor antenna.	27
A beat sound is heard.	•Turn the television off or move it away from the unit.	
A low hum is heard during AM	Separate the antenna from other cables.	
broadcasts.		
elevision operation	·	
Cannot operate the TV.	• Press [TV] first to operate the television.	_
	HT878 HT870	
	Check the remote control code for the TV manufacturer.	33
nit displays		
The display is dark.	•Select "Bright" in "FL Dimmer" in "Others" tab.	25
"NO PLAY"	 You inserted a disc which the unit cannot play; insert one it can. 	15
	• You inserted a blank disc.	-
"NO DISC"	•You haven't inserted a disc; insert one.	-
	• You haven't inserted the disc correctly; insert it correctly.	16
"F61"	• Check and correct the speaker cord connections.	5,6
	If this does not fix the problem, there is a power supply problem. Consult the dealer.	10,1
"DVD U11"	• Disc is dirty. Wipe it clean.	15
"ERROR"	Incorrect operation performed. Read the instructions and try again.	-
"DVD H□□"	• Trouble may have occurred. The number following "H" depends on the status of the unit. Turn	-
\Box stands for a number.	the unit off and then back to ON. Alternatively, turn the unit off, disconnect the AC mains lead, and then reconnect it.	
	 If the service numbers fail to clear, note the service number and contact a qualified service 	_
	person.	
elevision displays		
" © "	•The operation is prohibited by the unit or disc.	
"Cannot display group xx,	You are trying to display incompatible contents.	_
content xx"		
"This disc may not be played in	•You can only play DVD-Video if their region number is the same or includes the same region	Cov
your region"	number as the unit or if the DVD-Video is marked "ALL". Confirm the region number for the unit	
	on the rear panel.	
		1

•Select "On" in "On-Screen Messages" in "Display" tab.

No on-screen display.

RQT7429 **39**

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SUOMI

VAROITUS!

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

VAROITUS:

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

VAROITUS!

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

TÄMÄ LAITE ON TARKOITETTU KÄYTETTÄVÄKSI LEUDOSSA ILMASTOSSA.

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

NORSK

ADVARSEL!

DETTE PRODUKTET ANVENDER EN LASER. BETJENING AV KONTROLLER, JUSTERINGER ELLER ANDRE INNGREP ENN DE SOM ER BESKREVET I DENNE BRUKSANVISNING, KAN FØRE TIL FARLIG BESTRÅLING.

DEKSLER MÅ IKKE ÅPNES, OG FORSØK ALDRI Å REPARERE APPARATET PÅ EGENHÅND. ALT SERVICE OG REPARASJONSARBEID MÅ UTFØRES AV KVALIFISERT PERSONELL.

ADVARSEL:

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

ADVARSEL!

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

DETTE APPARATET ER BEREGNET TIL BRUK UNDER MODERATE KLIMAFORHOLD.

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

(En)

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