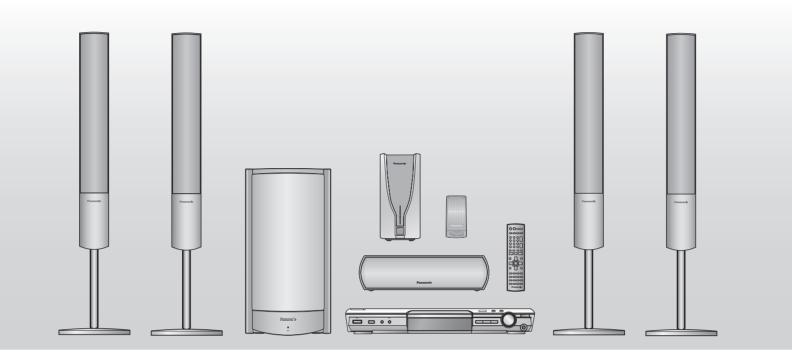
# **Panasonic**®



# Operating Instructions DVD Home Theater Sound System Model No. SC-HT885W

Region number

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

Example:















Before connecting, operating or adjusting this product, please read the instructions completely.

Please keep this manual for future reference.

Advanced progressive scan page Provides a smoother and sharper image.

Digital Transmitter and Receiver

page \_

Set your surround sound free.

Compatible with a variety of media formats page 1 1

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

High performance sound effect

 $_{\scriptscriptstyle{ extstyle page}}\,24$ 

Sound field control (SFC), Bass sound enhancement and more.

# CAUTION!

THIS PRODUCT UTILIZES A LASER.

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

### WARNING:

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

# **CAUTION!**

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

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

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

### THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

### For the digital receiver only

Although the AC power switch is in the "OFF" position, the unit is not completely disconnected from the mains. Remove the plug from the main electrical outlet if you will not be using the unit for an extended period of time. Place the unit so the plug can be easily removed.

CAUTION	LASER RADIATION WHEN OPEN.     DO NOT STARE INTO BEAM. FDA 21 CFR / Class II
CAUTION	<ul> <li>VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN.</li> <li>AVOID EXPOSURE TO BEAM.</li> <li>IEC60825-1 / Class 3b</li> </ul>
VARNING	<ul> <li>SYNLIG OCH OSYNLIG LASERSTRÄLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÄLEN.</li> </ul>
ADVARSEL	<ul> <li>SYNLIG OG USYNLIG LASERSTRÄLING VED ÄBNING.</li> <li>UNDGÅ UDSÆTTELSE FOR STRÄLING.</li> </ul>
ADVARSEL	<ul> <li>SYNLIG OG USYNLIG LASERSTRÄLING NÄR DEKSEL ÄPNES.</li> <li>UNNGÄ EKSPONERING FOR STRÄLEN.</li> </ul>
VARO!	AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VORSICHT	<ul> <li>SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.</li> </ul>
ATTENTION	<ul> <li>RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.</li> </ul>
注意	<ul> <li>打开时有可见及不可见微光辐射,避免激光束照射。</li> </ul>
注意	<ul><li>ここを開くと可視及び不可視レーザー光が出ます。 ビームを見たり、触れたりしないで下さい。 RQLXS0054</li></ul>

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

CLASS 1 LASER PRODUCT

# LUOKAN 1 LASERLAITE KLASS 1 LASER APPARAT



(Back of product)

### **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.

## Koskee ainoastaan digitaalivastaanotinta

Vaikka virtakytkin on "OFF"-asennossa, laite ei ole kokonaan irti verkkovirrasta. Irrota virtajohto pistorasiasta, jos laitetta ei aiota käyttää pitkään aikaan. Sijoita laite siten, että virtajohto on helposti irrotettavissa.

### **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.

### Bare for digital mottaker

Selv om av/på-bryteren er i "OFF" (av)-stilling, er ikke enheten helt frakoblet strømnettet. Trekk ut støpselet fra stikkontakten hvis du ikke kommer til å bruke enheten igjen på en stund. Plasser enheten slik at det er lett å trekke ut støpselet.

# Dear customer

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

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

System	SC-HT885W
Main unit	SA-HT885W
Front speakers	SB-FS930
Center speaker	SB-PC930
Surround speakers	SB-FS880
Active subwoofer	SB-WA885
Digital transmitter	SH-FX50T
Digital receiver	SE-FX50

# Accessories



Please check and identify the supplied accessories.



☐ 1 Remote control



2 Remote control batteries



1 Video cable



☐ 1 System cable



☐ 1 AM loop antenna



☐ 1 FM indoor antenna



2 AC mains leads



☐ 1 Sheet of speaker-cable stickers



☐ 1 Speaker cable



☐ 4 Bases



☐ 8 Long screws



☐ 8 Short screws



☐ 4 Pipes

2×pipes with short cable 2×pipes with long cable



# **Table of contents**

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Changing the player settings	)
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Reference	
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# Simple setup



# **STEP 1** Front and surround speaker assembly

The supplied stands are specially designed for attachment to Panasonic SB-FS930 front speakers or SB-FS880 surround speakers. Use only as indicated in this setup.

### Preparation

- To prevent damage or scratches, lay down a soft cloth and perform assembly on it.
- For assembly, use a Phillips-head screwdriver.
- Make sure you have all the indicated components before starting assembly, setup, and connection.
- There is no difference between the right and left speakers and pipes.

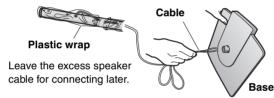
- To prevent the speaker cables from being pulled out of the pipes, leave the plastic wrap on the pipes while assembling the speaker stands.
- The front and surround speaker pairs as well as the pipe pairs are different.
- -Check the label on the rear of the speaker before attaching the pipe (→ page 5).
- -The pipe with the shorter cable is for the front speaker.



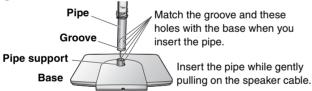
# Assemble the speaker stands.

1 Thread the speaker cable through the base.

For quicker threading, loosely fold the cable in half (do not crease), pass the folded portion through the hole, and then pull the rest of the cable through the base.

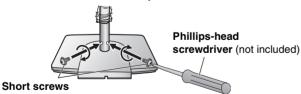


2 Insert the pipe.



Secure the pipe to the base.

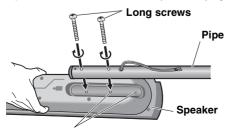
Ensure the screws are securely fastened.



Before proceeding to the next step, please remove the plastic wrap from the pipe.

# Attach the stands to the speakers.

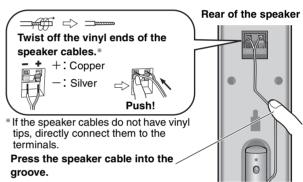
Ensure the stand is fastened on straight by gradually tightening the top and bottom screws alternately until fully tightened.



You can also attach to the lower rear of the speaker.

The height of the speaker can be changed when attaching the stand to the upper rear or lower rear of the speaker.

### 3 Connect the speaker cables.



If there is any excess speaker cable, thread the speaker cable into the opening near the top of the pipe while pulling the speaker cable from the bottom of the base.

# Secure the speaker cables to the bases.

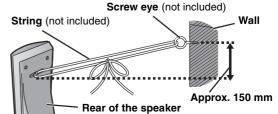
Press the speaker cable into the base cover groove as far as possible. Rear side of base Cable

# Preventing the speakers from falling over

## Preparation

Attach screw eyes (not included) to secure the speakers to the wall (→ diagram below).

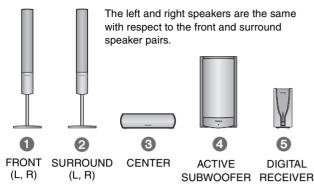
- You will need to obtain the appropriate screw eyes to match the walls or pillars to which they are going to be fastened.
- Consult a qualified housing contractor concerning the appropriate procedure when attaching to a concrete wall or a surface that may not have strong enough support. Improper attachment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





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.



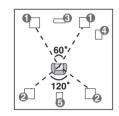
Setup example

Other speaker setup options (→ page 29)

Main unit

Place the digital receiver within approximately 10 m from the main unit.
Do not use a front
Do not place the main unit or receiver in a metal cabinet or bookshelf.

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



speaker as a surround speaker or vice versa. Verify the type of speaker with the label on the rear of the front speaker.

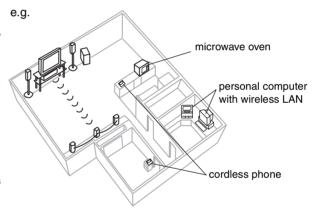


# Additional information for wireless setup

This product uses the same radio frequencies as other devices <sup>∗</sup> that may be present in your home. To help avoid any interference these other devices may cause during the operation of this product, do not place them near or in between the transmitter and receiver unit.

This product will automatically seek a clear channel if any of these other devices interfere with its communication. When this happens you may notice the blue light on the receiver unit or "  $\boxed{w}$  " (the wireless indicator) in the main unit's display flashes, and a brief interruption in audio coming from the surround speakers. This is the normal operation of the product working to assure the best possible performance of your Home Theater System. If the interference persists, try moving the other devices to another location outside the range of this product.

\*\* These other devices include some cordless phones and wireless computer LAN devices operating in the 2.4GHz band, as well as microwave ovens.



# 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.

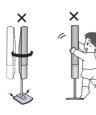
# Active subwoofer

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

Do not stand on the base and shake the speaker.

Be cautious when children are near.



# Notes on speaker use

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

## If irregular coloring occurs on your television

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

If this occurs, turn the television off for about 30 minutes.

The television's demagnetizing function should correct the problem. If it persists, move the speakers farther away from the television.

# Caution

- The active subwoofer, supplied speakers and digital receiver are to be used only as indicated in this setup. Failure to do so may lead to damage to the amplifier, the speakers and/or digital receiver, 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.

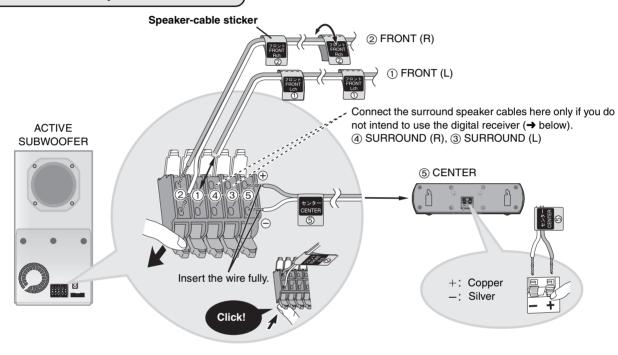


# STEP 3 Connecting speakers with the subwoofer and the digital receiver

- Attach the speaker-cable stickers to make connection easier.
- The terminals of the subwoofer and the digital receiver have high output power. Carefully connect the speaker wires.

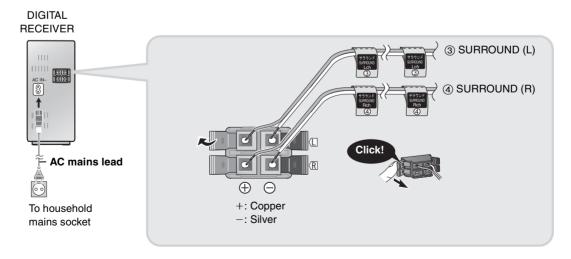


# Front and center speaker connection



# **Surround speaker connection**

•Connect the AC mains lead after speaker cable connections are complete.



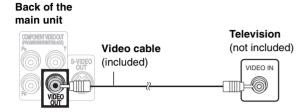
- Never short-circuit positive (+) and negative (−) speaker wires.
- Be sure to connect only positive (copper) wires to positive (+) terminals and negative (silver) wires to negative (-) terminals. Incorrect connection can damage the speakers.
- Do not use more than one pair of surround speakers when using this wireless system.



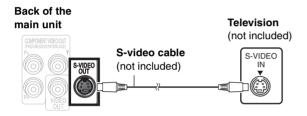
- Do not connect through the video cassette recorder.
   Due to copy guard protection, the picture may not be displayed properly.
- Turn the television off before connecting, and refer to the television's operating instructions.



# ■ Television with a VIDEO IN terminal



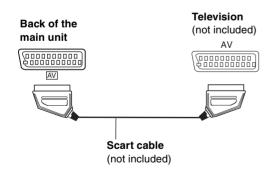
# ■ Television with an S-VIDEO IN terminal



## **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.)

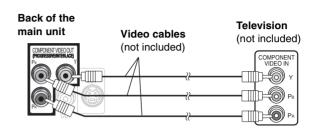
# ■ Television with SCART terminal



# SCART (AV) terminal

To improve picture quality, you can change the video signal output from the SCART (AV) terminal from "Video" to either "S-Video" or "RGB" to suit the type of television you are using. Select "S-Video/YPbPr" or "RGB/No Output" from QUICK SETUP (→ page 9).

