



Before connecting, operating or adjusting this product, please read these

Dear customer Thank you for purchasing this product.

Please keep this manual for future reference.

instructions completely.

AV Control Receiver

Operating Instructions

Model No. SA-HE75

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IMPORTANT SAFETY INSTRUCTIONS

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

Safety

- 1. **Power source**—Connect the unit to a power source of the type described in these instructions or as marked on the unit.
- 2. Polarization—The unit is equipped with a polarized power plug where one blade is wider than the other. This safety feature ensures that the plug fits into your household AC outlet only one way. If the plug doesn't fit one way, try reversing it. If the plug still doesn't fit, contact an electrician to replace the obsolete outlet. Do not attempt to defeat the safety purpose of the plug.
- Power cord protection—Route the AC power supply cord so that it will not be walked on or pinched by items placed on or against it. Never take hold of the plug or cord with wet hands. Always grasp the plug body firmly when connecting and disconnecting it.
- Overloading—When connecting the AC power supply cord, be careful not to overload the household AC outlet, extension cord, or outlet from any other device as this can result in fire or electric shock.
- Nonuse periods—Turn the unit off when it is not in use. Unplug the unit from the household AC outlet if it is not to be used for a long time. Unplug the unit during lightning storms.
- Attachments and accessories—Use only the attachments and accessories recommended in these operating instructions.

Installation

Placement

- Ventilation—Situate the unit so that it receives proper ventilation. Do
 not install in a confined space such as a bookcase or cabinet. Allow
 at least 10 cm (4 inches) clearance from the rear of the unit. To
 prevent the risk of electric shock or fire due to overheating ensure
 curtains and other materials do not obstruct the unit's ventilation.
- Foreign material—Ensure objects and liquids do not get into the unit. Avoid exposing the unit to excessive smoke, dust, mechanical vibration, and shock.
- Magnetism—Situate the unit away from equipment and devices that generate strong magnetic fields.
- 4. Stacking—Do not place heavy objects on top of this unit.
- 5. Surface—Place the unit on a flat, level surface.
- 6. Carts and stands—Use the unit only with carts and stands recommended by the manufacturer. Move carts with care. Sudden stops, excessive force, and uneven surfaces can cause carts to overturn.



 Wall and ceiling mounting—Do not mount the unit on walls or ceilings unless specified in the instructions.

Environment

- Water and moisture—Do not use the unit near water, such as near a bathtub or swimming pool. Avoid damp basements.
- Heat—Situate the unit away from heat sources, such as radiators. Do not situate where temperatures fall below 5°C (41°F) or rise above 35°C (95°F).
- 3. Power lines—Take care when setting up an outdoor antenna that it is not near overhead power lines, electric lights, or electrical circuits, and that there is no danger of the antenna falling on power lines, electric lights, or electrical circuits. When installing an outdoor antenna, take extreme care not to touch such power lines or circuits, as contact with them can be fatal.

4. Outdoor antenna grounding—If you connect an outdoor antenna, ground the antenna system to protect against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1990, provides information about grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. Refer to this diagram.



NEC-NATIONAL ELECTRICAL CODE

Maintenance

(See page 17 for details.)

Unplug the unit from the household AC outlet before cleaning. Clean with a damp cloth.

Do not use abrasive pads, scouring powders, or solvents.

Service

- Damage requiring service—The unit should be serviced by qualified service personnel if:
 - (a) The AC power supply cord or the plug 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.
- 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.
- Safety check—After repairs or service, ask the servicer to perform safety checks to confirm that the unit is in proper working condition.



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.

WARNING:

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

CAUTION

Do not place anything on top of this unit or block the heat radiation vents in any way. In particular, do not place tape decks or CD/DVD players on this unit as heat radiated from it can damage your software.



Supplied accessories



Use the numbers indicated in parentheses when asking for replacement parts.

(Only for U.S.A.)

To order accessories contact 1-800-332-5368 or web site (http://www.panasonic.com).

