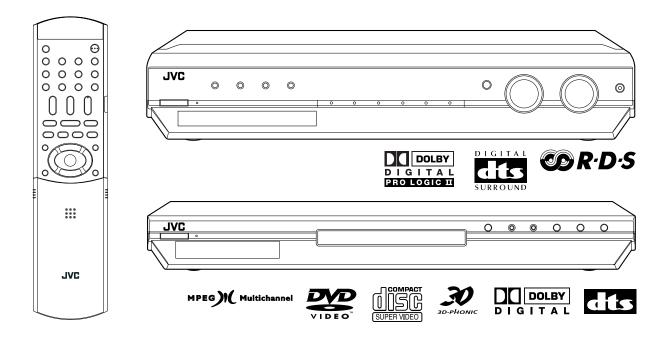
JVC



HOME CINEMA CONTROL CENTER **DVD VIDEO PLAYER**

RX-ES1SL XV-N55SL





For Customer Use: Enter below the Model No. and Serial No. which are located either on the rear, bottom or side of the cabinet. Retain this

information for future reference.

Model No.

Serial No.

IMPORTANT for the U.K.

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

BE SURE to replace the fuse only with an identical approved type, as originally fitted.

If nonetheless the mains plug is cut off ensure to remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

If this product is not supplied fitted with a mains plug then follow the instructions given below:

IMPORTANT

DO NOT make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-yellow.

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

Blue :	Neutral
Brown :	Live

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

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

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

IF IN DOUBT - CONSULT A COMPETENT ELECTRICIAN.

CAUTION

- To reduce the risk of electrical shocks, fire, etc.:
 - 1. Do not remove screws, covers or cabinet.
 - 2. Do not expose this appliance to rain or moisture.

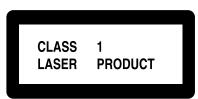
Caution—STANDBY/ON ෆ්/l switch!

Disconnect the mains plug to shut the power off completely. The STANDBY/ON \bigcirc /I switch in any position does not disconnect the mains line. The power can be remote controlled.

IMPORTANT FOR LASER PRODUCTS

REPRODUCTION OF LABELS

① CLASSIFICATION LABEL, PLACED ON EXTERIOR SURFACE



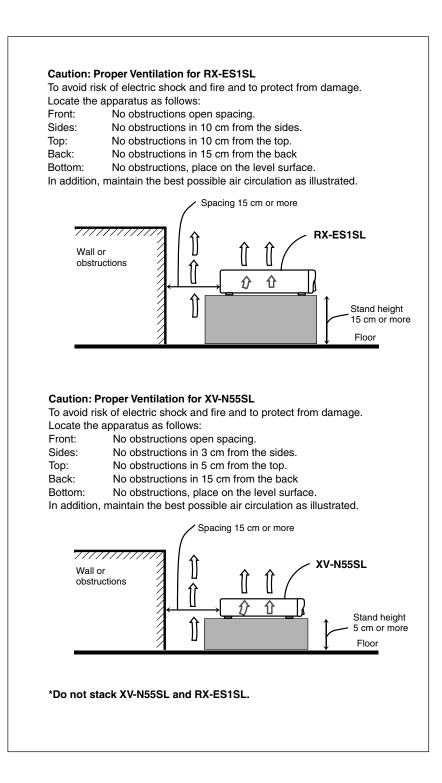
② WARNING LABEL, PLACED INSIDE THE UNIT

Γ	AUTION : Visible and invisible	ADVARSEL : Synlig og usynlig	VARNING : Synlig och	VARO : Avattaessa ja suojalukitus
				ohitettuna tai viallisena olet alttiina
			den öppnas och spärren är	
		Undgå direkte eksponering til	urkopplad. Betrakta ej	lasersäteilylle. Vältä säteen
E	EAM. (e)	stråling. (d)	strålen. (s)	kohdistumista suoraan itseesi. (f)

- 1. CLASS 1 LASER PRODUCT
- 2. CAUTION: Visible and invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
- CAUTION: Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.

CAUTION

- Do not block the ventilation openings or holes. (If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)
- Do not place any naked flame sources, such as lighted candles, on the apparatus.
- When discarding batteries, environmental problems must be considered and local rules or laws governing the disposal of these batteries must be followed strictly.
- 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.



SAFETY INSTRUCTIONS "SOME DOS AND DON'TS ON THE SAFE USE OF EQUIPMENT"

This equipment has been designed and manufactured to meet international safety standards but, like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.

Do read the operating instructions before you attempt to use the equipment.

Do ensure that all electrical connections (including the mains plug, extension leads and interconnections between pieces of equipment) are properly made and in accordance with the manufacturer's instructions. Switch off and withdraw the mains plug when making or changing connections.

Do consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.

Do be careful with glass panels or doors on equipment.

DON'T continue to operate the equipment if you are in any doubt about it working normally, or if it is damaged in any way – switch off, withdraw the mains plug and consult your dealer.

DON'T remove any fixed cover as this may expose dangerous voltages.

DON'T leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a standby mode.

Switch off using the switch on the equipment and make sure that your family know how to do this.

Special arrangements may need to be made for infirm or handicapped people.

DON'T use equipment such as personal stereos or radios so that you are distracted from the requirements of traffic safety. It is illegal to watch television whilst driving.

DON'T listen to headphones at high volume as such use can permanently damage your hearing.

DON'T obstruct the ventilation of the equipment, for example with curtains or soft furnishings.

Overheating will cause damage and shorten the life of the equipment.

DON'T use makeshift stands and NEVER fix legs with wood screws — to ensure complete safety always fit the manufacturer's approved stand or legs with the fixings provided according to the instructions.

DON'T allow electrical equipment to be exposed to rain or moisture.

ABOVE ALL

- NEVER let anyone, especially children, push anything into holes, slots or any other opening in the case -this could result in a fatal electrical shock.;

- NEVER guess or take chances with electrical equipment of any kind - it is better to be safe than sorry!

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Basic operations	
Basic operations	

Remote control When operating the receiver (RX-ES1SL), set the mode selector (26) to "AUDIO/TV/VCR/STB." When operating the player (XV-N55SL), set the mode selector (26) to "DVD." HOME CINEMA CONTROL CENTER ወ/I AUDIO TV DIRECT (0 0 0) 1 DVD VCR STB т٧ 2 (0/1) ((U)) ((U)) ((U)) VCR DVD STB тν 3 23 DVD MULTI FM/AM TV/VIDEO MUTING 24 4 Τ ν νοι CHANNEL VOLUME 25 5 DVD + ++26 /VCR/STB **TUNING** FM MODE TUNING **I** 6 MEMORY ••) TA/NEWS/INFO TOP MENU MENU \bigcirc 7 (ENTER) PTY PTY ON SCREEN сноіс DISPLAY PTY SEARCH 8 27 SUBTITLE TITLE/GROUP RETURN AUDIO 9 28 BASS 2 ZOOM TREBLE 10 ((3) (BASS TREBLE 11 VFP) 4 6 29 7 TV <u>RETU</u>RN 12 <u>হি</u> 8 9 ANGLE 100+ 13 (10) 0 +10 REPEAT 14 3D) 15 16 SLEEP ANALOG/DIGITAL CANCEL DIMMER 30 17 (INPUT) Ū 31 1 18 32 A.POSITION MART S. SETUP RASS BOOST TONE 33 19 20 34 SURROUND EFFECT TEST 35 21 SUBWER CENTER 22 - - -. . . _ _ _

See pages in parentheses for details.

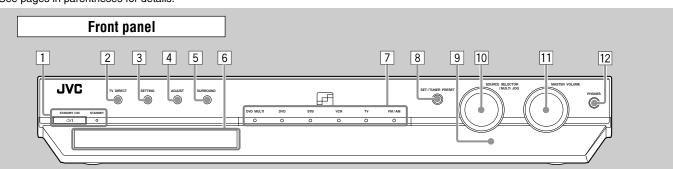
- 1 TV DIRECT button (13)
- 2 Standby/on buttons (11, 36, 62 64)
- Φ/Ι AUDIO, DVD Φ/Ι, VCR Φ/Ι, STB Φ/Ι, TV Φ/Ι

 3 Source selecting buttons (11)
- DVD, VCR, STB, TV, DVD MULTI, FM/AM
- GHANNEL +/- buttons (62 64)
 TV VOL (volume) +/- buttons (62, 64)
- Generating buttons for video components (62, 64)
 I=
 I=
 - Operating buttons for tuner (23, 24) TUNING **()**, TUNING **()**, FM MODE, MEMORY
- ⑦ Operating buttons for DVD TOP MENU, MENU, CHOICE, ON SCREEN, ENTER,
 ▶, ◄, ▲, ▼
 - Operating buttons for RDS (25 27)
 - PTY (), PTY (), PTY SEARCH, TA/NEWS/INFO, DISPLAY
- 8 SUBTITLE button (45)
- 9 AUDIO button (45)
- 10 ZOOM button (46, 52)
- 11 VFP button (46)
- 12 Ϛ button (40)
- ANGLE button (45)
- 14 3D button (47)
- 15 REPEAT button (44, 50, 53)
- 16 SLEEP button (14)
- 17 DIMMER button (14, 37)
- BASS BOOST button (22)
- 9 SMART S (surround). SETUP button (15)
- 20 EFFECT button (33) 21 TEST button (31)
- Adjusting buttons for speaker and subwoofer output levels (22, 31, 32, 34)
- SUBWFR (subwoofer) +/-, CENTER +/-, SURR L (Left surround) +/-, SURR R (right surround) +/-
- 23 TV/VIDEO button (62, 64)
- 24 MUTING button (13)
- 25 VOLUME +/- buttons (12)
- 26 Mode selector
- DVD, AUDIO/TV/VCR/STB 27 TITLE/GROUP button (41, 50, 52)
- 28 RETURN button (41)
- Numeric buttons for adjusting tone (21)
 BASS \$/\$\Omega\$, TREBLE \$/\$\Omega\$
 - Numeric buttons for selecting preset channels (24)
 - Numeric buttons for operating video components (62 64)
- 30 ANALOG/DIGITAL INPUT button (11, 12)
- 31 CANCEL button (43)
- 32 TONE button (21)
- 33 A (audio).POSITION button (22)
- 34 DECODE button (12)
- 35 SURROUND button (30)



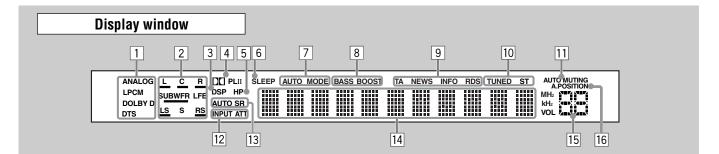
RX-ES1SL

See pages in parentheses for details.



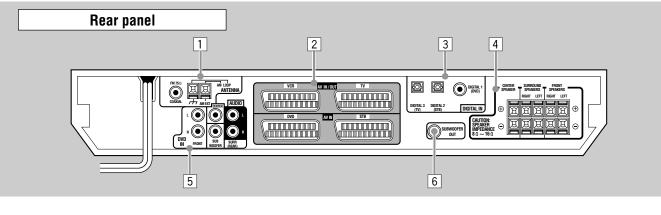
- STANDBY/ON ひ/I button and STANDBY lamp (11)
- 2 TV DIRECT button (13)
- 3 SETTING button (16, 17, 19)
- 4 ADJUST button (21, 31, 33, 34)
- 5 SURROUND button (31, 33)
- 6 Display window (see below)
- Source indicators
 DVD MULTI, DVD, STB, VCR, TV, FM/AM

- 8 SET button (16, 17, 19, 21, 31, 33, 34)
- TUNER PRESET button (24)
- 9 Remote sensor (5)
- 10 SOURCE SELECTOR (11)
- MULTI JOG (16, 17, 19, 21, 31 34)
- 11 MASTER VOLUME control (12)
- 12 PHONES jack (12)



- Signal format indicators (11, 13) ANALOG, LPCM (Linear PCM), DOLBY D (Dolby Digital), DTS
 Signal and appalent indicators (14)
- 2 Signal and speaker indicators (14)
- 3 DSP indicator (29, 32, 33)
- 4 PL II indicator (28)
- 5 HP (headphone) indicator (12)
- 6 SLEEP indicator (14)
- 7 AUTO MODE indicator (20)
- BASS BOOST indicator (22)
- RDS operation indicators (25, 27)
 TA, NEWS, INFO, RDS

- 10 Tuner operation indicators (23) TUNED, ST (stereo)
- 11 AUTO MUTING indicator (24)
- IPUT ATT (attenuator) indicator (22)
- III
 AUTO SR (surround) indicator (20)
- 14 Main display
- 15 Volume level indicator (11)
- 6 A (audio).POSITION indicator (22)



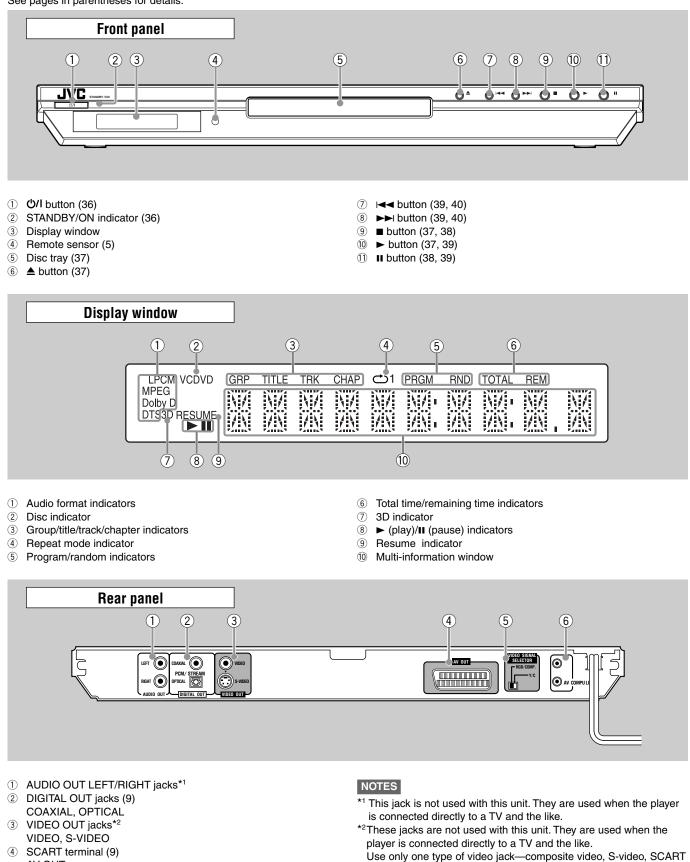
- 1 ANTENNA terminals (6)
- 2 SCART terminals (9) AV IN/OUT (VCR, TV), AV IN (DVD, STB)
- 3 DIGITAL IN terminals (8)
 - DIGITAL 1 (DVD), DIGITAL 2 (STB), DIGITAL 3 (TV)
- 4 Speaker terminals (7)

FRONT SPEAKERS, SURROUND SPEAKERS, CENTER SPEAKER

- 5 DVD IN jacks (10)
- FRONT, CENTER, SURR (REAR), SUBWOOFER
- 6 SUBWOOFER OUT jack (7)

XV-N55SL

See pages in parentheses for details.



AV OUT

- 5 VIDEO SIGNAL SELECTOR (9)
- 6 AV COMPU LINK (for future use)

color and brightness show incorrectly on the display.

-when connecting the DVD player. Using multiple jacks will make

Precautions

General precautions

- DO NOT disassemble the unit or remove screws, covers, or cabinet.
- DO NOT expose the unit to rain or moisture.
- DO NOT expose the unit to direct sunlight or place it near a heating device.

Locations

 Install the receiver in a location that is level and protected from moisture and dust.

If water gets inside the unit, turn off the power and remove the plug from the outlet, then consult your dealer. Using the unit in this state may cause a fire or electrical shock.

- Select a place which is level, dry and neither too hot nor too cold between 5°C and 35°C
- Make sure there is good ventilation around the receiver. Poor ventilation could cause overheating and damage the receiver.
- Leave sufficient distance between the unit and the TV.
- Do not install the unit in a place subject to vibrations.

Handling the receiver

- DO NOT touch the power cord with wet hands.
- DO NOT pull on the power cord to unplug the cord. When unplugging the cord, always grasp the plug so as not to damage the cord.
- Keep the power cord away from the connecting cords and the antenna. The power cord may cause noise or screen interference. It is recommended to use a coaxial cable for antenna connection, since it is well-shielded against interference.
- When a power failure occurs, or when you unplug the power cord, the preset settings such as preset FM or AM (MW) channels and sound adjustments may be erased in a few days.
- When you are away on travel or otherwise for an extended period or time, remove the plug from the wall outlet. A small amount of power is always consumed while the power cord is connected to the wall outlet.

To prevent the malfunction

- There are no user-servicable parts inside. If anything goes wrong, unplug the power cord and consult your dealer.
- Do not insert any metallic objects, such as wires, hairpins, coins, etc, into the unit.
- Do not block the vents. Blocking the vents may damage the unit.

To clean the cabinet

- Use a soft cloth. Follow the relevant instructions on the use of chemically-coated cloths.
- Do not use benzene, thinner or other organic solvents and disinfectants. These may cause deformation or discoloring.

Checking the supplied accessories

Check to be sure you have all of the following supplied accessories. The number in parentheses indicates the quantity of each piece supplied.

- Remote control (1)
- Batteries (2)
- AM (MW) loop antenna (1)
- FM antenna (1)
- SCART cable (1)
- Digital coaxial cord (1)
- Audio video cord (yellow/red/white) (1) —not for using with RX-ES1SL

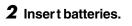
If anything is missing, contact your dealer immediately.

Putting batteries in the remote control

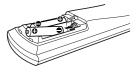
Before using the remote control, put two supplied batteries first.

Press and slide the buttery cover on the bac k of the remote control.

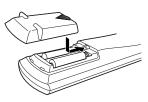




Make sure to match the polarity: (+) to (+) and (-) to (-).



3 Replace the co ver.



If the range or effectiveness of the remote control decreases, replace the batteries. Use two R6P(SUM-3)/AA(15F) type dry-cell batteries. • Supplied butteries are for initial setup. Replace for continued use.

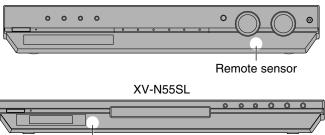
CAUTION:

Follow these precautions to avoid leaking or cracking cells:

- Place batteries in the remote control so they match the polarity: (+) to (+) and (–) to (–).
- Use the correct type of batteries. Batteries that look similar may differ in voltage.
- Always replace both batteries at the same time.
- Do not expose batteries to heat or flame.

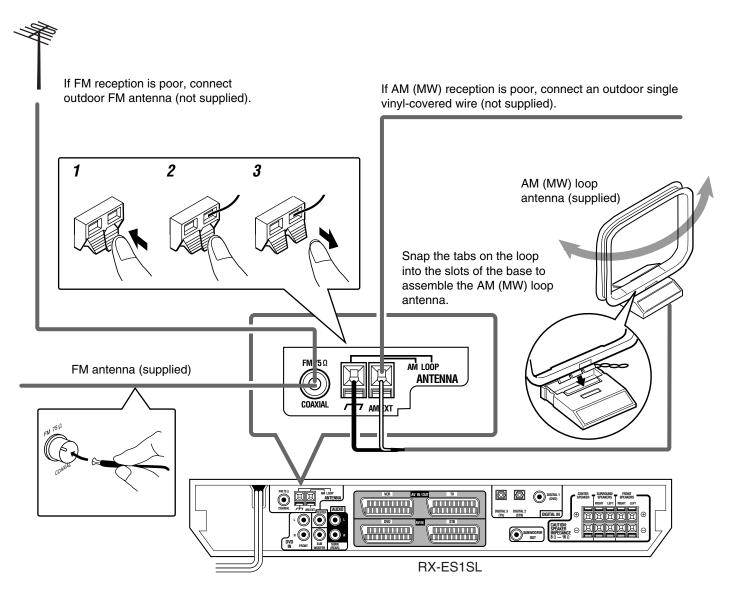
When using the remote control, aim the remote control directly at the remote sensor on the front panel.