## ■ Television with COMPONENT VIDEO IN terminals



### **COMPONENT VIDEO OUT terminals**

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

- The description of the component video input terminals depends on the television or monitor (e.g. Y/P<sub>B</sub>/P<sub>R</sub>, Y/B-Y/R-Y, Y/C<sub>B</sub>/C<sub>R</sub>).
   Connect to terminals of the same color.
- When making this connection, select "Video/YPbPr" or "S-Video/YPbPr" from QUICK SETUP (→ page 9). If "RGB/No Output" is selected, the RGB signal is output from the SCART (AV) terminal, but no signal is output from the component video output terminals.

# To enjoy progressive video

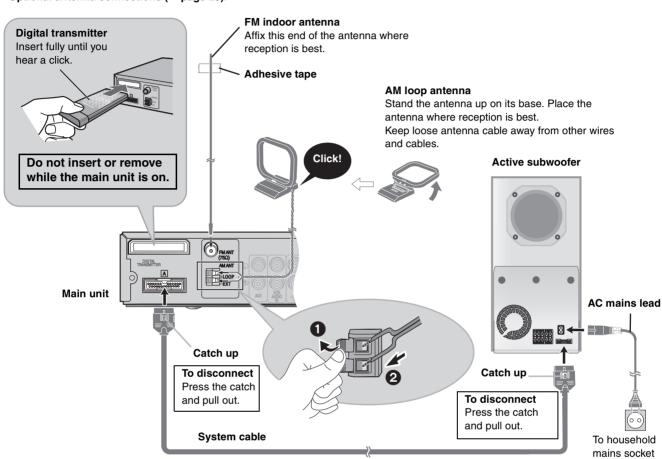
- Connect to the component video input terminals on a 625p or 525p compatible television. (Video will not be displayed correctly if connected to an incompatible television.)
- Panasonic televisions with 625 (576)/50i-50p, 525 (480)/ 60i-60p input terminals are progressive compatible. Consult the manufacturer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



# The digital transmitter, radio and system connections



- •Connect the AC mains lead after all other connections are complete.
- Optional antenna connections (→ page 23).



### Conserving power

The main unit consumes a small amount of power, even when it is turned off (approx. 0.7 W). To save power when the unit is not to be used for a long time, unplug it from the household mains socket.

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

### Note

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



## Do not:

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

Mishandling of batteries can cause electrolyte leakage which can damage items the fluid contacts and may cause a fire.

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

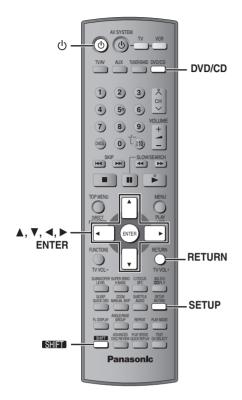
### ■ Use

Aim at the remote control signal sensor (→ page 10), avoiding obstacles, at a maximum range of 7 m directly in front of the unit.

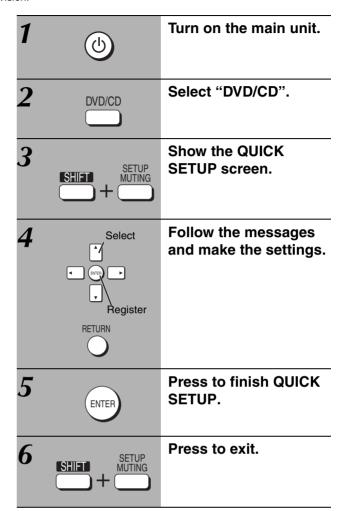


# The QUICK SETUP screen assists you to make necessary settings.

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



To change these settings later Select "QUICK SETUP" in the "Others" tab (→ page 21).

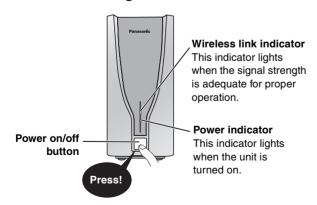




# STEP 8 Turning on the digital receiver

Turn on the main unit. (→ above)

Turn on the digital receiver.



" w " lights up in the . W display on the main unit.

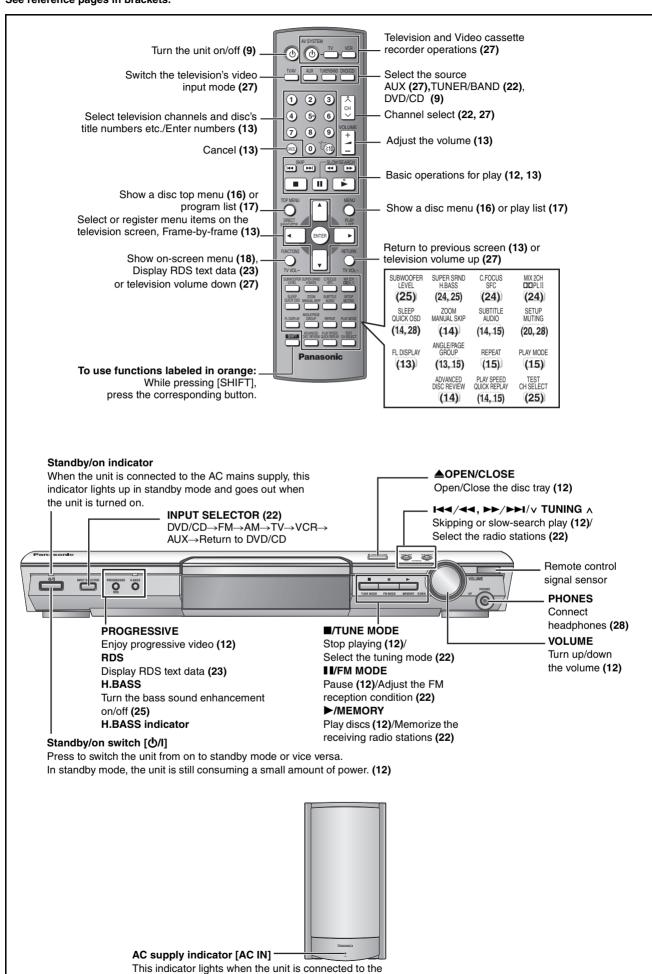
## (" | w | " is flashing → page 35, Unit displays)

# Note

To save power when your home theater system is not being used, first turn off the digital receiver followed by the main unit.

# Control reference guide

See reference pages in brackets.



AC mains supply.

# Discs that can be played

Disc	Logo	Indication in these operating instructions	Remarks	
		RAM	Recorded with devices using Version 1.1 of the Video R unified video recording standard), such as DVD video recameras, personal computers, etc.	
DVD-RAM	DVD	JPEG	Recorded with Panasonic SD multi cameras or DVD video recorders using the DCF (Design rule for Camera File system) Standard Version 1.0.	●To play JPEG,
	R A M RAM 4.7	MPEG4	Recorded with Panasonic SD multi cameras or DVD video recorders [conforming to SD VIDEO specifications (ASF standard)/MPEG4 (Simple Profile) video system/G.726 audio system].	MPEG4 or DivX video contents, select "Play as Data Disc" in Other Menu (→ page 19).
		<b>DivX</b> <sup>∗1</sup>		
		DVD-A	_	
DVD-Audio	AUDIO	DVD-V	Some DVD-Audio discs contain DVD-Video content.  To play DVD-Video content, select "Play as DVD-Video" (→ page 19).	in Other Menu
DVD-Video	VIDEO VIDEO		_	
DVD-R (DVD-Video)/ DVD-RW (DVD-Video)	R W R W	DVD-V	Discs recorded and finalized*2 on DVD video recorders	or DVD video cameras.
+R (Video)/ +RW (Video)	_		Discs recorded and finalized**2 on DVD video recorders	or DVD video cameras.
DVD-R (DivX Video)/ DVD-RW (DivX Video)	R R 4.7	<b>DivX</b> <sup>∗</sup> 1	Finalize*2 the disc after recording.	
DVD-RW (DVD-VR)	R W	DVD-RW (VR)	Discs recorded and finalized <sup>®2</sup> on DVD video recorders using Version 1.1 of the Video Recording Format (a unit standard).	
Video CD	DIGITAL VIDEO	VCD	_	
SVCD	SUPER VIDEO	VCD	Conforming to IEC62107	
CD	COMPACT COMPACT DIGITAL AUDIO TEXT	CD	This unit is compatible with HDCD, but does not suppor function (a function which expands the dynamic range of HDCD-encoded CD's sound better because they are encompared with 16 bits for all other CD's.	of high level signals).
CD-R CD-RW	_	WMA MP3 JPEG CD MPEG4 DivX **1	<ul> <li>This unit can play CD-R/RW (audio recording disc) recon the left. Close the sessions or finalize<sup>#2</sup> the disc aft</li> <li>HighMAT discs</li> <li>WMA, MP3 or JPEG files only.</li> <li>To play without using the HighMAT function, select "Plamenu (→ page 19).</li> <li>WMA This unit does not support Multiple Bit Rate (MB same content encoded at several different bit rates).</li> </ul>	er recording. ay as Data Disc" in Other

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

# ■ Discs that cannot be played

Version 1.0 of DVD-RW, DVD-ROM, CD-ROM, CDV, CD-G, SACD and Photo CD, DVD-RAM that cannot be removed from their cartridge, 2.6-GB and 5.2-GB DVD-RAM and "Chaoji VCD" available on the market including CVD, DVCD and SVCD that do not conform to IEC62107.

# ■ Audio format of DVD's

This unit automatically recognizes and decodes discs with these symbols.





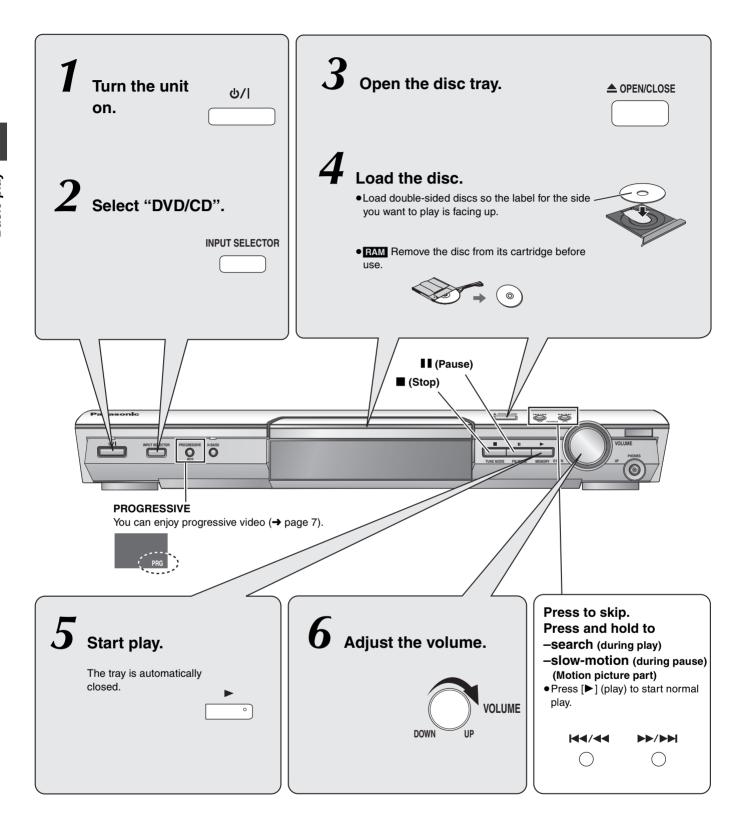
# **■** Video systems

- 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 21, "NTSC Disc Output" in "Video" tab).

<sup>\*\*2</sup> A process that allows play on compatible equipment.

<sup>•</sup> It may not be possible to play the above discs in all cases due to the type of discs, the condition of the recording, the recording method and how the files were created (→ page 17, Tips for making data discs).