The remote control



Use



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

Keep the transmission window and the unit's sensor free from dust.
Operation can be affected by strong light sources, such as direct

sunlight, and the glass doors on cabinets.

Step 1 234 Speaker connections

Placement of speakers



Connecting speakers

Other connections are possible depending on your speaker system. See your speaker system's operating instructions for details.

Turn off the receiver before connecting the speakers.



Front speakers (left B right)

Place on the left and right of the TV at seated ear height so that there is good coherency between the picture and sound.

Center speaker (**G**)

Place underneath or above the center of the TV. Aim the speaker at the seating area.

Surround speakers (D left B right)

Place slightly behind the seating area, about one meter (3 feet) higher than ear level.

Subwoofer ()

The subwoofer can be placed in any position as long as it is at a reasonable distance from the TV.

Note that some experimentation can yield the smoothest low frequency performance. Placement near a corner can increase the apparent output level, but can result in unnatural bass.

Cable	Speaker terminals	Note
Twist the wire		Do not short circuit.

Speaker cable

Center speaker – Impedance: 6–8 Ω SPEAKERS CENTER RL R **6-8**Ω E Speaker cable



Step 1 2 34 Equipment connections

Stereo connection cable	
White (L) 🚽 🕅 📖 🥆	

Э	(L)	
	(R)	

Video connection cable

-**III**)

To connect equipment, refer to the appropriate operating instructions.

Note

Red

- Do not bend the optical fiber cable.
- Turn off all components before making any connections.
- Use digital connection to enjoy Dolby Digital or DTS (page 10).
- Use analog connection to enjoy sources that cannot be decoded on this unit and to record a source (pages 10 and 16).

TV, VCR and DVD player

Changing the digital input settings

You can change the input settings for the digital terminals if necessary. Note the equipment you have connected to the terminals, then change the settings (**→** page 9).







TO PREVENT ELECTRIC SHOCK MATCH WIDE **BLADE OF PLUG TO WIDE** SLOT, FULLY INSERT.

"SWITCHED" AC outlet

Power to the outlet is controlled by the power switch of this unit. Audio equipment rated up to a maximum of 80 W can be connected here. If equipment exceeding this rating is connected, the outlet may be rendered inoperable. Consult your dealer to replace the fuse.

Household AC outlet (AC 120 V/60 Hz)

The unit consumes 1 W even when it is turned off with [POWER, d/l]. To save power when the unit is not to be used for a long time, unplug it from the household AC outlet.

Note

The included AC power supply cord is for use with this unit only. Do not use it with other equipment.

If the unit is left unplugged for longer than a few weeks, all settings will revert to the factory settings. Do the settings again if this occurs.

Step ;

Step 12 3 4 Settings



RQT6847 8 Change the settings to suit your speakers and units to the environment in which you are using them. Before making any changes, read the descriptions of the settings, note the factory settings and ranges, and refer to the equipment's instructions.



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Basic operations

	Switch on.	
2 SPEAKERS	Turn SPEAKERS on.	Use this mode to play digital or analog stereo sources or to play surround sources through two speakers. When surround sources are played in this mode, the sounds intended for the other speaker channels are played through the front speakers.
3 INPUT SELECTOR	Select input. $TUNER \leftrightarrow CD \leftrightarrow DVD \uparrow$ $TAPE \leftrightarrow VCR 2 \leftrightarrow VCR 1 \leftrightarrow TV$ For CD, DVD, TV Select digital or analog input.	SURROUND mode
	Select the DSP sound mode. Start play of the source.	Also on any stereo source. The following modes are available when using Dolby Pro
6 VOLUME	Adjust the volume.	SPEAKERS SFC Enjoy an enhanced sound experience with greater presence and spread by using these SFC (sound field control) modes with PCM or analog stereo sources. The SFC modes cannot be used if the input signal is Dolby Digital or DTS. Choose from the following modes. SFC MODE SFC MODE

When you finish listening

Step 123 4

Be sure to reduce the volume and press [POWER, 0/I] to switch the unit to standby.

