# **Panasonic**



The illustration shows SC-PT950.

### Region number

The player plays DVD-Video marked with labels containing the region number "1" or "ALL".

Example:



















### U.S.A. and Canada



As an ENERGY STAR® Partner,\* Panasonic has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

\* For Canada only: The word "Participant" is used in place of the word "Partner".

# Wireless surround speakers

Wireless subwoofer

# High-quality picture

HDMI capability, Advanced progressive scan and more.

# XM® Satellite Radio

Enjoy a variety of digital radio channels.

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

If you have any questions contact

In the U.S.A.: 1-800-211-PANA (7262)

In Canada: 1-800-561-5505

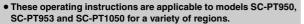






### Dear customer

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



- Unless otherwise indicated, illustrations in these operating instructions are of SC-PT950 for U.S.A. and Canada.
- 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-PT950	SC-PT953	SC-PT1050
Main unit	SA-PT950	SA-PT953	SA-PT1050
Front speakers	SB-HF950	SB-HF950	SB-HF1050
Center speaker	SB-HC950	SB-HC950	SB-HC950
Surround speakers	SB-HS950	SB-HS950	SB-HS1050
Subwoofer	SB-HW950	SB-HW950	_
Active subwoofer	_	_	SB-WA1050
Digital transmitter	SH-FX65T	SH-FX65T	SH-FX65T
Wireless system	SE-FX65	SE-FX65	SE-FX66

### **CAUTION!**

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

### WARNING:

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

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

THE FOLLOWING APPLIES ONLY IN THE U.S.A. AND CANADA (For wireless system)

The following mark and symbols are located on bottom of the unit.



# CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE SCREWS. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

### THE FOLLOWING APPLIES ONLY IN THE U.S.A.

PT950: indicates features applicable to SC-PT950 only.

PT953: SC-PT953 only

### FCC Note:

PT1050 : SC-PT1050 only

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC caution: To maintain compliance with FCC regulations, shielded interface cables must be used with this equipment. Operation with non-approved equipment or unshielded cables may result in interference to radio and TV reception. Any changes or modifications not approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Responsible Party: Panasonic Corporation of North America One Panasonic Way Secaucus, NJ 07094

Support Contact:

Panasonic Consumer Electronics Company

Telephone No.: 1-800-211-7262



### WARNING:

To satisfy FCC RF exposure requirements for mobile transmitting devices, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended. The antenna used for this transmitter must not be co-located in conjunction with any other antenna or transmitter

# IMPORTANT SAFETY INSTRUCTIONS

Read these operating instructions carefully before using the unit. Follow the safety instructions on the unit and the applicable safety instructions listed below. Keep these operating instructions handy for future reference.

- Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- Follow all instructions. 4)
- Do not use this apparatus near water. 5)

replacement of the obsolete outlet.

- Clean only with dry cloth. 6)
- Do not block any ventilation openings. Install in accordance with the 7) manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. 9)

Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for

- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

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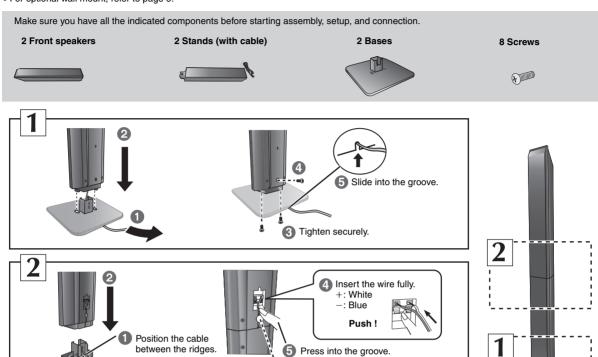




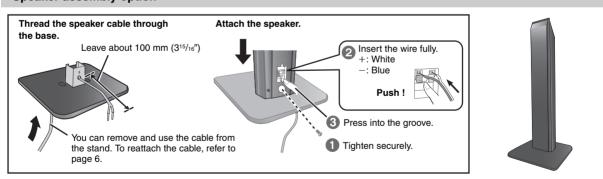
# Assembling the front speakers

### Preparation

- To prevent damage or scratches, lay down a soft cloth and perform assembly on it.
- For assembly, use a Phillips-head screwdriver.
- There is no difference between the right and left speakers and stands.
- For optional wall mount, refer to page 6.



### Speaker assembly option



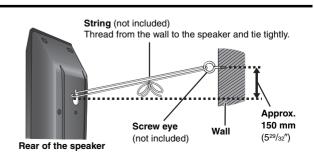
Tighten securely.

# ■ Preventing the speakers from falling

 You will need to obtain the appropriate screw eyes to match the walls or pillars to which they are going to be fastened.

Leave about 80 mm (35/16")

 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.





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

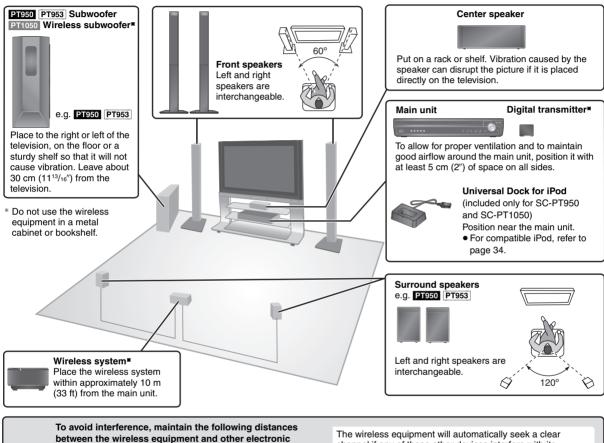
- Place speakers on flat secure bases.
- Placing speakers too close to floors, walls, and corners can result in excessive bass. Cover walls and windows with thick curtains.
- For optional wall mount, refer to page 6.

### Note

Keep your speakers at least 10 mm (13/32") away from the system for proper ventilation.

### Setup example

Place the front, center, and surround speakers at approximately the same distance from the seating position. Using "Auto Speaker Setup" (→ page 33) is a convenient way to get the ideal surround sound from your speakers when you are unable to place them an equal distance away from the seating position. The angles in the diagram are approximate.







Wireless LAN: approx. 2 m (6-1/2 ft)

Cordless phone and other electronic devices: approx. 2 m (6-1/2 ft)

channel if any of these other devices interfere with its communication. When this happens, the wireless link indicator [" W1 " or " WS (PT1050 only)"] flashes on the main unit, and there is 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 the wireless equipment or move the wireless equipment nearer to the main unit.



# Expand your listening options with a multi-room wireless sound system. **Optional Panasonic wireless accessory SH-FX85**

You can enjoy a multi-room wireless sound system when you use the optional Panasonic wireless accessory SH-FX85. For details, please refer to the operating instructions for the optional Panasonic wireless accessory.

### Notes on speaker use

### • Use only supplied speakers

Using other speakers can damage the unit, and sound quality will be negatively affected.

- 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, or continuous signals from an oscillator, test disc, or electronic instrument.
- When adjusting the sound quality.
- When turning the unit on or off.

### If irregular coloring occurs on your television

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

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

The demagnetizing function of the television should correct the problem. If it persists, move the speakers further away from the television.

### Caution

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

### Caution

Do not touch the front netted area of the speakers. Hold by the sides.
 e.g. Center speaker





Do not stand on the base. Be cautious when children are near.
 e.g. Front speaker



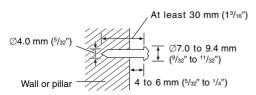
### Speaker installation options

### ■ Attaching to a wall

You can attach all of the speakers (except subwoofer) to a wall.

 The wall or pillar on which the speakers are to be attached should be capable of supporting 10 kg (22 lbs) 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.

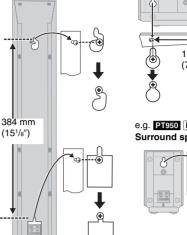
### 1) Drive a screw (not included) into the wall.



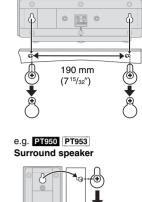
### ② Fit the speaker securely onto the screw(s) with the hole(s).

### Front speaker

Attach to a wall without the base and the stand



### Center speaker



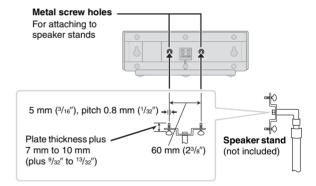
### ■ Fitting speaker stands (not included)

### (except front speakers and subwoofer)

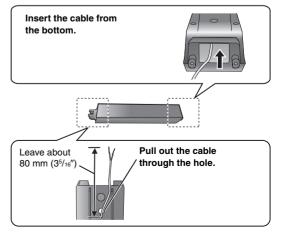
Ensure the stands meet these conditions before purchasing them. Note the diameter and length of the screws and the distance between screws as shown in the diagram.

- The stands must be able to support over 10 kg (22 lbs).
- The stands must be stable even if the speakers are in a high position.

### e.g. Center speaker



# ■ Reattaching the front speaker cable



# Cable connections

Turn off all equipment before connection and read the appropriate operating instructions.

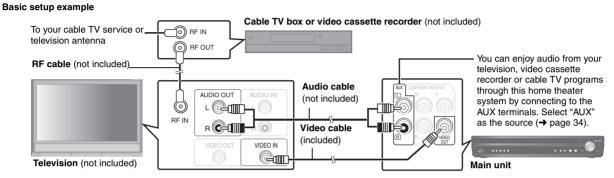
Do not connect the AC power supply cord until all other connections are complete.



### Main unit

(The illustration shows SC-PT1050.)

# Audio and video connections



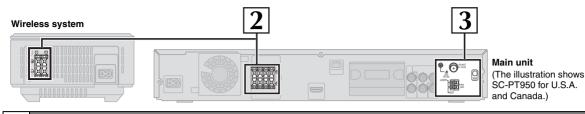
### Other connections for improved picture and audio quality

Television terminals	Cables required (not included)	Main unit terminals	Features
	HDMI cable	HDMI	This connection provides the best picture quality.
			<ul> <li>Set "Video Mode" to "On" (→ page 26, "HDMI" menu).</li> <li>Set "Video Output Mode" (→ page 23, Picture Menu).</li> </ul>
Hamil AV IN	Note  Non-HDMI-compliant cables cannot be utilized.  It is recommended that you use Panasonic's HDMI cable. Recommended part number: RP-CDHG15 (1.5 m/4.9 ft),	HƏMI AV OUT	EZ Sync "HDAVI Control"  If your Panasonic television is an HDMI control compatible television, you can operate your television synchronizing with home-theater operations or vice versa (→ page 28, Using the EZ Sync™ "HDAVI Control™").
	RP-CDHG30 (3.0 m/9.8 ft), RP-CDHG50 (5.0 m/16.4 ft), etc.		<ul> <li>Make the audio connection (→ above) when you use EZ Sync "HDAVI Control" function.</li> </ul>
COMPONENT VIDEO IN	Video cables ∧	COMPONENT VIDEO	This connection provides a much purer picture than the VIDEO OUT terminal.
(		Pa Y	<ul> <li>After making this connection, select "Darker" from the "Black Level Control" in the "Video" menu (→ page 26).</li> </ul>
All Panasonic televisions that have 480p input connectors are compatible. Consult the manufacturer if you have another brand of television.	ve 480p input tors are iible. Consult the icturer if you have r brand of	Connect to terminals of the same color.	To enjoy progressive video  Connect to a progressive output compatible television.  Set "Video Mode" to "Off" (→ page 26, "HDMI" menu).  Set "Video Output Mode" to "480p", and then follow the instructions on the menu screen (→ page 23, Picture Menu).
OPTICAL OUT	Optical digital audio cable (not included)  • Do not bend sharply when connecting.	OPTICAL	This unit can decode the surround signals received through cable TV box, digital broadcasting or satellite broadcasts. Refer to your equipment's operating instructions for details. Only Dolby Digital and PCM can be played with this connection.
	40 <del>- (</del>	IN	<ul> <li>After making this connection, make settings and select sound effects to suit your digital equipment (→ page 34).</li> </ul>

- Do not make the video connections through the video cassette recorder. Due to copy guard protection, the picture may not be displayed properly.
- Only one video connection is required.

# step 3 Cable

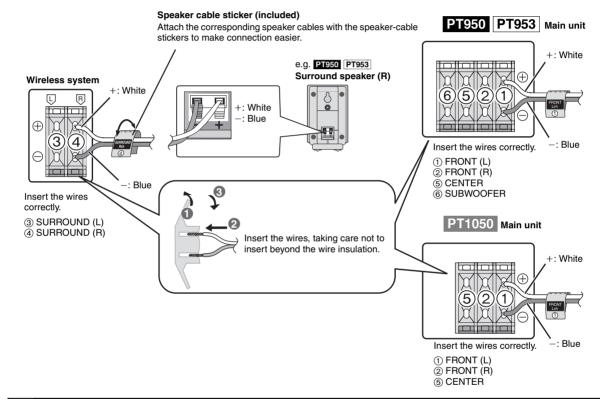
### Cable connections



### 2 Speaker connections

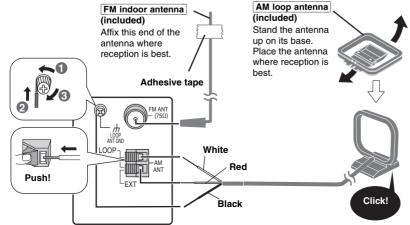


 Be careful not to cross (short-circuit) or reverse the polarity of the speaker wires as doing so may damage the speakers.



### 3 Radio antenna connections

• Keep loose antenna cables away from other wires and cables.



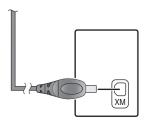
### XM antenna

### (not included)

Use an XM Connect & Play antenna, or XM Passport Mini-Tuner and Home Dock.

 Subscription is required to receive XM Satellite Radio.

Refer to page 30 for details.

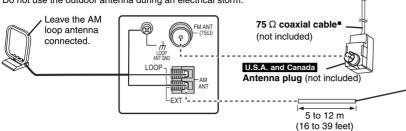


OTX0064

### Using an FM/AM outdoor antenna (optional)

Use outdoor antenna if FM/AM radio reception is poor.

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



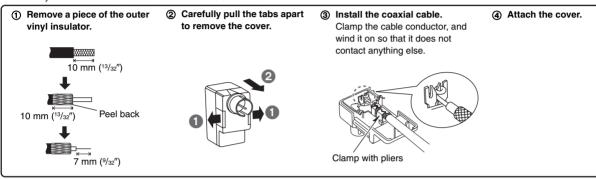
FM outdoor antenna [Using a television antenna (not included)]

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

### AM outdoor antenna [Using a vinyl wire (not included)]

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

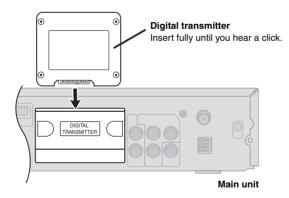
\* Rework your outdoor antenna's 75 Ω coaxial cable as follows.