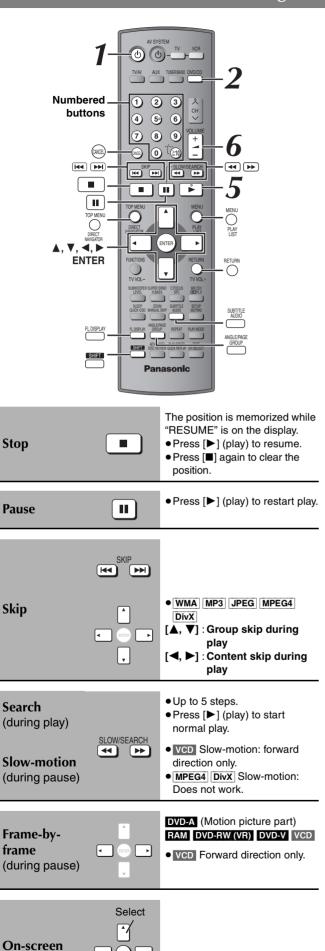
# Using the main unit



### Note

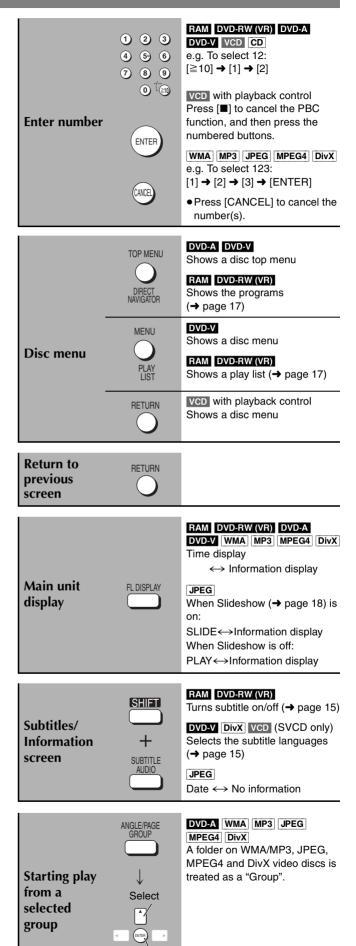
- Discs continue to rotate while menus are displayed. Press [■] when you finish to preserve the unit's motor and your television screen.
- Total title number may not be displayed properly on +R/+RW.

# Using the remote control

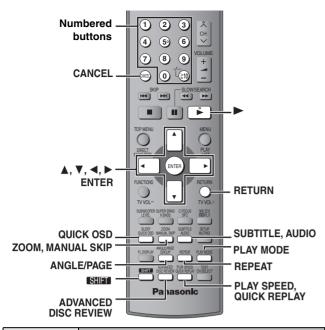


item select

Register



Register

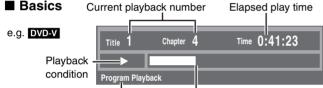


SLEEP QUICK OSI

# Displaying current playback condition (QUICK OSD)

# Press [QUICK OSD].

**Basics** → Details Off ←



Play mode or title of content

Current position

### Details

e.g. DVD-V

Audio information -DTS 3/2.1ch Subtitle information Angle information Aspect of current title Total play time of current title

● MPEG4 DivX Video and audio information is not displayed during

CD MP3 WMA The QUICK OSD screen will appear automatically.



# Reviewing titles to play (ADVANCED DISC REVIEW)

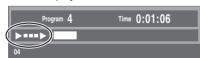
RAM DVD-RW (VR) (Except still picture part) DVD-V (Except +R/+RW)

Allows you to browse the disc contents and start playing from the selected position. You can select either "Intro Mode" or "Interval Mode" in "Advanced Disc Review" in the "Disc" tab (→ page 20).

# Press [ADVANCED DISC REVIEW].

The QUICK OSD screen is displayed.

e.g. RAM



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

- This may not work depending on the disc and the play position.
- RAM DVD-RW (VR) This does not work when playing a play list (→ page 17).

PLAY SPEED QUICK REPLAY Quick replay

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

Press [QUICK REPLAY] to skip back a few



# Skipping 30 seconds forward

(Only when the elapsed play time can be displayed.)

RAM DVD-RW (VR) DVD-V (Except +R/+RW)

Play restarts from approximately 30 seconds later. Convenient when you want to skip commercials etc.

## **During play** Press [MANUAL SKIP].

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



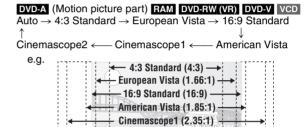
DVD-A (Motion picture part) RAM DVD-RW (VR) DVD-V VCD MPEG4

This feature expands the letterbox picture to fit the screen.

**During play** Press [SHIFT]+[ZOOM]

several times to select the preset aspect ratio (Just Fit Zoom) or "Auto".





MPEG4 DivX

Standard (×0.25 full-screen) → Original (actual recorded size) Full (full-screen)←

Cinemascope2 (2.55:1)

• This may not work depending on the discs recording.

# Fine adjustments (Manual Zoom)

After selecting the preset aspect ratio or "Auto", press [◀, ▶].

- -from "×1.00" to "×1.60" (in 0.01 units)
- -from "×1.60" to "×2.00" (in 0.02 units)
- -from "×2.00" to "×4.00" (in 0.05 units) (MPEG4 DivX only)

  ●It may not be possible to zoom up to "×4.00" depending upon the connected television and its settings.
- Press and hold [◄, ►] to alter faster.

# Changing soundtracks

DVD-A DVD-V DivX (with multiple soundtracks) RAM DVD-RW (VR) VCD

Press [AUDIO] several times to select the soundtrack.

e.g. DVD-V

Functions Audio

# RAM DVD-RW (VR) VCD

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

While the menu is displayed

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

DVD-V (Karaoke discs)

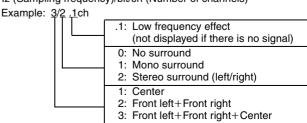
While the menu is displayed

Press [◀, ▶] to select "On" or "Off" for vocals.

Read the disc's instructions for details.

### Signal type/data

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



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



# **Changing subtitles**

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

# Press [SHIFT]+[SUBTITLE] several times to select the subtitle language.

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

### To display/clear the subtitles

Press [◀, ▶] to select "On" or "Off".



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

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

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



Angle selection and Still picture rotation/advance

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

DVD-V (with multiple angles)- Angle selection

JPEG -Still picture rotation

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



# Changing play speed

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

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





## Changing play speed between the range of "x0.6" to "x1.4" (in 0.1 units)

Press [◀, ▶] while the above message is displayed.

- Press [►] (play) to return to normal play.
- After you change the speed
- Dolby Pro Logic II and Sound Enhancement do not work.
- Audio output switches to 2ch.
- -Sampling frequency of 96 kHz is converted to 48 kHz.
- -Multi Re-master does not work.
- This function may not work depending on the disc's recording.



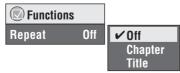
# Repeat play

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

# **During play**

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

e.g. DVD-V



RAM DVD-RW (VR): Program→All→Off

During play list play: Scene→Playlist→Off

DVD-A: Track→Group\*→Off

DVD-V: Chapter→Title\*→Off VCD CD: Track→All→Off

WMA MP3 MPEG4 DivX: Content→Group\*\*→Off

JPEG: Group\* → Off

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



# All group, Program and Random play

Except RAM DVD-RW (VR)

### Press [PLAY MODE] while stopped.

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

- \*Select "off" condition to exit the all group, program or random mode.
- Disable HighMAT disc play to use random and program play. Select "Play as Data Disc" in Other Menu (→ page 19).
- DVD-A Some discs contain bonus groups. If a password screen appears after selecting a group, enter the password with the numbered buttons to play the bonus group. Refer also to the disc's

### All group play

### DVD-A

Press [▶] (play).



e.g. DVD-V

O Program Playback

# Program play (up to 32 items)

Press the numbered buttons to select the items (WMA MP3 JPEG MPEG4 Divx then

press [ENTER]).

 Repeat this step to program other items.

•To select a 2-digit number

e.g. To select 25: [≥10] → [2] → [5]

WMA MP3 JPEG MPEG4 DivX [2] → [5] → [ENTER]

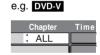


### To select an item using the cursor buttons

Press [ENTER] and [▲, ▼] to select an item, then press [ENTER] again to register.

# To select all the items

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



Clear

## To change the selected program

- Press [▲, ▼] to select an item.
- 2 Repeat step 1 above.

### To clear the selected program

- Press [▲, ▼] to select an item.
- Press [CANCEL] (or press [▲, ▼, ◄, ▶] to select "Clear" and press [ENTER])

# To clear the whole program

Press [▲, ▼, ◄, ▶] to select "Clear all" and press [ENTER]. The whole program is also cleared when the unit is turned off, the disc tray is opened or another source is selected.

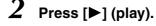
# Random play

DVD-A DVD-V WMA MP3 JPEG MPEG4 DivX

Press the numbered buttons to select a title or a group (WMA MP3 JPEG MPEG4 DivX then press [ENTER]). DVD-A

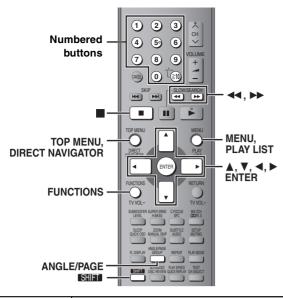


- To enter all groups, press [◄, ▶] to select "All" and press
- To deselect a group, press the numbered buttons corresponding to the group you want to clear.



RQT8221

# **Using navigation menus**





# Playing data discs

WMA MP3 JPEG MPEG4 DivX

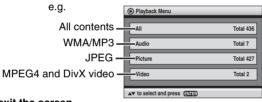
You can play JPEG, MPEG4 and DivX video contents on DVD-RAM or play HighMAT discs without using the HighMAT function (→ page 19, "Play as Data Disc" in Other Menu).

Playing HighMAT™ discs (→ page 17)

# Playing items in order (Playback Menu)

Press [TOP MENU].

Items shown differ depending on the type of disc.



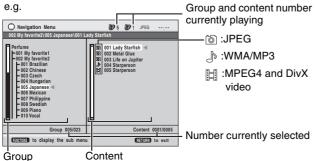
 To exit the screen Press [TOP MENU].

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

Playing from the selected item (Navigation Menu)

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

Press [▲, ▼] to select and [ENTER].



- Press [SHIFT]+[ANGLE/PAGE] to skip page by page in the group or content field.
- To enjoy listening to WMA/MP3 contents while showing a JPEG image on the screen

Select a JPEG file first, and then select audio contents. (The opposite order is not effective.)

•To exit the screen Press [MENU].

- Using the submenu
- While the menu is displayed Press [FUNCTIONS].
- 2 Press [▲, ▼] to select an item and press [ENTER].

Items shown differ depending on the disc contents.

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

## ■ Searching by a content or group title

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

While the submenu is displayed (→ above)
Press [▲, ▼] to select "Find" and press [ENTER].



- 2 Press [lacktriangle, lacktriangle] to select a character and press [ENTER].
  - •Repeat to enter another character.
  - •Lower case is also searched.
  - Press [◄◄, ▶▶] to skip between A, E, I, O and U.
  - Press [◄] to erase a character.
  - Leave the asterisk (\*) when you search for the titles including the character you enter.
  - Erase the asterisk (\*) to search for the titles starting with the character you enter. To add the asterisk (\*) again, display the submenu again and select "Find".
- 3 Press [▶] to select "Find" and press [ENTER].
  - The search result screen appears.
- 4 Press [▲, ▼] to select the content or group and press [ENTER].



CD

Titles appear with CD Text disc playback.

**1** Press [TOP MENU] or [MENU].

e.g. CD text



- Press [▲, ▼] to select the track and press [ENTER].
  - •Press [SHIFT]+[ANGLE/PAGE] to skip page by page.
  - Press [FUNCTIONS] to show the playback condition and current position.

# To exit the screen

Press [TOP MENU] or [MENU].



# Playing HighMAT™ discs

WMA MP3 JPEG

Press [TOP MENU].

Press  $[\blacktriangle, \blacktriangledown, \blacktriangleleft, \blacktriangleright]$  to select the item. then press [ENTER].

•Repeat this step if necessary

e.q.

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

•To change the menu background

Press [FUNCTIONS].

The background changes to the one recorded on the disc.

●To exit the screen

Press [■].

# Selecting from the list

**During play** Press [MENU].



e.g.

- Press [▶] then [▲, ▼] to select an item and press [ENTER].
  - Press [SHIFT]+[ANGLE/PAGE] to skip page by page.
- •To exit the screen Press [MENU].



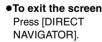
# Playing RAM/DVD-RW (DVD-VR) discs

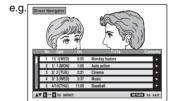
### RAM DVD-RW (VR)

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

### Playing the programs

**Press [DIRECT** NAVIGATOR1.





Press [▲, ▼] or

# the numbered buttons to select the program.

- Press [SHIFT]+[ANGLE/PAGE] to skip page by page.
- ●To select a 2-digit number e.g. 23: [≥10] → [2] → [3]
- Press [►] to show the contents of the program and the disc.