For your reference

In rare cases, the unit may have trouble recognizing the digital signals on discs.

- With the PCM signals on CDs, this may cause the beginning of a track to be cut off. Engage the PCM FIX mode if this occurs.
- With DTS, the signals may not be recognized at all. Engage the DTS FIX mode if this occurs.

While the input source is selected and digital input is engaged:

Press and hold [DIGITAL INPUT].

The current mode is displayed. Press again to change the mode.

Each time you press the button: AUTO → PCM FIX → DTS FIX

1

When a FIX mode is on, the unit cannot process other signals. This may cause noise to be output. Select "AUTO" if this occurs.

The selected mode is stored for each input source even if the unit is turned off.

Notes on using the Digital Signal Processor

The digital signal processor in this unit can decode the following signals:

- Dolby Digital
- DTS
- PCM

It cannot decode:

- Other digital signals, such as MPEG
- PCM with sampling frequencies of 88.2 kHz, 96 kHz, 176.4 kHz or 192 kHz
- Dolby Digital RF signals from a laser disc player

RQT6847

Step .



Control guide

[MEMORY]

For presetting radio stations.

[SFC MODE, <, >]

For selecting the SFC modes.

[-BAND, -FM MODE]

For switching between AM and FM. If reception is poor in FM, press and hold until "MONO" appears to switch to monaural mode.

[POWER, 0/|]

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.

[SPEAKERS]

Turning the speakers off automatically engages the STEREO mode (when listening through headphones, for example).

[-HELP, -RESET]

Press if an error message appears. A message offering a possible solution scrolls across the display. To reinitiate the unit's settings, press and hold until "RESET" appears.

[PRESET]

Press to allow preset station selection with [TUNING, \lor , \land].

[PHONES]

Headphone jack

Plug type: 6.3 mm (1/4") stereo

Avoid listening for prolonged periods of time to prevent hearing damage. Turn the speakers off when using the headphones.

$[\mathsf{TUNING}, \lor, \land]$

For tuning the radio and selecting preset stations. Press and hold until the frequency starts scrolling to start automatic tuning. Tuning stops when a station is found.

[DSP SOUND MODE]

For selecting "STEREO", "SURROUND" or "SFC".

[DOLBY PRO LOGIC II]

Use when "TPRO LOGIC II" lights in the SURROUND mode.

The display



POWEF

ി

HELF

Í.

PHON

-BAND -FM MODE PRESET

| | >

DSP DOLBY SOLND MODE PRO LOGICI

RQT6847

Operations



- R: Front channel (right)
- S: If the surround channel is monaural.
- SL: Surround channel (left)
- SR: Surround channel (right)
- LFE (Low Frequency Effects): Deep-bass effects.

[FIX, ■■PRO LOGIC II, PCM, dts,

Signal format indicators. Light depending on the source you are playing. DIGITAL: Dolby Digital sources dts : DTS sources **PRO LOGIC II:** The Dolby Pro Logic II circuit is being used FIX: PCM FIX or DTS FIX mode PCM: PCM FIX mode

- While the DSP is defeated, you cannot:
- Select DSP sound modes,
- Adjust the tone,
- Output a test signal,
- Adjust individual speaker output, or - Use digital input.

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Sound can be distorted if you raise the volume while subwoofer level is high. Reduce subwoofer level if this occurs. Improving reception

When using the subwoofer

DVD 6CH INPUT is selected.

DSP DEFEAT

Press and hold [DSP SOUND MODE] until "DEFEAT" appears. Press and hold [DSP SOUND MODE] again to turn the DSP on.

analog or PCM signals. You cannot adjust the tone while the DSP is

You cannot adjust subwoofer level while the DSP is defeated or if

Note

defeated or if DVD 6CH INPUT is selected.



Control guide

Buttons not explained on this page are used only to operate other equipment. Refer to the separate Remote Control Operation Guide for details.