# **Digital transmitter connection**

Do not insert or remove while the main unit is on.

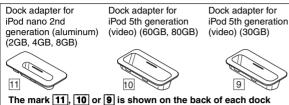




### iPod connection

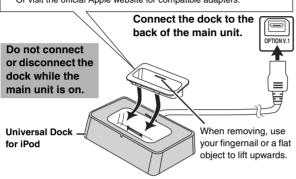
Made for iPod

Proceed to step 6 if you are not going to enjoy iPod with the main unit. For SC-PT953, use an optional SH-PD10 Universal Dock for iPod.

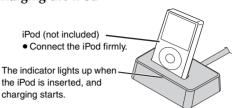


The mark [11], [10] or [9] is shown on the back of each dock adapter.

For other types of iPod, use the dock adapter sold separately.
 Or visit the official Apple website for compatible adapters.



### ■ Charging the iPod



Charging time

iPod nano 2nd generation (aluminum) iPod 5th generation (video) iPod nano 1st generation	Until iPod is fully charged
iPod 4th generation (color display) iPod 4th generation iPod mini	5 hours (fixed)

### Note

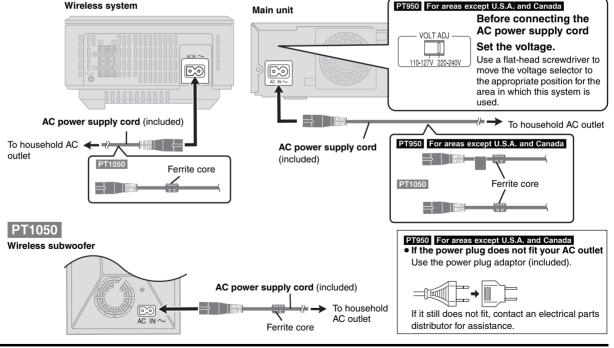
- · AC cord must be connected with the main unit.
- "OPTION \*" will be shown on the main unit's display during iPod charging in main unit standby mode. It will go off when charging is finished.

For the above models under "fixed 5-hour charging", "OPTION  $\star$ " continues to be displayed throughout this duration, even when your iPod is fully charged. You can turn off this display by removing the iPod from the dock.

• Compatibility depends on the software version of your iPod.



# **AC cord connections**



### Conserving power

The main unit and the wireless equipment consume a small amount of power when they are turned off (U.S.A. and Canada main unit: approx. 0.5 W, wireless system: approx. 0.2 W, wireless subwoofer PT1050: approx. 0.3 W, Others main unit: approx. 0.9 W, wireless system: approx. 0.3 W).

To save power when they are not to be used for a long time, unplug them from the household AC outlet.

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

### Note

The included AC power supply cords are for use with the main unit and wireless equipment only. Do not use them with other equipment. Also, do not use cords for other equipment with the main unit or wireless system.

### ■ PT1050 Before using your wireless subwoofer

Perform the pairing procedure below to use your wireless subwoofer.

### Preparation

- •Ensure all connections are completed.
- Turn on the main unit and reduce the volume.
- 1 Turn on your wireless subwoofer.
- 2 While pressing [▶▶/▶▶] on the main unit, press the numbered button [3] on the remote control until "P" lights in the main unit's display.
- 3 While "P" is displayed, press [I/D SET].



### Wireless subwoofer

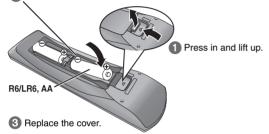
- 4 While pressing [▶▶/▶▶|] on the main unit, press the numbered button [3] on the remote control.
  - "WS" lights on the main unit's display.
- 5 Turn the wireless subwoofer off and on again.
  - •Make sure its indicator lights up green.



# Preparing the remote control

### ■ Batteries

2 Insert so the poles (+ and -) match those in the remote control.



• Do not use rechargeable type batteries.

### Do not

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

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

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

### ■ Use

Aim at the remote control signal sensor (→ page 13), avoiding obstacles, at a maximum range of 7 m (23 feet) directly in front of the unit



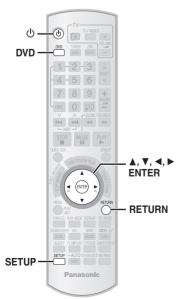
# **Performing QUICK SETUP**

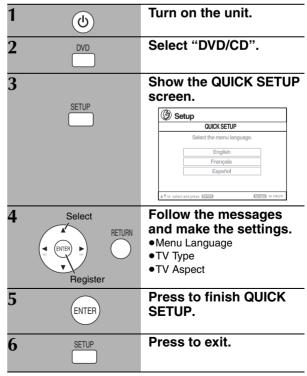
The QUICK SETUP screen assists you to make necessary settings.



To display the picture from the main unit, turn on your television and change its video input mode (e.g. VIDEO 1, AV 1, etc.).

- •To change your television's video input mode, refer to its operating instructions.
- This remote control can perform some basic television operations (→ page 12).





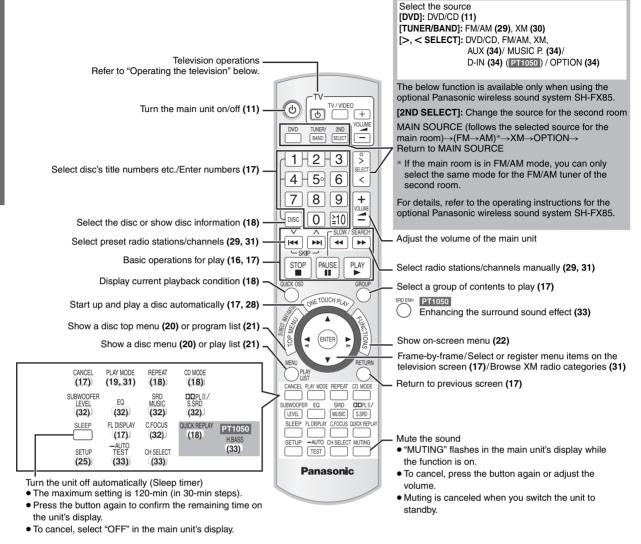
To change these settings later

Select "QUICK SETUP" in the "Others" menu (→ page 27).

# Control reference guide

See page references in parentheses.





### Operating the television

Aim the remote control at the Panasonic television and press the button.

[**め TV**]: Turn the television on/off

[TV/VIDEO]: Change the television's video input mode

+, -]: Adjust the television volume

- This may not work properly with some models.
- To operate some other brands of televisions, change the remote control code.

Aim the remote control at the television.

While pressing [ $\circlearrowleft$  TV], press the numbered buttons to enter the 4-digit television code.

If the code is correct, the television turns on or off. If it does not, try entering another code.

### Note

Reenter the codes after you change the batteries.

### Television code list

Panasonic:	0051, 0250	RCA:	0047
Fisher:	0154	Samsung:	0060, 0587, 0702
GE:	0047	Sanyo:	0154
Gold Star:	0178, 0317, 0457	Sharp:	0093, 0165
Hitachi:	0145	Sony:	0000
JVC:	0053	Sylvania:	0054
Magnavox:	0054	Thomson:	0047
Mitsubishi:	0150	Toshiba:	0156
Philips:	0054	Zenith:	0017
Quasar:	0051, 0250		

### Avoiding interference with other Panasonic equipment

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

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

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

- 1 Press and hold [►►/►►I] on the main unit and [2] on the remote control until the main unit's display shows "REMOTE 2".
- 2 Press and hold [ENTER] and [2] on the remote control for at least 2 seconds

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

### Standby/on switch [POWER U/I]

Turn the main unit on/off.

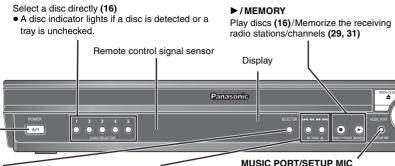
SELECTOR (29)

 $DVD/CD \rightarrow FM \rightarrow AM \rightarrow XM \rightarrow$ AUX→MUSIC P.→D-IN (PT1050)→

OPTION→Return to DVD/CD

Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power. (16)

### **5 DISC SELECTOR**



MUSIC PORT/SETUP MIC

■ /-TUNE MODE /—FM MODE

Select the tuning mode (29) Adjust the FM reception condition (29)

Stop playing (16)/

Connect an external device (34)/ Connect the setup microphone (33)

Skip or slow-search play (16)/ Select the radio stations/channels (29, 31)

### ▲ OPEN/CLOSE

Open/Close the disc drawer (16)

### DISC EXCHANGE

Open the disc drawer to exchange the disc in the play position (16)

Skip to the next disc tray (16)



Adjust the volume of the main unit.

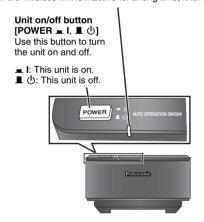
Headphones (not included)

Headphone plug type: Ø3.5 mm (1/8") stereo mini plug

- Reduce the volume before connecting.
- Audio is automatically switched to 2-channel stereo.
- To prevent hearing damage, avoid listening for prolonged periods of time.

### **AUTO OPERATION ON/OFF indicator**

The indicator lights red when the wireless system is turned on and lights green when the wireless link is activated. When the wireless link is inactive for a long time, it turns red.



# PT1050

### AUTO OPERATION ON/OFF indicator

The indicator lights red when the wireless system is turned on and lights green when the wireless link is activated.

When the wireless link is inactive for a long time, it turns red.

### Unit on/off button [POWER **■** ①, **■** []

Use this button to turn the unit on and off.

- (i): This unit is off.
- I: This unit is on.

# Listening caution



Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. This manufacturer and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion—and, most importantly, without affecting your sensitive hearing.

We recommend that you avoid prolonged exposure to excessive noise.

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing.

Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.



To establish a safe level:

- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:

· Leave it there.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

# Discs that can be played

### Commercial discs

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

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

Disc	Logo	DVD record	ed on a video er, etc.	co	led on a pomputer, e	tc.	Finalizing <sup>*6</sup>
		DVD-VR *2	DVD-V *4	WMA	MP3	JPEG	
DVD-RAM	R A M R A M 4.7	0	ı	×	0	0	Not necessary
DVD-R/RW	R R W R W	0	0	×	0	0	Necessary
DVD-R DL	R DL	<b>*</b> 3	0	×	×	×	Necessary
+R/+RW	_	×	<b>(</b> ()*5	X	×	×	Necessary
+R DL	_	×	(())*5	×	×	×	Necessary
CD-R/RW*1	_	_	_	0	0	0	Necessary* <sup>7</sup>

- It may not be possible to play all the above-mentioned discs in some cases due to the type of disc, the condition of the recording, the recording method, or how the files were created (→ page 15, Tips for making data discs).
- \*1 This unit can play CD-R/RW recorded with CD-DA or Video CD format.

  [WMA] [MP3] [JPEG] This unit also plays HighMAT discs.
- \*\*2 Discs recorded on DVD video recorders or DVD video cameras, etc. using Version 1.1 of the Video Recording Format (a unified video recording standard).
- \*3 Discs recorded on DVD video recorders or DVD video cameras using Version 1.2 of the Video Recording Format (a unified video recording standard).
- \*\*4 Discs recorded on DVD video recorders or DVD video cameras using DVD-Video Format.
- \*5 Recorded using a format different from DVD-Video Format, therefore some functions cannot be used.
- \*\*6 A process that allows play on compatible equipment. To play a disc that is indicated as "Necessary", the disc must first be finalized on the device it was recorded on.
- \*7 Closing the session will also work.

### ■ Discs that cannot be played

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

### Note about using a DualDisc

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

### ■ 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, liquids which prevent static electricity, 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.

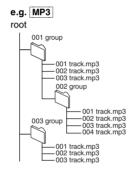
### ■ Tips for making data discs

Format	Disc	Extension	Reference
WMA	CD-R/RW	".WMA" ".wma"	<ul> <li>Compatible compression rate: between 48 kbps and 320 kbps</li> <li>You cannot play WMA files that are copy-protected.</li> <li>This unit does not support Multiple Bit Rate (MBR: an encoding process for audio content that produces an audio file encoded at several different bit rates).</li> </ul>
MP3	DVD-RAM DVD-R/RW CD-R/RW	"MP3" ".mp3"	Compatible compression rate:  between 32 kbps and 320 kbps for sampling frequencies of 32 kHz and above  between 8 kbps and 160 kbps for sampling frequencies of 24 kHz and below  This unit does not support ID3 tags.  Compatible sampling frequencies:  DVD-RAM, DVD-R/RW:  11.02, 12, 22.05, 24, 44.1 and 48 kHz  CD-R/RW:  8, 11.02, 12, 16, 22.05, 24, 32, 44.1 and 48 kHz
JPEG	DVD-RAM DVD-R/RW CD-R/RW	".JPG" ".jpg" ".JPEG" ".jpeg"	<ul> <li>JPEG files taken on a digital camera that conform to DCF Standard (Design rule for Camera File system) Version 1.0 are displayed.</li> <li>Files that have been altered, edited or saved with computer picture editing software may not be displayed.</li> <li>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.</li> </ul>

- 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.

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

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



### DVD-RAM

• Discs must conform to UDF 2.0.

### DVD-R/RW

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

### CD-R/RW

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

# **Maintenance**

### ■ To clean discs

Wipe with a damp cloth and then wipe dry





### ■ Clean this unit with a soft, dry cloth.

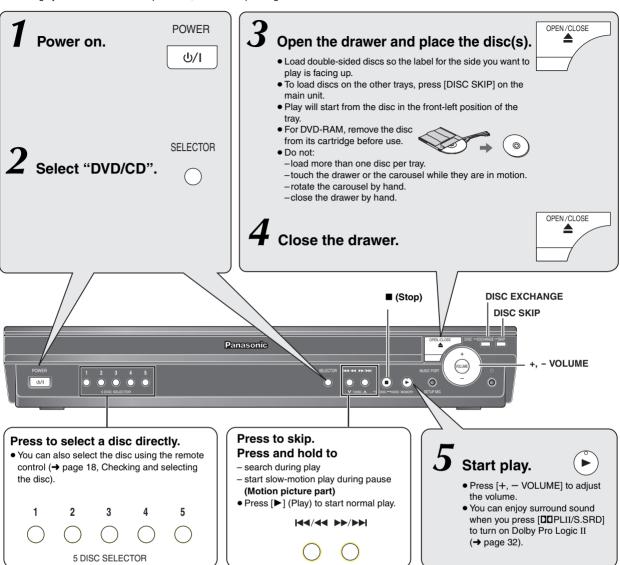
- Never use alcohol, paint thinner or benzine to clean this unit.
- Before using chemically treated cloth, carefully read the instructions that came with the cloth.

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.

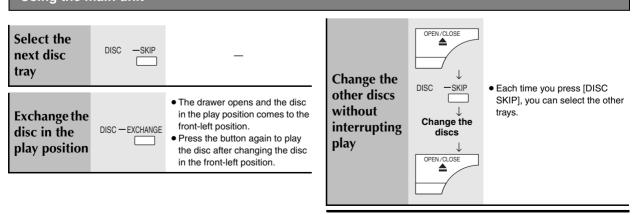
**Before moving the unit, ensure the disc trays are empty.** Failure to do so will risk severely damaging the discs and the unit.