# Press [ENTER].

## Playing a play list

(Only when the disc contains a play list)

- **Press** [PLAY LIST].
  - To exit the screen Press [PLAY LIST].



# Press [▲, ▼] or the numbered buttons to select the play list.

- Press [SHIFT]+[ANGLE/PAGE] to skip page by page.
- ●To select a 2-digit number e.g. 23: [≥10] → [2] → [3]

# Press [ENTER].

# ■ Playing scenes one by one

- While the play list menu is displayed Press [▶].
- Press [▲, ▼] to select "Scene List" and press [ENTER].
  - "Contents" shows play list information.
- Press [▲, ▼, ◄, ▶] to select a scene and press [ENTER].

# Tips for making data discs

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

### **DVD-RAM**

• Discs must conform to UDF 2.0.

### CD-R/RW

- Discs must conform to ISO9660 level 1 or 2 (except for extended
- This unit supports 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.

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

e.g. MP3

001 group

003 group

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

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

002 group

# Naming folders and files (Files are treated as contents and folders are treated as groups on this

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

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

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

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

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

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

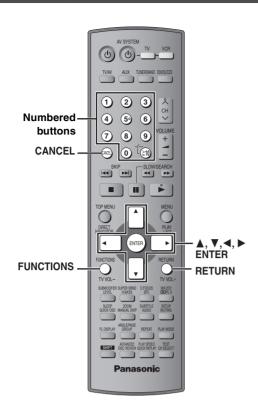
- To view JPEG files on this unit:
- Take them on a digital camera that meets the DCF Standard (Design rule for Camera File system) Version 1.0. Some digital cameras have functions that are not supported by the DCF Standard Version 1.0 like automatic picture rotation which may render a picture unviewable.
- 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 pictures with attached audio.

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

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

  DivX (Extension: ".DIVX", ".divx", ".AVI" or ".avi")
- You can play DivX data created using ver.3.11, 4.x, 5.x [DivX video system/MP3, Dolby Digital or MPEG audio system].
- GMC (Global Motion Compensation) is not supported.
- DivX files greater than 2GB or have no index may not be played properly on this unit.
- This unit supports all resolutions up to maximum of 720 ×480 (NTSC)/720 ×576 (PAL).
- You can select up to 8 types of audio and subtitles on this unit.

# Using on-screen menus



1	FUNCTIONS	Press once.
2	Select Go to the next menu Register Return to the previous menu	Select the menu.
3	Select  OFFER PROPERTY OF THE PROPERTY OF T	Make the settings.
	① ② ③ ④ ⑥ ⑥ ⑦ ⑥ ⑨ ⑥ ① ① ① ③ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥	
4	FUNCTIONS	Press to exit.

# Items shown differ depending on the type of disc.

# Main menu

Program Group Title Chapter Track Playlist Content	To start from a specific item
Time * Except +R/ +RW	To skip incrementally or decrementally* (Time Slip for play only)  1 Press [ENTER] twice to show the Time Slip indicator.  2 Press [▲, ▼] to select the time and press [ENTER].  • Press and hold [▲, ▼] to alter faster.  To start from a specific time* (Time Search) To change remaining/elapsed time display
Video	MPEG4 DivX  To display pixel number  DivX fps (frame per second) is also displayed.
	(→ page 14, Changing soundtracks)
Audio	WMA MP3 To display the current disc type
Still Picture	To switch still pictures
Still Picture Thumbnail	To switch still pictures  To show thumbnail images
	•
Thumbnail	To show thumbnail images
Thumbnail Subtitle	To show thumbnail images  (→ page 15, Changing subtitles)  RAM DVD-RW (VR)  To recall a marker recorded on DVD-Video recorders
Thumbnail Subtitle Marker (VR)	To show thumbnail images  (→ page 15, Changing subtitles)  RAM DVD-RW (VR)  To recall a marker recorded on DVD-Video recorders To recall a marker: Press [▲, ▼] → Press [ENTER]  (with multiple angles)
Thumbnail Subtitle Marker (VR) Angle Rotate	To show thumbnail images  (→ page 15, Changing subtitles)  RAM DVD-RW (VR)  To recall a marker recorded on DVD-Video recorders To recall a marker: Press [▲, ▼] → Press [ENTER]  (with multiple angles) To select the angle

# **Other Settings**

Play Speed	DVD-A (Motion picture part) RAM DVD-RW (VR) DVD-V To change play speed -from "×0.6" to "×1.4" (in 0.1 unit steps)
------------	---

# ■ Play Menu

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

	JPEG. WORKS WITH AN JP EG CONTENT.)		
	Repeat	(→ page 15, Repeat play)	
A-B Repeat To repeat a specified section		To repeat a specified section Press [ENTER] at the starting and ending points.	
		Except RAM DVD-RW (VR) To mark up to 5 positions to play again	
	Marker	Press [ENTER] (The unit is now ready to accept markers.) To mark a position: Press [ENTER] (at the desired point)	
	warker	To mark another position: Press [◀, ▶] to select  "*" → Press [ENTER]  To recall a marker: Press [◀, ▶] → Press [ENTER]  To erase a marker: Press [◀, ▶] → Press [CANCEL]  • This feature does not work during program and random play.	
	Advanced Disc Review	[→ page 14, Reviewing titles to play (ADVANCED DISC REVIEW)]	

# **Other Settings**

# ■ Picture Menu

- Ficture Wi	enu
Picture Mode	Normal Cinema1: Mellows images and enhances detail in dark scenes. Cinema2: Sharpens images and enhances detail in dark scenes. Animation, Dynamic User (Press [ENTER] to select "Picture Adjustment") (→ below)  Picture Adjustment Contrast, Brightness, Sharpness, Colour Gamma: Adjusts the brightness of dark parts. Depth Enhancer
	Reduces the rough noise in the background to give a greater feeling of depth.
Video Output Mode	625i* (or 525i*) (Interlace)  ←→ 625p* (or 525p*) (Progressive)  When you select "625p" or "525p", a confirmation screen appears. Select "Yes" only if connecting to a progressive output compatible television.  *The number displayed depends on the disc being played or "Picture/Video Output" setting (→ page 21).
Transfer Mode	If you have chosen "625p" or "525p" (→ above), select the method of conversion for video output to suit the type of material.  When you play PAL discs, MPEG4 or DivX video contents  Auto: Detects 25 frame-per-second film content and appropriately converts it.  Video: Select when using Auto, and the video content is distorted.  When you play NTSC discs  Auto1 (normal): Detects 24 frame-per-second film content and appropriately converts it.  Auto2: Compatible with 30 frame-per-second film content in addition to 24 frame-per-second film content.  Video: Select when using Auto1 or Auto2, and the video content is distorted.
Source Select DivX	When you select "Auto" the constructing method of the DivX contents is automatically distinguished and output. If the picture is distorted, select "I (Interlace)" or "P (Progressive)" depending on which constructing method was used when the contents were recorded to disc.  Auto I (Interlace) P (Progressive)

# ■ Audio Menu

Dolby Pro Logic II	(→ page 24, Dolby Pro Logic II)
Dialogue Enhancer	To make the dialogue in movies easier to hear  DVD-V (Dolby Digital, DTS, MPEG, 3-channel or higher, with the dialogue recorded in the center channel)  DivX (Dolby Digital, 3-channel or higher, with the dialogue recorded in the center channel)  On ←→ Off

Multi Re-master	RAM DVD-RW (VR) DVD-V (Discs recorded with 48 kHz only)  DVD-A (Discs recorded with 44.1 kHz or 48 kHz only)  VCD CD  • 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 → page 30)  • During multi-channel output of these discs, this feature reproduces the frequencies lost during recording to give you a sound closer to the original.  WMA MP3 (Disc recording is other than 8 kHz, 16 kHz, 32 kHz)  This feature reproduces the higher frequencies lost during recording to give you a sound closer to the original.  1 ← 2 ← 3 ← Off  DVD-A DVD-V CD (LPCM/PPCM)  1 High tempo (e.g., pop and rock)  2 Various tempos (e.g., jazz)  3 Low tempo (e.g., classical)  Other discs  1 Light effect  2 Medium effect  3 Strong effect  • You can confirm the sampling frequency on the screen.  • This may not work depending on the discs recording.
Sound Enhancement	Except MPEG4 DivX Enhances audio output to produce a warm hall-like sound. On    Off

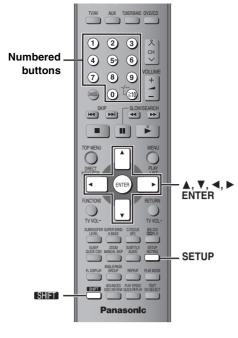
# ■ Display Menu

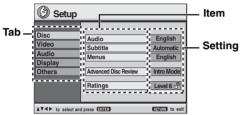
Information	On ←→ Off			
Subtitle Position	0 to -60 (in 2 unit steps)			
Subtitle Brightness	Auto, 0 to −7			
	To select how to show images made for 4:3 aspect screens on a 16:9 aspect television			
4:3 Aspect	Normal: Horizontally stretches images.  Auto: Expands 4:3 letterbox images to fill more of 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			
Bit Rate Display	DVD-A (Motion picture part) RAM DVD-RW (VR) DVD-V VCD MPEG4 DivX On    Off			
GUI See-through	Off, On, Auto			
GUI Brightness	-3 to +3			
Quick OSD	To display current playback condition Off, Basics, Details After registering the item, press [RETURN] to show the QUICK OSD screen (→ page 14).			

# ■ Other Menu

Setup	(→ page 20)
Play as DVD-Video or Play as DVD-Audio	Select "Play as DVD-Video" to play DVD-Video contents of DVD-Audio.
Play as DVD-VR, Play as HighMAT  or  Play as Data Disc	Select "Play as Data Disc" to play JPEG, MPEG4 or DivX video contents on DVD-RAM or to play a HighMAT disc without using the HighMAT function.

# **Changing the player settings**





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

# Show the Setup menu. SETUP MUTING If you have not set QUICK SETUP (→ page 9), the QUICK SETUP SHIFT screen appears. Select the tab. Select Go right 3 Select the item. Select Register Make the settings. Select ┲ Register 1 2 3 4 5 6 7 8 9 0 (1) 5 Press to exit. SETUP MUTING SHIFT

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

# ■ "Disc" tab

Audio Choose the audio language.	● <u>English</u> ●Swedish	● French ● Dutch	German     Original <sup>∗1</sup>	• Italian     • Other****	• Spanish **2	• Polish
Subtitle Choose the subtitle language.	● <u>Automatic</u> *3 ● Polish	<ul><li>English</li><li>Swedish</li></ul>	<ul><li>French</li><li>Dutch</li></ul>	German     Other****	● Italian *2	● Spanish
Menus Choose the language for disc menus. Changing the menu language in QUICK SETUP also changes this setting.	● <u>English</u> ● Swedish	● French ● Dutch	● German ● Other****	● Italian *2	<ul><li>Spanish</li></ul>	● Polish
Advanced Disc Review (→ page 14)	● Intro Mode: ● Interval Mode:	Reviews each Reviews not on	, ,	m but also each	10 minute inter	val within a title/program.
Ratings Set a ratings level to limit DVD-Video  Setting ratings (When level 8 is selected)  ●8 No Limit ●1 to 7 ●0 Lock All: To prevent			event play of dis	cs without ratir	ngs levels.	
play.	Follow the on-so <b>Do not forget y</b> A message screen	creen instruction our password. een will be show		exceeding the r	atings level is i	inserted in the unit.

- \*1 The original language designated on the disc is selected.
- \*\*2 Input a code number referring to the table on page 31.
- \*3 If the language selected for "Audio" is not available, subtitles appear in that language (if available on the disc).