Muting is also canceled when the unit is turned off.



Manual tuning

You can tune radio stations manually by selecting the station's frequency.

- ① Turn [INPUT SELECTOR] to select "TUNER".
- 2 Press [-BAND, -FM MODE] to select "FM" or "AM".
- ③ Press [TUNING \lor or \land] to select the frequency.
 - Tuning intervals: FM 0.2 MHz AM – 10 kHz

Direct tuning

- ① Press [TUNER/BAND] to select "FM" or "AM".
- ② Press [DIRECT TUNING/DISC ENTER].
- ③ Press the numbered buttons to enter the frequency. e.g. To select 107.9 MHz, press $[1] \rightarrow [0] \rightarrow [7] \rightarrow [9]$

Tuning intervals: FM – 0.1 MHz AM – 10 kHz

- If you do not press a button while the cursor is flashing, the display returns to the frequency being received.
- If the frequency has not been input correctly, "ERROR" will be displayed.

Automatic presetting

- ① Tune to "FM 87.9 MHz".
- ② Press and hold [MEMORY].
 - The FM stations the unit can receive are preset in channels 1 to 30. 3 Tune to "AM 530 kHz".
 - Press and hold [MEMORY].
 - The AM stations the unit can receive are preset in channels 21 to 30. (FM stations are replaced if any were preset in these channels.)

During automatic presetting, the memory indicator (\mathbf{M}) flashes and the frequency scrolls. The memory indicator and channel numbers are displayed for a second when a station is preset.

The last station to be preset is displayed when presetting finishes.

Manual presetting

Preset the stations one at a time.

- 1 Tune to the station.
- ② Press [MEMORY].
- 3 Press [TUNING \vee or \wedge] to select a channel.
- ④ Press [MEMORY].

Selecting channels

- 1 Press [PRESET].
 - The channel number flashes for about 5 seconds.
- ② Press [TUNING ∨ or ∧]. Hold down the buttons to change channels faster.

On the remote control

Press [CH \lor or \land]. or

Press the numbered buttons.

- For channels 1 to 9, press the corresponding number.
- For channels 10 or over, press [≥10/ENTER], then the two digits.
- e.g. To select channel 21: $[\geq 10/ENTER] \rightarrow [2] \rightarrow [1]$

For your reference

Even if the power supply cord is disconnected from the household AC outlet, the stations remain in memory for approximately one month.

Other settings



DR COMP – Dynamic range compression

Change this setting to listen to content recorded with Dolby Digital at low volume (such as late at night) and maintain audio clarity. It reduces the peak level in loud scenes without affecting the sound field.

- **OFF:** The software is played with the original dynamic range (factory setting).
- STANDARD: The level recommended by the producer of the software for household viewing.
- **MAX:**The maximum allowable compression (recommended for night viewing).
- Press [SFC MODE < and >] at the same time to enter the setting mode.
- ② Press [SFC MODE <] to select "DR COMP".</p>
- ③ Turn [INPUT SELECTOR] to select "OFF", "STANDARD" or "MAX".
- ④ Press [SFC MODE < and >] at the same time to exit the setting mode.

DIMMER

Others

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The factory setting is OFF (normal brightness). Dim the unit's display for better viewing in a darkened room

- Press [SFC MODE < and >] at the same time to enter the setting mode.
- ② Press [SFC MODE <] to select "DIMMER".</p>
- 3 Turn [INPUT SELECTOR] to select "OFF" or "ON".
- Press [SFC MODE < and >] at the same time to exit the setting mode.

Using outdoor antennas

Making a recording



Recording on a tape deck or VCR

You can record to a tape deck connected to TAPE REC (OUT) or to a VCR connected to VCR 1 OUT.

See the recording unit's operating instructions for details on how to prepare it for recording.

When recording with a tape deck, you can record any source except TAPE.

When recording with a VCR (connected VCR 1), you can record any source except TAPE or VCR 1.