• To change your television's video input mode, refer to its operating instructions.



### Using the main unit



### Note

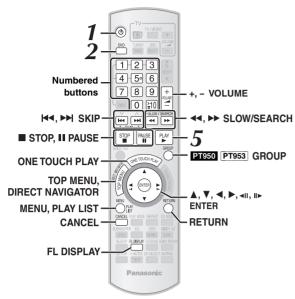
- DISC CONTINUES TO ROTATE WHILE MENUS ARE DISPLAYED.
- To preserve the unit's motor and your television screen, press [■] (Stop) when you are finished with the menus.
- ullet Total title number may not be displayed properly on +R/+RW.

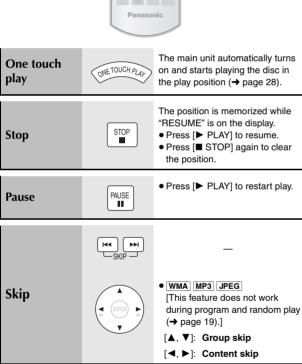
Start play

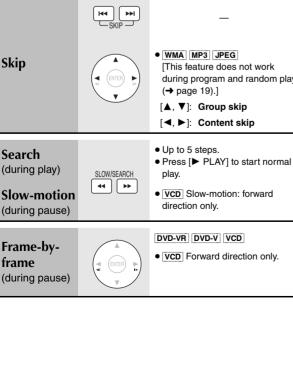
from a selected

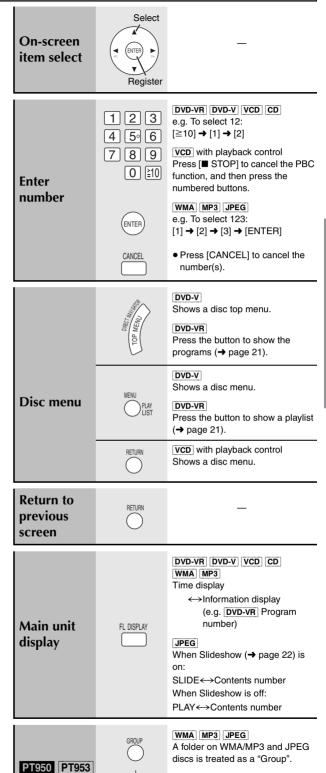
group

### Using the remote control







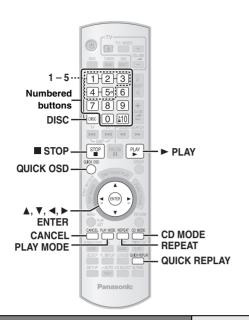


Select

ENTER

Register



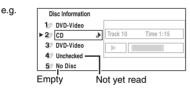


### Checking and selecting the disc

DISC

1 Press [DISC] to show the Disc information screen.

To exit the screen, press [DISC].



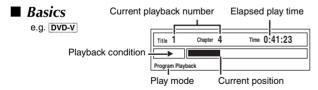
Press the numbered buttons ([1] – [5]) to select the disc.



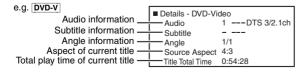
### Press [QUICK OSD].

Basics — Details

↑ off (No on-screen display)←



### ■ Details



# Playing CDs sequentially VCD CD WMA MP3



This feature is very convenient if you want to play several music CDs sequentially. Select an applicable disc before playing (→ Checking and selecting the disc, left).

### While stopped

1 Press [CD MODE].



### Press [► PLAY].

- If all loaded discs are DVDs, CD Mode does not work.
- HighMAT menus and Video CD playback control are disabled.
- You cannot turn CD Mode on or off during program or random play.
- If you want to play a DVD, press [CD MODE] again while stopped to cancel CD Mode. (CD Mode is also canceled when you switch the unit to standby, select another source, or change the disc in the play position.)
- DVD and JPEG are skipped without being played.



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

### **During play**

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



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



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

- This may not work depending on the disc's recording.
- This does not work with +R/+RW.

Convenient functions

PLAY MODE

- To change the selected program
- Press [▲, ▼] to select the program number. 2 Press the numbered buttons to change each item. (WMA MP3 Press [ENTER] to register the selection.)

- 1 Press [▲, ▼] to select the program number.
- 2 Press [CANCEL] (or press [▲, ▼, ◄, ▶] to select "Clear" and press

### To clear the selected program

- (ENTERI).

### To clear the whole program

Select "Clear all" with [▲, ▼, ◄, ▶] and press [ENTER].

The whole program is also cleared when the disc is moved out of the play position, the unit is turned off or another source is selected.

### ■ When CD Mode is off

Random play

You can play all the items on a disc in the play position in random order

DVD-V WMA MP3 JPEG

You can play selected item(s) on a disc in the play position in random order.

(1) DVD-V WMA MP3 JPEG

Press [▲, ▼] to select a group or a title.

(WMA MP3 JPEG Press [ENTER] to register the selection.)

e.g. DVD-V





② Press [► PLAY].

### ■ When CD Mode is on (→ page 18)

VCD CD WMA MP3

You can play all the items on all the discs in random order.

Press [▶ PLAY].





### Press [PLAY MODE] while stopped.

**Program and Random play** 

Program and random playback screens appear sequentially. Programoff (Cancel the program and random play) <

- Select "Play as Data Disc" in Other Menu (→ page 24) when using
- HighMAT discs without using the HighMAT function, or
- DVD-RAM or DVD-R/RW discs containing MP3 or JPEG files.
- DVD-V Some items cannot be played even if you have programmed them.

### Program play (up to 32 items)

### ■ When CD Mode is off

DVD-V VCD CD WMA MP3 JPEG

You can program all the items on a disc in the play position.

1) VCD CD Skip to step 2

Press the numbered buttons to select a group or title. (WMA MP3 JPEG Press [ENTER] to register the selection.)



- To select a 2-digit number
  - e.g. To select 12: [≥10] → [1] → [2] WMA MP3 JPEG [1] → [2] → [ENTER]
- 2 Press the numbered buttons to select a chapter or track. (WMA MP3 JPEG Press [ENTER] to register the selection.)
  - Repeat steps 1) and 2) to program other items.
- ③ Press [► PLAY].

### ■ When CD Mode is on (→ page 18)

VCD CD WMA MP3

You can program all the items on all the discs.

- 1 Press the numbered buttons ([1] [5]) to select a disc.
- (2) WMA MP3 Press the numbered buttons to select a group. (Press [ENTER] to register the selection.)
  - To select a 2-digit number

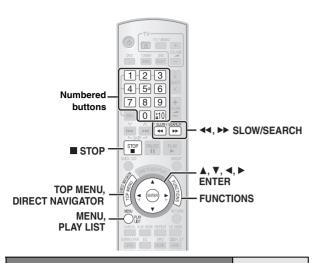
e.g. To select 12: [1]  $\rightarrow$  [2]  $\rightarrow$  [ENTER]

- 3 Press the numbered buttons to select a track.
  - (WMA MP3 Press [ENTER] to register the selection.)
  - To select a 2-digit number
  - e.g. To select 12: [≥10] → [1] → [2] WMA MP3 [1] → [2] → [ENTER]
  - Repeat steps ① to ③ to program other items.
- ④ Press [► PLAY].

### To select an item using the cursor buttons

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

# Playing data discs using navigation menus



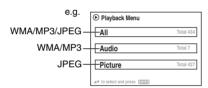


# Playing data discs WMA MP3 JPEG

- Select "Play as Data Disc" in Other Menu (→ page 24) when using
  - HighMAT discs without using the HighMAT function, or
  - DVD-RAM or DVD-R/RW discs containing MP3 or JPEG files.

### Playing items in order (Playback Menu)

- 1 Press [TOP MENU].
  - To exit the screen, press [TOP MENU].

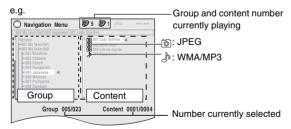


Press [▲, ▼] to select "All", "Audio" or "Picture" and press [ENTER].

### Playing from the selected item (Navigation Menu)

1 Press [MENU].

• To exit the screen, press [MENU].



- Press [◀] followed by [▲, ▼] to select the group and press [ENTER].
- To play content in the group in order

**Press [ENTER].**To start play from the selected content

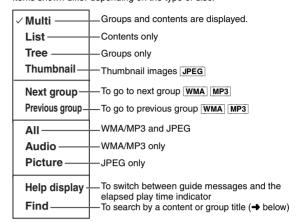
Press [▲, ▼] to select and [ENTER].

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.)

### ■ Using the submenu

- While Navigation Menu (→ left) is displayed Press [FUNCTIONS].
- ② Press [▲, ▼] to select an item and press [ENTER].

Items shown differ depending on the type of disc.



### ■ 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 [▲, ▼] to select a character and press [ENTER].
  - Repeat to enter another character.
  - Lower case characters are also searched.
  - Press [◄◄, ►► SLOW/SEARCH] 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].



Titles appear with CD Text disc playback.

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

• To exit the screen, press [TOP MENU] or [MENU].

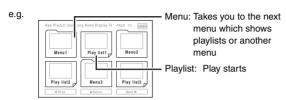
### Press [▲, ▼] to select the track and press [ENTER].

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

# Playing HighMAT<sup>TM</sup> discs WMA MP3 JPEG

MENU (Sp.)

- 1 Press [TOP MENU].
  - To exit the screen, press [■ STOP].
  - To change the menu background to the one recorded on the disc, press [FUNCTIONS].
- Press [▲, ▼, ◄, ▶] to select the item, and then press [ENTER].
  - Repeat this step if necessary.



### Selecting from the list

- 1 During play
  - Press [MENU].
  - To exit the screen, press [MENU].



- Press [◀] followed by [▲, ▼] to switch among "Playlist", "Group" and "Content" lists.
- 3 Press [▶] followed by [▲, ▼] to select an item and press [ENTER].

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

DVD-VR

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

### Playing the programs

- 1 Press [DIRECT NAVIGATOR].
  - To exit the screen, press [DIRECT NAVIGATOR].



- Press [▲, ▼] to select the program.
- Press [▶] to show the contents of the program and the disc.
- Press [ENTER].

### Playing a playlist

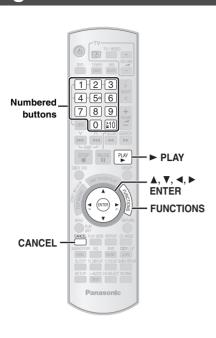
This works only when the disc contains a playlist.

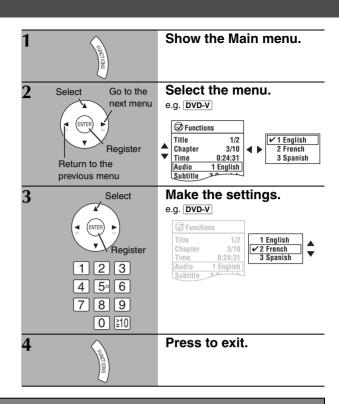
- 1 Press [PLAY LIST].
  - To exit the screen, press [PLAY LIST].



- Press [▲, ▼] to select the playlist.
- ? Press [ENTER].







### Main menu

### Items shown differ depending on the type of disc.

Program Group Title Chapter Track Playlist Content	To start from a specific item e.g. DVD-VR To select Program 12 Press the numbered buttons: [1] → [2] → [ENTER]  Program 2/16 Time 0:34:15  Program Search \$ 12
Time	(Time Slip does not work with +R/+RW discs.)  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].  • To change the steps more quickly, press and hold [▲, ▼].  To change remaining/elapsed time display
Audio	DVD-V   (with multiple soundtracks)   To select audio soundtrack     DVD-VR   VCD     To select "L", "R" or "LR"     DVD-V   (Karaoke disc)     To select "On" or "Off" for vocals     • Read the disc's instructions for details.     Signal type/data     LPCM/PPCM/DID Digital/DTS/MP3/MPEG: Signal type     KHz (Sampling frequency)/bit/ch (Number of channels)     e.g. 3/2

frequency

Number Select	VCD with playback control  To select number  While the disc menu is displayed  Press [▲, ▼] → Press [ENTER]  To change the numbers more quickly, press and hold  [▲, ▼].
Thumbnail	To show thumbnail images
Subtitle	DVD-V (with multiple subtitles) VCD (SVCD only)  To select subtitle language  ● On +R/+RW, a subtitle number may be shown for subtitles that are not displayed.  ■ DVD-VR "On" or "Off" appears only with discs that contain subtitle on/off information (Subtitle on/off information cannot be recorded using Panasonic DVD Recorders).
Marker (VR)	DVD-VR To recall a marker recorded on DVD-Video recorders Press [▲, ▼] → Press [ENTER].
Angle	(with multiple angles) To select a video angle
Rotate Picture	To rotate a picture
Slideshow	To turn slideshow on/off On ←→ Off  To change the slideshow timing 1 (Fast) to 5 (Slow)
Other Settings	(→ page 23)

<u> </u>	Play Speed	DVD-VR DVD-V  To change play speed  - from "×0.6" to "×1.4"  • Press [► PLAY] to return to normal play.  • After you change the speed  - Dolby Pro Logic II has no effect.  - Audio output switches to 2-channel stereo (except when Surround Music is on).  - Sampling frequency of 96 kHz is converted to 48 kHz.  • This function may not work depending on the disc's recording.
----------	------------	--

### ■ Play Menu

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

Repeat	(→ page 18, Repeat play)	
A-B Repeat	Except JPEG DVD-VR (Still picture part)  To repeat a specified section  Press [ENTER] at the starting and ending points.  Press [ENTER] again to cancel.	
Advanced Disc Review	DVD-VR       (Except still picture part)         DVD-V       (Except +R/+RW)         Allows you to browse the disc contents and start playing from the selected position. You can select either "Intro Mode" or "Interval Mode" in "Advanced Disc Review" in the "Disc" menu (→ page 25).         When you find a title/program to play Press [► PLAY].         • This may not work depending on the disc and the play position.         • DVD-VR       This does not work when playing a playlist (→ page 21).	