# ■ "Video" tab

	TV Aspect Choose the setting to suit your television and preference.		f the widescree	pect television (4 n picture are cut	,	e screen (unless	
		4:3 Letterbox: Regular aspect television (4:3)     Widescreen picture is shown in the letterbox style.					
		●16:9: Wide:	screen television	า (16:9)			
	TV Type Select to suit the type of television.	● <u>Standard (</u> E ● Projection T	Direct View TV) TV	◆ CRT Projecte     ◆ Plasma TV	or ●LCD T	V/Projector	
1	Time Delay When connected with a Plasma display, adjust if you notice the audio is out of sync with the video.	● <u>0ms</u>	●20ms	●40ms	● 60ms	● 80ms	• 100ms

Video Out (AV/Component) Choose the video signal format to be output from the SCART (AV) and Component terminal.	● <u>Video/YPbPr</u> ● S-Video/YPbPr ● RGB/No Output
<b>Still Mode</b> Specify the type of picture shown when paused.	Automatic     Field: The picture is not blurred, but picture quality is lower.     Frame: Overall quality is high, but the picture may appear blurred.
NTSC Disc Output Choose PAL 60 or NTSC output when playing NTSC discs (→ page 11, Video systems)	PAL60: When connected to a PAL television.      NTSC: When connected to an NTSC television.
Picture/Video Output Change the video signal format to be output for JPEG, MPEG4 and DivX video if picture output is not smooth during playback.	<ul> <li>■ Automatic</li> <li>■ PAL</li> <li>■ NTSC/PAL60: Output will depend on "NTSC Disc Output" setting (→ above).</li> </ul>
■ "Audio" tab	
Dynamic Range Compression	On: Adjusts for clarity even when the volume is low by compressing the range of the lowest sound level and the highest sound level. Convenient for late night viewing. (Only works with Dolby Digital)
Speaker Settings (→ below) Set the delay time for your center and surround speakers.	● Center: 0.0/1.0/2.0/3.0/4.0/5.0 ms ● Surround (L/R): 0.0/5.0/10.0/15.0 ms
■ "Display" tab	
Menu Language	● <u>English</u> ● Français    ● Deutsch    ● Italiano    ● Español    ● Polski    ● Svenska    ● Nederlands
On-Screen Messages	<u>•On</u> •Off
Background during Play Select background during JPEG, MPEG4 and DivX video playback.	● <u>Black</u> ● Grey
■ "Others" tab	
<b>FL Dimmer</b> Changes the brightness of the unit's display.	Dim     Auto: The display is dimmed, but brightens when you perform some operations.
<b>DivX Registration</b> Displays the unit's registration code.	You need this registration code to purchase and play DivX Video-on-Demand (VOD) content.  (→ page 30, About DivX VOD content)
QUICK SETUP	<u> • Yes</u>
Re-initialise Setting	Yes: The password screen is shown if "Ratings" (→ page 20) is set. Please enter the same password.  After "INIT" on the display dispanders, turn the unit off and on again.

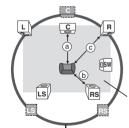
# Changing the delay time (Speaker Settings)

# (Effective when playing multi-channel audio)

This returns all values in the Setup

menus to the default settings.

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



: Actual speakers position

: Ideal speakers position

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

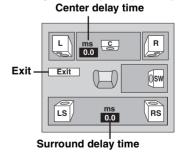
Approximate room dimensions

Circle of constant primary listening distance

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

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

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



# To finish the speaker setting

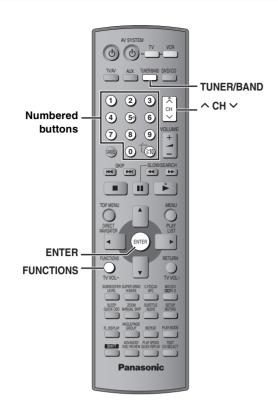
After "INIT" on the display disappears, turn the unit off and on again.

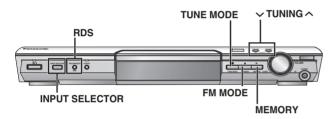
Press [◀] to select "Exit" and press [ENTER].

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

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

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





# **Automatic presetting**

# Main unit only

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

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

  Each time you press the button: MANUAL ←→ PRESET
- 3 Press [∨ TUNING ∧] to tune to the lowest frequency (FM: 87.50, AM: 522).
- 4 Press and hold [MEMORY].

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

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

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

# Selecting the preset channels

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

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



When a stereo FM broadcast is being received.



## ■ If noise is excessive in FM



Press [FM MODE] to display "MONO".



Press [FM MODE] again to cancel the mode.

The mode is also canceled when you change the frequency.

# Manual tuning

# Main unit only

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

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

## ■ Presetting the channel

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

- 1 While listening to the radio broadcast Press [ENTER].
- While the frequency and "P" are flashing on the display Press the numbered buttons to select a channel. Alternatively, press [^ CH v], then press [ENTER].
  - •To select a 2-digit number e.g. 12: [≥10] → [1] → [2].



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

# **RDS** broadcasting

The unit can display the text data transmitted by the radio data system (RDS) available in some areas.

If the station you are listening to is transmitting RDS signals, "RDS" will light up on the display.

# Press [RDS] on the main unit or [FUNCTIONS] on the remote control to display the text data.

Each time you press the button:

PS (factory preset)→PTY→ Frequency display

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

<sup>\*&</sup>quot;M.O.R. M"=Middle of the road music

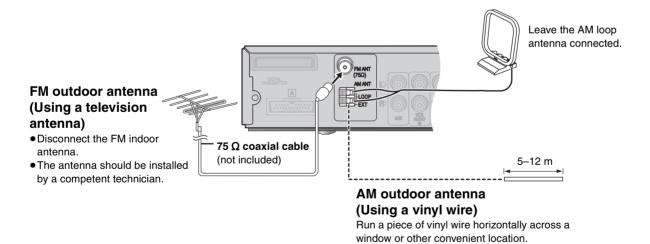
### Note

RDS displays may not be available if reception is poor.

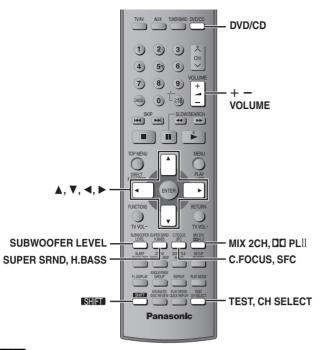
# **Optional antenna connections**

Use outdoor antennas if radio reception is poor.

- Disconnect the antenna when the unit is not in use.
- Do not use the outdoor antenna during an electrical storm.



# Sound field and sound quality



# Note

- When connected with headphones, the following sound field systems have no effect. (Excluding Sound Field Control)
- You may experience a reduction in sound quality when these sound field systems are used with some sources. If this occurs, turn the sound field system off.
- If you turn on Super Surround, Dolby Pro Logic II is canceled and vice versa.
- The following functions may not work depending on the discs recording.



Changes the sound quality.

# Press [SFC].

Each time you press the button:

FLAT: Cancel (no effect is added) (factory preset).

HEAVY: Adds punch to rock.
CLEAR: Clarifies higher sounds.
SOFT: For background music.

**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.

# To check the current setting

Press [SFC].



Adds surround effects to stereo sound.

# Press [SHIFT]+[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 25, Speaker level adjustments).
- Super Surround does not work when playing a DVD recorded with a multi-channel source.



# **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].





Each time you press the button: C FOCUS ON←→C FOCUS OFF

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



### Except DivX

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

# Press [DDPLII].



Each time you press the button:

MOVIE: Movie software, recorded in Dolby Surround.

MUSIC: Stereo sources
OFF: Cancel

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



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

# Press [SHIFT]+[MIX 2CH].



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

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



# **Enhancing the bass sound**

You can enhance low-frequency sound so that heavy bass sound can be heard clearly, even if the acoustics of your room are not optimal. The unit automatically selects the most suitable setting according to the type of playing source.

# Press [H.BASS].

H.BASS indicator lights on the main unit.



### ODVD-V RAM DVD-RW (VR)

H. BASS ON (factory preset)←→H. BASS OFF

•When another source is selected

H. BASS OFF (factory preset)←—→H. BASS ON

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



# Subwoofer level

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

# Press [SUBWOOFER LEVEL].

### ● DVD-V RAM DVD-RW (VR)

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

## •When another source is selected

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



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



# Speaker level adjustments

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

Press [DVD/CD].

While stopped and no on-screen display is shown

Press [SHIFT]+[TEST] to output a test signal.

L: Front left C: Center R: Front right RS: Right surround LS: Left surround

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

- Press [VOLUME, +] or [-] to set the volume level normally used for listening.
- 3 Press [▲] (increase) or [▼] (decrease) to adjust the speaker level for each speaker.

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

(L, R: Only the balance is adjustable.)

- •To adjust the balance of the front speakers While outputting the test signal, press [◀, ▶].
- Adjust the speaker level to the same level as the front speakers.

### To stop the test signal

Press [SHIFT]+[TEST] again.

# ■ To adjust speaker level during play

(Effective when playing multi-channel audio or when Dolby Pro Logic II or Super Surround 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 on the display when "MUSIC" or "MOVIE" is selected with Super Surround (→ page 24). In this case, you can adjust both surround speaker levels at the same time using [▲, ▼].

S: -6 dB to +6 dB

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

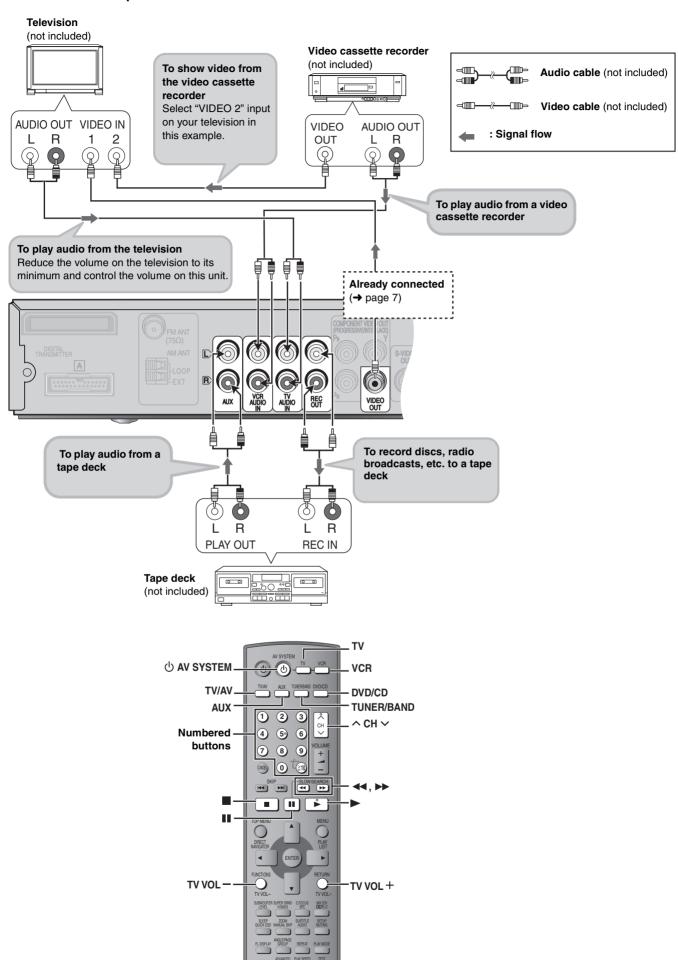
C, RS, LS, SW: -6 dB to +6 dB

(L, R: Only the balance is adjustable.)

• To adjust the balance of the front speakers While "L" or "R" is selected, press [◄, ▶].

# Operating other equipment

# **■** Connection example



# 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 26).

### 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, and then aim it at the television for the following operations:

# Turning the television on/off

Press [ AV SYSTEM].

Switching the television's video input mode

Press [TV/AV].

**Changing channels** 

Press [ A CH V ].

Adjusting the volume

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

### 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] to light up the button, and then aim it at the video cassette recorder for the following operations:

# Turning the video cassette recorder on/off

Press [也 AV SYSTEM].

Play, pause and stop

Press [▶] (play), [▮▮] or [▮].

Fast forward and rewind

Press [◀◀] or [▶▶].

# Connecting a laser disc or record player

Connect instead of a video cassette recorder (→ page 26) 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.

## Changing the remote control code

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

Aim the remote control at the equipment.

## While pressing [TV] or [VCR]

# 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.

# Operating the tape deck

## Recording to the tape deck

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

or

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

2 Start recording and play.

## Listening to the tape deck

Press [AUX] to select "AUX" as the source.