- Turn [INPUT SELECTOR] to select the source to be recorded.
- ② Begin recording.
- Follow your recording unit's operating instructions. **3 Start the source to be recorded.** Follow your equipment's operating instructions.

Note

- You cannot record a source connected through a digital terminal. When recording CD, DVD, or TV, ensure the source is connected through the corresponding analog terminals and "ANALOG" input is selected.
- When you select DVD 6CH INPUT mode, only sound from the front left and right channels is recorded.



If the surfaces are dirty

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

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

Product Service

- 1. Damage requiring service The unit should be serviced by qualified service personnel if:
 - (a) The AC power supply cord or the plug 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.

Product information

For product information or assistance with product operation:

In the U.S.A., contact the Panasonic Customer Call Center at 1-800-211-7262, or e-mail consumerproducts@panasonic.com, or web site (http://www.panasonic.com).

In Canada, contact Panasonic Canada Inc. Customer Care Centre at 905-624-5505, or web site (www.panasonic.ca), or an authorized Servicentre closest to you.

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Manufactured under license from Digital Theater Systems, Inc. US Pat. No. 5,451,942, 5,956,674, 5,974,380, 5,978,762 and other world-wide patents issued and pending. "DTS" and "DTS Digital Surround" are registered trademarks of Digital Theater Systems, Inc. © 1996, 2000 Digital Theater Systems, Inc. All rights reserved.

Specifications (IHF'78)

■ AMPLIFIER SECTION Rated minimum sine wave RMS power of	outout
40 Hz–20 kHz both channels driven	
0.9 % total harmonic distortion	100 W per channel (6 Ω)
1 kHz continuous power output both cha	
0.05 % total harmonic distortion Total harmonic distortion	105 W per channel (6 Ω)
rated power at 40 Hz–20 kHz	0.9 % (6 Ω)
half power at 1 kHz	0.07 % (6 Ω)
Power output at 1 kHz each channel driv	ven
0.9 % total harmonic distortion	0 ··· 100 \W (0 · 0)
Front Center	2 x 100 W (6 Ω) 100 W (6 Ω)
Surround	2 x 100 W (6 Ω)
Low frequency damping factor	30 (6 Ω)
Load impedance	
Front Center	6–8 Ω 6–8 Ω
Surround	6–8 Ω
Dynamic headroom	2 dB (6 Ω)
Frequency response	
CD, TAPE, DVD, TV, VCR 1, VCR 2	10 Hz–70 kHz, ±3 dB
Input sensitivity CD, TAPE, DVD, TV, VCR 1, VCR 2	27 mV (200 mV, IHF '66)
S/N (IHF A)	27 1110 (200 1110, 1111-00)
CD, TAPE, DVD, TV, VCR 1, VCR 2	75 dB (85 dB, IHF '66)
Input impedance	
CD, TAPE, DVD, TV, VCR 1, VCR 2 Tone controls	22 kΩ
BASS	50 Hz, +10 to -10 dB
TREBLE	20 kHz, +10 to -10 dB
Subwoofer frequency response (-6 dB)	7–200 Hz
Digital input	_
Optical	2
Coaxial FM TUNER SECTION	I
Frequency range	87.9–107.9 MHz
Sensitivity	11.2 dBf (2 µV, IHF '58)
50 dB quieting sensitivity	
MONO STEREO	18.3 dBf (4.5 μV, IHF '58) 38.3 dBf (45 μV, IHF '58)
Total harmonic distortion	30.3 dBi (43 µV, i i i 30)
MONO	0.2 %
STEREO	0.3 %
S/N MONO	73 dB
STEREO	67 dB
Frequency response	20 Hz–15 kHz, +1 dB, –2 dB
Alternate channel selectivity	65 dB
Capture ratio Image rejection at 98 MHz	1.5 dB 40 dB
Spurious response rejection at 98 MHz	40 dB 75 dB
AM suppression	50 dB
Stereo separation	
1 kHz	40 dB
10 kHz Antenna terminal	30 dB 75 Ω (unbalanced)
	10 <u>11</u> (di ibalariota)
Frequency range	530–1710 kHz
Sensitivity	20 µV, 330 µV/m
Selectivity IF rejection at 1000 kHz	55 dB 50 dB
VIDEO SECTION	50 UD
Output voltage at 1 V input (unbalanced) 1±0.1 Vp-p
Maximum input voltage	1.5 Vp-p
Input/output impedance	75 Ω
	AC 100 V 60 U-
Power supply Power consumption	AC 120 V, 60 Hz 410 VA, 320 W
Dimensions (W x H x D)	430 x 158 x 367 mm
	-15/16" x 6-7/32" x 14-15/32")
Mass	9.1 kg (20.1 lb.)
Power consumption in standby mode:	1 W
Notes:	