### ■ Picture Menu

- i icture	VICIIU		
	Normal		
	Cinema1	: Mellows images and enhances detail in	
		dark scenes.	
	Cinema2	: Sharpens images and enhances detail in	
		dark scenes.	
	Animatio	n: Suitable for animation.	
	Dynamic	: Enhances the contrast for powerful images.	
	User:	Press [ENTER] to select "Picture	
		Adjustment" (→ below).	
Picture	Picture	Adjustment	
Mode	Contrast	•	
	Contrast		
	Drightno	dark parts of the picture.  ss: Brightens the picture.	
		ss: Adjusts the sharpness of the edges of	
	Sharphe	horizontal lines.	
	Color:	Adjusts the shade of the picture's color.	
	Gamma:		
		hhancer: Reduces the rough noise in the	
	Deptii Li	background to give a greater feeling	
		of depth.	
	T14	<u> </u>	
		suitable picture quality with your television cordings will be converted to, and output as,	
		cordings will be converted to, and output as, nition video.)	
	riigii-deiii	illion video.)	
	When HC	MI connection is being used and "Video	
		page 26, "HDMI" menu) is set to "On"	
	-	· ·	
	480i (interlaced)		
	480p (progressive)		
	720p (progressive)		
	1080i (interlaced)		
	1080p (progressive)		
	Select a video output with an "*" mark. The "*"		
Video	mark shows that the video output is acceptable		
Video	with your television.		
Output	●Selecting a video output without an "★" mark can		
Mode	result in the picture being distorted.		
		e picture is distorted, press and hold	
		NCEL] until the picture is displayed correctly.	
	(The output will return to "480p".)  Output from the COMPONENT VIDEO OUT		
		ninals will be "480i".	
	tem	ilitais will be 4001.	
	When HC	MI connection is <b>not</b> being used or "Video	
		page 26, "HDMI" menu) is set to "Off"	
	-	· ·	
		interlaced) (progressive)	
	-		
		en you select "480p", a confirmation screen	
		ears. Select "Yes" only if connecting to a	
		gressive output compatible television.	
		re chosen "480p", "720p", "1080i" or "1080p"	
	•	), select the method of conversion for	
	progressi	ve output to suit the type of material.	
	Auto1:	Detects 24 frame-per-second film content and	
Transfer		ppropriately converts it.	
Mode		Compatible with 30 frame-per-second film	
		ontent in addition to 24 frame-per-second film	
		ontent.	
	Video: S	Select if the video content is distorted when	
	u	sing Auto1 or Auto2.	

(Continued on next page)

### **Other Settings**

### ■ Picture Menu (Continued)

HD Picture Enhancer	This works when the HDMI connection is being used and "Video Mode" (→ page 26, "HDMI" menu) is set to "On".  To sharpen the "720p, "1080i" and "1080p" picture quality  Off ← → 1 ← →2 ← →3 (sharpest picture)
HDMI Color Space	This works when the HDMI connection is being used and "Video Mode" (→ page 26, "HDMI" menu) is set to "On".  To select suitable picture color with your television RGB YCbCr (4:4:4) YCbCr (4:2:2)
	If the setting above is not compatible with your television, it will not be displayed.     "RGB Range" (→ page 26, "HDMI" menu) is available when "RGB" is selected.

Manual Zoom	To zoom in and out manually - in 0.01-unit steps from "×1.00" to "×1.60" - in 0.02-unit steps from "×1.60" to "×2.00"
	<ul> <li>To change the steps more quickly, press and hold [▲, ▼].</li> </ul>
Bit Rate Display	$ \begin{array}{c c} \hline \text{DVD-VR} & \hline \text{DVD-V} & \hline \text{VCD} \\ \hline \text{On} & \longleftrightarrow & \text{Off} \\ \end{array} $
GUI See-through	To make the on-screen menu transparent Off, On, Auto
<b>GUI Brightness</b>	To adjust the on-screen menu brightness -3 to +3
HDMI Status	Indicates various information when connected with HDMI AV OUT terminal.  (→ below, Confirming HDMI information)
Quick OSD	To display current playback condition Off, Basics, Details After registering the item, press [RETURN] to show the QUICK OSD screen (→ page 18).

### ■ Audio Menu

Dolby Pro	(→ page 32, Enhancing the stereo sound: Dolby Pro
Logic II	Logic II/Super Surround)
Dialogue Enhancer	To make the dialogue in movies easier to hear  [DVD-V] (Dolby Digital, DTS, 3-channel or higher, with the dialogue recorded in the center channel)  On ←→→ Off

### ■ Display Menu

<ul><li>Display Mellu</li></ul>	■ Display Wiellu				
Information	JPEG 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: Laterally stretches images.  Auto: Expands 4:3 letterbox images to fill more of the screen. Other images appear in full in the center of the screen.				
	Shrink: Images appear in the center of the screen.				
	<b>Zoom:</b> Expands to 4:3 aspect ratio. If your television has a similar feature, use it instead for a better effect.				
Just Fit Zoom	To select the appropriate screen size to fit your television screen    DVD-VR   DVD-V   VCD   Auto, 4:3 Standard, European Vista, 16:9 Standard, American Vista, Cinemascope1, Cinemascope2 e.g.				
	4:3 Standard (4:3) → European Vista (1.66:1) → 16:9 Standard (16:9) → American Vista (1.85:1) → Cinemascope1 (2.35:1) → Cinemascope2 (2.55:1)				

### ■ Other Menu

Setup	(→ page 25)
Play as DVD-VR, Play as HighMAT or Play as Data Disc	To use functions for data discs (→ page 20) (To play MP3 or JPEG files on DVD-RAM or DVD-R/RW, or to play a HighMAT disc without using the HighMAT function) Select "Play as Data Disc".

### **Confirming HDMI information**

e.g. Connection status

■HDMI Status – HDMI is connected.

HDMI Information
Audio Stream PCM
Max Channel 2ch
Color Space YCbCr (4:4:4)/YCbCr (4:2:2)/RGB
Video Format 480i/480p
720p/1080i/1080p

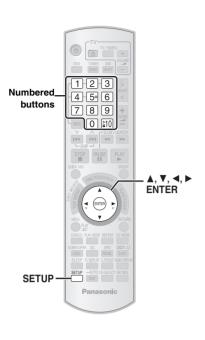
(→ page 23, Video Output Mode)
(→ above, HDMI Color Space)
Shows the number of audio channels.
Shows the output signal type.

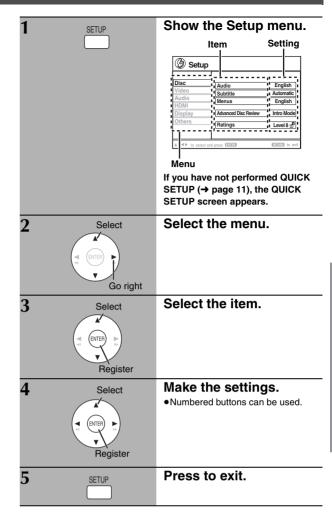
### Note

- All possible types of output are displayed.
- The current output for "Audio Stream", "Color Space" and "Video Format" will be underlined.

(If you select a video output without an "\*" mark in the "Video Output Mode" in Picture Menu, the selected video format will not be underlined.)

When "Off" is selected in "Audio Output" (→ page 26, "HDMI" menu),
 "— —" will be displayed in "Audio Stream" and "Max Channel".





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

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

### ■ "Disc" menu

Audio Choose the audio language.	• English	French	<ul><li>Spanish</li></ul>	Original <sup>∗1</sup>	• Other*****
Subtitle Choose the subtitle language.	● <u>Automatic</u> ®3	● English	• French	<ul><li>Spanish</li></ul>	● Other******
Menus Choose the language for disc menus. Changing the menu language in QUICK SETUP also changes this setting.	● <u>English</u>	● French	● Spanish	• Other***	<del>*</del> *2
Advanced Disc Review (→ page 23)	Intro Mode: Reviews each title/program.     Interval Mode: Reviews not only each title/program but also each 10-minute interval within a title/program.				
Ratings Set a rating level to limit DVD-Video	Setting ratings (When level 8 is selected)  • 8 No Limit  • 1 to 7  • 0 Lock All: To prevent play of discs without rating levels.				
play.	When you select Follow the on-scr <b>Do not forget yo</b> A message scree Enter your passw	een instructions our password. on will be shown	s. í if a DVD-Video	disc exceeding t	he rating level is inserted in the unit.

- \*1 The original language designated on the disc is selected.
- \*\*2 Input the appropriate code from the language code list (→ page 27).
- \*3 If the language selected for "Audio" is not available, subtitles appear in that language (if available on the disc).





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

# ■ "Video" menu

TV Aspect Choose the setting to suit your television and preference.	4:3 Pan&Scan: Regular aspect television (4:3) The sides of the widescreen picture are cut off so it fills the screen (unless prohibited by the disc).      4:3 Letterbox: Regular aspect television (4:3) Widescreen picture is shown in the letterbox style.					
	• 16:9: Wides	creen television (	16:9)			
TV Type Select to suit the type of television.	Standard (Direct View TV)     Projection TV		•	CRT Projector     Plasma TV		Projector
Time Delay When connected with a Plasma display, adjust if you notice the audio is out of sync with the video.	● <u>0ms</u> ● 20ms		• 40ms	● 40ms		• 100ms
Still Mode Specify the type of picture shown when paused.	Automatic     Field =4: The picture is not blurred, but picture quality is lower.     Frame =4:Overall quality is high, but the picture may appear blurred.					
Black Level Control Change the black level of the picture if you connected a television through the COMPONENT VIDEO OUT terminals.		■ <u>Lighter</u> : When connected through VIDEO OUT.  ■ Darker: When connected through COMPONENT VIDEO OUT (Y/P <sub>B</sub> /P <sub>R</sub> ).				

<sup>&</sup>lt;sup>∗∗4</sup> Refer to "Frame still and field still" (→ page 35, Glossary).

### ■ "Audio" menu

Dolby Digital <sup>∗5</sup>	● <u>Bitstream</u> ● PCM	Select to suit the type of equipment you connected to the HDMI AV OUT terminal (→ page 7).	
DTS Digital Surround <sup>*5</sup>	Bitstream     PCM	Select "Bitstream" when the equipment can decode the bitstream (digital form of 5.1-channel data). Otherwise, select "PCM" (audio output is 2-channel). (If the bitstream is output to the equipment without a decoder, high levels of noise can be output and may damage your speakers and hearing.)	
Dynamic Range Compression	On: Adjusts for cland Dolby Digital)	arity even when the volume is low. Convenient for late night viewing. (Only works with	
Speaker Settings (→ page 27) Set the delay time for your center and surround speakers.			

<sup>\*\*5</sup> When audio is output from HDMI AV OUT terminal, and the connected equipment does not support the item selected, the actual output will depend on the performance of this connected equipment.

### ■ "HDMI" menu

RGB Range Set "HDMI Color Space" to "RGB" (→ page 24, Picture Menu).	Standard     Enhanced: When the black and white images are not distinct.				
Video Mode (This setting is irrelevant when connected through the VIDEO OUT terminal.)	<ul> <li>On: When connected through the HDMI AV OUT terminal. Video is output from the HDMI terminal. Video is also output from the COMPONENT VIDEO OUT terminal, but only in 480i (interlaced).</li> <li>Off: When connected through the COMPONENT VIDEO OUT terminal. Video is output from the COMPONENT VIDEO OUT terminal according to the setting of the "Video Output Mode" (→ page 23, Picture Menu). Video is also output from the HDMI AV OUT terminal, but only in 480p (progressive).</li> </ul>				
Audio Output	On: When audio output is from the HDMI AV OUT terminal. (Depending on the capabilities of the connected equipment, audio output may differ from the audio settings of the main unit.)  Off: When audio output is not from the HDMI AV OUT terminal. (The audio is output using the settings of the main unit.)				
EZ Sync	<ul> <li>On: The EZ Sync "HDAVI Control" function is available (→ page 28).</li> <li>Off</li> </ul>				

# ■ "Display" menu

Menu Language	● <u>English</u>	<ul><li>Français</li></ul>	● Español
On-Screen Messages	● <u>On</u>	• Off	

### ■ "Others" menu

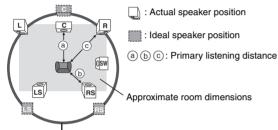
FL Dimmer Change the brightness of the unit's display.	● <u>Bright</u> ● Dim ● Auto: The display is dimmed, but brightens when you perform some operations.
QUICK SETUP	● <u>Yes</u> ● No
Re-initialize Setting Return all values in the Setup menus to the default settings.	<ul> <li>Yes: The password screen is shown if "Ratings" (→ page 25) is set. Please enter the same password.         After "INIT" on the display disappears, turn the unit off and on again.     </li> <li>No</li> </ul>

### Changing the delay time of the speakers

### (Effective when playing 5.1-channel sound)

(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.

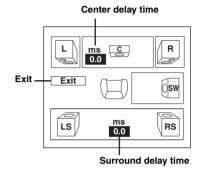


Circle of constant primary listening distance

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

Center speak	er	<b>(b)</b> Surround speaker		
Difference (Approx.) Setting		Difference (Approx.)	Setting	
30 cm (1 foot)	1.0 ms	150 cm (5 feet)	5.0 ms	
60 cm (2 feet)	2.0 ms	300 cm (10 feet)	10.0 ms	
90 cm (3 feet)	3.0 ms	450 cm (15 feet)	15.0 ms	
120 cm (4 feet)	4.0 ms			
150 cm (5 feet)	5.0 ms			

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



### To finish the speaker setting

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

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

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

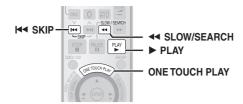
Dolby Digital	Dolby Pro Logic II			
Doiby Digital	Music	Movie		
0 ms	0 ms	10 ms		
5 ms	5 ms	15 ms		
10 ms	10 ms	20 ms		
15 ms	15 ms	25 ms		

### Language code list

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



# Using the EZ Sync™ "HDAVI Control™"



### **EZ Sync "HDAVI Control"**

EZ Sync "HDAVI Control" is a convenient function that offers linked operations of this unit, and a Panasonic television (VIERA) under "HDAVI Control". You can use this function by connecting the equipment with the HDMI cable. See the operating instructions for connected equipment for operational details. This unit supports "HDAVI Control 2" function.

The TV with "HDAVI Control 2" function enables the following operation: EZ Sync Control only with TV's remote control (for "HDAVI Control 2") (→ right)

### Preparation

- Confirm that the HDMI connection (→ page 7) has been made.
- Set "EZ Sync" to "On" (→ page 26, "HDMI" menu).
- To complete and activate the connection correctly, turn on all EZ Sync "HDAVI Control" compatible equipment and set the television to the corresponding HDMI input mode for the home theater system.

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

### One touch play

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

### Press [ONE TOUCH PLAY].

Theater speakers will be automatically activated (→ below).

 This function also works if you press [► PLAY] on the home theater remote control during home theater standby mode.

### Note

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

### Auto input switching

- When you switch the television input to:
- TV tuner mode, the home theater system will automatically switch to "AUX"\* [or "D-IN"\* (PT1050)].
- HDMI input mode for the home theater system, the home theater system will automatically switch to "DVD/CD" if it is in "AUX"\* [or "D-IN"\* (PT1050)] mode.
- When you start disc play, the television will automatically switch to the HDMI input mode for the home theater system.
- \*To toggle the mode that this function works with, press [SETUP] while the main unit is in "AUX" or "D-IN" mode.
  - The default setting is "AUX".

### Speaker control

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

### Home theater

Theater speakers are active.