RX-ES1SL



Remote sensor

Connecting the FM and AM (MW) antennas



AM (MW) antenna connection

Connect the AM (MW) loop antenna supplied to the AM LOOP terminals.

Connect the white cord to the AM EXT terminal, and the black cord to $_{r\!\!/\!\tau}$ terminal.

Turn the loop until you have the best reception.

 If the reception is poor, connect an outdoor single vinyl-covered wire (not supplied) to the AM EXT terminal. Keep the AM (MW) loop antenna connected.

FM antenna connection

Connect the FM antenna supplied to the FM 75 Ω COAXIAL terminal as temporary measure.

Extend the supplied FM antenna horizontally.

 If the reception is poor, connect an outdoor FM antenna (not supplied). Before attaching a 75 Ω coaxial cable with a connector (IEC or DIN 45325), disconnect the supplied FM antenna.

NOTES

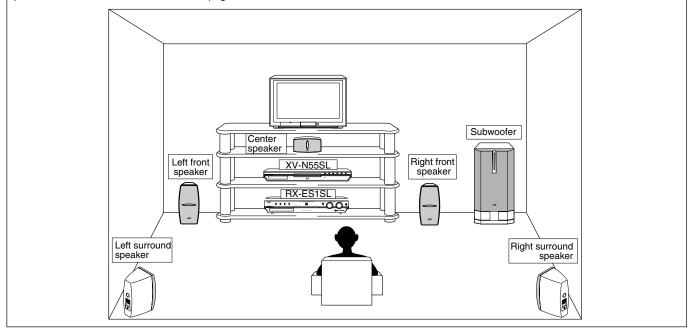
- If the AM (MW) loop antenna wire is covered with vinyl, remove the vinyl while twisting it as shown on the right.
- Make sure the antenna conductors do not touch any
 other terminals, connecting cords and power cord.
 This could cause poor reception.

Connecting the speakers and DVD player

Turn off all components before connections.

Speaker Layout Diagram

After connecting the front, center and surround speakers, and/or a subwoofer, set the speaker setting information properly to obtain the best possible surround effect. For details, see pages 15 to 18.



Connecting the front, center, and surround speakers

For each speaker, connect the (+) and (–) terminals on the rear panel to the (+) and (–) terminals marked on the speakers respectively.

- **1** Twist and remove the insulation at the end of each speaker cord (not supplied).
- **2** Press and hold the clamp of the speaker terminal (①), then insert the speaker cord (②).
- **3** Release the finger from the clamp.

CAUTION:

Use speakers with the SPEAKER IMPEDANCE indicated by the speaker terminals.

Connecting the subwoofer

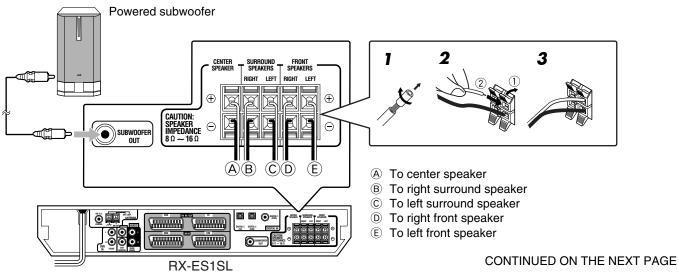
By connecting a subwoofer, you can enhance the bass or reproduce the original LFE signals recorded in the digital software.

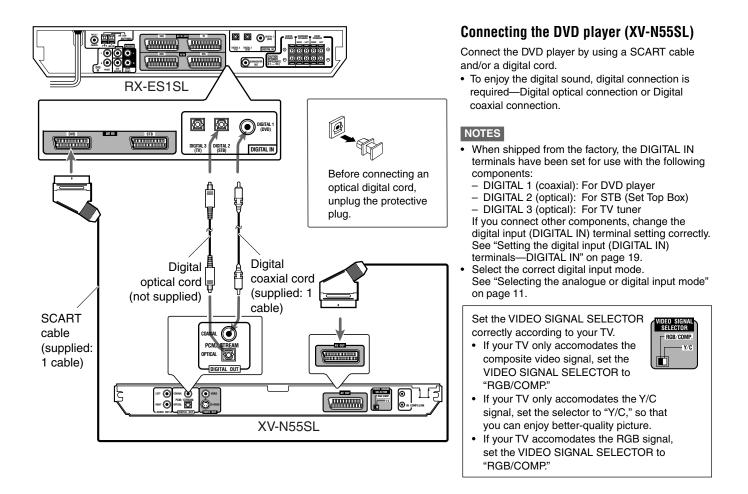
Connect the input jack of a powered subwoofer to the SUBWOOFER OUT jack on the rear panel, using a cord with RCA pin plugs (not supplied).

• Refer also to the manual supplied with your subwoofer.

NOTE

You can place a subwoofer wherever you like since bass sound is non-directional. Normally place it in front of you.





Connecting other video components

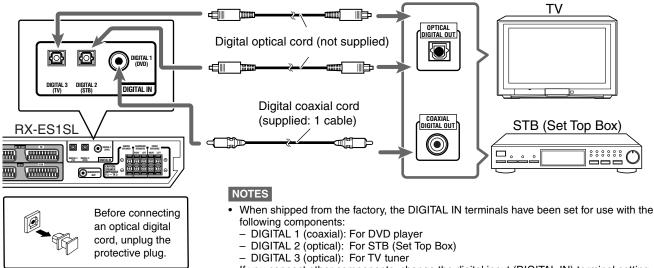
Turn off all components before making connections.

 Illustrations of the input/output terminals are typical examples. When you connect other components, refer also to their manuals since the terminal names actually printed on the rear vary among different components.

CAUTION:

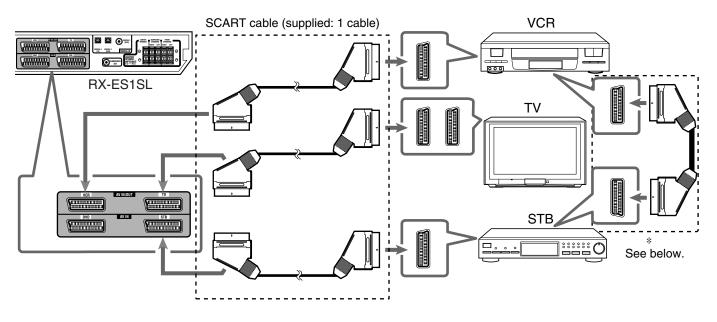
If you connect a sound-enhancing device such as a graphic equalizer between the source components and this receiver, the sound output through this receiver may be distorted.

Digital connection



- If you connect other components, change the digital input (DIGITAL IN) terminal setting correctly. See "Setting the digital input (DIGITAL IN) terminals—DIGITAL IN" on page 19. Select the correct digital input mode.
- See "Selecting the analogue or digital input mode" on page 11.

SCART connection



For TV and video format

- When the TV is equipped with the multiple SCART terminals, refer to the TV manual to check the available video signals for each terminal, then connect SCART cable correctly.
- This receiver cannot convert the video signals (S-video or Composite). When the video signal of one video component is different from that of the other (for example, one is S-video, the other is Composite), you may not see the pictures appropriately. In this case, unify the video signals of all the video components into S-video or Composite, or you need to switch the video signal of TV each time you change the source.

For T-V LINK

- You can use the T-V LINK function if you connect a T-V LINK compatible TV and VCR to this receiver with a fully wired SCART cables. For details on T-V LINK, refer also to the manuals supplied with the TV and the VCR.
- Connect a SCART cable to EXT-2 terminal on your JVC's T-V LINK compatible TV for the T-V LINK function.
- Some TV, VCR, STB and DVD players' support the data communication like T-V LINK. For complete details, refer also to the manuals supplied with these components.

* For an analogue decoder

To watch or record a scrambled program on your VCR, connect the analogue decoder to your VCR and select the scrambled channel on your VCR.

If there is not an appropriate terminal for the decoder connection on your VCR, connect the decoder to your TV.

Refer also to the manuals supplied with these components.

* For recording pictures from STB

When you connect a STB and a VCR directly with a SCART cable, you can record the pictures from the STB onto VCR without using the STB menu screens. For details, refer also to the manuals supplied with the STB.

For digital sounds

To reproduce the digital sound, use both the digital connection and the SCART cable connection (see pages 8 and 9).

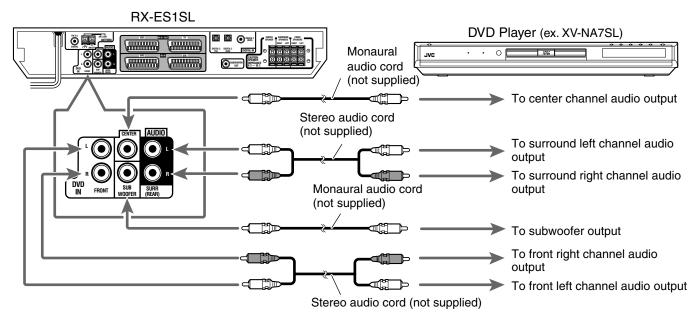
SCART Terminal Specifications

			ΤV	VCR	STB	DVD
	AUDIO	L/R	0	0	0	0
IN		Composite	0	0	0	0
	VIDEO	S-video	-	0	0	0
		RGB	-	0	0	0
	AUDIO	L/R	O*1	O*1	\backslash	
ОЛТ		Composite	O*1*2	O*1*2		
	VIDEO	S-video	O*2	-		\backslash
		RGB	O*2	_		
	T-V LINK		О*з	O*3	○*₃	○*₃

- *1 The signals input from a SCART terminal cannot be output through the same SCART terminal.
- *2 The video format of the output video signals are consistent with that of the input video signals. For example, if S-video signals are input to this receiver, no signals other than S-video signals can be output from this receiver. Refer to the manuals supplied with the video components to check the setting of the input/output video signals.
- *3 The signals for the T-V LINK function are always going through the receiver.

Analogue connection for DVD MULTI playback (see page 34)

• DVD MULTI playback is not available for XV-N55SL.



NOTE

When using the DVD MULTI playback, use the same DVD player connected to this receiver by a SCART cable. If you connect a different DVD player, the mixed sound from front left and right channels are reproduced.

Connecting the power cord

When all the audio/video connections have been made, connect the AC power plug to the wall outlet. Make sure that the plugs are inserted firmly. The STANDBY lamp on the receiver and indicator on the DVD player light in red.

• Keep the power cord away from the connecting cables and the antenna. The power cord may cause noise or screen interference.

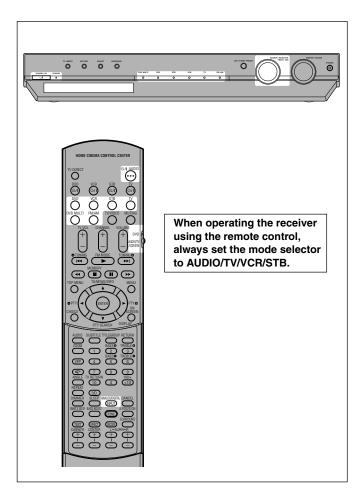
NOTES

- The preset settings such as preset channels and sound adjustment may be erased in a few days in the following cases:
 - when you unplug the power cord.
- when a power failure occurs.
- Disconnect the power cord:
 - if you are not going to use the player for a long period of time.
 - before cleaning the player.
 - before moving the player.
- Do not:
 - connect or disconnect the power cord with wet hands.
 - pull the power cord when disconnecting it, as this may damage the cord and cause fire, electric shock, or other accidents.

CAUTIONS:

- Do not touch the power cord with wet hands.
- Do not alter, twist or pull the power cord, or put anything heavy on it, which may cause fire, electric shock, or other accidents.
- · If the cord is damaged, consult a dealer and have the power cord replaced with a new one.

RX-ES1SL Basic operations



Turn on the power

Press STANDBY/ON ७/। (or ৩/। AUDIO on the remote control).

The STANDBY lamp goes off. The current source indicator lights in red. The name of the current source (or station frequency) appears on the display.

Current volume level is shown here.

ANALOG L C R SUBWFR LFE LS RS	DUD	VOL , VOL ,

Current source name appears.

To turn off the power (into standby)

Press STANDBY/ON **U**/I again (or **U**/I AUDIO on the remote control). The STANDBY lamp lights up.

NOTE

A small amount of power is consumed in standby mode. To turn the power off completely, unplug the AC power cord.

$oldsymbol{2}$ Select the source to play

On the front panel:

Turn SOURCE SELECTOR until the source name you want appears on the display.

The source indicator corresponding to the selected source lights in red.

As you turn SOURCE SELECTOR, the source changes as follow:



DVD MULTI \leftrightarrow DVD (DVD DIGITAL) \leftrightarrow STB (STB DIGITAL) \leftrightarrow VCR \leftrightarrow TV (TV DIGITAL) \leftrightarrow FM \leftrightarrow AM \leftrightarrow (Back to the beginning)

From the remote control:

Press one of the source selecting buttons.

• Each time you press FM/AM, FM and AM (MW) changes alternately.

DVD MULTI:	Select the DVD player using the analogue discrete output mode (5.1 channel reproduction). To enjoy the DVD MULTI playback see page 34.
DVD (DIGITAL)*:	Select the DVD player.
STB (DIGITAL)*:	Select the STB.
VCR:	Select the VCR.
TV (DIGITAL)*:	Select the TV tuner.
FM:	Select an FM broadcast.
AM:	Select an AM (MW) broadcast.

* Selecting the analogue or digital input mode

When you have connected the DVD player, STB, or TV tuner using both the analogue connection and the digital connection methods (see pages 8 and 9), you need to select the correct input mode.

 You can select the digital input only for sources which you have selected digital input terminals for. (See "Setting the digital input (DIGITAL IN) terminals—DIGITAL IN" on page 19.)

From the remote control ONLY:

Press ANALOG/DIGITAL INPUT to select the analogue or digital input mode.

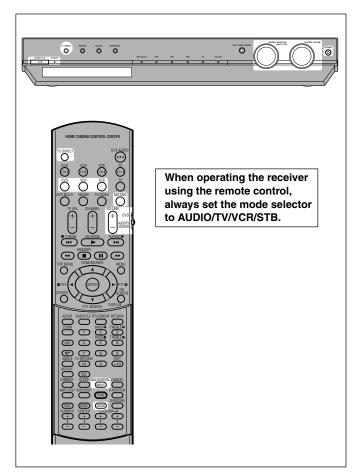
 Each time you press the button, the input mode alternates between the analogue input ("ANALOGUE") and the digital input ("DGTL AUTO").

DGTL AUTO:	Select for the digital input mode. The receiver automatically detects the incoming signal format, then the digital signal format indicator (DOLBY D, DTS or LPCM) for the detected signals lights up.
ANALOGUE*:	Select for the analogue input mode.

* Initial setting

NOTE

You cannot select the digital input mode when selecting "DVD MULTI" as the playing source.



3 Adjust the volume

To increase the volume, turn MASTER VOLUME control clockwise (or press VOLUME + on the remote control).

To decrease the volume, turn MASTER VOLUME control counterclockwise (or press VOLUME – on the remote control).

CAUTION:

Always set the volume to the minimum before starting any sources. If the volume is set at its high level, the sudden blast of sound energy can permanently damage your hearing and/or ruin your speakers.

NOTE

The volume level can be adjusted within the range of "0" (minimum) to "50" (maximum).

Listening with headphones

Connect a pair of headphones to the PHONES jack on the front panel. This cancels the Surround mode currently selected, deactivates speakers, and activates the HEADPHONE mode. The HP (headphone) indicator lights up on the display.

• Disconnecting a pair of headphone from the PHONES jack cancels the HEADPHONE mode and activates the speakers.

HEADPHONE mode

When using the headphones, the following signal is output regardless of your speaker setting:

- For 2 channel sources, the front left and right channel signal is output directly from the left and right headphones.
- For multi-channel sources, the front left and right, center and surround channel signal is down-mixed and then output from the headphones without missing bass element.
 You can enjoy multi-channel sound source using the headphones.

CAUTION:

Be sure to turn down the volume:

- Before connecting or putting on headphones, as high volume can damage both the headphones and your hearing.
- Before removing headphones, as high volume may output from the speakers.

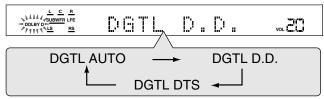
Selecting the digital decode mode

If the following symptoms occur while playing Dolby Digital or DTS Digital Surround software with "DGTL AUTO" selected (see page 11), follow the procedure below:

- Sound does not come out at the beginning of playback.
- Noise comes out while searching for or skipping chapters or tracks.

From the remote control ONLY:

- **1** Press ANALOG/DIGITAL INPUT to select "DGTL AUTO."
- **2** Press DECODE to select "DGTL D.D." or "DGTL DTS."
 - Each time you press the button, the digital input mode changes as follows:



- To play back software encoded with Dolby Digital, select "DGTL D.D."
- To play back software encoded with DTS Digital Surround, select "DGTL DTS."

NOTE

When you turn off the power or select another source, "DGTL DTS" or "DGTL D.D." is canceled and the digital input mode is automatically reset to "DGTL AUTO."

The following are the analogue/digital signal format indicators on the display to indicate what type of signal comes into the receiver. **ANALOG:** Lights when analogue input is selected.

LPCM:	Lights when Linear PCM signal comes in.
DOLBY D:	 Lights when Dolby Digital signal comes in. Flashes when "DGTL D.D." is selected for software not encoded with Dolby Digital.

DTS: • Lights when DTS signal comes in.
• Flashes when "DGTL DTS" is selected for software not encoded with DTS.

NOTE

When "DGTL AUTO" cannot recognize the incoming signal, no digital signal format indicator lights up on the display.

Activating TV Direct

TV Direct enables you to use this receiver as an AV selector while the receiver is not turned on.

When TV Direct is activated, the pictures and sounds go from the video components such as DVD player to the TV through this receiver. Thus, you can use the video components and the TV as if they were connected directly.

 This function takes effect for the following sources—DVD (except DVD MULTI), STB, and VCR when they are connected using the SCART cables.

To activate (or deactivate) TV Direct, follow the procedure below:

1 Press TV DIRECT.

All the indications disappear, then the source indicator currently selected lights in green.

2 Turn on the video component and TV.

3 Select the target video component.

On the front panel:

Turn SOURCE SELECTOR until one of the source indicator—DVD, VCR, or STB—lights in green.

From the remote control:

Press one of the source selecting buttons—DVD, VCR, or STB.

The source indicator corresponding to the selected source lights in green.

To cancel TV Direct and turn off the receiver, press STANDBY/ON ひり on the front panel.

The receiver is turned off and the STANDBY lamp lights up.

To cancel TV Direct and turn on the receiver, press TV DIRECT. The receiver is turned on and the source indicator currently selected lights in red.

NOTES

- When TV Direct is activated, you cannot enjoy any of the sound effects this receiver produces, and cannot use the speakers connected to this receiver.
- You can use the T-V LINK function between the TV and VCR while TV Direct is activated. (For T-V LINK functions, refer to the manuals supplied with the TV and the VCR.)
- TV Direct cannot be used for the DVD MULTI playback mode (see page 34).