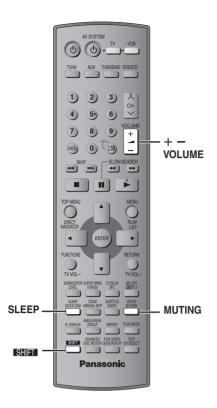
## **Television code list**

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

# Video cassette recorder code list

Viueu casse	tte recorder	code list	
PANASONIC: AKAI:	01, 29, 30 06, 08, 16, 17, 19, 37	NEC: NOKIA:	04, 21, 36, 37 08, 10, 11, 18, 22, 27, 37
ALBA: BAIRD: BLAUPUNKT:	02, 06, 23 08, 10, 37 01, 26, 29, 30, 33	NORDMENDE: OKANO: ORION: PHILIPS:	20, 21 06 05, 09 22, 32, 33, 34,
BUSH: DAEWOO: FERGUSON: FISHER:	02, 09, 23 15 31 05, 07, 10, 11,	PHONOLA: RFT: ROADSTAR:	35 32 33 02, 03, 18, 23,
GOLDSTAR/LG: GOODMANS:	12 03, 04, 36, 37 02, 03, 18, 23, 27, 33	SABA: SALORA:	27 21 08, 11, 17, 19, 37
GRUNDIG: HCM:	02, 23, 26, 28, 32, 33 02, 23	SAMSUNG: SANYO: SCHAUB LORENZ:	15, 16, 18, 27 07, 10, 11 10
HITACHI: ITT: ITT/NOKIA:	13, 14 08, 10, 11, 37 18, 27, 37	SCHNEIDER: SEG:	02, 03, 18, 23, 27, 32 02, 18, 23, 27
JVC: KENDO:	20, 21 08, 09, 37	SHARP: SIEMENS:	22 03, 10, 11, 32
LOEWE: LUXOR:	03, 32 08, 10, 11, 17, 19, 37	SONY: THOMSON: THORN:	24, 25, 26 21 10
MATSUI: METZ: MITSUBISHI:	03, 05, 09 01 17, 19, 21, 32	TOSHIBA: UNIVERSUM:	15, 17, 19, 32 03, 08, 32, 37

# Other useful functions





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

SLEEP 30 $\longrightarrow$ SLEEP 60 $\longrightarrow$ SLEEP 90 ^ $\longrightarrow$ OFF $\longleftarrow$ SLEEP 120 $\longleftarrow$ 



## To cancel the timer

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

# To confirm the remaining time

Press [SHIFT]+[SLEEP] again.

### To change the setting

Repeat the procedure from the beginning.



# Press [MUTING].

"MUTING" flashes on the unit's display.



### To cancel

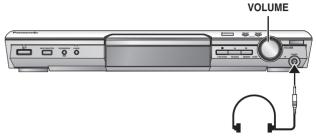
- Press [MUTING] again or reduce the volume to minimum (- dB), then raise it to the required level.
- $\bullet\,\mbox{Muting}$  is canceled when you switch the unit to standby.

# **Using headphones**



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

Headphone plug type: 3.5 mm stereo



Adjust headphone volume with [VOLUME].

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

# Note

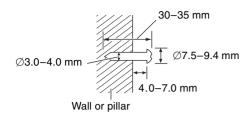
Avoid listening for prolonged periods of time to prevent hearing damage.

# Other speaker setup options

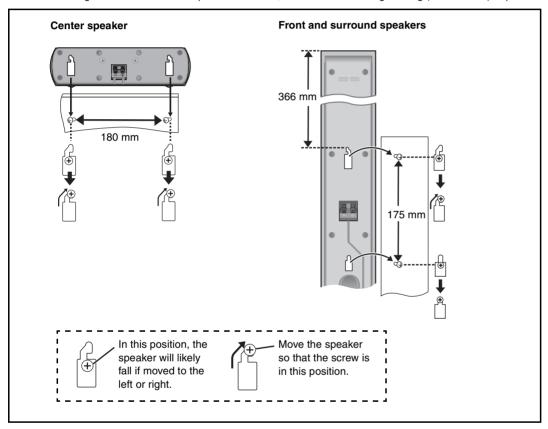
## ■ Attaching to a wall

You can attach all of the speakers to a wall.

- 1 Drive a screw (not included) into the wall.
- 2 Fit the speaker securely onto the screw(s) with the hole(s).



- The wall or pillar on which the speakers are to be attached should be capable of supporting 10 kg per screw. Consult a qualified building contractor when attaching the speakers to a wall. Improper attachment may result in damage to the wall and speakers.
- Use of optional speaker cables is recommended for wall-mounted front or surround speakers. (You can also remove the speaker cables from the pipes supplied with this system.)
- When mounting the front or surround speakers to a wall, we recommend using a string (not included) to prevent it from falling (→ page 4).



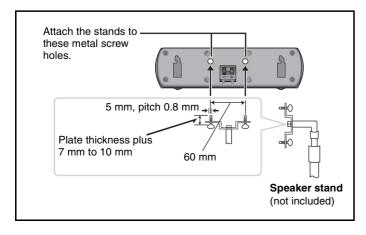
# ■ Fitting speaker stands (not included)

### (Center speaker only)

Ensure the stands meet these conditions before purchasing them.

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

- The stands must be able to support over 10 kg.
- The stands must be stable even if the speakers are in a high position.



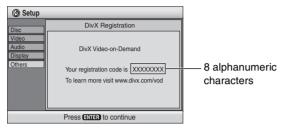
# About DivX VOD content

DivX Video-on-Demand (VOD) content is encrypted for copyright protection. In order to play DivX VOD content on this unit, you first need to register the unit.

Follow the online instructions for purchasing DivX VOD content to enter the unit's registration code and register the unit. For more information about DivX VOD, visit www.divx.com/vod.

### Display the unit's registration code

(→ page 21, "DivX Registration" in "Others" tab)



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

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

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

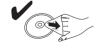
When playing this content

- The number of remaining plays is reduced by one if
- -you turn off the unit or press [SHIFT]+[SETUP].
- -you press [■]. (Press [▮▮] to pause play.)
- -you press [I◀◀, ▶►] or [◄◄, ▶►] etc. and arrive at another content or the start of the content being played.
- Resume (→ page 13, Stop) and Marker (→ page 18, Play Menu) functions do not work.

# **Disc handling**

# ■ To clean discs

Wipe with a damp cloth and then wipe dry.





# ■ Disc handling precautions

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

# Glossary

### Decoder

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

### DivX

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

# **Dolby Digital**

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

### **DTS (Digital Theater Systems)**

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

### **Dvnamic 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/F

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 qual
  - This picture has the best quality and is the best to use when adjusting the picture.
- P: Predictive coded picture

This picture is calculated based on past I or P-pictures.

B: Bidirectionally-predictive coded picture

This picture is calculated by comparing past and future I and P-pictures so it has the lowest volume of information.

### Linear PCM (pulse code modulation)

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

### MPEG4

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

# Playback control (PBC)

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

## Sampling frequency

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

# **Maintenance**

# Clean this unit with a soft, dry cloth.

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

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

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

RQT8221

# Safety precautions

# **Placement**

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

Do not place heavy items on the unit.

# **Voltage**

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

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

# AC mains lead protection

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

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

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

# Language code list

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WMA is a compression format developed by Microsoft Corporation. It achieves the same sound quality as MP3 with a file size that is smaller than that of MP3.





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This product is licensed under the MPEG-4 Visual patent portfolio license for the personal and non-commercial use of a consumer for (i) encoding video in compliance with the MPEG-4 Visual Standard ("MPEG-4 Video") and/or (ii) decoding MPEG-4 Video that was encoded by a consumer engaged in a personal and non-commercial activity and/or was obtained from a video provider licensed by MPEG LA to provide MPEG-4 Video. No license is granted or shall be implied for any other use. Additional information including that relating to promotional, internal and commercial uses and licensing may be obtained from MPEG LA, LLC. See <a href="http://www.mpegla.com">http://www.mpegla.com</a>.

Official DivX Certified™ product.

Plays DivX°5, DivX°4, DivX°3, and DivX°VOD video content (in compliance with DivX Certified™ technical requirements).

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# **Specifications**

### **AMPLIFIER SECTION**

**RMS Output Power: Dolby Digital Mode** 

170 W per channel (6 Ω), 1 kHz, 10 % THD Front Ch Surround Ch 70 W per channel (4  $\Omega$ ), 1 kHz, 10 % THD 260 W per channel (4  $\Omega$ ), 1 kHz, 10 % THD Center Ch Subwoofer Ch 260 W per channel (4  $\Omega$ ), 100 Hz, 10 % THD Total RMS Dolby Digital mode power

**DIN Output Power: Dolby Digital Mode** 

140 W per channel (6 Ω), 1 kHz, 1 % THD Front Ch Surround Ch 55 W per channel (4 Ω), 1 kHz, 1 % THD Center Ch 180 W per channel (4  $\Omega$ ), 1 kHz, 1 % THD 180 W per channel (4  $\Omega$ ), 100 Hz, 1 % THD Subwoofer Ch Total DIN Dolby Digital mode power

# FM/AM TUNER, TERMINALS SECTION

Preset station FM 15 stations AM/MW 15 stations

Frequency Modulation (FM)

Frequency range 87.50-108.00 MHz (50-kHz step) Sensitivity 1.5 µV (IHF) S/N 26 dB 1.2 µV 75  $\Omega$  (unbalance) Antenna terminals

Amplitude Modulation (AM/MW)

Frequency range 522-1629 kHz (9-kHz step) AM Sensitivity S/N 20 dB at 999 kHz 560 µV/m

Phone jack

**Terminal** Stereo, 3.5 mm jack

# **DISC SECTION**

### Discs played [8 cm or 12 cm]

(1) DVD (DVD-Video, DVD-Audio, DivX\*1, 2)

(2) DVD-RAM (DVD-VR, JPEG\*2, 3, MPEG4\*2, 4, DivX\*1, 2)

(3) DVD-R (DVD-Video, DivX\*1,2)

(4) DVD-RW (DVD-Video, DVD-VR, DivX\*1,2)

(5) + R/+RW (Video)

(6) CD, CD-R/RW [CD-DA, Video-CD, SVCD\*5, MP3\*2, 6, WMA\*2, 7, JPEG\*2,3, MPEG4\*2,4, DivX\*1,2, HighMAT Level 2 (Audio and Image)]

\*1 DivX 3.11, 4.x, 5.x

GMC (Global Motion Compensation) is not supported.

\*2 The total combined maximum number of recognizable audio, picture and video contents and groups: 4000 audio, picture and video contents and 400 groups.

\*3 Exif Ver 2.1 JPEG Baseline files

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

\*4 MPEG4 data recorded with Panasonic SD multi cameras or DVD video recorders

Conforming to SD VIDEO specifications (ASF standard)/ MPEG4 (Simple Profile) video system/G.726 audio system

\*5 Conforming to IEC62107

\*6 MPEG-1 Layer 3, MPEG-2 Layer 3

\*7 Windows Media Audio Ver.9.0 L3

Not compatible with Multiple Bit Rate (MBR)

Pick up

Wavelength CD 785 nm DVD 662 nm CLASS 2/CLASS 3A Laser power **NORSK** 

Bølgelengde

CD 785 nm DVD 662 nm

Laserstyrke Ingen farlig stråling sendes ut

Audio output (Disc)

5.1ch (FL, FR, C, SL, SR, SW) Number of channels

Audio performance

(1) Frequency response

DVD (linear audio) 10 Hz-22 kHz (48 kHz sampling) 10 Hz-44 kHz (96 kHz sampling) DVD-Audio 10 Hz-88 kHz (192 kHz sampling)

10 Hz-20 kHz CD-Audio

(2) S/N ratio

◆CD-Audio 95 dB

(3) Dynamic range

DVD (linear audio) 95 dB ● CD-Audio 93 dB

(4) Total harmonic distortion

0.005 % CD-Audio

## **VIDEO SECTION**

Video system

Signal system PAL625/50, PAL525/60, NTSC

Composite video output

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

Scart jack (1 system)

S-video output

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

Component video output

[NTSC: 525 (480) p/525 (480) i, PAL: 625 (576) p/625 (576) i] Y output level 1 Vp-p (75 Ω) P<sub>B</sub> output level 0.7 Vp-p (75 Ω) PR output level  $0.7 \text{ Vp-p } (75 \Omega)$ Pin jack (Y: green, PB: blue, PR: red) (1 system) **Terminal** 

RGB video output

R output level 0.7 Vp-p (75 Ω) 0.7 Vp-p (75 Ω) G output level B output level 0.7 Vp-p (75 Ω) **Terminal** Scart jack (1 system)

## SPEAKER SECTION

Front speakers SB-FS930 Type 2 way, 3 speaker system (Bass reflex) Speaker unit(s) Impedance 6 Ω 1. Woofer 8 cm Cone type 2. Woofer 8 cm Cone type 6 cm Ring shaped dome type 3. Tweeter Input power (IEC) . 170 W∗8 (Max) Output sound pressure 84 dB/W (1.0 m) Cross over frequency 7 kHz Frequency range 75 Hz-50 kHz (-16 dB) 90 Hz-45 kHz (-10 dB)

Dimensions (W×H×D) Mass Surround speakers SB-FS880

2 way, 2 speaker system (Bass reflex) Type Speaker unit(s) Impedance 4  $\Omega$ 1. Woofer 8 cm Cone type 2. Tweeter Input power (IEC) Output sound pressure Cross over frequency Frequency range

Dimensions (W×H×D)