- When the home theater system is in standby mode, changing the television speakers to theater speakers in the television menu will automatically turn the home theater system on and select "AUX"\* [or "D-IN"\* (PT1050)] as the source.
- The television speakers are automatically muted.
- You can control the volume setting using the volume or mute button on the TV's remote control. (The volume level is displayed on the main unit's FL display.)
- To cancel muting, you can also use the home theater remote control
   (→ page 12).
- If you turn off the home theater system, television speakers will be automatically activated.

### T

Television speakers are active.

- The volume of the home theater system is set to "0".
- This function works only when "DVD/CD" or "AUX"\* [or "D-IN"\* (PT1050)] is selected as the source on the home theater system.
- Audio output is 2-channel audio.

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

- To toggle which input source the main unit will automatically switch to, press [SETUP] while the main unit is in "AUX" or "D-IN" mode.
  - The default setting is "AUX".

### Power off link

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

- This function works only when "DVD/CD" or "AUX" [or "D-IN" (PT1050)] is selected as the source on the home theater system.
- When the television is turned on, the home theater system does not turn on automatically. (Power on link is not available.)
- For "AUX" or "D-IN" mode, power off link can be set to work with one or the other. To toggle the mode that this function works with, press [SETUP] while the main unit is in "AUX" or "D-IN" mode.
  - The default setting is "AUX".

### Note

Only the home theater system turns off when you press [ $\emptyset$ ] for shutting it down. Other connected equipment compatible with EZ Sync "HDAVI Control" stays on.

# EZ Sync Control only with TV's remote control (for "HDAVI Control 2")

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

 Select the theater operation menu by using the television menu settings.
 (For details, refer to the operating instructions of your television.)



- •The home theater system will automatically switch to "DVD/CD" if it is in "AUX"\* [or "D-IN"\* (PT1050)] mode.
- To toggle the mode that this function works with, press [SETUP] while the main unit is in "AUX" or "D-IN" mode.
- -The default setting is "AUX".
- Select the desired item.

• "MENU":

• "TOP MENU": Shows a disc top menu

(→ page 17, 20) or program list (→ page 21).

Shows a disc menu (→ page 17, 20) or play

list (→ page 21).

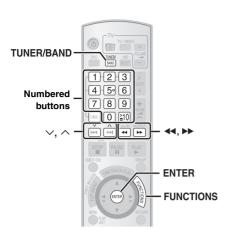
•"Control Panel": The basic operations for discs are available.

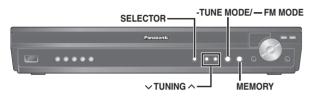
EZ Sync
TOP MENU
MENU
Control Panel



### Note

- Depending on the menu, some button operations cannot be performed from the TV's remote control.
- "Control Panel" can be selected directly by using a button on the TV's remote control (e.g. [SUB MENU]).





Radio operations are described mainly with the remote control. You can alternatively use the corresponding button on the main unit.

\*1 [SELECTOR]

\*2[∨ TUNING ∧]

\*3 [MEMORY]

### Presetting stations automatically

Up to 30 stations can be set in each band, FM and AM.

1 Press [TUNER/BAND]\*1 to select "FM" or "AM".

### Press and hold [ENTER]\*3.

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

The tuner tunes to the lowest frequency and starts to preset 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]\*1 to select "FM" or "AM".

### Press the numbered buttons to select the channel.

To select a 2-digit number
 e.g. 12: [≥10] → [1] → [2]

Alternatively, press  $[\lor, \land]$ .



 To perform this step on the main unit, first press [-TUNE MODE] to select "PRESET", and then press [∨ TUNING ∧] to select the channel.

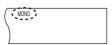
When a stereo FM broadcast is being received, "ST" lights in the display.



### ■ If noise is excessive

When "FM" is selected

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



Press and hold [—FM MODE] again to cancel the mode.

• The mode is also canceled when you change the frequency.

### When "AM" is selected

Press [FUNCTIONS] on the remote control.

Each time you press the button: BP 2←→BP 1

### Manual tuning

1 Press [TUNER/BAND]\*1 to select "FM" or "AM".

### Press [◄◄, ▶▶]\*² to select the frequency.

- When performing this step on the main unit, first press
   [-TUNE MODE] to select "MANUAL", and then press [v TUNING ^] to select the frequency.
- To start automatic tuning, press and hold [◄◄, ▶►]\*2 until the frequency starts scrolling. Tuning stops when a station is found.

### ■ Presetting the channel

Up to 30 stations can be set in each band, FM and AM.

- ① While listening to the radio broadcast **Press [ENTER]\***3.
- ② While the frequency and "PGM" are flashing on the display Press the numbered buttons to select a channel.
  - To select a 2-digit number

( [H 12 ]

Alternatively, press [∨, ∧], and then press [ENTER]\*3.

A station previously stored is overwritten when another station is stored in the same channel preset.

### FM frequency step

### Main unit only

The step is factory-set to 0.2-MHz, but you can change it to receive broadcasts allocated in 0.1-MHz steps.

① Press [SELECTOR] to select "FM".

### ② Press and hold [SELECTOR].

After a few seconds the display changes to show the current minimum frequency. Continue to hold the button down. The minimum frequency changes and the step is changed.

To return to the original step, repeat steps ① and ②.

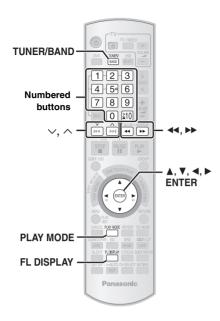
### Note

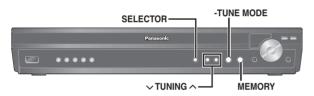
After changing the setting, previously preset frequencies will be cleared. Preset them again.

gå

# Using the XM® Satellite Radio

### The XM Satellite Radio is available only in the 48 contiguous United States and Canada





Radio operations are described mainly with the remote control. You can alternatively use the corresponding button on the main unit.

\*\*1 [SELECTOR] \*\*2 [ V TUNING A] \*\*3 [MEMORY] \*\*4 [-TUNE MODE]

### XM Satellite Radio

XM Satellite Radio is the provider of satellite radio. XM Satellite Radio offers an extraordinary variety of commercial-free music, plus the best in sports, news, talk and entertainment. To enjoy XM Satellite Radio, subscription is required.

For more information, visit XM on the Web at www.xmradio.com for U.S. customers, or www.xmradio.ca for Canada customers.

### How to Subscribe

XM monthly service subscription sold separately. XM Connect & Play antenna, or XM Passport Mini-Tuner and Home Dock (includes home antenna) required to receive XM service (sold separately). Channels with frequent explicit language are indicated with an XL. Channel blocking is available for XM radio receivers by calling 1-800-XMRADIO (U.S. residents) or

1-877-GET-XMSR (Canada residents). Subscriptions subject to Customer Agreement available at xmradio.com (U.S. residents) and xmradio.ca (Canada residents). Only available in the 48 contiguous United States and Canada. ©2006 XM Satellite Radio Inc. All rights reserved. All other trademarks are the property of their respective owners.

• To subscribe in the U.S., visit XM on the Web at www.xmradio.com or call XM's Listener Care at 1-800-XMRADIO (1-800-967-2346). To subscribe in Canada, visit XM on the Web at www.xmradio.ca or call XM's Listener Care at 1-877-GET-XMSR (1-877-438-9677).

You should have your Radio ID ready (→ right).

### Preparation

### ■ The XM Satellite Radio ID

Please confirm your XM Satellite Radio ID necessary for activating XM Satellite Radio as follows.

- Press [TUNER/BAND]\*1 to select "XM".
  - Ensure the antenna is connected (→ page 8).
- Press [PLAY MODE]\*4 to select "MANUAL". Each time you press the button: MANUAL ←→ PRESET
- Press [0] to select "XM 0" (XM channel 0). "RADIO ID" is indicated in the display briefly, followed by an 8-digit alphanumeric ID.
- Note your XM Satellite Radio ID.
  - To avoid ambiguity, the letters I, O, S and F are not used in the ID

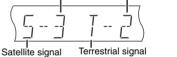


To exit, press [◄◄, ▶▶]\*2 to select another channel.

### ■ Optimizing the XM signal reception

The main unit has a signal strength indicator function that allows you to optimize the XM signal reception.

- Press [TUNER/BAND]\*1 to select "XM".
  - Ensure the antenna is connected (→ page 8).
- Press and hold [FL DISPLAY] until the XM signal status is displayed.



Signal strength:

4 (strong)

3 (good) 2 (marginal)

1 (weak)

0 (no signal)

Position the antenna for the best possible satellite signal reception.

The display changes depending on the signal strength.

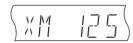
- If the satellite signal is weak or not available, you can optimize for the terrestrial signal (where available).
- Press [FL DISPLAY] to return to the previous display.

### Tips for optimizing reception

- To prevent interference with wireless equipment, place the antenna away from this unit, Panasonic wireless sound system SH-FX80/SH-FX85, Panasonic wireless system SH-FX50/SH-FX60/SH-FX65, and other equipment that emits radio waves (such as radio equipment and microwave ovens).
- Place the antenna near a south-facing window with an unobstructed view of the sky for the best satellite signal reception.
- Refer also to the operating instructions of your XM antenna.

XM channels can be selected manually by directly entering the XM channel number.

- 1 Press [TUNER/BAND]\*1 to select "XM".
- 2 Press [PLAY MODE]\*4 to select "MANUAL".
  Each time you press the button: MANUAL → PRESET
- 2 Press the numbered buttons to select the XM channel.
  - To select a 2-digit or 3-digit number
    e.g.12: [≥10] → [1] → [2]
    125: [≥10] → [≥10] → [1] → [2] → [5].



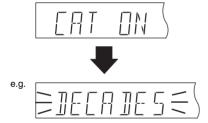
Alternatively, press [◄◄, ▶▶]\*\*2 to select the desired XM channel.

Press and hold [◄◄, ▶►]<sup>\*\*2</sup> to scan through quickly.

### Selecting XM channels by category

XM channels are organized into categories such as Rock, Classical, Country and Dance to make browsing and selecting channels easier.

- 1 Press [TUNER/BAND]\*1 to select "XM".
- Press [A, V, ◄, ►] to enter category tune mode. The category of the current XM channel flashes on the display.



- While the category is flashing
  - Press [▲, ▼] to select a category.

Available categories vary according to broadcasting hours.

- Press and hold [▲, ▼] to scan through quickly.
- While the selected category is flashing

Press [◀, ▶] to select a channel in the current category. The XM channel number and name are displayed briefly, and then the current category flashes on the display.

5 Press [ENTER] to exit category tune mode.
The XM channel information will be displayed.

### Note

Some XM channels belong to two categories; a primary and secondary category, either of which can be used for XM channel selection. Although you may have selected an XM channel from its secondary category (e.g. DANCE), after exiting and then re-entering category tune mode, the primary category of the XM channel is displayed (e.g. DECADES).

### Presetting the XM channels

Channel presets allow you to quickly and conveniently select your favorite XM channels. Up to 30 XM channels can be stored as channel presets.

- 1 While listening to the XM radio broadcast Press [ENTER]\*3.
- While the XM channel and "PGM" are flashing on the display Press the numbered buttons to select a channel.
  - To select a 2-digit number
     e.g. 12: [≥10] → [1] → [2]



Alternatively, press [  $\vee$  ,  $\, \wedge$  ] and then press [ENTER]\*\*3 .

- An XM channel previously stored is overwritten when another XM channel is stored in the same channel preset.
- XM channel 0 (RADIO ID) cannot be stored as a channel preset.

### ■ Selecting the preset channels

- ① When "XM" is selected Press [PLAY MODE]<sup>\*4</sup> to select "PRESET". Each time you press the button: MANUAL ←→PRESET
- ② Press the numbered buttons to select the desired channel preset.
  - To select a 2-digit number
     e.g. 12: [≥10] → [1] → [2]



Alternatively, press  $[\lor, \land]$ .

### Selecting the XM channel information

The XM channel information display can be changed.

While listening to the XM radio broadcast

Press [FL DISPLAY].

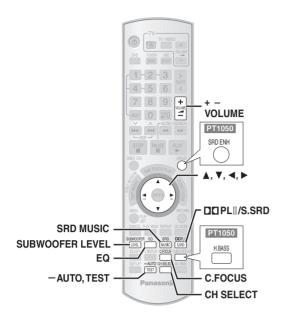
Each time you press the button:

Longer text information will not be fully displayed.

### Note

- If there is no text information for the current XM broadcast, "———" is displayed.
- Even if the main unit is turned off, or another source is selected, the setting of channel information will be retained.
- The XM channel number and name are displayed briefly whenever the XM channel is changed.





### Note

- The following sound effects may not be available or have no effect with some sources, or when headphones are used (→ page 13).
- You may experience a reduction in sound quality when these sound effects are used with some sources. If this occurs, turn the sound effects

# EQ Using the equalizer function

To enjoy the following sound quality settings, ensure that Surround Music ( below) is turned off.

### Press [EQ].

Each time you press the button:

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

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

• To check the current setting, press [EQ].

Enjoying sound from all speakers: Surround Music	SRD MUSIC
--	--------------

The sound fills the room, and comes from all directions with equal

### Press [SRD MUSIC].

Each time you press the button:

S.MUSIC ON -S.MUSIC OFF

### Enhancing the sound from the center speaker: Center Focus

C.FOCUS

This applies to discs where the dialogue is recorded in the center channel

You can make the sound of the center speaker seem like it is coming from within the television.

### Press [C.FOCUS].

Each time you press the button:

C FOCUS ON ← → C FOCUS OFF

- This does not work when Surround Music (→ left) is turned on.
- This also works when Dolby Pro Logic II is turned on.

### Enhancing the stereo sound: Dolby Pro Logic II/Super Surround



Depending on the source, you can enhance the stereo sound with Dolby Pro Logic II or Super Surround to enjoy the surround sound effect.

### Press [DDPLII/S.SRD].

Each time you press the button:

Movie: Movie software Music: Stereo sources Off: Cancel

### When DVD/CD or D-IN (PT1050) is the source

- ●Dolby Pro Logic II\* is available
- "DDPLII" lights when there is effect.
- \* Dolby Pro Logic II is an advanced decoder that derives 5-channel surround from stereo sound sources, whether or not it has been specifically Dolby Surround encoded.

### When another source is selected

Super Surround is available



DOPLI

- This does not work when audio is output from HDMI AV OUT terminal.
- Dolby Pro Logic II/Super Surround cannot be used together with Surround Music.
- You can adjust the volume of the surround speakers to get the best surround effect (→ page 33, Adjusting the volume of each speaker: Speaker level adjustments).

### Adjusting the amount of bass: Subwoofer level



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

### Press [SUBWOOFER LEVEL].

You can select the level from "SUB W 1" (weakest) to "SUB W 4" (strongest).

- To check the current setting, press [SUBWOOFER LEVEL].
- The setting you make is retained, and recalled every time you play the same type of source.