Turning off the sounds temporarily— Muting

From the remote control ONLY:

Press MUTING to turn off the sound through all connected speakers.

"MUTING" appears on the display and the volume turns off (the volume level indicator goes off).

To restore the sound, press MUTING again.

 Pressing VOLUME +/- (or turning MASTER VOLUME control on the front panel) also restores the sound.

Turning off the power with the Sleep Timer

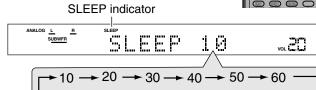
You can fall asleep while listening to music—Sleep Timer.

From the remote control ONLY:

Press SLEEP repeatedly.

The SLEEP indicator lights up on the display, and the shut-off time changes in 10 minutes intervals.







When the shut-off time comes:

The receiver turns off automatically.

To check or change the remaining time until the shut-off time: Press SLEEP once.

- The remaining time (in minutes) until the shut-off time appears.
- · To change the shut-off time, press SLEEP repeatedly.

To cancel the Sleep Timer:

Press SLEEP repeatedly until "SLEEP 0" appears on the display. (The SLEEP indicator goes off.)

• Turning off the power also cancels the Sleep Timer.

Changing the display brightness

You can dim the display.

From the remote control ONLY:

Press DIMMER repeatedly.

 Each time you pr changes as follow 	ess the button, the indication v:	
DIMMER 1:	 Dims the display slightly. Dims the blue indication 	
DIMMER 2:	 lighting source lamps. Dims the display more than DIMMER 1. Dims the blue indication lighting source lamps (same as DIMMER 1). 	
DIMMER 3:	Turns off the display and the blue indication lighting source lamps.	
DIMMER OFF:	Cancels the dim (normal display).	

NOTE

When setting speakers and basic items or adjusting sound, select "DIMMER OFF" to confirm the setting you make on the display.

Basic adjustment of auto memory

This receiver memorizes sound settings for each source:

- when you turn off the power,
- when you change the source, and
- when you change the analogue/digital input mode (see page 11).

When you change the source, the memorized settings for the newly selected source are automatically recalled. The following can be stored for each source:

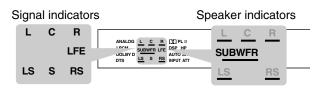
- Analogue/digital input mode (see page 11)
- Tone adjustment (see page 21)
- Balance (see page 21)
- Bass boost (see page 21)
- Input attenuator mode (see page 22)
- Subwoofer output level (see page 22)
- Subwoofer audio position (see page 22)
- Subwooler addid position (see page 22)
 Surround/DSP mode selection (see pages 28 33)

NOTE

NOTE

If the source is FM or AM (MW), you can assign a different setting for each band.

Signal and speaker indicators on the display



The following signal indicators light up —:

- L: •When digital input is selected: Lights up when the left channel signal comes in.
 - When analogue input is selected: Always lights up.
- R: •When digital input is selected: Lights up when the right channel signal comes in.
 - When analogue input is selected: Always lights up.
- C: Lights up when the center channel signal comes in.
- LS: Lights up when the left surround channel signal comes in.
- RS: Lights up when the right surround channel signal comes in. S: Lights up when the monaural surround channel signal
- comes in.
- LFE: Lights up when the LFE channel signal comes in.

The speaker indicators light up as follows:

- The subwoofer indicator (SUBWFR) lights up when "SUBWFR" is set to "USE" for Quick Setup (see page 16) or to "YES" for Manual Setup (see page 17).
- The other speaker indicators light up only when the corresponding speaker is set to "SML" or "LRG," and also when required for the current playback.

RX-ES1SL **Speaker settings**

To obtain the best possible surround effect from Surround/DSP modes (see pages 28 to 33), you need to set up the speaker and subwoofer information after all the connections are completed. You can set the speaker information using one of the following three methods.

Smart Surround Setup: Set the speakers information automatically by one simple action-clapping hands. The delay time and output level for

Quick Setup:

the center and surround speakers are set automatically. Set the speakers and subwoofer information quickly by entering the use of the subwoofer, the number of the speakers, and your room size.

Manual Setup:

up: Set the speakers and subwoofer information manually.

· Before starting the speaker setting, connect and position the speakers and subwoofer (see page 7) and turn on the receiver.

Setting the speakers information automatically—Smart Surround Setup

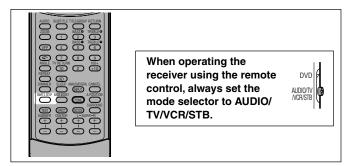
The distance from your listening point to the speakers is one of the important element to obtain the best possible sound effect for the Surround/DSP modes.

You need to set the delay time of the center and surround speakers relative to the front speakers so that sounds through all the speakers can reach you at the same time (see also page 18).

By using Smart Surround Setup, the speaker delay time and output level are automatically calculated by one simple action—clapping hands.

- To use Smart Surround Setup effectively, connect both the center and surround speakers.
- You can also set the crossover frequency, the low frequency effect attenuator and the dynamic range compression manually (see page 18).
- When you change your speakers, do the following steps again.

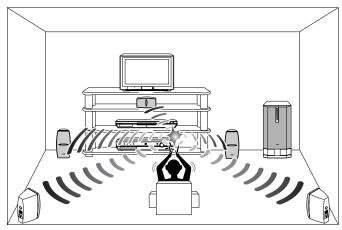
From the remote control ONLY:



Before you start, remember...

There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step **2** again.

1 Take your position where you listen to the sound.



ĽĽĽ

2 Press and hold SMART S. SETUP.

"SETTING UP" flashes on the display.

NALOG L R

and subwoofer (see page 7) and turn on the receiver. Confirm "SETTING UP" stops flashing and clap your hands over your head once while "SETTING UP" appears on the display.

The receiver starts detecting the level of the sound coming through all speakers (except the subwoofer). After detecting the sound, one of the following indications appears on the display.

SUCCESSFUL:	Sound of your clapping is successfully detected. The receiver sets the delay time and the output level of the center and surround speakers automatically.
SILENT:	The receiver cannot detect sound from some speakers.
SILENT-ALL:	The receiver cannot detect any sound from all speakers.
FAILED:	The receiver cannot detect both right and left channels for the front and/or surround speakers correctly.

- When the receiver cannot detect the sound correctly ("SILENT," "SILENT-ALL" or "FAILED" appears on the display), "SETTING UP" appears on the display again then repeat step **3**.
- The speaker delay time and output levels are set automatically when:
 - -the receiver detects the sound as "SILENT" twice in succession.
- When the receiver detects the sound as "SILENT-ALL" or "FAILED" three times, "MANUAL" appears on the display. Set the speaker and subwoofer information using Quick Setup (see page 16) or Manual Setup (see page 17), and the speakers' output levels for the center and surround speakers (see page 31 to 33).

To cancel Smart Surround Setup, press SMART S. SETUP while "SETTING UP" flashes on the display.

• Any other operations cannot be done after "SETTING UP" stops flashing. Complete the Smart Surround Setup.

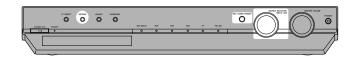
NOTES

- You need to set the subwoofer information and output level manually (see pages 17 and 21).
- When you use Smart Surround Setup, the speaker delay time and output levels you have set before will be ineffective.
- Set the speakers information using Quick Setup (see page 16) or Manual Setup (see page 17), and the speakers' output levels for the center and surround speakers (see pages 31 to 33) when:
 —you like to change the speaker setting made by Smart Surround Setup
- —Smart Surround Setup is not done correctly due to some factors such as the environment, speaker types and clapping strength.
- Smart Surround Setup will not be done correctly if your body or other object blocks the sound.
- Do not clap your hands hard because it may hurt your hands.

Setting the speakers and subwoofer information quickly—Quick Setup

Entering the use of the subwoofer, the number of the speakers, and your room size, the center and surround speakers' delay time is automatically calculated.

- When you change your speakers, register the information about the speakers again.
- You can also set the crossover frequency, the low frequency effect attenuator and the dynamic range compression manually (see page 18).



On the front panel ONLY:

Before you start, remember...

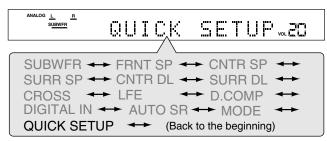
There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step **1** again.

1 Press SETTING.

MULTI JOG now works for the setting operation.

2 Turn MULTI JOG until "QUICK SETUP" appears on the display.

• As you turn MULTI JOG, the indication changes as follow:

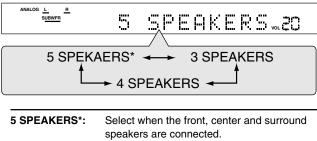


3 Press SET.

- "ENTER THE NUMBER OF SPEAKERS" scrolls on the display.
- Once you have selected "QUICK SETUP," previously adjusted speaker setting is cleared.

4 Turn MULTI JOG to select the number of the speakers you have connected.

• As you turn MULTI JOG, the indication changes as follow:



4 SPEAKERS:	Select when the front and surround speakers are connected.
3 SPEAKERS:	Select when the front and center speakers are connected.

* Initial setting

Each speaker size is registered appropriately according to the number of the connected speakers. For details, see the list "Speaker size according to the number of speakers" on the right.

5 Press SET.

"ENTER USE OF SUBWOOFER" scrolls on the display.

6 Turn MULTI JOG to select whether or not you have connected a subwoofer.

• As you turn MULTI JOG, the indication changes as follow:



7 Press SET.

"ENTER ROOM SIZE" scrolls on the display.

8 Turn MULTI JOG to select the room size.

• As you turn MULTI JOG, the indication changes as follow:

ANALOG <u>L</u> <u>R</u> S <u>UBWFR</u>	SMALL	
SMALL*	→ MEDIU	Μ
t t		* Initial setting
T I		

The center and surround speakers' delay time is registered appropriately according to the room size. For details, see the list "Speaker delay time according to room size" below.

9 Press SET to finish the setting.

"SETUP END" appears for a while, then the indication of the previously selected source appears on the display.

NOTES

- The setting you have made is not registered until "SETUP END" appears on the display.
- Performing any operation other than volume and dimmer adjustment cancels Quick Setup process.
- When you want to change the speaker and subwoofer information after Quick Setup, use Manual Setup (see page 17).

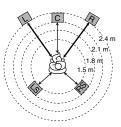
Speaker size according to the number of speakers

Number of speakers	Subwoofer	Front	Center	Surround
3	NO	LRG (large)	SML (small)	NO
3	USE (YES)	SML (small)	SML (small)	NO
4	NO	LRG (large)	NO	SML (small)
4	USE (YES)	SML (small)	NO	SML (small)
5	NO	LRG (large)	SML (small)	SML (small)
5	USE (YES)	SML (small)	SML (small)	SML (small)

Speaker delay time according to room size

When selecting "SMALL ROOM,"

- Center speaker delay time
- is set to 1 msec.
- Surround speakers delay time is set to 3 msec.



When selecting "MEDIUM ROOM," Center speaker delay time is set to 1 msec. Surround speakers delay time is set to 2 msec. When selecting "LARGE ROOM," Center speaker delay time is set to 0 msec. Surround speakers delay time is set to 0 msec.

Setting the speakers and subwoofer information manually—Manual Setup

You can set the following speakers and subwoofer information manually as you prefer. When you change your speakers, register the information again.

- Subwoofer information—SUBWFR
- Speaker size—FRNT SP, CNTR SP, SURR SP
- Speaker delay time—CNTR DL, SURR DL
- Crossover frequency—CROSS
- Low frequency effect attenuator—LFE
- Dynamic range compression—D.COMP

Operating procedure



On the front panel ONLY:

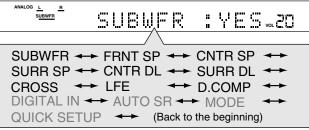
Before you start, remember...

There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step **1** again.

1 Press SETTING.

MULTI JOG now works for the setting operation.

- **2** Turn MULTI JOG until the setting item you want to set appears on the display, then press SET.
 - As you turn MULTI JOG, the indication changes as follow:



3 Turn MULTI JOG to select the appropriate setting for the item selected in step **2**, then press SET.

Your setting is stored.

ANALOG L	R	SUBWFR	11 11	

EX.: When selecting "NO" for "SUBWFR."

4 If you would like to set other items, repeat steps 2 and 3.

Setting the subwoofer information —SUBWFR (subwoofer)

Register whether you have connected a subwoofer or not.

YES*:	Select when you have connected a subwoofer. The subwoofer speaker indicator (SUBWFR) lights up on the display (see page 14). You can adjust the subwoofer output level (see page 22).
NO:	Select when you have not connected or have disconnected a subwoofer.

* Initial setting

Setting the speakers size

- FRNT SP (front speakers), CNTR SP (center speaker), SURR SP (surround speakers)

Register the sizes of all the connected speakers.

LRG (large):	Select when the cone speaker size is larger than 12 cm.
SML (small)*:	Select when the cone speaker size is smaller than 12 cm.
NO:	Select when you have not connected a speaker. (Not selectable for the front speakers.)

* Initial setting

NOTES

- If you have selected "SML (small)" for the front speaker size, you cannot select "LRG (large)" for the center and surround speaker sizes.
- If you have selected "NO" for the subwoofer setting (see above and page 16), you can only select "LRG (large)" for the front speaker size.

Setting the speaker delay time — CNTR DL (center speaker delay), SURR DL (surround speakers delay)

You can set the speaker delay time easily by using Smart Surround Setup (see page 15) or Quick Setup (see page 16).

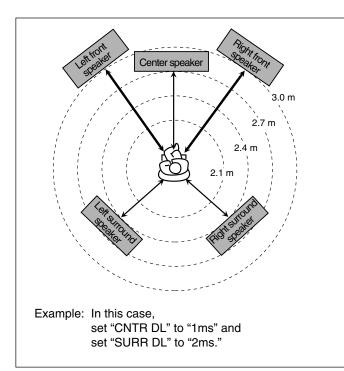
The distance from your listening point to the speakers is one of the important element to obtain the best possible surround sound for the Surround modes.

You need to set the delay time of the center and surround speakers relative to the front speakers so that sounds through all the speakers can reach you at the same time.

 1 msec increase (or decrease) in delay time corresponds to (30 cm) increase (or decrease) in distance.

CNTR DL*:	Set the delay time for the center speaker within a range of 0 msec to 5 msec (in 1 msec intervals).	
SURR DL*:	Set the delay time for the surround speakers within a range of 0 msec to 15 msec (in 1 msec intervals).	

* "0ms" is the initial setting.



NOTE

If you have selected "NO" for the center and surround speakers setting (see page 17), you cannot set the speaker delay time for the center and surround speakers.

Setting the crossover frequency—CROSS

Small speakers cannot reproduce the bass sounds efficiently. If you use a small speaker in any position, this receiver automatically reallocates the bass sound elements assigned to the small speaker to the large speakers.

To use this function properly, set this crossover frequency level according to the size of the small speaker connected.

 If you have selected "LRG (large)" for all speakers (see page 17), this function will not take effect.

80HZ:	Select when the cone speaker unit built in the speaker is about 12 cm.
100HZ:	Select when the cone speaker unit built in the speaker is about 10 cm.
120HZ:	Select when the cone speaker unit built in the speaker is about 8 cm.
150HZ*:	Select when the cone speaker unit built in the speaker is about 6 cm.
200HZ:	Select when the cone speaker unit built in the speaker is less than 5 cm.

Initial setting

NOTE

Crossover frequency is not valid for the HEADPHONE mode.

Setting the low frequency effect attenuator —LFE

If the bass sound is distorted while playing back software encoded with **Dolby Digital** or **DTS**, set the LFE level to eliminate distortion. • This function takes effect only when the LFE signals come in.

0dB*:	Normally select this.
–10dB:	Select when the bass sound is distorted.

* Initial setting

Setting the dynamic range compression —D.COMP

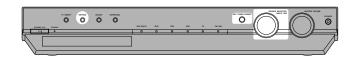
You can compress the dynamic range (difference between maximum sound and minimum sound) of the reproduced sound. This is useful when listening to surround sound at night.

• This function takes effect only when playing back a source encoded with **Dolby Digital**.

OFF:	Select when you want to enjoy surround with its full dynamic range. (No effect applied.)
MID*:	Select when you want to reduce the dynamic range a little.
MAX:	Select when you want to apply the compression effect fully. (Useful at night.)

* Initial setting

Operating procedure



On the front panel ONLY:

Before you start, remember...

There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

1 Press SETTING.

MULTI JOG now works for the setting operation.

- **2** Turn MULTI JOG until the setting item you want to set appears on the display, then press SET.
 - As you turn MULTI JOG, the indication changes as follow:

	(
SUBWFR \leftrightarrow FRNT SP \leftrightarrow CNTR SP \leftrightarrow SURR SP \leftrightarrow CNTR DL \leftrightarrow SURR DL \leftrightarrow CROSS \leftrightarrow LFE \leftrightarrow D.COMP \leftrightarrow	
DIGITAL IN* ↔ AUTO SR ↔ MODE ↔ QUICK SETUP ↔ (Back to the beginning)	

* Setting item you can select appears on the display after "DIGITAL IN" appears for a few seconds.

3 Turn MULTI JOG to select the appropriate setting for the item selected in step **2**, then press SET.

Your setting is stored.

ANALOG L R SUBWFR	1	NUNDSTRVIU 🔊
	.i	հու՝ հել՝ հու՝ միսը սոս՝ է հոս՝ հոս՝ է ՝ ՝ ՝ VOL կոռ կող

EX.: When selecting "1DVD2STB3TV" for "DIGITAL IN".

Setting the digital input (DIGITAL IN) terminals—DIGITAL IN

When you use the digital input terminals, register what components are connected to which terminals —DIGITAL 1/2/3 (see page 8) so that the correct source name will appear when you select the digital source.

1DVD2STB3TV*	: Select when connecting the following components; DIGITAL 1:DVD player DIGITAL 2:STB DIGITAL 3:TV tuner
1DVD2TV3STB	: Select when connecting the following components; DIGITAL 1:DVD player DIGITAL 2:TV tuner DIGITAL 3:STB
1STB2DVD3TV	: Select when connecting the following components; DIGITAL 1:STB DIGITAL 2:DVD player DIGITAL 3:TV tuner
1STB2TV3DVD	: Select when connecting the following components; DIGITAL 1:STB DIGITAL 2:TV tuner DIGITAL 3:DVD player
1TV2DVD3STB	: Select when connecting the following components; DIGITAL 1:TV tuner DIGITAL 2:DVD player DIGITAL 3:STB
1TV2STB3DVD	: Select when connecting the following components; DIGITAL 1:TV tuner DIGITAL 2:STB DIGITAL 3:DVD player

* Initial setting

Setting Auto Surround—AUTO SR

You can enjoy Surround mode simply by selecting the source (with digital input selected for that source).

Select "ON" when activating Auto Surround.

ON:	 If multi-channel signal comes in, an appropriate Surround mode will be turned on. If Dolby Digital 2 channel or DTS 2 channel signal including surround signal comes in, "PL II MOVIE" will be selected. If Dolby Digital 2 channel or DTS 2 channel signal not including surround signal comes in, "STEREO" will be selected. If Linear PCM signal comes in, nothing will change.
	The AUTO SR indicator lights up on the display.
OFF*:	Select this to deactivate Auto Surround.

* Initial setting

NOTES

- This function does not take effect in the following cases:
 - While playing an analogue source, and
 - While selecting "DGTL D.D." or "DGTL DTS" as the fixed digital input mode (see page 12).
- If Surround mode is automatically activated by Auto Surround, any other Surround mode in use will be canceled temporarily. When the multi-channel digital signal stops coming in, "PL II MOVIE" activates.
- If you press SURROUND with Auto Surround activated, Auto Surround will be canceled temporarily for the currently selected source.