Mass Center speaker SB-PC930

Type Speaker unit(s) 1. Woofer

2. Woofer 3. Tweeter Input power (IEC) **Output sound pressure** Cross over frequency

Frequency range

Dimensions (W×H×D) Mass

Active subwoofer SB-WA885

Type Speaker unit(s)

1. Woofer 2. Woofer Output sound pressure Frequency range

Dimensions (W $\times$ H $\times$ D) Mass

6 cm Ring shaped dome type 70 W (Max) 81 dB/W (1.0 m) 7 kHz 78 Hz-50 kHz (-16 dB) 90 Hz-45 kHz (-10 dB) 260 mm×1234 mm×270 mm 3.92 kg 2 way, 3 speaker system (Bass reflex) Impedance 4 Ω 6.5 cm Cone type 6.5 cm Cone type 6 cm Ring shaped dome type

260 mm×1234 mm×270 mm

4.35 kg

110 Hz-50 kHz (-16 dB) 140 Hz-45 kHz (-10 dB) 320 mm×88 mm×96 mm 1.36 kg

260 W\*8 (Max)

5 kHz

82 dB/W (1.0 m)

1 way, 2 speaker system (Bass reflex)

15 cm Cone type 15 cm Cone type 84 dB/W (1.0 m) 34 Hz-220 Hz (-16 dB)

38 Hz-190 Hz (-10 dB) 202 mm×410 mm×500 mm

13.7 kg

RQT8221

## **GENERAL**

Power supply
Power consumption
Main unit
Subwoofer
Subwoofer
390 W
Dimensions (W×H×D)
430 mm×60 mm×348.3 mm
Mass
Main unit
2.7 kg
Operating temperature range
Operating humidity range
5 % to 90 % RH (no condensation)

Power consumption in standby mode	approx. 0.7 W
-----------------------------------	---------------

<sup>\*\*8</sup> Rating with low cut filter equipped amplifier

# **AMPLIFIER SECTION (for digital receiver)**

**RMS Output Power:** 

Surround Ch 70 W per channel (4  $\Omega$ ), 1 kHz, 10 % THD

**DIN Output Power:** 

Surround Ch 45 W per channel (4  $\Omega$ ), 1 kHz, 1 % THD

# **GENERAL** (for digital transmitter and receiver)

710 201	, ,, ,, ,,,
Digital transmitter	0.3 W
Digital receiver	35 W
97 mm×47.5 mm	×8.5 mm
103 mm×215 mm	×178 mm
Digital transmitter	0.03 kg
	Digital transmitter Digital receiver  97 mm×47.5 mm 103 mm×215 mm

AC 230 V 50 Hz

2.3 kg

Wireless module

Frequency range 2.402-2.480 GHz No. of channels 79 Bandwidth/Channel 1 MHz RF Output Power 13 dBm (Max) RF Output Impedance 50  $\Omega$ 

Digital receiver

Type of Emissions

Data Rate 1 Mbps
Operating temperature range +5 °C to +35 °C
Operating humidity range 5 % to 90 % RH (no condensation)

# Note

- 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 solutions indicated in the chart do not solve the problem, consult your dealer for instructions.

Power Page

No power.	●Insert the AC mains lead and system cable securely.	6, 8
The unit is automatically	◆The Sleep timer was working and had reached the set time limit.	28
switched to the standby mode.		

# Unresponsive or inoperable function

No response when any buttons are pressed.	<ul> <li>This unit cannot play discs other than the ones listed in these operating instructions.</li> <li>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.</li> <li>Condensation has formed: Wait 1 to 2 hours for it to evaporate.</li> </ul>	11 —
No response when remote control buttons are pressed.	<ul> <li>Check that the batteries are installed correctly.</li> <li>The batteries are depleted. Replace them with new ones.</li> <li>Aim the remote control at the remote control signal sensor and operate.</li> </ul>	8 8 10
No picture or sound.	Check the video or audio connection.  Check the power or input setting of the connected equipment.  Check that the disc has something recorded on it.	4, 6, 7, 26 —
You have forgotten your ratings password. Reset all the settings to Factory Preset.	•While stopped and "DVD/CD" is the source, press and hold [■] on the main unit and [≥10] on the remote control until "Initialised" disappears from the television. Turn the unit off and on again. All settings will return to the default values.	_

### **Subtitle**

Subtitle position is wrong.	Adjust the position. ("Subtitle Position" in Display Menu)	19
No subtitles.	Display the subtitles.	15
	Subtitles may not be displayed depending on the disc. DivX	_

# Marker

Cannot add markers.	● You cannot add markers. RAM DVD-RW (VR)	_
	● If the disc's elapsed play time doesn't appear on the unit's display, you cannot add markers.	_

## **A-B Repeat**

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

# Specific operation undesirable or unexpected

•	•	•
It takes time before play starts.	<ul> <li>Play may take time to begin when an MP3 track has still picture data. Even after the track starts, the correct play time will not be displayed. This is normal.</li> <li>This is normal on DivX video.</li> </ul>	_
Folders deeper than the eighth layer on a data disc are not displayed correctly. WMA MP3  JPEG MPEGA DivX	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 CD's.	_
Playback control menu doesn't appear. VCD with playback control	Press [■] twice and then press [▶] (play).	_
The program and random play functions do not work. DVD-V	These functions do not work with some DVD-Videos.	_
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 doesn't start.	This unit may not play WMA and MPEG4 that contains still picture data.  If playing DivX VOD content, refer to the homepage where you purchased the DivX VOD content. (Example: www.divx.com/vod) DivX  If a disc contains CD-DA and other formats, proper playback may not be possible.	=
Play restarts from the beginning of the track when soundtrack is changed. DVD-A	●This is normal on DVD-Audio.	_
Scenes are skipped intermittently. RAM DVD-RW (VR) DVD-V	<ul> <li>If you change the volume or sound field/quality setting during ADVANCED DISC REVIEW, the function continues without the on-screen display. Press [ADVANCED DISC REVIEW] again to cancel the function.</li> </ul>	14

# Sound abnormal or improper

orania autorinian or impropor		
Sound distorted.	Noise may occur when playing WMA.	_
Effects do not work.	<ul> <li>Some audio effects do not work or have less effect with some discs.</li> <li>Multi Re-master and Dolby Pro Logic II do not work if you have changed the play speed.</li> </ul>	
Humming is heard during play.	An AC mains lead or fluorescent light is near the subwoofer. Keep other appliances and cables away from the subwoofer.	_
No sound	There may be a pause in sound when you change the play speed.  Audio may not be output due to how files were created. DivX	 17
Sound mixed.	•If you are using the SCART (AV) terminal and the audio input terminals (TV AUDIO IN) at the same time, turn off the connected equipment at one or the other terminals.	_

# Menus

The Setup menu cannot be	Select "DVD/CD" as the source.	_
accessed.	■ Cancel all group, program and random play.	15

# Picture abnormal or unviewable

Picture distorted.	<ul> <li>Ensure that the unit is connected directly to the television, and is not connected through a video cassette recorder.</li> <li>Change "Source Select" in Picture Menu. DivX</li> </ul>	7 19
Picture size doesn't fit the screen.	Otherway the 7 areas this 7 areas this 7 areas this 7 areas the 7 areas the 7 areas the 7 areas this 7 areas	20 19 14
	Change the Zoom setting.	
Picture stops. DivX	Picture may stop if the DivX files are greater than 2GB.	_
The television may display incorrectly or colors appear faded.	<ul> <li>The unit and television are using different video systems. Use a multi-system or PAL television.</li> <li>The system used on the disc does not match your television.  – PAL discs cannot be correctly viewed on an NTSC television.  – This unit can convert NTSC signals to PAL 60 for viewing on a PAL television ("NTSC Disc Output" in "Video" tab).</li> </ul>	_  21
Menu is not displayed correctly.	Restore the zoom ratio to "×1.00".  Set "Subtitle Position" in Display Menu to "0".  Set "4:3 Aspect" in Display Menu to "Normal".	14 19 19
Auto zoom function does not work well.	<ul> <li>Turn off TV's zoom function.</li> <li>Use the other preset aspect ratios or manual adjustment.</li> <li>Zoom function may not work well, especially in dark scenes and may not work depending on the type of disc.</li> </ul>	14 —
The picture on the television disappears or stripes appear on the screen.	Mobile telephone chargers can cause some disturbance.     If you are using a TV indoor antenna, change to an outdoor antenna.     The television antenna wire is too close to the unit. Separate the antenna wire of the television from the unit.	=

# Progressive video Page

There is ghosting when progressive output is on.	<ul> <li>This problem is caused by the editing method or material used on DVD-Video, but should be corrected if you use interlace output. Change "Video Output Mode" in Picture Menu to "625i" or "525i".</li> </ul>	19
Pictures not in progressive output.	<ul> <li>Press [PROGRESSIVE] on the main unit so "PRG" is displayed. Or select "625p" or "525p" in "Video Output Mode" in Picture Menu.</li> <li>If the unit is connected to the television through VIDEO OUT, S-VIDEO OUT or SCART (AV) terminal, output will be interlace even if "PRG" is displayed.</li> </ul>	12, 19 7

# Listening to the radio

Noise is heard. "ST" flickers or doesn't light. Sound is distorted.	Adjust the position of the FM or AM antenna.     Use an outdoor antenna.	<u> </u>
A beat sound is heard.	● Turn the television off or move it away from the unit.	_
A low hum is heard during AM broadcasts.	Separate the antenna from other cables.	_

# **Television operation**

Cannot operate the TV.	Press [TV] first to operate the television.	_
	Check the remote control code for the TV manufacturer.	27

# Digital receiver

Wireless link indicator does not	Check that the main unit and the digital receiver are turned on.	9
light.	●Ensure that the digital transmitter is fully inserted into the slot of the main unit.	8

# **Unit displays**

The disclassic deals	Color (C) in the Color of the Color of the	0.4
The display is dark.	Select "Bright" in "FL Dimmer" in the "Others" tab.	21
"NO PLAY"	<ul> <li>You inserted a disc the unit cannot play; insert one it can.</li> <li>You inserted a blank disc.</li> </ul>	11 —
"NO DISC"	<ul> <li>You haven't inserted a disc; insert one.</li> <li>You haven't inserted the disc correctly; insert it correctly.</li> </ul>	_ 12
"F61"	<ul> <li>Check and correct the speaker cord connections.</li> <li>If this does not fix the problem, there is a power supply problem. Consult the dealer.</li> </ul>	4, 6
"DVD U11"	●Disc may be dirty. Wipe it clean.	30
"ERROR"	●Incorrect operation performed. Read the instructions and try again.	_
"DVD H□□" □□ stands for a number.	<ul> <li>Trouble may have occurred. The number following "H" depends on the status of the unit. Turn the unit off and then back to ON. Alternatively, turn the unit off, disconnect the AC mains lead, and then reconnect it.</li> <li>If the service numbers fail to clear, note the service number and contact a qualified service person.</li> </ul>	_
" W " is flashing.	•There is no link between the main unit and the digital receiver. Check that the digital receiver is turned on.	9
"W01" is flashing or lit.	• Re-initialize the main unit: While stopped and "DVD/CD" is the source, press and hold [■] on the main unit and [≥10] on the remote control until "Initialised" disappears from the television. Turn the unit off and on again. If the problem persists, contact a qualified service person.	_

# **Television displays**

	,	
"⊙"	The operation is prohibited by the unit or disc.	_
"Cannot play group xx, content	You are trying to play incompatible group or content.	_
xx"		
"Cannot display group xx, content xx"		
"Group xx, content xx is protected"	You are trying to play protected group or content. You cannot play it.	_
"Cannot play audio" "No audio"	<ul> <li>Audio has not been recorded, or recorded in a format this unit cannot playback. Video playback only is possible.</li> </ul>	17
"Check the disc"	●This disc may be dirty.	30
"This disc may not be played in your region"	<ul> <li>You can only play DVD-Video if their region number is the same or includes the same region number as the unit or if the DVD-Video is marked "ALL". Confirm the region number for the unit on the rear panel.</li> </ul>	Cover page
No on-screen display.	● Select "On" in "On-Screen Messages" in the "Display" tab.	21
"Authorization Error" DivX	You are trying to play the DivX VOD content that was purchased with a different registration code. You cannot play the content on this unit.	30
"Rented Movie Expired" DivX	●The DivX VOD content has zero remaining plays. You cannot play it.	30

## **DIGITAL TRANSMITTER SH-FX50T DIGITAL RECEIVER SE-FX50** C€0682@

OPERATING AT 2402MHz TO 2480MHz

Declaration of Conformity (DoC)