# Using sound effects

gÅ

# Adjusting the volume of each speaker: Speaker level adjustments

TEST

R: Front right

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

### When "DVD/CD" is selected as the source

- 1 While stopped and no on-screen display is shown Press [TEST] to output a test signal.
  - To stop the test signal, press [TEST] again.

L: Front left C: Center

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.
  - Adjust the speaker levels to the same level as the front speakers.

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

### ■ To adjust speaker level during play

(Effective when playing 5.1-channel sound or when Dolby Pro Logic II/Super Surround is on, and Surround Music is off.)

① Press [CH SELECT] to select the speaker.

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

- You can adjust SW (Subwoofer) only if the disc includes a subwoofer channel and "DIPLII" is not lit.
- "S" appears on the display when Super Surround is on (→ page 32). 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 [◄, ►].

# PT1050 Enhancing the bass sound: H.BASS



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].

### Each time you press the button:

H.BASS ON←→H.BASS OFF

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

# PT1050 Enhancing the surround sound effect: Surround Enhancer



Automatically adjusts each speaker to enhance the surround sound effect. When playing two-channel audio, the audio of the L/R front speakers is also output through the rest of the speakers creating a surround sound effect.

### Press [SRD ENH].

### Each time you press the button: SRD ENHANCER ON←→SRD ENHANCER OFF



# Adjusting the speaker output level automatically: Auto Speaker Setup



The speaker level settings can be optimized to accommodate your room's listening conditions so that you can enjoy the ideal surround sound experience. Using the supplied setup microphone, the main unit adjusts the balance of the front speakers, and the volume level of the center and surround speakers automatically.

Keep as quiet as possible during the auto speaker setup. Loud voices, air-conditioning noise, or disturbances caused by the wind may lead to incorrect settings. The speakers output loud test signals during the setup.

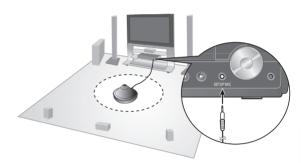
### Preparation

- Turn off the TV before starting the auto speaker setup.
- Make sure that "DVD/CD" is selected as the source (→ page 16), and there are no discs in the trays.
- Ensure that the wireless link setting is completed (→ page 13).
- Ensure that headphones are disconnected.

### 1 While stopped

### Connect the setup microphone.

 Place the microphone at the actual seating position and the same height of hearing level (e.g. on your sofa's headrest).



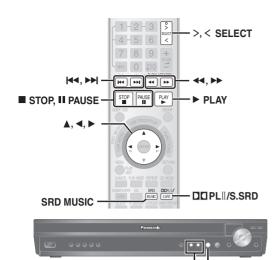
### Press and hold [—AUTO].

- The test signal is output from each speaker.
- "COMPLETE" will be displayed in the main unit's display when the setting is completed. Unplug the setup microphone.
- To cancel the setup, press and hold [—AUTO] again ("CANCEL" will be displayed in the main unit's display).

### Note

The settings will return to default if Auto Speaker Setup is cancelled.

# Enjoying audio from an external source



You can enjoy audio from an external source through your home theater

H4/44, PP/PP

### Enjoying audio from the television

### Preparation

Confirm the audio connection to the AUX terminal on the main unit ( page 7).

### Press [>, < SELECT] repeatedly to select "AUX".

- Reduce the volume on the television to its minimum, and then adjust the volume of the main unit.
- You can enjoy surround sound when you press [□□PLII/S.SRD] to turn on Super Surround (→ page 32).

### **Using the Music Port**

- To avoid distorted sound, make sure that any equalizer function of your external device is turned off.
- Reduce the volume of the main unit and external device.
- Connect the external device (not included).

Plug type: Ø3.5 mm (1/8") stereo mini plug



### Press [>, < SELECT] repeatedly to select "MUSIC P.".

- Adjust the volume on the external device to a normal listening level, and then adjust the volume of the main unit.
- You can enjoy sound from all speakers when you press [SRD MUSIC] to turn on Surround Music (→ page 32).

### Using the iPod

### Preparation

- Adjust the volume on the iPod to a normal listening level.
- Reduce the volume of the main unit.
- Confirm the iPod connection (→ page 10).
- Press [>, < SELECT] repeatedly to select "OPTION". The iPod turns on.
- Press [▶ PLAY] to play the iPod.
  - Adjust the volume of the main unit.
  - You can enjoy surround sound when you press [DIPLII/S.SRD] to turn on Super Surround (→ page 32).

PAUSE STOP	Alternatively, press [■] on the main unit.	To pause track
(During play/pause)	Alternatively, press [I◄◄/◄◄, ▶▶/▶▶] on the main unit.	To skip a track
(During play/pause)  or press and hold  Hel PH	Alternatively, press and hold [I◄◄/◄◄, ▶►/▶➡] on the main unit.	To search the current track

When you select another source, or turn the main unit off, the iPod turns off.

Image/video display through the home theater is not available.

### Compatible iPod

Name	Memory size	Name	Memory size
iPod nano	2GB,	iPod	40GB,
2nd generation	4GB,	4th generation	60GB
(aluminum)	8GB	(color display)	
iPod	60GB,	iPod	20GB,
5th generation (video)	80GB	4th generation	30GB
		(color display)	
iPod	30GB	iPod	40GB
5th generation (video)		4th generation	
iPod nano	1GB,	iPod	20GB
1st generation	2GB,	4th generation	
	4GB	iPod mini	4GB, 6GB

· Compatibility depends on the software version of your iPod.

### PT1050 Operating the cable TV box, digital broadcasting or satellite receiver

### Preparation

Confirm the audio connection to the OPTICAL IN terminal on the main unit (→ page 7).

Press [>, < SELECT] repeatedly to select "D-IN" (Digital In).

• Main unit: Press [SELECTOR] several times.

When you select "D-IN" as the source, you can select the following sound effects. (These functions only work with Dolby Digital or PCM.)

### **PCM FIX Mode**

Press and hold [▶].

PFIX ON:

Select when receiving only PCM signals. PFIX OFF (factory preset): Select when receiving Dolby Digital and

PCM signals.

### **Dynamic Range Compression**

Press and hold [◀].

DRC ON: Adjust 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)

**DRC OFF** (factory preset)

Audio Mode (This function only works with Dolby Digital Dual Mono.) Press and hold [A].

AUDIO ST (stereo audio), AUDIO L, AUDIO R

Dolby Pro Logic II (→ page 32)

Press [DDPLII/S.SRD].

### Note

- Audio that is input through the OPTICAL IN terminal cannot be output through the HDMI terminal.
- Dolby Pro Logic II does not work when "AUDIO L" or "AUDIO R" is selected in Audio Mode.

# **Glossary**

### Decoder

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

### **Dolby Digital**

This is a method of coding digital signals developed by Dolby Laboratories. Apart from stereo (2-channel) audio, these signals can also be 5.1-channel sound.

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

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

### Dynamic range

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

### Frame still and field still

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

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

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

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

### **HDMI (High-Definition Multimedia Interface)**

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

### JPEG (Joint Photographic Experts Group)

This is a system used for compressing/decoding color still pictures. The benefit of JPEG is less deterioration in picture quality considering the degree of compression.

### Linear PCM (pulse code modulation)

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

### MP3 (MPEG Audio Layer 3)

An audio compression method that compresses audio to approximately one tenth of its size without any considerable loss of audio quality.

### Playback control (PBC)

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

### Progressive/Interlaced

NTSC, the video signal standard, has 480 interlaced (i) scan lines, whereas progressive scanning uses twice the number of scan lines. This is called 480p.

Using progressive output, you can enjoy the high-resolution video recorded on media such as DVD-Video.

Your television must be compatible to enjoy progressive video.

### 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.

### WMA (Windows Media™ Audio)

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

# **Product Service**

- 1. Damage requiring service—The unit should be serviced by qualified service personnel if:
  - (a) The AC power supply cord or AC adaptor has been damaged; or
  - (b) Objects or liquids have gotten into the unit; or
  - (c) The unit has been exposed to rain; or
  - (d) The unit does not operate normally or exhibits a marked change in performance; or
  - (e) The unit has been dropped or the cabinet damaged.
- 2. Servicing—Do not attempt to service the unit beyond that described in these operating instructions. Refer all other servicing to authorized servicing personnel
- 3. Replacement parts—When parts need replacing ensure the servicer uses parts specified by the manufacturer or parts that have the same characteristics as the original parts. Unauthorized substitutes may result in fire, electric shock, or other hazards.
- 4. Safety check—After repairs or service, ask the servicer to perform safety checks to confirm that the unit is in proper working condition.

The servicer will require all components to service your system.

Therefore, should service ever be necessary, be sure to bring the entire system.

### **Product information**

For product information or assistance with product operation:

In the U.S.A., refer to "Customer Services Directory" on page 42.

In Canada, contact the Panasonic Canada Inc. Customer Care Centre at 1-800-561-5505, or visit the website (www.panasonic.ca), or an authorized Servicentre closest to you.

In other areas, consult your dealer.



# **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, refer to "Customer Services Directory" on page 42 if you reside in the U.S.A., or refer to "Product information" on page 35 if you reside in Canada. In other areas, consult your dealer.

### Power

No power.	• Insert the AC power supply cord securely.	10
The unit is automatically switched to standby mode.	The Sleep timer was working and had reached the set time limit.	12

### **Unit displays**

The display is dark.	Select "Bright" in "FL Dimmer" in the "Others" menu.	27
"NOPLAY"	You inserted a disc the unit cannot play; insert one it can.	14
	You inserted a blank disc.	_
	You inserted a disc that has not been finalized.	
"NODISC"	You have not inserted a disc; insert one.	_
	You have not inserted the disc correctly; insert it correctly.	16
"NO MIC"	Ensure that the setup microphone is properly connected to the SETUP MIC terminal.	33
"NOISY"	• The ambient noise is high. Perform the setup again and keep quiet during the auto speaker setup.	33
"F61"	• Check and correct the speaker cable connections. If this does not fix the problem, consult the dealer.	8
"F76"	There is a power supply problem. Consult the dealer.	_
"DVD U11"	Disc may be dirty. Wipe it clean.	15
"ERROR"	• Incorrect operation performed. Read the instructions and try again.	_
	Ensure that necessary preparations have been made before Auto Speaker Setup.	33
	Check and correct the speaker cable connections if you are doing Auto Speaker Setup.	8
	The volume might be muted. Cancel muting before Auto Speaker Setup.	12
"DVD H□□"	• Trouble may have occurred. The numbers following "H" and "F" depend on the status of the unit.	_
"DVD F□□□"	Turn the unit off and then back on. Alternatively, turn the unit off, disconnect the AC power supply	
☐ stands for a number.	cord, and then reconnect it.  • If the service numbers fail to clear, note the service number and contact a qualified service person.	
// [See ]		-
" W1 " or " WS " is flashing.	There is no link between the main unit and the wireless equipment. Check that the wireless equipment is plugged into the AC outlet and is turned on.	10, 13
	PT1050 Ensure the pairing procedure for the wireless subwoofer is performed correctly.	11
	Ensure that the digital transmitter is fully inserted into the slot of the main unit.	9
"U70□"	The HDMI connection acts unusually.	
□ stands for a number.	The connected equipment is not HDMI-compatible.	_
The actual number following "U70"	Please use HDMI cables that have the HDMI logo (as shown on the cover).	_
will depend on the state of the main	- The HDMI cable is too long.	_
unit.	- The HDMI cable is damaged.	_
"XM RADIO"	• It takes a short time for the XM radio to power up after turning on the main unit, during which time	_
	"XM RADIO" is displayed (only when the selected source is XM).	
	Wait a few seconds for this process to complete.	
"XM ERROR"	• There may be an error in the XM radio module. Turn the main unit off, and then back on.	_
	The XM antenna may be defective. Consult the dealer of the XM antenna.	
"REMOTE 1" or "REMOTE 2"	• Match the modes on the main unit and remote control. Depending on the number being displayed ("1" or	12
	"2"), press and hold [ENTER] and the corresponding numbered button ([1] or [2]) for at least 2 seconds.	

### **General operation**

Cannot operate the television.

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 on. Alternatively, turn the unit off, disconnect the AC power supply cord, and then reconnect it.</li> <li>Condensation has formed. Wait 1 to 2 hours for it to evaporate.</li> </ul>	14 —
No response when remote control buttons are pressed.	Check that the batteries are installed correctly.     The batteries are depleted. Replace them with new ones.     Aim the remote control at the remote control signal sensor and operate.	11 11 13
Other products respond to the remote control.	Change the remote control operating mode.	12
Cannot play DVDs.	CD Mode is on. Press [CD MODE] to turn CD Mode off.	18
No picture or sound.	Check the video or speaker connection. Check the power or input setting of the connected equipment and the main unit. Check that the disc has something recorded on it.	7, 8 — —
You have forgotten your ratings password. Reset all the settings to Factory Preset.	While stopped and "DVD/CD" is the source, press and hold [■] (Stop) on the main unit and [≥10] on the remote control until "Initialized" disappears from the television. Turn the unit off and on again. All settings will return to the default values.	_
The EZ Sync "HDAVI Control" function does not respond.	Depending on the condition of the home theater system or the connected equipment, it may be necessary to repeat the same operation so that the function can work correctly.	28

• Check the remote control code for the television manufacturer.