Auto Surround setting will be restored in the following cases:

- When you turn the receiver off and on,
- When you change the source,
- When you change the analogue/digital input, and
- When you reset "AUTO SR" to "ON" again.

Setting the Auto Function mode—MODE

The video components can be operated through this receiver by activating Auto Function mode.

 This function takes effect for the following sources—DVD (except DVD MULTI), STB, and VCR, when they are connected using SCART cables.

AUTO1:	When a video component is turned on while the receiver is on, the receiver selects the video component as the source automatically. The AUTO MODE indicator lights up on the display.
AUTO2:	When a video component is turned on while the receiver is on or TV Direct activates, the receiver selects the video component as the source automatically.
	When a video component is turned on while the receiver is off, TV Direct activates and the receiver selects the video component as the source automatically.
	When a video component currently selected as the source is turned off while the receiver is on or TV Direct activates, the receiver changes the source to the previously selected one.
	When all video components are turned off while the receiver is on or TV Direct activates, the receiver is turned off automatically.
	The AUTO MODE indicator lights up on the display.
MANUAL*:	Select the source manually.

Initial setting

NOTE

When selecting VCR as the source, "AUTO1" or "AUTO2" may not work if you only turn on the VCR. If this happens, you may need to start playback to activate Auto Function mode.

RX-ES1SL Sound adjustments

When operating the receiver using the remote control, always set the mode selector to AUDIO/TV/VCR/STB.



Operating procedure



On the front panel:

Before you start, remember...

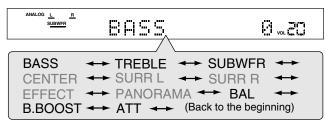
There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

1 Press ADJUST.

MULTI JOG now works for the sound adjustment.

2 Turn MULTI JOG until the setting item you want to set appears on the display, then press SET.

• As you turn MULTI JOG, the indication changes as follow:



3 Turn MULTI JOG to adjust the item selected in step **2**, then press SET.

Your setting is stored.



EX.: When selecting "+10 (dB)" for "BASS".

Adjusting the tone—BASS, TREBLE

You can adjust the bass and treble sounds to your preference. • You have to make these adjustments for each source.

BASS*:	To adjust the bass (from –10 dB to +10 dB).
TREBLE*:	To adjust the treble (from $-10 \text{ dB to } +10 \text{ dB}$).

* "0" is the initial setting.

When using the remote control:

- **1** Press TONE.
- 2 Press BASS ⊕/⊕ or TREBLE ⊕/● to adjust the sound level (from -10 dB to +10 dB).



Adjusting the subwoofer output level —SUBWFR

You can adjust the subwoofer output level if you have connected a subwoofer and set the subwoofer information correctly—"USE" for the Quick Setup or "YES" for the Manual Setup (see pages 16 and 17). • You have to make this adjustment for each source.

SUBWFR*: To adjust the subwoofer output level (from -10 dB to +10 dB).

* "0" is the initial setting.

When using the remote control:

Press SUBWFR +/- to adjust the subwoofer output level (from -10 dB to +10 dB).



Setting the subwoofer audio position

When a stereo source is played back, the subwoofer sound is reinforced compared to the sound from a multi-channel source. Once you have set the subwoofer audio position, the subwoofer output level is decreased by the selected value when a stereo source is played back. The A (audio).POSITION indicator lights up when this function is activated.

• You have to make this adjustment for each source.

From the remote control ONLY:

Press A.POSTION repeatedly to select the subwoofer audio position level from "-2 (dB)," "-4 (dB)," and "-6 (dB)."

The smaller the number becomes, the more the level decreases automatically when listening in stereo.

• If no adjustment is required, select "OFF" (initial setting).



NOTES

 The maximum subwoofer output level is –10 dB. Ex:

When setting the subwoofer output level to "-8 (dB)" and the subwoofer audio position to "-4 (dB)," the subwoofer output level when listening in stereo will be -10 dB.

This function does not take effect when activating a Surround mode.

Adjusting the front speakers output balance—BAL

If the sounds you hear from the front right and left speakers are unequal, you can adjust the speakers output balance.

- You have to make this adjustment for each source.
- You cannot use the remote control for this setting.

BAL*: To adjust the front speakers balance.
"CENTER" to "L-21": Decrease the left channel output.
"CENTER" to "R-21": Decrease the right channel

output.

* "CENTER" is the initial setting.

Reinforcing the bass—B.BOOST

You can boost the bass level—Bass Boost.

· You have to make these adjustments for each source.

ON:	Select to boost the bass level (Bass Boost). The BASS BOOST indicator lights up on the display.
OFF*:	Select to deactivate Bass Boost.

* Initial setting

NOTE

This function affects the sound coming out only through the front speakers.

When using the remote control:

Press BASS BOOST.

• Each time you press the button, Bass Boost turns on and off alternately.



Attenuating the input signal—ATT

When the input level of **analogue source** is too high, the sound will be distorted. If this happens, you need to attenuate the input signal level to prevent the sound distortion.

- You have to make this adjustment for each analogue source.
- You cannot use the remote control for this setting.

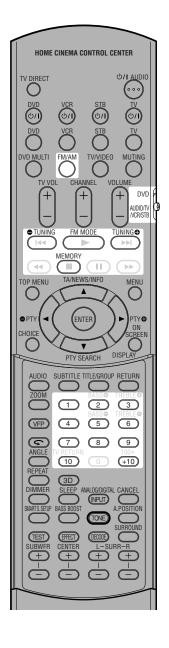
ON:	Select to attenuate the input signal level. The INPUT ATT indicator lights up on the display.
NORMAL*:	Select to deactivate attenuation.

* Initial setting

RX-ES1SL Tuner operations

The buttons on the remote control are mainly used for tuner operations. To use buttons on the remote control, press FM/AM before operation.

When operating this receiver using the remote control, always set the mode selector to AUDIO/TV/VCR/STB.



Tuning in to stations manually

From the remote control ONLY:

1 Press FM/AM to select the band.

The last received station of the selected band is tuned in. • Each time you press the button, the band alternates between FM and AM (MW).

_			
	ANALOG L R		UNED ST AUTO MUTING
	SUBWFR	FM	MHL ()

You can also select "FM" or "AM" by turning SOURCE SELECTOR on the front panel.

2 Press repeatedly or hold TUNING **(**) or TUNING **—** until you find the frequency you want.

If you select "FM" or "AM" using SOURCE SELECTOR on the front panel, press FM/AM on the remote control before this operation.

- Pressing (or holding) TUNING
 increases the frequency.
- Pressing (or holding) TUNING C decreases the frequency.

NOTES

- When you hold and release TUNING 🛟 or TUNING 🖨, the frequency keeps changing until a station is tuned in.
- · When a station of sufficient signal strength is tuned in, the TUNED indicator lights up on the display.
- · When an FM stereo program is received, the ST (Stereo) indicator also lights up.

Using preset tuning

Once a station is assigned to a channel number, the station can be quickly tuned. You can preset up to 30 FM and 15 AM (MW) stations.

To store the preset stations

Before you start, remember...

There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 2 again.

From the remote control ONLY:

1 Tune in to the station you want to preset (see "Tuning in to stations manually" above).

• If you want to store the FM reception mode for this station, select the FM reception mode you want. See "Selecting the FM reception mode" on page 24.



2 Press MEMORY.

The channel number position starts flashing on the display for about 5 seconds.

ANALOG L	IBWFR			8.	TUNED	ST	AUTO MUTING

3 Press the numeric buttons (1 – 10, +10) to select a channel number while the channel number position is flashing.

- For channel number 5, press 5.
- For channel number 15, press +10, then 5.
- For channel number 30, press +10, +10, then 10.

ANALOG L R		TUNED ST AUTO MUTING
SUBWFR	FM 😥	

4 Press MEMORY again while the selected channel number is flashing on the display.

The station is assigned to the selected channel number.

• The selected channel number stops flashing.



 5 Press repeatedly or hold TUNING ⊕ or TUNING ⊕ to select another frequency you want to store.

6 Repeat steps **1** to **5** until you store all the stations you want.

To erase a stored preset station

Storing a new station on a used channel number erases the previously stored one.

To tune in a preset station

From the remote control:

1 Press FM/AM to select the band.

The last received station of the selected band is tuned in and the numeric buttons now work for tuner operations.

• Each time you press the button, the band alternates between FM and AM (MW).

ANALOG	L SUBWFR	<u>R</u>	F	ŀ'l	8	7	TUNED	ST	AUTO MUTING	

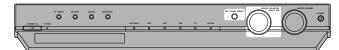
2 Press the numeric buttons (1 – 10, +10) to select a channel number.

If you select "FM" or "AM" using SOURCE SELECTOR on the front panel, press FM/AM on the remote control before this operation.

- For channel number 5, press 5.
- For channel number 15, press +10, then 5.
- For channel number 30, press +10, +10, then 10.

ANALOG L	JBWFR	<u>R</u>	 	M	6	8	ε	¦ "	TUNED	ST	AUTO MUTING	

On the front panel:



Before you start, remember...

There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step **2** again.

Turn SOURCE SELECTOR to select "FM" or "AM."

The last received station of the selected band is tuned in.

2 Press TUNER PRESET.

"P" appears on the display and MULTI JOG now works for selecting preset channels.

- **3** Turn MULTI JOG to select a preset channel number during "P" appears on the display.
 - Turning MULTI JOG clockwise increases the preset channel numbers.
 - Turning MULTI JOG counterclockwise decreases the preset channel numbers.



Selecting the FM reception mode

When an FM stereo broadcast is hard to receive or noisy, you can change the FM reception mode while receiving an FM broadcast.

• You can store the FM reception mode for each preset station (see page 23).

From the remote control ONLY:

While listening to an FM station, press FM MODE.

If you select "FM" using SOURCE SELECTOR on the front panel, press FM/AM on the remote control before this operation.

• Each time you press the button, the FM reception mode alternates between "AUTO MUTING" and "MONO."

AUTO MUTING*:	Normally select this. When a program is broadcast in stereo, you will hear stereo sound; when in monaural, you will hear monaural sound. This mode is also useful to suppress static noise between stations. The AUTO MUTING indicator lights up on the display.			
MONO:	Select this to improve the reception (but stereo effect will be lost). In this mode, you will hear noise while tuning in to the stations. The AUTO MUTING indicator goes off from the display. (The ST indicator also goes off.)			

* Initial setting

operations. When operating this receiver using the remote control, always set the mode selector to AUDIO/TV/VCR/STB.

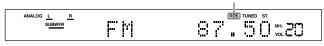
Only the buttons on the remote control are used for RDS

Using the RDS (Radio Data System) to receive FM stations

RDS allows FM stations to send an additional signal along with their regular program signals. For example, the stations send their station names, as well as information about what type of program they broadcast, such as sports or music, etc.

When tuned to an FM station which provides the RDS service, the RDS indicator lights up on the display.

RDS indicator



With the receiver, you can receive the following types of RDS signals:

PS (Program Service):	Shows commonly known station names.
PTY (Program Type):	Shows types of broadcast programs.
RT (Radio Text):	Shows text messages the station sends.
Enhanced Other Networks:	See page 27.

NOTES

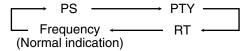
- RDS is not available for AM (MW) broadcasts.
- RDS may not operate correctly if the station tuned is not transmitting RDS signal properly or if the signal strength is weak.

What information can RDS signals provide?

You can see the RDS signals the station sends on the display.

Press DISPLAY while listening to an FM station.

• Each time you press the button, the display changes to show you the following information:



PS (Program Service):

While searching, "PS" appears and then the station names will be displayed. "NO PS" appears if no signal is sent.

PTY (Program Type):

While searching, "PTY" appears and then the type of the broadcast program will be displayed. "NO PTY" appears if no signal is sent.

RT (Radio Text):

While searching, "RT" appears and then text messages the station sends will be displayed. "NO RT" appears if no signal is sent.

Frequency:

Station frequency (non-RDS service).

About characters shown on the display

When the display shows PS, PTY, or RT signals, the following characters are used:

 The display cannot show accented letters, "A" for instance, may stand for accented "A's" like "Å, Ä, Ä, Å, Å, Å, å, ä, ä, ä, á, à, and â."

NOTE

If searching finishes at once, "PS," "PTY," and "RT" will not appear on the display.

Searching for a program by PTY codes

One of the advantages of the RDS service is that you can locate a particular kind of program from the preset channels (see pages 23 and 24) by specifying the PTY codes.

To search for a program using the PTY codes

Before you start, remember...

- The PTY Search is only applicable to preset stations.
- To stop searching any time during the process, press PTY SEARCH while searching.
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step **1** again.
- **1** Press PTY SEARCH while listening to an FM station.

"PTY SELECT" flashes on the display.

- 2 Press PTY ⊕ or PTY ⊕ until the PTY code you want appears on the display while "PTY SELECT" is flashing.
 - For details, see "Description of the PTY codes."

3 Press PTY SEARCH again, while the PTY code selected in the previous step is still on the display.

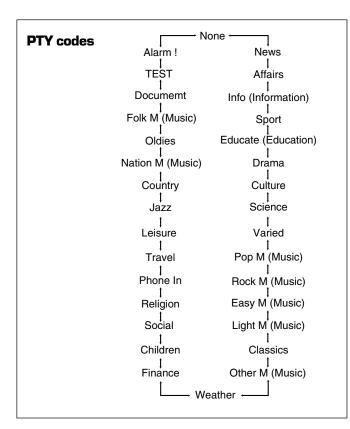
While searching, "SEARCH" and the selected PTY code alternate on the display.

The receiver searches 30 preset FM stations, stops when it finds the one you have selected, and tunes in that station.

To continue searching after the first stop

Press PTY SEARCH again while the indications on the display are flashing.

• If no program is found, "NOT FOUND" appears on the display.



Description of the PTY codes:

News:	News.					
Affairs:	Topical program expanding or enlarging upon the news—debate or analysis.					
Info:	Programs the purpose of which is to impart advice in the widest sense.					
Sport:	Programs concerned with any aspect of sports.					
Educate:	Educational programs.					
Drama:	All radio plays and serials.					
Culture:	Programs concerning any aspect of national or regional culture, including language, theater, etc.					
Science:	Programs about natural sciences and technology.					
Varied:	Used for mainly speech-based programs such as quizzes, panel games and personality interviews.					
Pop M:	Commercial music of current popular appeal.					
Rock M:	Rock music.					
Easy M:	Current contemporary music considered to be "easy- listening."					
Light M:	Instrumental music, and vocal or choral works.					
Classics:	Performances of major orchestral works, symphonies, chamber music, etc.					
Other M:	Music not fitting into any of the other categories.					
Weather:	Weather reports and forecasts.					
Finance:	Stock Market reports, commerce, trading, etc.					
Children:	Programs targeted at a young audience.					
Social:	Programs about sociology, history, geography, psychology and society.					
Religion:	Religious programs.					
Phone In:	Involving members of the public expressing their views either by phone or at a public forum.					
Travel:	Travel information.					
Leisure:	Programs about recreational activities.					
Jazz:	Jazz music.					
Country:	Songs which originate from, or continue the musical tradition of the American Southern States.					
Nation M:	Current popular music of the nation or region in that country's language.					
Oldies:	Music from the so-called "golden age" of popular music.					
Folk M:	Music which has its roots in the musical culture of a particular nation.					
Document:	Programs concerning factual matters, presented in an investigative style.					
TEST:	Broadcasts for testing emergency broadcast equipment or unit.					
Alarm !:	Emergency announcement.					

Classification of the PTY codes for some FM stations may be different from the above list.

Switching to broadcast program of your choice temporarily

Another convenient RDS service is called "Enhanced Other Networks."

This allows the receiver to switch temporarily to a broadcast program of your choice (TA, NEWS, and/or INFO) from a different station except in the following cases:

- When you are listening to non-RDS Networks—all AM (MW) stations, some FM stations and other sources.
- When the receiver is in standby mode or in TV Direct mode.

Before you start, remember...

widest sense.

The Enhanced Other Networks function is only applicable to preset FM stations.

Press TA/NEWS/INFO repeatedly until the program type you want appears on the display.

• Each time you press the button, the display changes to show the following:

$$\rightarrow TA \rightarrow NEWS \rightarrow INFO \rightarrow TA/NEWS \rightarrow TA/INFO$$

TA:	Traffic Announcement in your area.
NEWS:	News.
INFO:	Program the purpose of which is to impart advice in the

How the Enhanced Other Networks function actually works:

If the station currently tuned in starts broadcasting the program type you have selected

The receiver continues to receive the station, but the indicator of the received PTY code starts flashing.

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When the program is over, the indicator of the received PTY code stops flashing and remains lit, but the receiver remains in Enhanced Other Networks standby mode.

If another FM station in the same Networks starts broadcasting the program type you have selected while you are listening to an FM station

The receiver automatically switches to the station. The indicator of the received PTY code starts flashing.

Û

When the program is over, the receiver goes back to the station previously tuned in, but still remains in Enhanced Other Networks standby mode. The indicator of the received PTY code stops flashing and remains lit.

To stop listening to the program selected by Enhanced Other Networks

Press TA/NEWS/INFO repeatedly again so that the program type (TA/ NEWS/INFO) indicator goes off from the display. The receiver exits from Enhanced Other Networks standby mode and goes back to the previously selected station.

When an emergency broadcast (Alarm ! signal) is sent from an FM station

The receiver automatically tunes in the station except in the following cases:

- When you are listening to non-RDS Networks—all AM (MW) stations, some FM stations and other sources.
- When the receiver is in standby mode or TV Direct mode.

While receiving an emergency broadcast, "Alarm !" appears on the display.

The TEST signal is used for equipment test—whether it can receive the Alarm ! signal correctly

The TEST signal makes the receiver work in the same way as the Alarm ! signal does. If the TEST signal is received, the receiver automatically switches to the station broadcasting the TEST signal. While receiving the TEST signal, "TEST" appears on the display.

NOTES

- Enhanced Other Networks data sent from some stations may not be compatible with this receiver.
- Enhanced Other Networks does not function for some FM stations with RDS service.
- While listening to a program tuned in by the Enhanced Other Networks function, the station does not change even if another network station starts broadcasting a program of the same Enhanced Other Networks data.
- While listening to a program tuned in by the Enhanced Other Networks function, you can only use the TA/NEWS/INFO and DISPLAY.
- The Enhanced Other Networks mode only works when receiving an FM station with the Enhanced Other Networks code.

CAUTION:

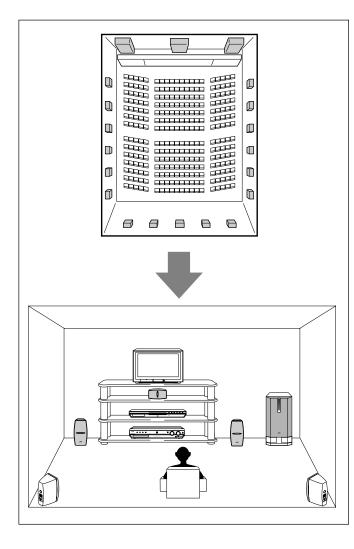
If the stations alternate intermittently between the station tuned by the Enhanced Other Networks function and the currently tuned station, press TA/NEWS/INFO repeatedly to cancel the Enhanced Other Networks function. If you do not press the button, the currently tuned station is received finally, and the indication of the Enhanced Other Networks data type flashing on the display disappears.

Reproducing theater ambience

In a movie theater, many speakers are located on the walls to reproduce impressive multi-surround sound, reaching you from all directions.