Hereby, Panasonic AVC Networks Singapore Pte. Ltd. (PAVCSG) declares that this product is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. Customers can download a copy of the original DoC to our R&TTE products from our DoC server: http://www.doc.panasonic.de

Contact in the EU: Panasonic Services Europe, a Division of Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 15 22525 Hamburg, F. R. Germany

This product is intended to be used in the following countries: AT (Austria), BE (Belgium), CH (Switzerland), CZ (Czech Republic), DE (Swizerland), Cz (Czech Republic), DE (Germany), DK (Denmark), EE (Estonia), ES (Spain), FI (Finland), FR (France), GR (Greece), HU (Hungary), IT (Italy), LT (Lithuania), LV (Latvia), NL (Netherlands), NO (Norway), PL (Poland), PT (Portugal), SE (Sweden), SI (Slovenia), SK (Slovakia)

### Suomi

### Yhdenmukaisuusilmoitus

Panasonic AVC Networks Singapore Pte. Ltd. (PAVCSG) ilmoittaa täten, että tämä tuote on direktiivin 1999/5/EY olennaisten vaatimusten ja muiden asiaan kuuluvien määräysten mukainen. Asiakkaat voivat ladata radio- ja telepäätetuotteidemme alkuperäisen yhdenmukaisuusilmoituksen palvelimestamme: http://www.doc.panasonic.de

Yhteystiedot Euroopan unionissa: Panasonic Services Europe, a Division of Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 15 22525 Hamburg, F. R. Germany

Tämä tuote on tarkoitettu käytettäväksi seuraavissa maissa: AT (Itävalta), BE (Belgia), CH (Sveitsi), CZ (Tsekin tasavalta), DE (Saksa), DK (Tanska), EE (Viro), ES (Espanja), FI (Suomi), FR (Ranska), GR (Kreikka), HU (Unkari), IT (Italia), LT (Liettua), LV (Latvia), NL (Alankomaat), NO (Norja), PL (Puola), PT (Portugali), SE (Ruotsi), SI (Slovenia), SK (Slovakia)

### Ελληνικά

**Δήλωση περί συμμόρφωσης** Με το παρόν, η Panasonic AVC Networks Singapore Pte. Ltd. (PAVCSG) δηλώνει ότι αυτό το singapore Pte. Ltd. (PAVCSG) δηλώνει ότι αυτό το προίόν συμμορφώνεται με τις βασικές προϋποθέσεις και τις σχετικές διατάξεις της Ευρωπαϊκής Οδηγίας 1999/5/ΕC.
Οι πελάτες μπορούν να πραγματοποιήσουν λήψη της δήλωσης περί συμμόρφωσης για τα προϊόντα R&TTE από τον διακομιστή μας στη διεύθυνση: http://www.doc.panasonic.de

Επικοινωνία στην ΕΕ: Panasonic Services Europe, a Division of Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 15 22525 Hamburg, F. R. Germany

Αυτό το προϊόν προορίζεται για χρήση στις ακόλουθες χώρες: ΑΤ (Αυστρία), ΒΕ (Βέλγιο), CH (Ελβετία), CZ (Δημοκρατία της Τσεχίας), DΕ (Γερμανία), DK (Δανία), ΕΕ (Εσθονία), ΕS (Ισπανία), FΙ (Φινλανδία), FR (Γαλλία), GR (Ελλάδα), HU (Ουγγαρία), IT (Ιταλία), LT (Λιθουανία), LV (Λετονία), NL (Ολλανδία), NO (Νορβηγία), PL (Πολωνία), PT (Πορτογαλία), SE (Σουηδία), SI (Σλοβενία), SK (Σλοβακία)

Português

Declaração de Conformidade (DoC)

A Panasonic AVC Networks Singapore Pte. Ltd. (PAVCSG) declara que este produto está em conformidade com os requisitos essenciais e outras provisões relevantes da Directiva 1999/5/FC

Os clientes podem transferir uma cópia da DoC original para os nossos produtos R&TTE a partir do nosso servidor de DoC:

http://www.doc.panasonic.de

Contactos na UE: Panasonic Services Europe, a Division of Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 15 22525 Hamburg, F. R. Germany

Este produto destina-se a ser utilizado nos seguintes países: AT (Áustria), BE (Bélgica), CH (Suíça), CZ (República Checa), DE (Alemanha), DK (Dinamarca), EE (Estónia), ES (Espanha), FI (Finlândia), FR (França), GR (Grécia), HU (Hungria), IT (Itália), LT (Lituânia), LV (Letónia), NL (Holanda), NO (Noruega), PL (Polónia), PT (Portugal), SE (Suécia), SI (Eslovénia), SK (Eslováguia)

### Lietuviškai

Atitikties deklaracija (DoC)

Panasonic AVC Networks Singapore Pte. Ltd., (PAVCSG) patvirtina, kad šis gaminys atitinka svarbiausius direktyvos 1999/5/EB reikalavimus ir kitas taikytinas nuostatas.

Klientai gali atsisiųsti mūsų R&TTE gaminių DoC originalą iš DoC serverio: http://www.doc.panasonic.de

ES kontaktiniai duomenys: Panasonic Services Europe, a Division of Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 15 22525 Hamburg, F. R. Germany

Šis gaminys yra skirtas naudoti šiose šalyse: AT Sis garinnys yra skirtas naudoti siose saiyse. Ar (Austrija), BE (Belgija), CH (Šveicarija), CZ (Čekija), DE (Vokietija), DK (Danija), EE (Estija), ES (Ispanija), FI (Suomija), FR (Prancūzija), GR (Graikija), HU (Vengrija), IT (Italija), LT (Lietuva), LV (Latvija), NL (Nyderlandai), NO (Norvegija), PL (Lenkija), PT (Portigalija), SE (Švedija), SI (Slovénija), SK (Slovákija)

### Slovenščina

Izjava o skladnosti (DoC)

S tem, Panasonic AVC Networks Singapore Pte. Ltd. (PAVCSG) izjavlja, da je ta izdelek v skladu s temeljnimi zahtevami in drugimi ustreznimi določbami Direktive 1999/5/ES. Kupci si lahko za naše izdelke naložijo kopijo izjave o skladnosti iz našega serverja: http://www.doc.panasonic.de

Stiki v EU: Panasonic Services Europe, a Division of Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 15 22525 Hamburg, F. R. Germany

Ta izdelke je namenjen za uporabo v naslednjih državah: AT (Avstrija), BE (Belgija), CH (Švica), CZ ulzavali. Nf. (Natilja), BE (Beiglja), CH (Svica), CE (Češka Republika), DE (Nemčija), DK (Danska), EE (Estonija), ES (Španija), F1 (Finska), FR (Francija), GR (Grčija), HU (Madžarska), IT (Italija), LT (Litva), LV (Latvija), NL (Nizozemska), NO (Norveška), PL (Poljska), PT (Portugalska), SE (Čestavija), SE (Clasavija), SE (Clasavij (Švedska), SI (Slovenija), SK (Slovaška)

Samsvarserklæring Panasonic AVC Networks Singapore Pte. Ltd.

(PAVCSG) erklærer herved at dette produktet samsvarer med de vesentlige krav og andre relevante bestemmelser i direktiv 1999/5/EF. Kundene kan laste ned en kopi av den originale samsvarserklæringen til vårt radio- og teleterminalutstyr (R&TTE) fra serveren (DoC-serveren) vår: http://www.doc.panasonic.de

Kontakt i EU: Panasonic Services Europe, a Division of Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 15 22525 Hamburg, F. R. Germany

Dette produktet er beregnet på bruk i følgende land: AT (Østerrike), BE (Belgia), CH (Sveits), CZ (Tsjekkiske republikk), DE (Tyskland), DK (Danmark), EE (Estland), ES (Spania), FI (Finland), FR (Frankrike), GR (Hellas), HU (Ungarn), IT (Italia), LT (Litauen), LV (Latvia), NL (Nederland), NO (Norge), PL (Polen), PT (Portugal), SE (Sverige), SI (Slovenia), SK (Slovakia)

Magyar Megfelelőségi nyilatkozat (DoC)

Az Panasonic AVC Networks Singapore Pte. Ltd. (PAVCSG) ezúton kijelenti, hogy ez a termék megfelel az 1999/5/EK irányelv alapvető követelményeinek és egyéb vonatkozó rendelkezéseinek

Az ügyfelek letölthetik a Rádió- és Távközlési Végberendezés (R&TTE) termékeinkre vonatkozó, eredeti DoC-k másolatát DoC kiszolgálónkról: http://www.doc.panasonic.de

Európai Uniós kapcsolatok: Panasonic Services Europe, a Division of Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 15 22525 Hamburg, F. R. Germany

Ezt a terméket az alábbi országokban történő használatra szánják. AT (Ausztria), BE (Belgium), CH (Svájc), CZ (Cseh Köztársaság), DE (Németország), DK (Dánia), EE (Észtország), ES (Spanyolország), FI (Finnország), FR (Franciaország), GR (Görögország), HU (Magyarország), IT (Olaszország), LT (Litvánia), LV (Lettország), NL (Hollandia), NO (Norvégia), PL (Lengyelország), PT (Portugália), SE (Svédország), SI (Szlovénia), SK (Szlovákia)

Slovensky Prehlásenie konformity (DoC) Týmto spoločnosť Panasonic AVC Networks Singapore Pte. Ltd. (PAVCSG) prehlasuje, že tento produkt je v súlade s dôležitými požiadavkami a inými ustanoveniami Smernice 1999/5/EC. Zákazníci si môžu prebrať kópiu originálu DoC pre naše R&TTE produkty s nášho DoC servera. http://www.doc.panasonic.de

Kontakt v EU: Panasonic Services Europe, a Division of Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 15 22525 Hamburg, F. R. Germany

Tento produkt je určený pre požitie v nasledujúcich krajinách: AT (Rakúsko), BE (Belgicko), CH (Švajčiarsko), CZ (Česko), DE (Nemecko), DK (Dánsko), EE (Estónsko), ES (Španielsko), FI (Fínsko), FR (Francúzsko), GR (Grécko), HU (Maďarsko), IT (Taliansko), LT (Litva), LV (Holandsko), NL (Holandsko), NO (Nórsko), PL (Poľsko), PT (Portugalsko), SE (Švédsko), SI (Slovinsko), SK (Slovensko)

### Eesti

Vastavusdeklaratsioon (VD) Käesolevaga deklareerib Panasonic AVC Networks Singapore Pte. Ltd. (PAVCSG), et antud toode vastab 1999/5/EÜ direktiivi põhinõuetes ning muudes olulistes sätetes toodud nõuetele. Klientidel on võimalik meie R&TTE-toodete originaalvastavus-deklaratsiooni ärakiri meie VD-serverilt alla laadida: http://www.doc.panasonic.de

Kontaktandmed EÜ-s: Panasonic Services Europe, a Division of Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 15 22525 Hamburg, F. R. Germany

Käesolev toode on ette nähtud kasutamiseks CH (Sveits), CZ (Tšehhi Vabariik), DE (Belgia), CH (Sveits), CZ (Tšehhi Vabariik), DE (Saksamaa), DK (Taani), EE (Eesti), ES (Hispaania), FI (Soome), FR (Prantsusmaa), GR (Kreeka), HU (Ungari), IT (Itaalia), LT (Leedu), LV (Läti), NL (Holland), NO (Norra), PL (Poola), PT (Portugal), SE (Rootsi), SI (Sloveenia), SK (Slovakkia)

### Latviešu

Paziņojums par atbilstību (DoC)

Ar šo "Panasonic AVC Networks Singapore Pte. Ltd. (PAVCSG), paziņo, ka šis izstrādājums atbilst direktīvas 1999/5/EK prasībām un citiem ar to saistītajiem nolikumiem.

Klienti var lejupielādēt mūsu radio un telekomunikāciju termināļa aprīkojuma (R&TTE) izstrādājuma oriģinālā paziņojuma kopiju no mūsu DoC servera: http://www.doc.panasonic.de

Saziņa ES valstīs: Panasonic Services Europe, a Division of Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 15 22525 Hamburg, F. R. Germany

Šis izstrādājums ir paredzēts lietošanai šādās valstīs: AT (Austrija), BE (Beļģija), CH (Šveice), CZ (Čehija), DE (Vācija), DK (Dānija), EE (Igaunija), ES (Spānija), FI (Somija), FR (Francija), GR (Grieķija), HU (Ungārija), IT (Itālija), LT (Lietuva), LV (Latvija), NL (Nīderlande), NO (Norvēģija), PL (Polija), PT (Portugāle), SE (Zviedrija), SI (Slovenija), SK (Slovakija)