12



# Disc operation

It takes time before play starts.	Play may take time to begin when an MP3 track has still picture data. Even after the track starts, the correct play time will not be displayed. This is normal.	_
Folders on a data CD are not displayed correctly.  WMA MP3 JPEG	Folders deeper than the eighth layer are displayed as the eighth layer.	-
A menu screen appears during skip or search. VCD	This is normal for Video CDs.	
Playback control menu does not appear. VCD with playback control	Press [■ STOP] twice and then press [▶ PLAY].	
Program and Random play do not work. DVD-V	These functions do not work with some DVD-Videos.	_
Subtitle position is wrong.	Adjust the position. ("Subtitle Position" in Display Menu)	24
No subtitles.	Display the subtitles. ("Subtitle" in Main menu)	22
Subtitles overlap the closed captions.	Clear the subtitles.	22
Point B is automatically set.	The end of an item becomes point B when it is reached.	_
The Setup menu cannot be accessed.	Select "DVD/CD" as the source. Cancel Program and Random play.	— 19

# Sound

Sound is distorted.	Noise may occur when playing WMA.     When using the HDMI output, audio may not be output from other terminals.	
Effects do not work.	Some audio effects do not work or have less effect with some discs.	_
Humming is heard during play.	An AC power supply cord or fluorescent light is near the main unit or wireless system. Keep other appliances and cables away from the main unit and wireless system.	_
No sound.	<ul> <li>There may be a slight pause in sound when you change the play speed.</li> <li>Audio may not be heard when more than 4 devices are connected with HDMI cables. Reduce the number of connected devices.</li> <li>When using the HDMI connection, ensure that "Audio Output" in the "HDMI" menu is set to "On".</li> </ul>	_ _ 26

# Picture

The picture on the television is not displayed correctly or	Ensure that the unit is connected directly to the television, and is not connected through a video cassette recorder.	7
disappears.	Mobile telephone chargers can cause some disturbance.	_
	If you are using an indoor television antenna, change to an outdoor antenna.	_
	• The television antenna wire is too close to the unit. Move it away from the unit.	_
	<ul> <li>Picture may not be seen when more than 4 devices are connected with HDMI cables. Reduce the number of connected devices.</li> </ul>	_
	When using the COMPONENT VIDEO OUT terminal, ensure that progressive output is not selected when the connected television is not progressive compatible. Press and hold [CANCEL] until the picture is displayed correctly. (The output will return to "480i".)	23
	<ul> <li>When using the HDMI AV OUT terminal, ensure that video output unacceptable with the connected television is not selected. Press and hold [CANCEL] until the picture is displayed correctly. (The output will return to "480p".)</li> </ul>	23
Picture size does not fit the	Change "TV Aspect" in the "Video" menu.	26
screen.	• Use the television to change the aspect. If your television does not have that function, change "4:3 Aspect" in Display Menu.	24
	Change the Zoom setting. ("Just Fit Zoom" or "Manual Zoom" in Display Menu)	24
Menu is not displayed correctly.	Restore the zoom ratio to "×1.00". ("Manual Zoom" in Display Menu)	24
	• Set "Subtitle Position" in Display Menu to "0".	24
	• Set "4:3 Aspect" in Display Menu to "Normal".	24
Auto zoom function does not work	Turn off television's zoom function.	_
well.	Use the other preset aspect ratios or manual adjustment.	24
	<ul> <li>Zoom function may not work well, especially in dark scenes and may not work depending on the type of disc.</li> </ul>	_

# iPod with Universal Dock for iPod

Cannot charge or operate even	Check that the iPod is connected firmly.  The latter of the iPod is dealered Observe the iPod and the apparatus points.	10
when the indicator on the dock	The battery of the iPod is depleted. Charge the iPod, and then operate again.	_
lights.		



# HDMI or progressive video

There is ghosting when HDMI or progressive output is on.	This problem is caused by the editing method or material used on DVD-Video, but should be corrected if you use interlaced output.  When using the COMPONENT VIDEO OUT terminal, set "Video Output Mode" in Picture Menu to "480i". (Alternatively, press and hold [CANCEL] to switch to "480i".)  When using the HDMI AV OUT terminal, set "Video Output Mode" in Picture Menu to "480i" output marked with an "**". Or, disable the HDMI AV OUT connection and use other video connections. Make the settings in the following order:  1 Set "Video Mode" in the "HDMI" menu to "Off".  2 Set "Video Output Mode" in Picture Menu to "480i". (Alternatively, press and hold [CANCEL] to switch to "480i".)	23 23, 26
Pictures not in progressive output.	Select "480p" in "Video Output Mode" in Picture Menu.     The unit's VIDEO OUT terminal outputs the interlaced signal even if "PRG" is displayed.	23 7
Closed captions not displayed.	When HDMI or progressive output is on, closed captions will not be displayed.	_

# Radio

Distorted sound or noise is heard. "ST" flickers or does not light.	<ul><li>Adjust the position of the FM or AM antenna.</li><li>Use an outdoor antenna.</li></ul>	9
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.	_

# Wireless equipment

No sound.	Ensure that the digital transmitter is fully inserted into the slot of the main unit.     Ensure that the wireless equipment is plugged into the AC outlet and is turned on. Then, check that "W1" [and "WS" (P11050)] is displayed on the main unit's display.	9 10, 13
The indicator on the wireless equipment keeps flashing between red and green.	There is a power supply problem. Consult the dealer.	_

### Television displays

" <b>O</b> "	● The operation is prohibited by the unit or disc.	_
"Cannot display group xx, content xx"	You are trying to display incompatible contents.	_
"This disc may not be played in your region"	Only DVD-Video discs that include or have the same region number as the one on the rear panel of this unit can be played.	Cover page
No on-screen display.	● Select "On" in "On-Screen Messages" in the "Display" menu.	26
Main unit's screen saver remains	<ul> <li>When using the HDMI connection, audio/video information is continually transferred between the main unit and the television regardless of which source has been selected on the main unit. This is normal.</li> </ul>	1

### XM Satellite Radio advisory messages

The XM Satellite Radio is available only in the 48 contiguous United States and Canada.

"ANTENNA" is flashing.	The XM antenna is not properly connected. Check the connection and make sure the antenna cable is not damaged.	8
"UPDATING" is flashing.	The XM antenna is being updated with the latest encryption code. Wait a few seconds for the update to complete.  You may have selected an XM channel that has been blocked, or is no longer available with your subscription package. For inquiry, call XM's Listener Care at 1-800-XMRADIO (U.S. residents) or 1-877-GET-XMSR (Canada residents).	_
"NO SIGNL" is flashing.	The XM signal is too weak. Reorient the XM antenna for better reception.	30
"LOADING" is flashing.	The XM antenna is receiving and decoding the broadcast information. Wait a few seconds for loading to complete.	_
"OFF AIR" is flashing.	The selected XM channel is not currently broadcasting. Select a different channel.	31
"XM ———"	The selected XM channel is not available. Select a different channel.	31
""	Supplemental text information, such as the song title or artist's name is not available for that particular broadcast.  You can change the type of XM channel information that is displayed by pressing [FL DISPLAY].	31
You can receive only promotional XM channels.	Your XM Satellite service has not been activated, or your subscription has expired. To activate your XM Satellite service, or to renew your subscription:     For U.S. residents, visit XM on the Web at www.xmradio.com or call XM's Listener Care at 1-800-XMRADIO (1-800-967-2346).  For Canada residents, visit XM on the Web at www.xmradio.ca or call XM's Listener Care at 1-877-GET-XMSR (1-877-438-9677). You should have your Radio ID ready.	30

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Apparatus Claims of U.S. Patent Nos. 4,631,603, 4,577,216, and 4,819,098, licensed for limited viewing uses only.

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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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iPod is a trademark of Apple Inc., registered in the U.S. and other countries



### User memo:

DATE OF PURCHASE	
DEALER NAME	_
DEALER ADDRESS	_
	_
FELEPHONE NUMBER	_

The model number and serial number of this product can be found
on either the back or the bottom of the unit.
Please note them in the space provided below and keep for future

reference.
MODEL NUMBER

MODEL NUMBER \_\_\_\_\_\_SERIAL NUMBER

### AMPLIFIER SECTION

### PT950 PT1050

RMS Output Power: Dolby Digital Mode

Front Ch 250 W per channel (6  $\Omega$ ), 1 kHz, 10 % THD Surround Ch 100 W per channel (4  $\Omega$ ), 1 kHz, 10 % THD Center Ch 250 W per channel (6  $\Omega$ ), 1 kHz, 10 % THD Subwoofer Ch 250 W per channel (6  $\Omega$ ), 100 Hz, 10 % THD Total RMS Dolby Digital mode power 1200 W

FTC Output Power: Dolby Digital Mode

Front Ch Surround Ch 104 W per channel (6  $\Omega$ ), 120 Hz–20 kHz, 1 % THD 34 W per channel (4  $\Omega$ ), 120 Hz–20 kHz, 1 % THD Center Ch 101 W per channel (6  $\Omega$ ), 120 Hz–20 kHz, 1 % THD Subwoofer Ch 95 W per channel (6  $\Omega$ ), 45 Hz–120 Hz, 1 % THD Total FTC Dolby Digital mode power 472 W

### PT953

**RMS Output Power: Dolby Digital Mode** 

Front Ch 200 W per channel (6  $\Omega$ ), 1 kHz, 10 % THD Surround Ch 100 W per channel (4  $\Omega$ ), 1 kHz, 10 % THD Center Ch 200 W per channel (6  $\Omega$ ), 1 kHz, 10 % THD Subwoofer Ch 200 W per channel (6  $\Omega$ ), 100 Hz, 10 % THD Total RMS Dolby Digital mode power 10000 W

FTC Output Power: Dolby Digital Mode

Front Ch 94 W per channel (6  $\Omega$ ), 120 Hz–20 kHz, 1 % THD 34 W per channel (4  $\Omega$ ), 120 Hz–20 kHz, 1 % THD Center Ch 91 W per channel (6  $\Omega$ ), 120 Hz–20 kHz, 1 % THD Subwoofer Ch 86 W per channel (6  $\Omega$ ), 45 Hz–120 Hz, 1 % THD Total FTC Dolby Digital mode power 433 W

### FM/AM TUNER, TERMINALS SECTION

Preset Memory FM 30 stations AM/MW 30 stations

Frequency Modulation (FM)

Frequency range 87.9–107.9 MHz (200-kHz step) 87.5–108.0 MHz (100-kHz step)

Sensitivity 1.8  $\mu$ V (IHF) S/N 26 dB 1.4  $\mu$ V Antenna terminals 75  $\Omega$  (unbalanced)

Amplitude Modulation (AM/MW)

Frequency range 520–1710 kHz (10-kHz step) AM Sensitivity S/N 20 dB at 1000 kHz 560  $\mu$ V/m

PT1050 Digital audio input

Optical digital input Optical terminal Sampling frequency 32 kHz, 44.1 kHz, 48 kHz

Phone jack
Terminal Stereo, 3.5 mm (1/8") jack

 Music Port (Front)
 100 mV, 1.2 k $\Omega$  

 Sensitivity
 100 mV, 1.2 k $\Omega$  

 Terminal (Input)
 Stereo, 3.5 mm (1/s") jack

### **DISC SECTION**

### Discs played [8 cm (3") or 12 cm (5")]

- (1) DVD (DVD-Video)
- (2) DVD-RAM (DVD-VR, MP3\*2,5, JPEG\*4,5)
- (3) DVD-R (DVD-Video, DVD-VR, MP3\*2,5, JPEG\*4,5)
- (4) DVD-R DL (DVD-Video, DVD-VR)
- (5) DVD-RW (DVD-Video, DVD-VR, MP3\*2,5, JPEG\*4,5)
- (6) +R/+RW (Video)
- (7) +R DL (Video)
- (8) CD, CD-R/RW [CD-DA, Video CD, SVCD=1, MP3=2,5, WMA=3,5, JPEG=4,5, HighMAT Level 2 (Audio and Image)]
- \*1 Conforming to IEC62107
- \*2 MPEG-1 Layer 3, MPEG-2 Layer 3
- \*3 Windows Media Audio Ver.9.0 L3
  - Not compatible with Multiple Bit Rate (MBR)
- \*4 Exif Ver 2.1 JPEG Baseline files

Picture resolution: between 160 $\times$ 120 and 6144 $\times$ 4096 pixels (Sub sampling is 4:0:0, 4:2:0, 4:2:2 or 4:4:4). Extremely long and narrow pictures may not be displayed.

\*5 The total combined maximum number of recognizable audio and picture contents and groups: 4000 audio and picture contents and 400 groups. Pick up

 Wavelength (DVD/CD)
 662/785 nm

 Laser power (DVD/CD)
 U.S.A. CLASS II/CLASS I

 Others
 CLASS 1/CLASS 1M

Audio output (Disc)

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

### **VIDEO SECTION**

Video system NTSC

Composite video output

 $\begin{array}{ll} \mbox{Output level} & \mbox{1 Vp-p } (75 \ \Omega) \\ \mbox{Terminal} & \mbox{Pin jack } (1 \ \mbox{system}) \end{array}$ 

Component video output (480p/480i) Y output level

 $\begin{array}{lll} P_B \mbox{ output level} & 0.7 \mbox{ Vp-p} \mbox{ (75 }\Omega) \\ P_R \mbox{ output level} & 0.7 \mbox{ Vp-p} \mbox{ (75 }\Omega) \\ \end{array}$ 

1 Vp-p (75 Ω)

Terminal Pin jack (Y: green, P<sub>B</sub>: blue, P<sub>R</sub>: red) (1 system)

**HDMI AV output** 

Terminal Type A connector (19-pin)

### SUBWOOFER SECTION PT1050

Active subwoofer SB-WA1050

Dimensions (W×H×D) 137 mm×403 mm×493 mm×493 m (5<sup>19</sup>/<sub>3</sub>2''×15<sup>7</sup>/<sub>9</sub>2'') (5<sup>19</sup>/<sub>3</sub>2''×15<sup>7</sup>/<sub>9</sub>2'')

Mass 6.5 kg (14.3 lbs)

AMPLIFIER SECTION

**RMS Output Power** 

Subwoofer Ch 250 W per channel (6  $\Omega$ ), 100 Hz, 10 % THD Total RMS power 250 W

**FTC Output Power** 

Subwoofer Ch 95 W per channel (6  $\Omega$ ), 45 Hz–120 Hz, 1 % THD Total FTC power 95 W

RF SECTION
Wireless module

Frequency range 2.400 to 2.4835 GHz
No. of channels 3

GENERAL

Power supply

Power consumption

Operating temperature range
Operating humidity range

AC 120 V, 60 Hz

50 W

+5 °C to +35 °C (+41 °F to +95 °F)

5 % to 90 % RH (no condensation)

Power consumption in off mode approx. 0.3 W

### **SPEAKER SECTION**

PT950 PT953 Front speakers SB-HF950			
Туре	2 way, 2 speaker system (Bass reflex)		
Speaker unit(s)	Impedance 6 $\Omega$		
Full range	6.5 cm (21/2") Cone type		
2. Full range	6.5 cm (21/2") Cone type		
Input power (IEC)	250 W <sup>⊛6</sup> (Max)		
Output sound pressure	83 dB/W (1.0 m)		
Cross over frequency	5 kHz		
Frequency range	79 Hz-25 kHz (-16 dB)		
	95 Hz-22 kHz (-10 dB)		
Dimensions (W×H×D)	252 mm×1123 mm×235 mm		
	$(9^{29}/_{32}"\times44^{7}/_{32}"\times9^{1}/_{4}")$		
Mass	3.8 kg (8.4 lbs)		

PT950 PT953 Surround speakers SB-HS950			
Type	1 way, 1 speaker system (Bass reflex)		
Speaker unit(s)	Impedance 4 Ω		
Full range	6.5 cm (2 <sup>1</sup> / <sub>2</sub> ") Cone type		
Input power (IEC)	100 W <sup>⊛6</sup> (Max)		
Output sound pressure	80 dB/W (1.0 m)		
Frequency range	89 Hz-25 kHz (-16 dB)		
	105 Hz-22 kHz (-10 dB)		
Dimensions (W×H×D)	92 mm×142 mm×95 mm		
	$(3^{5/8}" \times 5^{19/32}" \times 3^{3/4}")$		
Mass	0.6 kg (1.32 lbs)		

PT950 PT953 Center speaker SB-H	C950
Type	2 way, 2 speaker system (Bass reflex)
Speaker unit(s)	Impedance 6 Ω
1. Full range	6.5 cm (21/2") Cone type
2. Full range	6.5 cm (21/2") Cone type
Input power (IEC)	250 W*6 (Max)
Output sound pressure	82 dB/W (1.0 m
Cross over frequency	5 kHz
Frequency range	80 Hz-25 kHz (-16 dB)
	96 Hz-22 kHz (-10 dB)
Dimensions (W×H×D)	270 mm×94 mm×95 mm
	$(10^{5}/8'' \times 3^{11}/16'' \times 3^{3}/4'')$
Mass	1 3 kg (2 9 lbs)