With these many speakers, sound localization and sound movement can be expressed.

Surround/DSP modes built in this receiver can create almost the same surround sound as you can feel in a real movie theater.



Introducing the Surround/DSP modes

You can use the following Surround/DSP modes with this receiver.

- Surround modes
 - Dolby Pro Logic II
 - Dolby Digital
- DTS
 DSP (Digital Signal Processor) modes
 - DAP (Digital Acoustic Processor) modes
 - All Channel Stereo

Surround modes

Dolby Pro Logic II*

Dolby Pro Logic II has a newly developed multi-channel playback format to decode all 2 channel sources—stereo source and Dolby Surround encoded source—into 5.1 channel.

Matrix-based encoding/decoding method for Dolby Pro Logic II makes no limitation for the cutoff frequency of the surround treble and enables stereo surround sound compared to conventional Dolby Pro Logic.

Dolby Pro Logic II enables you to reproduce spacious sound from original sound without adding any new sounds and tonal colorations. Dolby Pro Logic II has two modes—**Movie mode** and **Music mode**:

Pro Logic II Movie—suitable for reproduction of Dolby Surround encoded sources bearing the mark DCDOLBY SURROUND. You can enjoy a sound field very close to the one created with discrete 5.1 channel sounds.

Pro Logic II Music—suitable for reproduction of any 2-channel stereo music sources. You can enjoy wide and deep sound by using this mode. For this mode, Panorama control can be selected, which gives "wraparound" sound effect with side-wall image.

 When Dolby Pro Logic II is activated, the DD PL II indicator lights up on the display.

Dolby Digital*

Dolby Digital is a digital signal compression method, developed by Dolby Laboratories, and enables multi-channel encoding and decoding (1 channel up to 5.1 channel).

Dolby Digital 5.1 channel encoding method records and digitally compresses the left front channel, right front channel, center channel, left surround channel, right surround channel, and LFE channel signals (total 6 channels, but the LFE channel is counted as 0.1 channel. Therefore, it is called 5.1 channel).

Dolby Digital enables stereo surround sounds, and sets the cutoff frequency of the surround treble at 20 kHz, compared to 7 kHz for Dolby Pro Logic. As such, the sound movement and "being-there" feeling are enhanced much more than Dolby Pro Logic.

• To enjoy software encoded with Dolby Digital, connect the source component using the digital terminal on the rear of this receiver. (See page 8.)

NOTE

Dolby Digital software can be roughly grouped into two categories —multi-channel (up to 5.1 channel) and 2 channel software. To enjoy surround sound while playing Dolby Digital 2 channel software, you can use Dolby Pro Logic II.

- Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories.
- **"DTS" and "DTS Digital Surround" are registered trademarks of Digital Theater Systems, Inc.

DTS**

DTS is another digital signal compression method, developed by Digital Theater Systems, Inc., and enables multi-channel encoding and decoding.

DTS Digital Surround is another discrete 5.1 channel digital audio format available on CD, LD, and DVD software.

Compared to Dolby Digital, the DTS Digital Surround format has a lower audio compression rate, which enables it to add breadth and depth to the sounds reproduced. As such, DTS Digital Surround features natural, solid and clear sound.

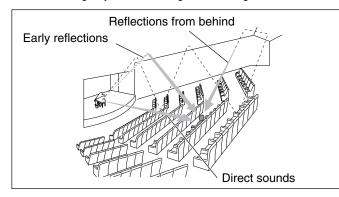
 To enjoy the software encoded with DTS Digital Surround, connect the source component using the digital terminal on the rear of this receiver. (See page 8.)

■ DSP (Digital Signal Processor) modes

DAP (Digital Acoustic Processor) modes

DAP modes have been designed to create important acoustic surround elements.

The sound heard in a live club, dance club, hall or pavilion consists of direct sound and indirect sound—early reflections and reflections from behind. Direct sounds reach the listener directly without any reflection. On the other hand, indirect sounds are delayed by the distances of the ceiling and walls (see the diagram below). These indirect sounds are important elements of the acoustic surround effects. The DAP mode can create these important elements, and give you a real "being there" feeling.



DAP modes can be used when the front and surround speakers are connected to this receiver (without respect to the center speaker connection: no sound comes out of the center speaker even if it is connected). The following DAP modes are provided with this receiver:

LIVE CLUB:	Reproduces the spatial feeling of a live music club with a low ceiling.
DANCE CLUB:	Reproduces the spatial feeling of a rocking dance club.
HALL:	Reproduces the spatial feeling of a hall for classical recitals.
PAVILION:	Reproduces the spatial feeling of an exhibition hall.

These DAP modes can be used to add acoustic surround effects while reproducing 2 channel stereo software, either analogue or Linear PCM digital signal, and can give you a real "being there" feeling.

• When one of the DAP modes is selected, the DSP indicator lights up on the display.

All Channel Stereo

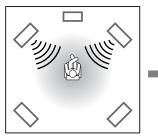
This mode can reproduce a larger stereo sound field using all the connected (and activated) speakers.

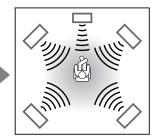
All Channel Stereo can be used when the front and surround speakers are connected to this receiver without respect to the center speaker connection.

• If the center speaker is connected and activated, the same phase of the front left and right signals are mixed and output through the center speaker.

All Channel Stereo can be used while reproducing 2 channel stereo software, either analogue or Linear PCM digital signal.

• When All Channel Stereo is selected, the DSP indicator lights up on the display.





Normal stereo reproduction

Sound reproduced from All Channel Stereo

NOTE

MPEG Multichannel signals cannot be reproduced.

Available Surround/DSP modes for each input signal

○: Possible ×: Impossible

Mode Signals	STEREO	DOLBY DIGITAL	DTS SURROUND		PRO LOGIC II MUSIC	LIVE CLUB	DANCE CLUB	HALL	PAVILION	ALL CH ST.
Dolby Digital (Multi-channel)	0	0	×	×	×	×	×	×	×	×
Dolby Digital (2-channel)	0	×	×	0	0	×	×	×	×	×
DTS Digital Surround (Multi-channel)	0	×	0	×	×	×	×	×	×	×
DTS Digital Surround (2-channel)	0	×	×	0	0	×	Х	×	×	×
Linear PCM	0	×	×	0	0	0	0	0	0	0
Analogue	0	×	×	0	0	0	0	0	0	0
DVD MULTI	×	×	×	×	×	×	×	×	×	×

About relations between speaker layout and Surround/DSP modes

Available Surround/DSP modes will vary depending on how many speakers are used with this receiver.

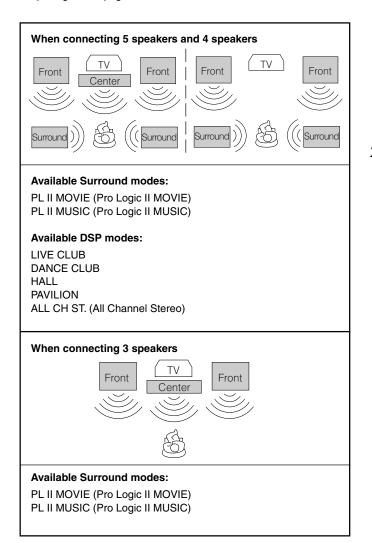
Make sure that you have set the speakers information correctly (see pages 15 to 18).

- · If only front speakers are connected, you cannot use the Surround modes.
- If surround speakers are not connected, you cannot use DSP modes.

When multi-channel digital software such as Dolby Digital or DTS Digital Surround is played back, the appropriate multichannel Surround mode is automatically activated ("DOLBY D" or "DTS") by

pressing SURROUND (with the digital input mode selected). For Dolby Digital 2 channel software, you can select "PLII MUSIC" or "PLII MOVIE" by pressing SURROUND.

· For more details, see "Available Surround/DSP modes for each input signal" on page 29.



NOTE

When "AUTO SR (Auto Surround)" is turned "ON" (see page 20), Surround mode is automatically activated when you select and start playing back a multi-channel digital source.

Using Surround modes

Once you have adjusted the Surround modes, the adjustment is memorized for each source.

 If you set the speaker information using Smart Surround Setup (see page 15), you do not have to adjust speaker output level.

When operating this receiver using the remote control, always set the mode selector to AUDIO/TV/VCR/STB. AUDIO/TV

Before you start, remember...

Make sure that you have set the speaker information correctly (see pages 15 to 18).

From the remote control:



It will be convenient for you to use the remote control for the sound adjustments, since you can make adjustments from your listening point, and use the test signal.

DVD

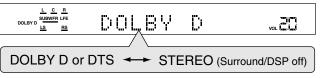
• For selecting Panorama control for Pro Logic II Music, use the buttons on the front panel.

1 Select and play software you like.

2 Press SURROUND to select an appropriate Surround mode.

· Each time you press the button, the Surround/DSP modes change as follow:

When playing back multi-channel digital software such as **Dolby Digital or DTS Digital Surround:**



When playing back 2 channel digital software such as **Dolby Digital or DTS Digital Surround:**



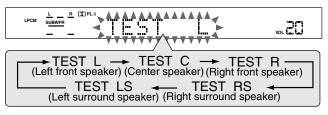
When playing back any software other than above:



If "AUTO SR (Auto Surround)" is set to "ON" Playing a digital source automatically activates an appropriate Surround mode. (See page 20.) \rightarrow Go to step 3.

3 Press TEST to check the speakers output balance.

"TEST L" starts flashing on the display, and a test tone comes out of the speakers as follow:



4 Adjust the following speaker output levels (from –10 dB to +10 dB).

• Make adjustments so that the sound level of the selected speaker is set at the same level as that of the front speakers.

To adjust the center speaker level,

- press CENTER +/-.
- To adjust the left surround speaker level, press SURR L +/-.
- To adjust the right surround speaker level,

press SURR R +/-.



Ex.: When selecting "+8 (dB)" for "CENTER."

5 Press TEST again to stop the test tone.

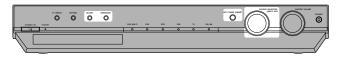
The currently selected source name appears on the display.

On the front panel:

• No test tone is available when using the buttons on the front panel.

Before you start, remember...

There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step ${\bf 2}$ again.



1 Select and play software you like.

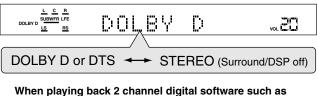
2 Press SURROUND.

MULTI JOG now works for the Surround/DSP mode selection.

3 Turn MULTI JOG to select a appropriate surround mode.

• As you turn MULTI JOG, the indication changes as follow:

When playing back multi-channel digital software such as Dolby Digital or DTS Digital Surround:



When playing back 2 channel digital software such as Dolby Digital or DTS Digital Surround:

PL II MUSIC PL II MOVIE -STEREO (Surround/DSP off) 🗲

When playing back any software other than above: \bigwedge

		/ \			
PL II MOVIE -	→	PL II MUSIC	→		
LIVE CLUB -	→	DANCE CLUB	\rightarrow		
HALL -	-	PAVILION	\rightarrow		
ALL CH ST	-	STEREO (Surrou	und/DSP off) 🔶		
(Back to the beginning)					

If "AUTO SR (Auto Surround)" is set to "ON" Playing a digital source automatically activates an appropriate Surround mode. (See page 20.) \rightarrow Go to step 3.

4 Press ADJUST.

MULTI JOG now works for the sound adjustment.

5 Turn MULTI JOG until the setting item you want to set appears on the display, then press SET.

· As you turn MULTI JOG, the indication changes as follow:

	CENTER	VOL
CENTER -	TREBLE ↔ SU SURR L ↔ SU PANORAMA* ↔ ATT ↔ (Back to	RR R ↔ BAL ↔

* Available only for "PL II MUSIC."

CENTER*1:	To adjust the center speaker output level (from -10 dB to $+10 \text{ dB}$).
SURR L*1:	To adjust the left surround speaker output level (from -10 dB to $+10 \text{ dB}$).
SURR R*1:	To adjust the right surround speaker output level (from –10 dB to +10 dB).

PANORAMA control*2:

- Select "ON" when you would like to enjoy "wraparound" sound effect with side-wall image.
- · Select "OFF" when you would like to hear
- originally recorded sound.

*1 "0" is the initial setting for each speaker setting.

*2 "OFF" is the initial setting.

6 Turn MULTI JOG to adjust the item selected in step 2, then press SET.

Your setting is stored.

· When adjusting the speaker output levels, make adjustments so that the sound level of the selected speaker is set at the same level as that of the front speakers.

	LPCM	L <u>R</u> DOPLII S <u>UBWFR</u>	CENTER	
--	------	-------------------------------------	--------	--

Ex.: When selecting "+8 (dB)" for "CENTER."

7 Repeat steps **5** and **6** to adjust the other settings.

To cancel Surround mode

Press SURROUND repeatedly on the remote control or press SURROUND then turn MULTI JOG on the front panel so that "STEREO" appears on the display.

• If Surround mode is canceled while playing back multi-channel digital software, all channel signals are mixed and output through the front speakers (and subwoofer if you have connected a subwoofer and set the subwoofer setting correctly-"USE" for Quick Setup or "YES" for Manual Setup-see pages 16 and 17).

NOTES

- You can adjust the speaker output levels using the remote control without outputting the test tone.
- You cannot adjust the center speaker output level and no test tone comes out of the center speaker when "CNTR SP" is set to "NO."
- You cannot adjust the surround speaker output levels and no test tone comes out of the surround speakers when "SURR SP" is set to "NO.'
- Remember not to change the speaker setting while using any Surround modes; otherwise, the Surround mode may be canceled when you deactivate the speakers required for it .
- You cannot use any Surround modes when selecting DVD MULTI as a playback source.

Using DSP modes

Once you have adjusted the DSP modes, the adjustment is memorized for each source.

- You cannot use the DSP modes if no surround speakers are connected.
- You cannot adjust the effect level for "ALL CH ST."

When operating this receiver using the remote control, always set the mode selector to AUDIO/TV/VCR/STB. AUDIO/T

Before you start, remember...

Make sure that you have set the speaker information correctly (see pages 15 to 18).

From the remote control:



It will be convenient for you to use the remote control for the sound adjustments, since you can make adjustments from your listening point, and use the test signal.

DVD

- **1** Start playing 2 channel software—either Linear PCM or analogue signal—and select the source.
- **2** Press SURROUND repeatedly until one of the DSP modes you want to apply appears on the display.

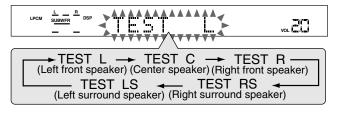
The DSP indicator lights up on the display.

• Each time you press the button, the DSP modes change as follow:



3 Press TEST to check the speakers output balance.

"TEST L" starts flashing on the display, and a test tone comes out of the speakers as follow:



4 Adjust the surround speaker output levels (from –10 dB to +10 dB).

• Make adjustments so that the sound level of the selected speaker is set at the same level as that of the front speakers.

To adjust the left surround speaker level,

press SURR L +/-.

To adjust the right surround speaker level,

press SURR R +/-.

LPCM	SURR	R	

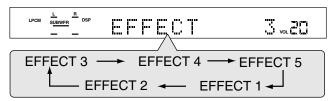
Ex.: When selecting "-8 (dB)" for "SURR R."

5 Press TEST again to stop the test tone.

6 Only for DAP modes:

Press EFFECT to select the DAP effect level (1 to 5) you want.

 As the number increases, the DAP effect becomes stronger (normally set it to "EFFECT 3").



On the front panel:

• No test tone is available when using the buttons on the front panel.



Before you start, remember...

There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 2 again.

1 Start playing 2 channel software—either Linear PCM or analogue signal—and select the source.

2 Press SURROUND.

MULTI JOG now works for the Surround/DSP mode selection.

3 Turn MULTI JOG until one of the DSP modes you want to apply appears on the display.

The DSP indicator lights up on the display.

• As you turn MULTI JOG, the indication changes as follow:

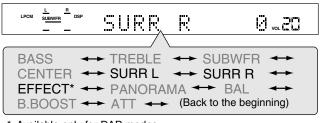


4 Press ADJUST.

MULTI JOG now works for the sound adjustment.

5 Turn MULTI JOG until the setting item you want to set appears on the display, then press SET.

• As you turn MULTI JOG, the indication changes as follow:



Available only for DAP modes.

SURR L*1: To adjust the left surround speaker output le (from -10 dB to +10 dB).			
SURR R*1:	To adjust the right surround speaker output level (from –10 dB to +10 dB).		
EFFECT (ava	ailable only for DAP modes) *2: To adjust the DAP effect level.		

As the number increases, the effect becomes stronger (normally set it to "EFFECT 3").

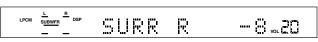
*1 "0 (dB)" is the initial setting for each speaker setting.

*2 "3" is the initial setting.

6 Turn MULTI JOG to adjust the item selected in step **5**, then press SET.

Your setting is stored.

• When adjusting the speaker output levels, make adjustments so that the sound level of the selected speaker is set at the same level as that of the front speakers.



Ex.: When selecting "-8 (dB)" for "SURR R."

7 Repeat steps 5 and 6 to adjust the other settings.

To cancel DSP Modes

Press SURROUND repeatedly on the remote control or press SURROUND then turn MULTI JOG on the front panel so that "STEREO" appears on the display. The DSP indicator goes off from the display.

NOTES

- You can adjust the speaker output levels using the remote control without outputting the test tone.
- You cannot adjust the center speaker output level and no test tone comes out of the center speaker when "CNTR SP" is set to "NO."
- You cannot adjust the surround speaker output levels and no test tone comes out of the surround speakers when "SURR SP" is set to "NO."

RX-ES1SL Using the DVD MULTI playback mode

This receiver provides the DVD MULTI playback mode for reproducing the analogue discrete output mode (5.1 channel reproduction) of the DVD player.

In addition, the DVD MULTI playback mode can be used for reproducing a DVD Audio sound.

Before playing back a DVD, refer also to the manual supplied with the DVD player.

- When using the DVD MULTI playback mode, connect the DVD player with its analogue discrete output jacks to the DVD IN jacks on the rear panel (see page 10).
- DVD MULTI playback mode cannot be used for XV-N55SL.

When operating this receiver using the remote	DVD 6
control, always set the mode selector to	
AUDIO/TV/VCR/STB.	/VCR/SIB

Activating the DVD MULTI playback mode

On the front panel:



1 Turn SOURCE SELECTOR until "DVD MULTI" appears on the display.

The DVD MULTI indicator lights in red.

2 Select the analogue discrete output mode on the DVD player, and start playing a DVD.

From the remote control:

1 Press DVD MULTI.

The DVD MULTI indicator lights in red.

2 Select the analogue discrete output mode on the DVD player, and start playing a DVD.

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ŏ	ŎŎ	Ŏ
TV VOL	CHANNEL V	
-]		

1 BASSO INTERLET BASSO TREBLET 4 5 6

ANGLE TV RETURN 100+ CONTRELET V RETURN 100+ 100 CONTRELET ANUCODISTIL CANCEL

Adjusting the speaker output level

You can adjust the speaker output level while playing a DVD using the analogue discrete output mode on the DVD player.

Once you have adjusted the sound, the adjustment is memorized.
The test tone does not output through the speakers to adjust the speakers output levels when selecting DVD MULTI.

From the remote control:

It will be convenient for you to use the remote control for the sound adjustments, since you can make adjustments from your listening point.

Adjust the following speaker output levels (from –10 dB to +10 dB).

 Make adjustments so that the sound level of the selected speaker is set at the same level as that of the front speakers.

To adjust the center speaker level,

- press CENTER +/-.
- To adjust the left surround speaker level, press SURR L +/-.
- To adjust the right surround speaker level, press SURR R +/-.