Notes:

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

Troubleshooting guide

Before requesting service, make the below checks. If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem:

In the U.S.A., contact the Panasonic Customer Call Center at 1-800-211-7262, or e-mail consumerproducts@panasonic.com, or web site (http://www.panasonic.com).

In Canada, contact Panasonic Canada Inc. Customer Care Centre at 905-624-5505, or web site (www.panasonic.ca), or an authorized Servicentre closest to you.

Common problems Page		
No power.	• Ensure the power cord is connected.	7
No sound.	 Turn the volume up. Check connections to speakers and other equipment. Turn on the speakers. Turn off the tape monitor. Select the correct source. Change the D-INPUT setting to suit the type of connection you have made. Check that the digital signals can be decoded by this unit. Turn PCM FIX or DTS FIX off. 	10 4-7 10 13 10 9 10 10
Cannot select "DIGITAL" input.	• Cancel "DSP DEFEAT".	13
Sound stops. "OVERLOAD" appears on the display.	 Switch off the unit, determine and correct the cause, then switch the unit on. Causes include: Shorting (bare wires touching) of positive and negative speaker wires. Using speakers with an impedance lower than that rated for this unit. Straining of the speakers through excessive volume or power. Using the unit in a hot environment without proper ventilation. 	5 4–5 –
"F 70" appears on the display.	• Turn the unit off, disconnect the AC power supply cord, and consult your dealer.	-

DSP sound modes Pa			Pages
Sound is not heard from the center, surround, or subwoofer speakers.		 Ensure the SIZE settings for your speakers are correct. Check the DSP sound mode. Cancel "DSP DEFEAT". 	8 10 13
DSP sound modes cannot be selected.		 Cancel "DSP DEFEAT". Turn DVD 6CH INPUT off. 	13 13

Radio			Pages
The radio cannot be tuned in or there is a lot of noise and interference.		 Connect the appropriate antenna. (You may need an outdoor antenna or one with more elements.) Adjust the position of the FM or AM antenna. Reduce the treble. Select "DSP DEFEAT". Turn off nearby televisions video players, DVD players, and satellite receivers. Separate the antenna from other cables, leads, and appliances. Turn the DVD player off or move it further away from the antennas if this occurs. 	7, 16 7 13 13 - - - -

Warranty (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, Microphones, Adapters	Ninety (90) days	Ninety (90) days
Rechargeable Batteries, DVD-R/-RAM Discs (in exchange for defective item)	Ten (10) days	Not Applicable
SD Memory Cards, Rechargeable Battery Packs (in exchange for defective item)	Ninety (90) days	Not 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 prod-uct 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 (U.S.A.)

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.pasc.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 Services 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

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:

• Set the dial and 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.

User memo:

DATE OF PURCHASE	
DEALER NAME	
DEALER ADDRESS	

TELEPHONE 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 _____

SA-HE75

SERIAL NUMBER _

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

CAUTION:

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.

Any unauthorized changes or modifications to this equipment would void the user's authority to operate this device.

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.

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.



For U.S.A.

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

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

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