PT950 PT953 Subwoofer SB-HW950	
Туре	1 way, 1 speaker system (Bass reflex)
Speaker unit(s)	Impedance 6 Ω
Woofer	17 cm (6 <sup>3</sup> / <sub>4</sub> ") Cone type
Input power (IEC)	250 W (Max)
Output sound pressure	81 dB/W (1.0 m)
Frequency range	26 –220 Hz (–16 dB)
	32 -180 Hz (-10 dB)
Dimensions (W×H×D)	180 mm×445 mm×330 mm
	$(7^3/32'' \times 17^{17}/32'' \times 13'')$
Mass	5.5 kg (12.2 lbs)

PT1050 Front speakers SB-HF1050	
Туре	3 way, 3 speaker system (Bass reflex)
Speaker unit(s)	Impedance 6 $\Omega$
1. Tweeter	6 cm (23/8") Cone type
2. Woofer	6.5 cm (2 <sup>1</sup> / <sub>2</sub> ") Cone type
<ol><li>Woofer</li></ol>	6.5 cm (2 <sup>1</sup> / <sub>2</sub> ") Cone type
Input power (IEC)	250 W <sup>⊛6</sup> (Max)
Output sound pressure	84 dB/W (1.0 m)
Cross over frequency	5 kHz, 7 kHz
Frequency range	83 Hz-41 kHz (-16 dB)
	96 Hz-40 kHz (-10 dB)
Dimensions (W×H×D)	252 mm×1123 mm×235 mm
	$(9^{29}/_{32}" \times 44^{7}/_{32}" \times 9^{1}/_{4}")$
Mass	4 kg (8.8 lbs)

Mass	4 Kg (8.8 IDS)
PT1050 Surround speakers SB-HS1	050
Туре	1 way, 1 speaker system (Bass reflex)
Speaker unit(s)	Impedance 4 Ω
Full range	6.5 cm (21/2") Cone type
Input power (IEC)	100 W <sup>⊛6</sup> (Max)
Output sound pressure	80 dB/W (1.0 m)
Frequency range	86 Hz-25 kHz (-16 dB)
	102 Hz-22 kHz (-10 dB)
Dimensions (W×H×D)	94 mm×272 mm×95 mm
	$(3^{11}/_{16}" \times 10^{23}/_{32}" \times 3^{3}/_{4}")$
Mass	1.1 kg (2.4 lbs)

PT1050	Center	speaker	SB-HC950

Type	2 way, 2 speaker system (Bass reflex)
Speaker unit(s)	Impedance 6 Ω
1. Full range	6.5 cm (21/2") Cone type
2. Full range	6.5 cm (21/2") Cone type
Input power (IEC)	250 W <sup>∗6</sup> (Max)
Output sound pressure	82 dB/W (1.0 m)
Cross over frequency	5 kHz
Frequency range	80 Hz-25 kHz (-16 dB)
	96 Hz-22 kHz (-10 dB)
Dimensions (W $\times$ H $\times$ D)	270 mm×94 mm×95 mm
	$(10^5/8'' \times 3^{11}/16'' \times 3^3/4'')$
Mass	1.3 kg (2.9 lbs)

### **GENERAL**

AMPLIFIER SECTION

Power supply			
U.S.A. and Canada		AC 120	V, 60 Hz
Others	AC 110-127 V/220-240 V, 50/60 Hz		
Power consumption			
U.S.A. and Canada	PT950 PT953	Main unit	135 W
	PT1050	Main unit	130 W
Others	PT950	Main unit	150 W
Dimensions (W $\times$ H $\times$ D)	430 mm×75 mm×424 mm		
	(1	6 <sup>15</sup> /16"×2 <sup>15</sup> /16"	× 16 <sup>11</sup> / <sub>16</sub> ")
Mass	Main ur	nit 5 kg (1	1.02 lbs)
Operating temperature range	+5 °C to +35 °C (+41 °F to +95 °F)		
Operating humidity range	5 % to 90 % RH (no condensation)		

Power consumption in standby mode	
U.S.A. and Canada	approx. 0.5 W
Others	approx. 0.9 W

### **WIRELESS SYSTEM AND DIGITAL TRANSMITTER**

133	1.0 kg (2.0 ib3)		
950 PT953 Subwoofer SB-HW950	<b>3</b> ( ,	RMS output power	
		Surround Ch	100 W per channel (4 $\Omega$ ), 1 kHz, 10 % THD
pe	1 way, 1 speaker system (Bass reflex)	Total RMS power	200 W
eaker unit(s)	Impedance 6 $\Omega$	FTC output power	
Woofer	17 cm (6 <sup>3</sup> / <sub>4</sub> ") Cone type	Surround Ch	34 W per channel (4 Ω), 120 Hz–20 kHz, 1 % THD
out power (IEC)	250 W (Max)		1 , , , , , , , , , , , , , , , , , , ,
tput sound pressure	81 dB/W (1.0 m)	Total FTC power	68 W
equency range	26 -220 Hz (-16 dB)		
	32 -180 Hz (-10 dB)	RF SECTION	

wireless module	
Frequency range	2.400 to 2.4835 GHz
No. of channels	3

	AC 120 V, 60 Hz
	AC 110-240 V, 50/60 Hz
Digital transmitter	1.5 W
Wireless system	U.S.A. and Canada 35 W
	Others 43 W
<ul><li>D) Digital transmitter</li></ul>	65 mm×52 mm×8.6 mm
	$(2^9/_{16}"\times 2^1/_{16}"\times ^{11}/_{32}")$
Wireless system	165 mm×90 mm×164 mm
	Wireless system     D) Digital transmitter

	vvireiess system	165 mm×90 mm× 164 mm
		$(6^{1/2}"\times3^{17/32}"\times6^{15/32}")$
Mass	Digital transmitter	0.02 kg (0.04 lbs)
	Wireless system	0.655 kg (1.54 lbs)
Operating temperature	range +5 °C to	+35 °C (+41 °F to +95 °F)

Power consumption in off mode	
U.S.A. and Canada	approx. 0.2 W
Others	approx. 0.3 W

5 % to 90 % RH (no condensation)

Operating humidity range

### Note

- Specifications are subject to change without notice.
- Mass and dimensions are approximate.
- 2. Total harmonic distortion is measured by a digital spectrum analyzer.
- 3. This unit supports "HDAVI Control 2" function.



<sup>\*6</sup> Rating with low-cut filter equipped amplifier

# **Limited Warranty (ONLY FOR U.S.A.)**

Panasonic Consumer Electronics Company, Division of Panasonic Corporation of North America One Panasonic Way Secaucus, New Jersey 07094 Panasonic Puerto Rico, Inc. Ave. 65 de Infantería, Km. 9.5 San Gabriel Industrial Park, Carolina, Puerto Rico 00985

# Panasonic Audio Products Limited Warranty

### **Limited Warranty Coverage**

If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic Puerto Rico, Inc. (collectively referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

Product or Part Name	Parts	Labor
Audio Products (except items listed below)	One (1) year	One (1) year
USB Reader-Writer, Personal Computer Card Adapters (in exchange for defective item)	One (1) year	Not Applicable
Accessories: Headphones, Cartridges,	Ninety (90)	Ninety (90)
Microphones, Adapters	days	days
Rechargeable Batteries, DVD-R/-RAM	Ten (10)	Not
Discs (in exchange for defective item)	days	Applicable
SD Memory Cards, Rechargeable Battery	Ninety (90)	Not
Packs (in exchange for defective item)	days	Applicable

During the "Labor" warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must carry-in or mail-in your product during the warranty period. If non-rechargeable batteries are included, they are not warranted. This warranty only applies to products purchased and serviced in the United States or Puerto Rico. This warranty is extended only to the original purchaser of a new product which was not sold "as is". A purchase receipt or other proof of the original purchase date is required for warranty service.

### Carry-In or Mail-In Service

For Carry-In or Mail-In Service in the United States call 1-800-211-PANA (1-800-211-7262) or visit Panasonic web site: http://www.panasonic.com For assistance in Puerto Rico call Panasonic Puerto Rico, Inc. (787)-750-4300 or fax (787)-768-2910.

### **Limited Warranty Limits And Exclusions**

This warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or commercial use (such as in a hotel, office, restaurant, or other business), rental use of the product, service by anyone other than a Factory Servicenter or other Authorized Servicer, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. (As examples, this excludes damages for lost time, travel to and from the servicer, loss of media or images, data or other memory content. The items listed are not exclusive, but are for illustration only.) ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

PARTS AND SERVICE WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY ARE YOUR RESPONSIBILITY.

### **Customer Services Directory**

Obtain Product Information and Operating Assistance; locate your nearest Dealer or Servicenter; purchase Parts and Accessories; or make Customer Service and Literature requests by visiting our Web Site at:

http://www.panasonic.com/consumersupport

or, contact us via the web at:

http://www.panasonic.com/contactinfo

You may also contact us directly at:

1-800-211-PANA (7262),

Monday-Friday 9 am-9 pm; Saturday-Sunday 10 am-7 pm, EST.

For hearing or speech impaired TTY users, TTY: 1-877-833-8855

# Accessory Purchases

Purchase Parts, Accessories and Instruction Books online for all Panasonic Products by visiting our Web Site at:

http://www.pstc.panasonic.com

or, send your request by E-mail to:

npcparts@us.panasonic.com

You may also contact us directly at:

1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only) (Monday – Friday 9 am to 8 pm, EST.)

**Panasonic Service and Technology Company** 

20421 84th Avenue South, Kent, WA 98032

(We Accept Visa, MasterCard, Discover Card, American Express, and Personal Checks)

For hearing or speech impaired TTY users, TTY: 1-866-605-1277

### Service in Puerto Rico

Panasonic Puerto Rico, Inc.

Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985

Phone (787)750-4300, Fax (787)768-2910



# **Limited Warranty (ONLY FOR CANADA)**

Panasonic Canada Inc.

### PANASONIC PRODUCT - LIMITED WARRANTY

Panasonic Canada Inc. warrants this product to be free from defects in material and workmanship and agrees to remedy any such defect for a period as stated below from the date of original purchase.

Technics Audio Product

Panasonic Portable / Clock Radio (without Tape, CD, MD)

Panasonic Audio / SD Audio Product

Panasonic DVD Product

Panasonic Combination DVD Player / VCR

Panasonic Combination DVD Recorder / VCR

Accessories including rechargeable batteries

One (1) year, parts and labour

Ninety (90) days

### LIMITATIONS AND EXCLUSIONS

This warranty does not apply to products purchased outside Canada or to any product which has been improperly installed, subjected to usage for which the product was not designed, misused or abused, damaged during shipping, or which has been altered or repaired in any way that affects the reliability or detracts from the performance, nor does it cover any product which is used commercially. Dry cell batteries are also excluded from coverage under this warranty.

This warranty is extended to the original end user purchaser only. A purchase receipt or other proof of date of original purchase is required before warranty service is performed.

THIS EXPRESS, LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL PANASONIC CANADA INC. BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES.

In certain instances, some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or the exclusion of implied warranties, so the above limitations and exclusions may not be applicable.

### **WARRANTY SERVICE**

### FOR PRODUCT OPERATION ASSISTANCE, please contact:

Our Customer Care Centre: Telephone #: (905) 624-5505

1-800 #: 1-800-561-5505 Fax #: (905) 238-2360

Email link: "Customer support" on <a href="https://www.panasonic.ca">www.panasonic.ca</a>

FOR PRODUCT REPAIRS, please locate your nearest Authorized Servicentre at www.panasonic.ca:

Link: "Servicentres™ locator" under "Customer support"

### IF YOU SHIP THE PRODUCT TO A SERVICENTRE

Carefully pack and send prepaid, adequately insured and preferably in the original carton. Include details of the defect claimed, and proof of date of original purchase.



# Accessories



Please check and identify the supplied accessories. Use numbers indicated in parentheses when asking for replacement parts. (Product numbers correct as of December 2006. These may be subject to change.)

Only for U.S.A.: To order accessories, refer to "Accessory Purchases" on page 42. For other areas: To order accessories, call the dealer from whom you made your purchase. 2 Stands

☐ 1 Remote control PT950 PT953 (EUR7662YX0) (EUR7662YY0)

2 Remote control batteries



☐ 1 AM loop antenna (N1DAAAA00002)



☐ 1 FM indoor antenna (RSA0007-L)



☐ 1 Video cable (K2KA2BA00001)

(REEX0449B-2L

REEX0449B-2K)

☐ 3 Speaker cables



☐ 2 Bases (RYPX0206-K)



☐ 8 Screws (XSN5+12FJ)



☐ 1 Sheet of speaker cable ☐ 1 Setup microphone (L0CBAB000125)



AC power supply cords Universal Dock for iPod U.S.A. and Canada (RFE0205) (K2CB2CB00018)

PT950 PT953 (2 cords)

PT1050 (3 cords)



Others (2 cords) (K2CQ2CA00002)



### 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.

The socket outlet shall be installed near the equipment and easily accessible. The mains plug of the power supply cord shall remain readily operable.

To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from AC receptacle.

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

For units with PX printed on the outer packaging THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

### THE FOLLOWING APPLIES ONLY IN CANADA

This device complies with RSS-210 of the IC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation of the device.

### For wireless system

Marking sign is located on bottom of the unit.

### For wireless system

Product Identification Marking is located on the bottom of unit.

2 Power plug adaptors

(K2DA42E00001)

### -If you see this symbol-Information on Disposal in other Countries outside the **European Union**



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



(Inside of product)



The laser product label has not been attached to products for the U.S.A. and Canada.



(Side of product)

### For U.S.A.

**Panasonic Consumer Electronics** Company, Division of Panasonic **Corporation of North America** 

One Panasonic Way Secaucus, New Jersey 07094 http://www.panasonic.com

### Panasonic Puerto Rico, Inc.

Ave. 65 de Infantería, Km. 9.5 San Gabriel Industrial Park, Carolina, Puerto Rico 00985

### For Canada

Panasonic Canada Inc.

5770 Ambler Drive Mississauga, Ontario L4W 2T3

www.panasonic.ca

### For others

Matsushita Electric Industrial Co., Ltd. Corporate Management Division for the **Americas** 

Sales Office for North America Tokyo Panasonic Sales Section 32nd Floor, World Trade Center 4-1, Hamamatsu-cho, 2-Chome, Minato-Ku, Tokyo 105-6132, Japan

Panasonic Marketing Europe G.M.B.H. Wiesbaden N. (a Division of Panasonic Marketing G.M.B.H.) Military Sales Department 6200 Wiesbaden-Biebrich, Hagenauerstr. 43

Germany

(En)