On the front panel:



Before you start, remember...

There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step **1** again.

1 Press ADJUST.

MULTI JOG now works for the sound adjustment.

2 Turn MULTI JOG until the setting item you want to set appears on the display, then press SET.

• As you turn MULTI JOG, the indication changes as follow:

ANALOG <u>L C R</u> S <u>UBWFR</u> LFE LS RS	CENTER	
CENTER EFFECT	← TREBLE ← SI ← SURR L ← SI ← PANORAMA ← ← ATT ← (Back to	JRR R ↔ BAL ↔
CENTER*:	To adjust the center speake (from -10 dB to +10 dB).	er output level
SURR L*:	To adjust the left surround s (from –10 dB to +10 dB).	speaker output level
SURR R*:	To adjust the right surround (from –10 dB to +10 dB).	speaker output level
* "0 (ID)" : II		

* "0 (dB)" is the initial setting.

3 Turn MULTI JOG to adjust the item selected in step **2**, then press SET.

Your setting is stored.

• Make adjustments so that the sound level of the selected speaker is set at the same level as that of the front speakers.

ANALOG	L SUBW LS	C R FR LFE RS	CENTER	

Ex.: When selecting "+8 (dB)" for "CENTER."

4 Repeat steps **2** and **3** to adjust the other settings.



- When you select DVD MULTI as a source to play, the selected Surround/DSP mode is canceled, and the SURROUND button does not work.
- When using a pair of headphones, the sounds of front left and right channels are output from the headphones.
- The DVD MULTI button does not work for TV Direct.

About this manual

- The display window information and OSD (On Screen Display) menu items are put in brackets [] in the operation procedures.
- Usable disc(s) for each operation/function is (are) referred to by the icons;



About discs

Playable disc types

Discs with the following marks can be played back on the player.



The DVD Logo is a trademark.

The player can also play back the following discs:

- DVD-R, DVD-RW and +RW discs written in the DVD VIDEO format and finalized
- CD-R and CD-RW discs written in the SVCD, Video CD or Audio CD format and finalized
- CD-R and CD-RW discs written in MP3 or WMA in accordance with the "ISO 9660" format (See page 49 for details.)
- CD-R and CD-RW discs written in JPEG in accordance with the "ISO 9660" format (See page 51 for details.)

NOTE

If a disc gets dirty, scratched or warped, or due to the disc characteristics or recording conditions, it may take considerable time for the player to read the content, or the player may not be able to play back such discs.

The player can play back audio signals recorded in MIX-MODE CD, CD-G, CD-EXTRA and CD TEXT.

Region code of DVD VIDEO

This player can play back DVD VIDEO discs whose region code numbers include "2."

Examples of playable DVD VIDEO discs:



NOTE

The player's region code is printed on the rear of the player.

Color system format

This player accommodates the PAL system, and also can play back discs recorded with NTSC system whose Region Code numbers include "2."

Note that the NTSC video signal on a disc is converted to a PAL signal and output.

Unplayable discs

The player does not play back discs listed below. If you try to play back these discs, noise may generate causing damage to speakers.

- DVD-RW discs written in the VR format
- DVD-ROM, DVD-RAM, DVD AUDIO, CD-ROM, PHOTO CD, SACD

In addition, the player does not play:

- Unfinalized discs
- Discs of irregular shape or discs with tape, seals or paste on either the label side or playback side. Playing back these discs may damage the player.

Digital audio formats

The player supports the following digital audio formats (see page 61 "Appendix D: Glossary" for descriptions of each audio format):

Linear PCM, MPEG Multichannel, Dolby Digital, DTS (Digital Theater Systems)

NOTE

Depending on the player's [DIGITAL AUDIO OUTPUT] setting, digital audio signals may not be output as they are recorded on the disc. See "DIGITAL AUDIO OUTPUT" on page 56 for details.

Notes on discs

- With some DVD VIDEO discs, the player starts playback automatically after inserting the disc.
- The image may be sometimes poor or noisy due to defects in the disc itself.
- With some discs, operations described in this manual may not be possible.

Care and handling of discs

If a disc gets dirty, dusty, scratched or warped, playback sound and picture may be deteriorated. Take proper precautions when handling discs.

Handling

- Do not touch the surface of the disc.
- Do not damage, stick paper to, or use any adhesive on either the label side or playback side.

Storing discs

- Keep discs in their cases. If discs are piled on top of one another without their protective cases, they can be damaged.
- Do not put discs in a location where they may be exposed to direct sunlight, or where the humidity or temperature is high. Avoid leaving discs in a car!

Cleaning discs

• Wipe with a soft dry cloth, moving from the center outwards. If a disc is difficult to clean, wipe with a cloth moistened with water.



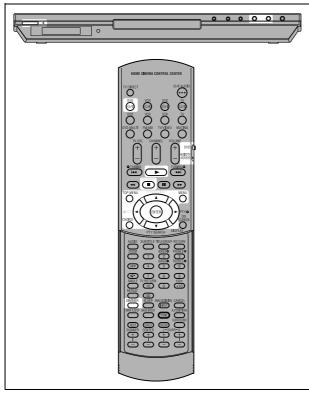
Never use record cleaners, petrol, alcohol or any anti-static agents.

Notes on copyright

Check the copyright laws in your country before recording from DVD VIDEO, SVCD, Video CD, Audio CD, MP3, WMA and JPEG discs. Recording of copyrighted material may infringe copyright laws.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

XV-N55SL Basic operations



NOTE

DVD AUDIO/TV /VCR/STB

When operating the player using the remote control, always set the mode selector to "DVD".

About invalid operation icon

When you press a button, and if the player does not accept its operation, \bigotimes appears on your TV screen. Operations are occasionally unacceptable even if \bigotimes is not displayed. Note that some operations may not be accepted. For example, some discs may not allow rapid advance/reverse or slow-motion playback.

Turning on/off the player

Press DVD \bigcirc /| on the remote control or press \bigcirc /| on the front panel.

The STANDBY/ON indicator on the front panel, which lights in red during standby, lights in green.

The left and right sides of the display window are illuminated.

The opening display appears on the TV screen, and the following messages may appear at the bottom of the opening display.



Message area

- NOW READING (The player is reading the disc information.)
 REGION CODE ERROR! (The region code of the DVD VIDEO disc does not match the player. The disc cannot be played back.)
- OPEN
- CLOSE
- NO DISC

NOTE

Even if you turn off the player, the player is not disconnected from the AC power source as long as it is connected to the wall outlet. This state is called standby mode. In this state, the player consumes a very small amount of power.

Initial setup

When you turn on the player for the first time after purchase, the following message appears on the TV screen.

EXECUTE DVD PLAYER SETUP? - BASIC PICTURE/AUDIO SETTING YES - PRESS ENTER NO - CANCEL

You can set the display language, TV monitor type and digital output before using the player, by following the procedure below.

1 Press ENTER.

The first page of the DVD PLAYER SET UP display appears. The pull-down menu of the [ON SCREEN LANGUAGE] is already open.



ON SCREEN LANGUAGE options

2 Press $\blacktriangle/\blacksquare$ to select the desired language.

You can select the on-screen language for the preference displays, etc. from among ENGLISH, FRENCH and GERMAN.

3 Press ENTER.

The second page is shown, in which the pull-down menu of the [MONITOR TYPE] is already open.



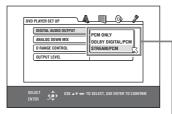
MONITOR TYPE options

4 Press $\blacktriangle/\blacksquare$ to select the desired monitor type.

For a normal (conventional) TV, select [4:3 LB] or [4:3 PS]. For a wide-screen TV, select [16:9 NORMAL] or [16:9 AUTO]. (See page 55.)

5 Press ENTER.

The third page is shown, in which the pull-down menu of the [DIGITAL AUDIO OUTPUT] is already open.



DIGITAL AUDIO OUTPUT options

6 Press ▲/▼ to select a desired digital output signal type.

Set this item correctly when you connect the player to an external surround decoder or D/A converter. (If you do not connect the player to such a device, you do not have to set this item.)

- When connecting to a Dolby Digital decoder, select [DOLBY DIGITAL/PCM].
- \bullet When connecting to a DTS decoder, select [STREAM/ PCM].
- When connecting to other digital device, select [PCM ONLY].

7 Press ENTER.

The TV screen returns to the opening display.

To bring up the DVD PLAYER SET UP display later

Press CHOICE for a few seconds until the DVD PLAYER SET UP display appears.

To change the brightness of the display window

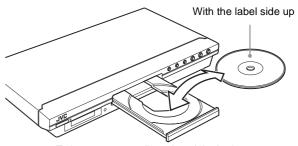
Press DIMMER on the remote control.

You can select the display window brightness from three levels, or off. If the brightness is set to off, nothing will be shown on the display.

Basic playback



- **1** Press \triangleq to open the disc tray.
- **2** Place a disc in the disc tray.



• To insert an 8-cm disc, place it in the inner recess.

3 Press ►.

The player starts playback from the beginning.

If a menu is shown on the TV screen

When inserting a DVD VIDEO, SVCD or Video CD disc, a menu may be shown on the TV screen. From the menu, you can select a desired item to be played back.

For DVD VIDEO

1 Press A/V/A to select a desired item.

2 Press ENTER.

The player starts playback of the selected item.

For SVCD/Video CD

Press the numeric buttons to select a desired item. The player starts playback of the selected item.

NOTES

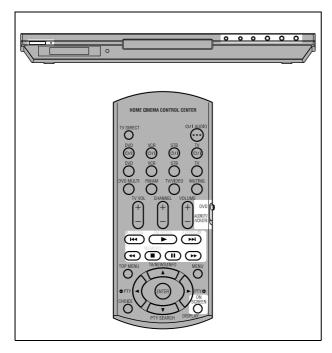
- Do not insert an unplayable disc. (See page 35.)
- When inserting a disc on the disc tray, be sure to position the disc inside the recess. Otherwise, the disc may be damaged when the disc tray is closed, or you may not be able to remove the disc from the player.

About PBC (Playback Control)

Some SVCD/Video CD discs support the PBC function. The PBC function allows you to enjoy menu-driven operation and high-resolution still images which have a resolution four times greater than moving pictures.

- To play a PBC-compatible SVCD/Video CD disc without activating the PBC function, press the numeric buttons instead of ► to start playback.
- To activate the PBC function again, 1) press TOP MENU or MENU, or

2) press ■ to stop playback, then press ►.

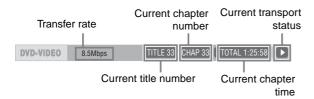


To check the playback status

You can see the current selection number (the title/chapter number for DVD VIDEO or track number for SVCD/Video CD/ Audio CD), time information (the track or chapter time while stopped, or elapsed track or chapter time during playback) and the transport status (stop, playback, pause, etc.) on the TV screen.

Press ON SCREEN.

Example: for DVD VIDEO



Note that pressing ON SCREEN again brings up the menu bar under the status bar, from which you can access various functions. See page 47 for details about the menu bar.

To turn off the status bar

Press ON SCREEN repeatedly until the status bar goes off.

To stop playback completely

Press ∎.

Hint

If you press \triangleq during playback, the player stops playback and opens the disc tray.

To stop playback temporarily

Press II.

To resume playback, press ►. (See the following item.)

About On-screen guide icons

You may see the following icons displayed over the picture. They have the following meanings.

- Appears at the beginning of a scene recorded from multiple angles (see page 45).
- ())) : Appears at the beginning of a scene recorded with multiple audio languages (see page 45).
- : Appears at the beginning of a scene recorded with multiple subtitle languages (see page 45).

Resuming playback



The player can memorize the position on a disc where you interrupt playback, and resume playback from that position later. There are three resume modes; ON, OFF and DISC RESUME. The mode is initially set to ON when you purchased the player.

You can select the mode using the preference display (see page 56).

When the resume mode is "ON"

When you press ■, the player stops playback and memorizes the interrupted position. The TV screen shows [RESUME STOP] and the [RESUME] indicator lights up in the display window. The memory of the interrupted position is not cleared if you turn off the player.

When you turn off the player after setting the resume function, simply press \blacktriangleright . The player is turned on, and playback starts from the interrupted position. If you turn on the player by pressing $\bigcirc/|$ then press \blacktriangleright , playback starts from the beginning of the disc. Note that the memory is cleared if you open the disc tray.

When the resume mode is "DISC RESUME"

When you press , the player stops playback and memorizes the interrupted position. The TV screen shows [RESUME STOP] and the [RESUME] indicator lights up in the display window.

The memory of the interrupted position is not cleared if you open the disc tray or turn off the player.

Hint

The player memorizes interrupted positions for the last 30 discs played. Storing a new interrupted position will erase the interrupted position stored for the first disc.

To clear the memory

Press ■ while the disc is stopped.

To resume playback

When the resume mode is "ON"

While the disc you interrupted playback is still on the disc tray, press \blacktriangleright .

The player resumes playback from the position where playback was interrupted. The TV screen shows "RESUME PLAY."

To play back from the beginning

Press ■ before pressing ► to start playback.

When the resume mode is "DISC RESUME"

Press ▲ to insert a disc for which the player has stored an interrupted position.

The TV screen shows "RESUME STOP".

2 Press ►.

The TV screen shows "RESUME PLAY" and the player resumes playback from the position where playback was interrupted.

To play back from the beginning

After inserting the disc, press \blacksquare before pressing \triangleright to start playback.

NOTES

- If you change the [RESUME] setting from [DISC RESUME] to [OFF] or [ON], you cannot resume playback of a disc whose "resuming" position is stored. However, when you again set [RESUME] to [DISC RESUME], you will then be able to resume playback of the disc.
- If you interrupt the playback of a disc for which an interrupted position has already been stored, the memory will be updated with the new interrupted position.
- For a double-sided DVD VIDEO disc, the player regards each side as a different disc. Therefore, to resume playback of such a disc, the disc must be inserted with the same side down.
- When the player memorizes an interrupted point for a disc, it also memorizes Audio, Subtitle and Angle settings.
- The player may not resume playback exactly from the interrupted point. In the case of an SVCD/Video CD disc with PBC function, the player may resume playback from a point slightly earlier or later than the point where playback was interrupted.

Various speed playback

To advance or reverse playback rapidly while monitoring



During playback, press $\rightarrow \rightarrow$ or $\triangleleft \triangleleft$ on the remote control.

You can select from 1.5 times, 5 times, 20 times and 60 times normal speed. Pressing ► returns the player to normal playback.

During playback, hold down ►► or I◄◄.

Playback is advanced or reversed at 5 times normal speed.

NOTE

During rapid playback, the sound will be muted except when playing an Audio CD, and when playing a DVD VIDEO or Video CD at 1.5 times normal speed. For Audio CD discs, the sound will be heard intermittently.

x1.5 Quick Playback with sound



When you select 1.5 times normal speed playback, the disc is played back with sound.

- For DVD VIDEO discs, the subtitle does not go of.
- If the sound of a DVD VIDEO disc is recorded in Dolby Digital or DTS format, stereo linear PCM signals are output. With some DVD VIDEO discs, the sound quality and volume may alter, or the sound may be out of tune.
- To switch from rapid reverse playback to x1.5 Quick Playback, first press ►, then press ►► once.

To advance a still picture frame by frame



While paused, press II.

Each time you press ${\rm I\hspace{-.1em}I}$, the still picture advances to the next frame.

Pressing ► returns to normal playback.

To play back in slow motion



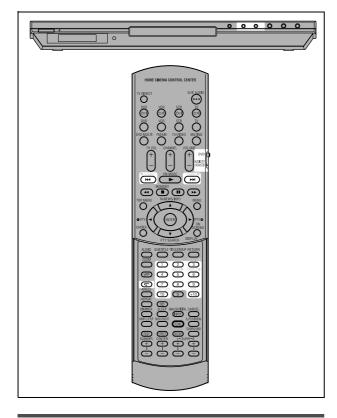
You can select from 1/32 times, 1/16 times, 1/4 times and 1/2 times normal speed.

During playback, press II, then press ►► (to play forward slow motion), or ◄◄ (to play reverse slow motion, for DVD VIDEO disc only).

Pressing ► returns to normal playback.

NOTES

- During slow motion playback, the sound will be muted.
- Reverse slow motion playback is not possible for an SVCD and Video CD.



To replay the previous scenes (One touch replay function)



During DVD VIDEO playback, press Ϛ.

The playback position moves back 10 seconds before the current position.

NOTES

- This function works only within the same title, though it works between chapters.
- This function may not work with some DVD VIDEO discs.

Locating the beginning of a scene or song



For DVD VIDEO: During playback, you can skip a chapter or title, depending on the disc configuration.

For SVCD/Video CD: During playback without PBC function, you can skip a track.

For Audio CD: During playback or while in stop mode, you can skip a track.

To skip forward, press ►►.

To skip backward, press ◄◄.

Using the numeric buttons

For DVD VIDEO/Audio CD: During playback or while in stop mode

For SVCD/Video CD: During playback without PBC function or while in stop mode

Press the numeric buttons to specify the number.

To select 5: press 5. To select 23: press +10, +10, then 3. To select 40: press +10, +10, +10, then 10.

The player starts playback from the beginning of the selection.

NOTES

• Depending on the disc type and the player status, what is specified differs:

Player status	Disc type	What is specified
While stopped	DVD VIDEO	title
	SVCD/Video CD/Audio CD	track
During playback	DVD VIDEO	chapter
	SVCD/Video CD/Audio CD	track

• During DVD VIDEO playback, if a menu is shown on the TV screen, the numeric buttons may be used for selecting an item in the menu.

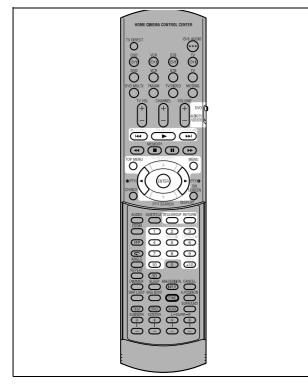
About screen saver function

A television monitor may have an image burned into it if a static image is displayed for a long time. To prevent this, the player automatically activates the screen saver function if a static picture, such as an on-screen display or menu, is displayed for over 5 minutes.

When the screen saver function is activated, the TV screen gets darker.

Pressing any buttons will release the screen saver function.

XV-N55SL Advanced operations



NOTE



When operating the player using the remote control, always set the mode selector to "DVD".

Playing from a specific position

Locating a desired scene from the DVD menu



DVD VIDEO discs generally have their own menus which show the disc contents. These menus contain various items such as titles of movies, names of songs, or artist information, and display them on the TV screen. You can locate a desired scene using the DVD menu.

1 While a DVD VIDEO disc is inserted, press TOP MENU or MENU.

The menu appears on the TV screen.

2 Press ▲/▼/◀/► to select a desired item, then press ENTER.

The player starts playback of the selected item.

Hints

- Some DVD VIDEO discs may also have a different menu which appears when MENU is pressed.
- See the instructions of each DVD VIDEO disc for its particular menu.
- With some discs, you can select items by entering the corresponding number using the numeric buttons, which may cause the player to automatically start playback.

NOTE

The MENU button does not work while stopped.

Locating a desired scene from the menu of a SVCD/Video CD with PBC

Super Video

Some SVCD/Video CD discs support the PBC function. PBC is an abbreviation of "Playback Control." Some SVCD/Video CD discs recorded with PBC have their own menus, such as a list of the songs of the disc. You can locate a specific scene by using the PBC menu.

1 In stop mode, press ► or TOP MENU. A disc menu appears on the TV screen.

2 Press the numeric buttons to select the desired item.

To select 5: press 5. To select 23: press +10, +10, then 3. To select 40: press +10, +10, +10, then 10.

The player starts playback of the selected item. To return to the menu, press RETURN.

Hint

If something like [NEXT] or [PREVIOUS] appears on the TV screen, pressing ►►I advances to the next page, and pressing I◄ returns to the previous page.

Specifying a desired title



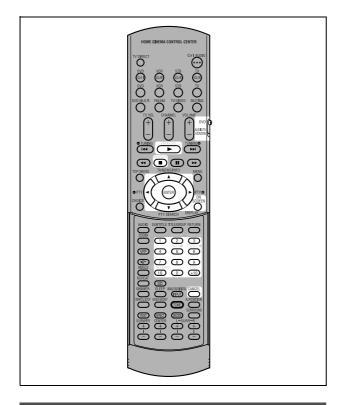
- **1** During playback, press TITLE/GROUP. [--] is shown in the title display area of the display window.
- **2** Press the numeric buttons to specify a title to be played.

To select 5: press 5. To select 23: press +10, +10, then 3. To select 40: press +10, +10, +10, then 10.

The player starts playback from the specified title.

NOTE

This function may not work with some DVD VIDEO discs.



Locating a desired position in the current title or track (Time search)



You can play a disc from the desired position by specifying the time from the beginning of the current title (for DVD VIDEO) or the disc (for SVCD/Video CD/Audio CD).

- For DVD VIDEO/Audio CD: During playback or while in stop mode
- For SVCD/Video CD: In any condition except SVCD/Video CD playback with PBC

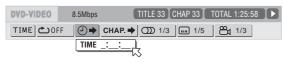
1 Press ON SCREEN twice.

The menu bar appears on the TV screen.

2 Press **◄/**► to move ▷ to **○→**], then press ENTER.

The pull-down menu for entering time appears.

Screen example for DVD VIDEO



Screen example for Audio CD

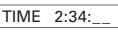
CD	TRACK 33 TIME	25:58
TIME COFF C PROG. RND.		

3 Press the numeric buttons (0 to 9) to enter the desired time.

The specified time is displayed in the pull-down menu.

Example (for DVD VIDEO)

To play back from 2(H):34(M):00(S) Press 2, 3, then 4.



Example (for SVCD/Video CD/Audio CD) To play back from 23(M):40(S) Press 2, 3, then 4.

TIME 23:4_

You do not have to press "0" to enter the trailing zeros (for the last two digits in the example above).

To correct a mistake

Press ◄ repeatedly to move back to the digit where you entered a wrong number, and reenter the correct one.

4 Press ENTER.

The player starts playback from the specified time.

To dismiss the menu bar

Press ON SCREEN.

Hint

"10" and "+10" buttons are not used with this function.

NOTES

- Some DVD VIDEO discs do not contain time information, and the time search function cannot be used.
- The time search function cannot be used during program playback.

Changing the playback order

To play back in a specific order (Program play)



By programming tracks, you can play up to 99 tracks in any order. You may program the same track more than once.

- **1** In stop mode, press ON SCREEN twice. The menu bar appears on the TV screen.
- 2 Press ◄/► to move
 ^[]
 to PROG.].
 Screen example for Audio CD

CD	TRACK 33	TIME	25:58	

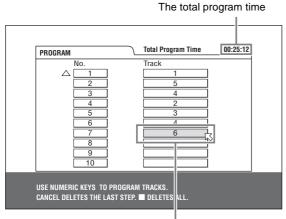
3 Press ENTER.

The program table appears. The [PRGM] indicator lights up in the display window.

4 Press the numeric buttons to specify tracks in the desired order.

To select 5: press 5.

To select 23: press +10, +10, then 3. To select 40: press +10, +10, +10, then 10.



Selected track number

To correct the program

Press $\blacktriangle/\blacksquare$ to move \bigtriangledown to the track to be corrected, then press CANCEL. The track is erased and the subsequent programmed tracks move up.

Pressing Clears all the programmed tracks.

5 Press ► to start program playback.

With an Audio CD disc, the program table remains on the TV screen during program playback. (Pressing ON SCREEN brings up the status bar.)

When all of the programmed tracks have finished playback, the player stops and the program table appears again. Note that the program remains.

 During program playback, you cannot edit the program contents.

To check the program contents

During playback, press $\blacksquare.$ Playback stops and the program table is shown.

When the player is playing back an Audio CD and the program table is not shown, you can bring up the table by carrying out steps 1 to 3.

During SVCD/Video CD playback, you can check the program contents via the menu bar.

To stop program playback

Press ∎.

To clear the program

While stopped and the program table is shown, press \blacksquare .

To exit the program mode

After clearing the program, press ON SCREEN.

NOTE

When the disc tray is opened or the player is turned off, the program is cleared.

To play back in random order (Random play)



- **1** In stop mode, press ON SCREEN twice. The menu bar appears on the TV screen.
- 2 Press ◄/► to move
 to RND... Screen example for Audio CD

CD		TRACK 33	TIME	25:58	
TIME COF	F PROG. RND.				

3 Press ENTER.

The player starts random playback.

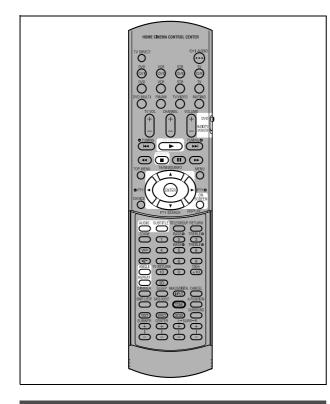
With an SVCD/Video CD disc, the menu bar is automatically dismissed.

During random playback, the [RND] indicator lights up in the display window.

After playing all tracks of the disc, the player stops the disc and exits the random playback mode.

To stop and quit random playback

Press $\blacksquare.$ The player stops playback and exits the random playback mode.



Repeat playback

To repeat the current selection or all tracks



For DVD VIDEO: During playback

For SVCD/Video CD/Audio CD: In any condition except SVCD/ Video CD playback with PBC

Press REPEAT.

If you press REPEAT in stop mode, press ► to start playback.

Each time you press REPEAT, the repeat mode cycles among All repeat, Repeat 1 and off.

The indication on the display window shows the selected repeat mode.

1: Repeats the current chapter for DVD VIDEO or the current track for SVCD/Video CD/Audio CD.

No indication: The repeat mode is off.

A window which indicates the current repeat mode will be displayed on the TV screen. The mode indication on the window is same as the one on the menu bar. (Repeat mode example on the TV screen)



To stop repeat playback

Press

When a DVD VIDEO disc is set, the player stops playback and quits the repeat mode.

When an SVCD, Video CD or Audio CD disc is set, the player stops playback but does not quit the repeat mode.

To quit repeat playback

Press REPEAT until the repeat mode indicator goes off in the display window.

Hint

When the program playback mode is active with an SVCD, Video CD or Audio CD, the repeat mode changes in the same manner. Note, however, that in the " ," mode the player repeats all the programmed tracks instead of all tracks on the disc.

To repeat a desired part (A-B repeat playback)



First make sure:

- The player is in playback mode except SVCD/Video CD playback with PBC.
- **1** Press ON SCREEN twice.

The menu bar appears on the TV screen.

2 Press ◄/► to move ▷ to 之, then press ENTER.

The pull-down menu for repeat mode selection appears.

- **3** Press $\blacktriangle/\blacksquare$ to select [A-B].
- **4** Press ENTER at the beginning of the part you want to repeat (point A).

The pull down menu disappears.

The repeat icon shows 🛆 A-

5 Press ENTER at the end of the part you want to repeat (point B).

The repeat icon shows <u>A-B</u>. The player locates "A" and starts repeat playback between "A" and "B." The [<u>)</u> indicator lights in the display window.

To quit A-B repeat playback

Press ◀/► to move ᅜ to △ A-B |, and press ENTER. The A-B repeat mode turns off, then normal playback continues.

NOTE

The A and B points must be set in the same title/track.

Changing the language, sound and scene angle

To select the subtitle language (SUBTITLE)

DVD Super VIDE0 VCD

Some DVD VIDEO and SVCD discs contain more than one subtitle language. You can choose a desired one from them.

Hint

At the beginning of the part where the subtitles are recorded, appears on the TV screen (except when the [ON SCREEN GUIDE] preference is set to [OFF]).

1 During playback, press SUBTITLE.

The subtitle selection window appears on the TV screen.

 1/3	
Δ	
ENGLISH	乁
	<u> </u>

2 Press ▲/▼ or SUBTITLE to select the subtitle. Each time you press ▲/▼ or SUBTITLE, the subtitle

language changes.

3 Press ENTER.

Subtitles are displayed in the selected language. The subtitle selection window is dismissed.

NOTES

- An SVCD disc can have up to four subtitles. Pressing ▲/▼ cycles through those channels regardless of whether the subtitles are recorded or not.
- The subtitle selection window will automatically disappear if you do not change the subtitle for several seconds.
- For DVD VIDEO, the selected language may be abbreviated on the TV screen. See "Appendix B: Table of languages and their abbreviations" on page 36.

To change the audio language or sound (AUDIO)



The audio selection setting allows you to change the audio language of a movie, or to listen to karaoke with or without the vocal.

Hint

At the beginning of the part where multiple audio tracks are recorded, \bigcirc appears on the TV screen (except when the [ON SCREEN GUIDE] preference is set to [OFF]).

1 During playback, press AUDIO.

The audio selection window appears on the TV screen.



2 Press ▲/▼ or AUDIO to select the desired audio.

Each time you press \blacktriangle/∇ or AUDIO, the audio changes.

For DVD VIDEO (example)

→ 1/3 ENGLISH ←→ 2/3 FRENCH ←→ 3/3 GERMAN ←

For SVCD

→ ST1 ←→ ST2 ←→ L-1 ←→ R-1 ←→ L-2 ←→ R-2 ←

For Video CD

→ST (Stereo) ← L ← R ←

3 Press ENTER

You can hear the selected audio. The audio selection window is dismissed.

NOTES

- The audio selection window will automatically disappear if you do not change the audio for several seconds.
- For DVD VIDEO, the selected language may be abbreviated on the TV screen. See "Appendix B: Table of languages and their abbreviations" on page 60.

To select a scene angle of DVD VIDEO (ANGLE)



You can enjoy a variety of scene angles if the DVD VIDEO disc contains "multi-angle" parts, where multiple cameras were used to shoot the same scene from different angles.

Hint

At the beginning of a "multi-angle" part, 22 appears on the TV screen (except when the [ON SCREEN GUIDE] preference is set to [OFF]).

1 During playback, press ANGLE.

The angle selection window appears on the TV screen.



2 Press ▲/▼ or ANGLE to select the desired angle.

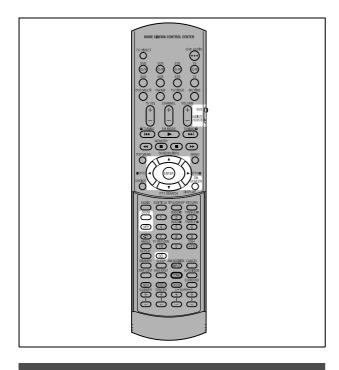
Each time you press \blacktriangle/∇ or ANGLE, the angle changes.

3 Press ENTER.

You can see the picture from the selected angle. The angle selection window is dismissed.

NOTE

The angle selection window will automatically disappear if you do not change the angle for several seconds.



Special picture/sound effect

To zoom in pictures



1 During playback or while paused, press ZOOM.

Pressing ZOOM causes the player to zoom in on the image. At the top left of the screen, the information for the current magnification appears for about 5 seconds.

Each time you press ZOOM, the magnification is doubled (1.8, 4, 8, 16, 32 and 64 times).

Z00M x 4



When a picture of a DVD VIDEO disc is viewed on a normal TV screen (4:3, Letter Box), black bars may appear at the top and bottom of the screen. In this case, if you select the "ZOOM x1.8" mode, the black bars become almost invisible. When a 1:2.35 or 1:1.85 DVD VIDEO source is played back, however, the black bars are visible on the screen.

2 Press ▲/▼/◀/► to move the zoomed position.

To return to the normal playback

Press ENTER.

NOTE

While zoomed, the picture may look coarse.

To adjust the picture character (VFP)

DVD Super Video VIDE0 VCD CD

The VFP (Video Fine Processor) function allows you to adjust the picture character according to the type of programming, picture tone or personal preferences.

- **1** During playback, press VFP.
- The VFP mode selection window appears on the TV screen.
- **2** Press **◄/►** to select the desired preset.

Each time you press the button, the VFP mode changes as follows.

Set the video type most suitable to the current program or the room conditions.

► NORMAL ← CINEMA ← USER 1 ← USER 2 ←

Selected preset



Parameter

[NORMAL]: for watching TV in a general room.

- [CINEMA]: for watching a movie software in a room with suppressed light.
- [USER 1] [USER 2]: you can adjust parameters that affect the picture character and store the settings as a user preset. See the next step.

3 To define a user setting, press ▲/▼ to select a parameter to be edited from the following.

• GAMMA

Adjust this if the neutral color is bright or dark. The brightness of dark and bright portion is maintained. Available range: -4 (darkest) to +4 (brightest).

- BRIGHTNESS Adjust this if the picture is bright or dark on the whole. Available range: -16 (darkest) to +16 (brightest).
- CONTRAST Adjust this if the far and r

Adjust this if the far and near position is unnatural. Available range: -16 to +16.

- SATURATION Adjust this if the picture is whitish or blackish.
- Available range: -16 (blackest) to +16 (whitest). • TINT

Adjust this if the appearance of flesh tone is unnatural. Available range: -16 to +16.

• SHARPNESS

Adjust this if the picture is indistinct. Available range: 0 to +3.

• Y DELAY

Adjust this if the picture looks separately/overlapped. Available range: -2 to +2.

4 Press ENTER.

A window for setting parameters appears.

SATUR	ATION	+ 4	
		\checkmark	

Selected parameter

5 press ▲/▼ to adjust the level of the parameter.

The higher value enhances the effect.

b Press ENTER.

Repeat steps 3 to 6 if you want to set other parameters.

To dismiss the VFP mode selection window

Press VFP.

NOTE

The window for VFP mode selection and parameter setting disappear if no operation is made for about 10 seconds.

To simulate surround sound (3D PHONIC)

DVD VIDE0

Using the 3D PHONIC function, you can get a simulated surround effect from your stereo system.

1 During playback, press 3D.

The 3D PHONIC window appears on the TV screen.

2 Press **◄/►** to select the desired mode.

Each time you press the button, the 3D PHONIC mode changes as follows:

→ ACTION ↔ DRAMA ↔ THEATER ↔ NONE ←



Selected effect mode

ACTION

Suitable for action movies and sports programs in which the sound source moves.

• DRAMA

Natural and warm sound. You can enjoy movies in a relaxed mood.

• THEATER You can enjoy sound effects like in a theater.

3 Press ▲/▼ to adjust the effect level.

You can set the effect level from [1] to [5]. The higher value enhances the effect.

To dismiss the 3D PHONIC window

Press 3D.

NOTES

- The 3D PHONIC window disappears if no operation is made for about 10 seconds.
- The 3D PHONIC function works correctly only when playing back a DVD VIDEO disc recorded with Dolby Digital.
- When playing back a DVD VIDEO disc recorded with Dolby Digital that does not contain the rear signal, you can change the 3D PHONIC setting, but you will not be able to achieve a correct 3D effect.
- The 3D PHONIC function does not affect the Dolby Digital bitstream signal from the DIGITAL OUT jack.
- When the 3D PHONIC function is active, the [ANALOG DOWN MIX] setting in the [AUDIO] setting display is not available.

Menu bar functions

To bring up the menu bar

1 When a disc is inserted, press ON SCREEN.

A status bar for the type of disc inserted will appear on the TV screen. See page 38 for details about the status bar.

2 Press ON SCREEN again.

A menu bar for the type of disc inserted will appear under the status bar.

(for DVD VIDEO)

DVD-VIDEO	8.5Mbps	TITLE 33 CHAP 33	TOTAL 1:25:58	
	FF 🕘 🔿 📥 CHA	P. ➡ 000 1/3 Im 1/5	8 1 1/3	

(for SVCD)

SVCD	TRACK 33 TIME 25:58
	PROG. RND. ∭ST1 m -/4

(for Video CD)

VCD	TRACK 33 TIME 25:58
	PROG. RND. OD ST

(for Audio CD)

CD		TRACK 33	TIME	25:58
	F 🕘 🌩 PROG. RND.			

To dismiss the menu bar and status bar

Press ON SCREEN.

Basic operation procedure

Press Is to select the icon you want to work with.

The selected icon is pointed by $\overline{\bigtriangledown}$.

2 Press ENTER.

With many icons, an appropriate pull-down window appears, however, there are some exceptions.

NOTES

- A mark or text on the menu icon for the function or mode currently selected is shown in green.

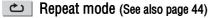
Menu bar functions for DVD VIDEO

TIME Time mode selection

During playback, selects the time mode shown in the display window and in the status bar.

Press ENTER to select the time mode from the following.

- TOTAL: Current title elapsed time
- T.REM: Current title remaining time
- TIME: Current chapter elapsed time
- REM: Current chapter remaining time



Selects the repeat mode during playback.

1. Open the pull-down window.

- 2. Press \blacktriangle/ ∇ to select the repeat mode from the following.
 - CHAPTER: Current chapter repeat
 - Current title repeat • TITLE:
 - A-B: A-B repeat
- Repeat mode deactivated • OFF 3. Press ENTER to make the selected repeat function active.

Image: A start (See also page 42)

Specifies a time from the beginning of the current title as the point from which to begin playback.

CHAP. → Chapter search

During playback, specifies a desired chapter to be played back from.

- 1. Open the pull-down window.
- 2. Press numeric buttons (0 to 9) to enter a desired chapter number. (For example, to specify "10," press 1, then 0.)
- 3. Press ENTER to begin playback from the specified chapter.

0

Audio selection (See also page 45)

During playback, selects the audio language or sound track.

- 1. Open the pull-down window.
- 2. Press ▲/▼ to select a desired audio language or sound track.
- 3. Press ENTER to begin playback with the selected audio.



During playback, selects the subtitle language.

- 1. Open the pull-down window.
- 2. Press ▲/▼ to select a desired subtitle language.
- 3. Press ENTER to begin playback with the selected subtitle.

Angle selection (See also page 45) **P**4

During playback, selects a desired scene angle in a multi-angle part.

- 1. Open the pull-down window.
- 2. Press ▲/▼ to select a scene angle.
- 3. Press ENTER to begin playback with the selected scene angle.

Menu bar functions for SVCD/Video CD/ Audio CD

TIME Time mode selection

Selects the time mode shown in the display window and in the status bar.

Press ENTER to select the time mode from the following.

- TIME: Current track elepsed time
- REM: Current track remaining time (while in stop mode, current track total time)
- TOTAL: Disc elapsed time
- T.REM: Disc remaining time (while in stop mode, disc total time)

Repeat mode (See also page 44)

Selects the repeat mode.

- 1. Open the pull-down window.
- 2. Press ▲/▼ to select the repeat mode from the following.
 - TRACK: Current track repeat
 - ALL: All track repeat
 - A-B: A-B repeat
 - OFF: Repeat mode deactivated
- 3. Press ENTER to make the selected repeat function active.

→ Time search (See also page 42)

Specifies a time from the beginning of the disc as the point from which to begin playback.

PROG. Program playback (See also pages 42 and 43)

While stopped, specifies the playback order of tracks.



RND. | Random playback (See also page 43)

While stopped, activates random playback.

တာ

Audio selection (See also page 45)

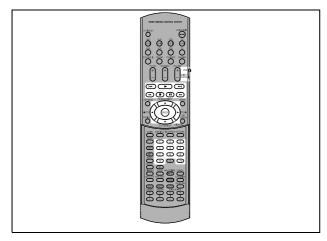
During SVCD/Video CD playback, selects the audio channel(s).

- 1. Open the pull-down window.
- 2. Press ▲/▼ to select a desired audio channel(s).
- 3. Press ENTER to play back with the selected audio channel(s).
-

Subtitle selection (See also page 45)

- During SVCD playback, selects the subtitle.
- 1. Open the pull-down window.
- 2. Press \blacktriangle/∇ to select a desired subtitle.
- 3. Press ENTER to begin playback with the selected subtitle.

XV-N55SL MP3/WMA disc playback



NOTE

DVD

AUDIO/TV /VCR/STB When operating the player using the remote control, always set the mode selector to "DVD".

Operations

The player can play back MP3 files and WMA files on a home recorded CD-R/RW disc or commercially available CD. We refer to a disc that contains MP3 and/or WMA files as an "MP3/WMA disc" in this manual.

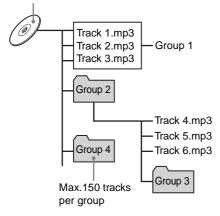
Note that if a disc contains both of MP3/WMA files and JPEG files, you can only play back files of the type selected by the [MP3&WMA/JPEG] setting in the [PICTURE] preference display (see page 56).

About MP3/WMA discs

On an MP3/WMA disc, each song is recorded as a file (track). Files are sometimes grouped into folders by artists, album, etc.

- Each file is regarded as a track.
- A folder which has one or more files is regarded as a group.
- A folder which does not directly contain any tracks is ignored.
 Files which do not belong to any folder are grouped into "group
- Files which do not belong to any folder are grouped into "group 1."
- The player recognizes up to 150 tracks per group, and up to 99 groups per disc. If there are files other than MP3/WMA files, they also count in the 150-file total.

Max. 99 groups per disc



Notes for making your own MP3/WMA disc using a CD-R/CD-RW disc

• Select "ISO 9660" as the disc format.

- As for MP3 files, we recommend you to record your material at a 44.1 kHz sampling rate, using the 128 kbps data transfer rate.
- As for WMA files, make sure that the copyright feature is set to off.
- As for WMA files, we recommend you to record your material at a bit rate of 64 kbps or higher.

Basic operations

Use the following buttons to control MP3/WMA disc playback.

ENTER: Starts playback while stopped.

- ►: Starts playback while stopped or paused.
- ■: Stops playback.
- II: Pauses playback.
- I:Skips back or forward a track during playback. Selects the previous or next track while stopped.

If you press \blacktriangleright during playback, or press \blacksquare to stop playback followed by \blacktriangleright , the player starts playback from the beginning of the current track.

NOTES

- The player does not support "packet writing (UDF format)" discs.
- The player does not support the ID3 tag.
- The player supports discs recorded with multiple sessions.
- Some discs may not play due to disc characteristics or recording conditions.
- Programmed and random playback functions do not work with MP3/WMA discs.
- As for MP3, the player only can play back tracks with the following file extensions; ".MP3," ".Mp3," ".mp3" and ".mP3."
- As for WMA, the player only can play back tracks with the following file extensions; ".WMA," ".wma," and any other combination of upper case and lower case letters (such as ".Wma").
- Time required for reading the disc contents may vary for different discs, depending on the numbers of groups (folders) and tracks (files) recorded, etc.
- You cannot advance or reverse playback by pressing ►► or
 , or by holding down ►►I or I<< during MP3/WMA disc playback.
- The player supports WMA files recorded with a bit rate of 48 kbps or higher. The player cannot play back WMA files recorded with a bit rate under 48 kbps.

Selecting the desired group and track

When inserting an MP3/WMA disc, after the disc contents are read, the MP3/WMA CONTROL display automatically appears on the TV screen.

You can specify the desired group/track from the display using the following procedure.

1 Make sure that the black (cursor) bar is in the left (group) column.

If it is in the right column, press \blacktriangleleft to move it to the left column.

2 Press ▲/▼ to move the bar to a desired group.

On the right column, tracks in the selected group are shown.

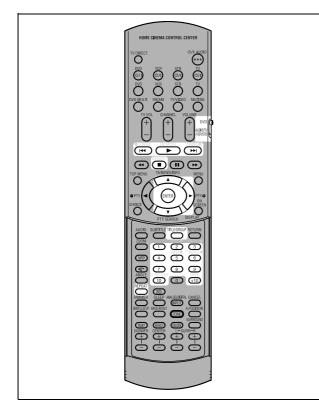
3 Press I⊲⊲/►►I to select a desired track, then press ENTER or ►.

or

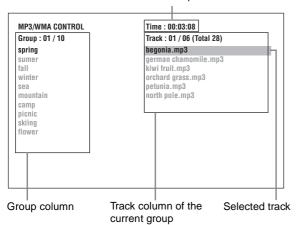
Press the numeric buttons to directly specify a desired track number.

To select 5: press 5. To select 23: press +10, +10, then 3. To select 40: press +10, +10, +10, then 10.

MP3/WMA disc playback



Current track elapsed time



Hint

You can also select a desired track by pressing \blacktriangleright to move the black bar to the right (track) column then using \blacktriangle/∇ .

NOTES

- If an MP3/WMA file name includes any 2-byte character, the player cannot show the file name correctly.
- Only MP3/WMA files are shown on the MP3/WMA CONTROL display.
- The order of groups/tracks shown in the MP3/WMA CONTROL display may differ from the order shown on your personal computer when you set the disc on your computer.

Direct selection

You can select a desired group directly by specifying the group number.

1 During playback or while stopped, press TITLE/GROUP.

[--] is shown in the group display area of the display window.

2 Press the numeric buttons to specify a desired group number.

To select 5: press 5. To select 23: press +10, +10, then 3. To select 40: press +10, +10, +10, then 10.

Specify the group number within several seconds after pressing TITLE/GROUP (i.e. while the display window shows [--]).

The player starts playback from track 1 of the selected group.

3 Press the numeric buttons to specify a desired track number.

The player starts playback from the specified track. You can also use $| \blacktriangleleft \triangleleft \rangle \rightarrow \downarrow$ or $\triangle / \blacktriangledown$ to specify a track, instead of the numeric buttons.

Repeat playback

During playback or while stopped, press REPEAT.

Each time you press REPEAT, the repeat mode changes as follows.

If you press REPEAT while stopped, you need to press ENTER or ► to start repeat playback.

MP3/WMA CONTROL display	Display window	Function	
REPEAT TRACK		Repeats the current track.	
REPEAT GROUP	Ð	Repeats all tracks in the current group.	
REPEAT ALL	Ð	Repeats all tracks on the disc.	
No indication	The repeat mode is off.		

(TV screen)

Selected repeat mode

Т

MP3/WMA CONTROL REPE		
Group : 01 / 10		
spring	begonia.mp3	
sumer	german chamomile.mp3	
fall	kiwi fruit.mp3	

To stop repeat playback

Press ■. Note that the repeat mode remains active.

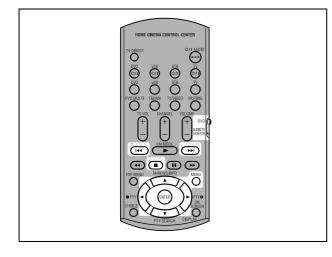
To quit repeat playback

During playback, press REPEAT until no repeat icon is shown on the display window.

While stopped, press REPEAT until repeat mode indication on the MP3/WMA CONTROL display goes off.

50

XV-N55SL JPEG disc playback



NOTE



When operating the player using the remote control, always set the mode selector to "DVD".

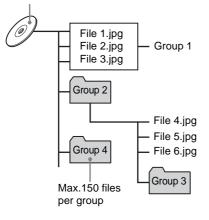
Note that if a disc contains both of MP3/WMA files and JPEG files, you can only play back files of the type selected by the [MP3&WMA/JPEG] setting in the [PICTURE] preference display (see page 56).

About JPEG discs

On a JPEG disc, each picture is recorded as a file. Files are sometimes grouped into folders by category, etc.

- A folder which has one or more files is regarded as a group.
- A folder which does not directly contain any files is ignored.
- Files which do not belong to any folder are grouped into "group 1."
- The player recognizes up to 150 files per group, and up to 99 groups per disc. If there are files other than JPEG files, they also count against the 150-file total.





Notes for making your own JPEG disc using a CD-R/ CD-RW disc

- Select "ISO 9660" as the disc format.
- We recommend you to record your material at a 640 x 480 pixel resolution.
- This player supports the baseline JPEG format.

Basic operations

To see a desired picture

When inserting a JPEG disc, after the disc contents are read, the JPEG CONTROL display automatically appears on the TV screen.

Group : 01 / 10	File : 01 / 06 (Total 28)
spring	begonia.jpg
sumer	german chamomile.jpg
fall	kiwi fruit.jpg
winter	orchard grass.jpg
sea	petunia.jpg
mountain	north pole.jpg
camp	1 71 0
picnic	
skiing	
flower	

You can select a desired file for playback via this display.

1 Make sure that the black (cursor) bar is in the left (group) column.

If it is in the right column, press \blacktriangleleft to move it to the left column.

2 Press ▲/▼ to move the bar to a desired group.

On the right column, files in the selected group are shown.

3 Press I ◄ ◄ / ►► I to select a desired file, then press ENTER.

The selected file (still picture) is shown on the TV.

Hint

You can also select a desired file by pressing \blacktriangleright to move the black bar to the right (file) column then using $\blacktriangle/\bigtriangledown$.

NOTE

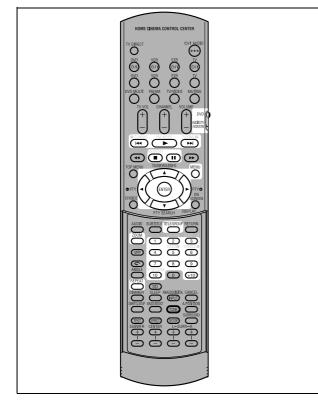
If the selected file is unplayable, a black screen appears.

To display another picture

Press $| \langle \rangle \rangle$ or $| \langle \rangle \rangle$ to select the desired picture.

To dismiss the picture

Press ■ or MENU. The TV screen returns to the JPEG CONTROL display.



NOTES

- The player supports the baseline JPEG format.
- The player does not support "packet writing (UDF format)" discs.
- The player supports discs recorded with multiple sessions.
- The player may not be able to read some discs, or may take a long time to display a picture on the disc, due to disc characteristics, recording conditions, or numbers of groups (folders), etc.
- Programmed and random playback functions do not work with JPEG discs.
- The screen saver function will be activated if the same picture is displayed for more than 5 minutes except during slide show playback.
- The player only can play back files with the following file extensions; ".jpg," ".jPG," ".JPG," ".JPEG" and any other combination of upper case and lower case letters (such as "Jpg").
- If a JPEG file name includes any 2-byte character, the player may not show the file name correctly.
- If a picture has been saved at greater than 640 x 480 pixel resolution, it may take some time to display the picture.
- The player does not support pixel size pictures of more than 2400 pixels. Make sure that the picture pixel size is 2400 pixels or less.

To zoom in the picture

1 While in pause mode, press ZOOM.

Pressing ZOOM causes the player to zoom in on the image. Each time you press ZOOM, the magnification is doubled (1.8, 4, 8, 16, 32 and 64 times).

2 Press $\blacktriangle/\checkmark/\checkmark/\checkmark$ to move the zoomed position.

Viewing pictures continuously (slide show mode)

You can see files (still pictures) one after another automatically.

To start the slide show

Press ►.

The slide show starts from the beginning of the disc. Each file (still picture) is displayed for approximately 3 seconds.

To stop slide show playback in the middle

Press ■ or MENU.

The TV screen returns to the JPEG CONTROL display. Pressing ► resumes slide show playback from the last picture displayed.

To keep showing the current picture

Press II or ENTER. Pressing ► resumes the slide show playback.

To select the start point of the slide show

From the JPEG CONTROL display

1 Make sure that the black (cursor) bar is in the left (group) column.

If it is in the right column, press \blacktriangleleft to move it to the left column.

- **2** Press ▲/▼ to move the bar to a desired group.
- **3** Press | <</>> >> to select a desired file.
- 4 Press ►.

The slide show starts from the specified file.

Direct selection

- **1** During playback or while stopped, press TITLE/GROUP.
- **2** Press the numeric buttons to specify a desired group number.

To select 5: press 5. To select 23: press +10, +10, then 3. To select 40: press +10, +10, +10, then 10.

3 Press the numeric buttons to specify a desired file number.

The player starts slide show playback from the specified file. If you do not specify a file, the player starts slide show playback from the first file in the group.

Repeat function

In the slide show mode, you can repeat playback of JPEG files in a group or on the disc.

1 While the JPEG CONTROL display is shown, press REPEAT.

Pressing REPEAT switches the repeat mode.

When the repeat mode is turned on, the [

The selected repeat mode is shown on the JPEG CONTROL display.

REPEAT ALL: All files on the disc are repeated. REPEAT GROUP: All files in the current group are repeated.

No indication: The repeat mode is off.

2 Press ► to start repeat playback.

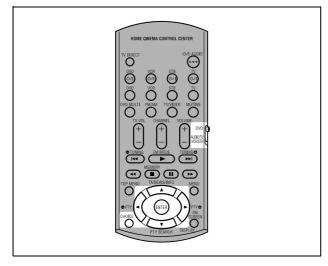
To stop repeat playback

Press ■. The repeat mode remains active.

To quit repeat playback

Press ■ or MENU while the JPEG CONTROL display is shown, and press REPEAT until the repeat mode indication goes off.

XV-N55SL Changing the initial settings



NOTE



When operating the player using the remote control, always set the mode selector to "DVD".

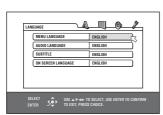
Selecting preferences

This section refers to the settings which are already made when you purchase the player. Read this section when you want to connect this player to a wide-vision TV set, or when you want to otherwise change the settings according to your preferences and viewing environment.

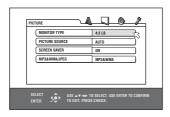
About the Preference display

The Preference display consists of the LANGUAGE, PICTURE, AUDIO and OTHERS setting displays, each having setting items.

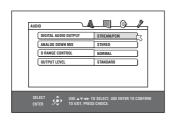
LANGUAGE



PICTURE



AUDIO



OTHERS

OTHERS	
RESUME	ON L
ON SCREEN GUIDE	ON Y
AUTO STANDBY	OFF
AV COMPULINK MODE	DVD1
PARENTAL LOCK	
SELECT DUSE AT THE ENTER SELECT TO EXIT, PRESS	O SELECT, USE ENTER TO CONFIRM 5 Choice.

How to set preferences

1 Press CHOICE.

One of the preference on-screen displays appears on the TV screen.

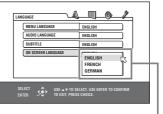
You can see four icons at the top right of the on-screen display for the settings.

- 🔊 : LANGUAGE menu
- C : PICTURE menu
- (): AUDIO menu
- : OTHERS menu
- **2** Press **◄/►** to select the appropriate icon. The appropriate display appears on the TV screen.

The color of the selected item changes.

4 Press ENTER.

A pull-down menu appears over the selected item.



Selected item

5 Press ▲/▼ to select from the options then press ENTER.

The selected option is set.

· For details about each setting, see the following.

To dismiss a preference display

Press CHOICE.

NOTES

- While an MP3/WMA or JPEG disc is inserted, you cannot bring up any preference display.
- When a preference display is shown on a wide TV screen, the upper and lower parts of the preference display sometimes may be cut off. If this happens, adjust the picture size control of the TV.

LANGUAGE menu

MENU LANGUAGE

You can select the default menu language to be displayed if it is contained on a DVD VIDEO disc.

Setting options

ENGLISH, SPANISH, FRENCH, CHINESE, GERMAN, ITALIAN, JAPANESE, language code from AA to ZU

- If the disc does not have a menu in the selected language, the disc's default language will be used.
- For details about language codes, see "Appendix B: Table of languages and their abbreviations" on page 60.
- You cannot change the setting during playback.

AUDIO LANGUAGE

You can select the default audio language to be played if it is contained on a DVD VIDEO disc.

Setting options

ENGLISH, SPANISH, FRENCH, CHINESE, GERMAN, ITALIAN, JAPANESE, language code from AA to ZU

- If the disc does not have the selected language, the disc's default language will be used.
- For details about language codes, see "Appendix B: Table of languages and their abbreviations" on page 60.
- · You cannot change the setting during playback.

SUBTITLE

You can select the default subtitle language to be displayed if it is contained on a DVD VIDEO disc.

Setting options

OFF, ENGLISH, SPANISH, FRENCH, CHINESE, GERMAN, ITALIAN, JAPANESE, language code from AA to ZU

- If the disc does not have a subtitle in the selected language, the disc's default language will be used.
- For details about language codes, see "Appendix B: Table of languages and their abbreviations" on page 60.
- · You cannot change the setting during playback.

ON SCREEN LANGUAGE

You can select the on-screen display language of the player.

Setting options

ENGLISH, FRENCH, GERMAN

- Some on-screen messages are shown in English regardless of the setting.
- You cannot change the on-screen language shown on the MP3 display.

PICTURE menu

MONITOR TYPE

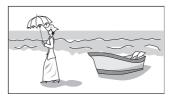
You can select the monitor type to match your TV when you play back DVD VIDEO discs recorded for wide-screen televisions.

Setting options

16:9 NORMAL, 16:9 AUTO, 4:3 LB, 4:3 PS

[16:9 NORMAL] (Wide television screen): select when you connect the player to a wide-screen (16:9) TV whose aspect ratio is fixed to 16:9 (the unit automatically adjusts the screen width of the output signal correctly when playing back a 4:3 source).

If you play a 4:3 DVD VIDEO source using the [16:9 NORMAL] mode, the picture character changes slightly due to the process for converting the picture width.



[16:9 AUTO] (Wide television screen): select when you connect the player to a wide-screen (16:9) TV.

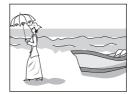
[4:3 LB] (Letter Box conversion): select when you connect the player to a normal (4:3) TV.

When playing back a DVD VIDEO disc recorded in wide picture format, the picture is shown with black bars at the top and bottom.



[4:3 PS] (Pan Scan conversion): select when you connect the player to a normal (4:3) TV.

When playing back a DVD VIDEO disc recorded in wide picture format, the picture is zoomed to fill the screen vertically, and the left and right sides of the image are chopped off. Note, however, that the picture will be shown in the 4:3 LB mode even if you select the 4:3 PS mode depending on the disc.



PICTURE SOURCE

This mode selects whether the content on the disc is processed by field (video source) or by frame (film source). You can obtain optimal picture quality according to the source type to be played back by selecting an appropriate option.

Setting options

AUTO, FILM, VIDEO(NORMAL), VIDEO(ACTIVE)

- [AUTO]: select when playing back a disc containing both video and film source materials.
 - The player recognizes the picture type (film or video source) of the current disc according to the disc information. Normally, select this option.
- [FILM]: select when playing back a film source disc.
- [VIDEO(NORMAL)]: select when playing back a video source disc with relatively a few movements.
- [VIDEO(ACTIVE)]: select when playing back a video source disc with relatively a lot of movements.

SCREEN SAVER

You can set the screen saver function to ON or OFF. (See page 40.)

Setting options

ON, OFF

MP3&WMA/JPEG

The player can play MP3/WMA and JPEG files recorded on a CD-R/CD-RW disc. However, if a disc contains both MP3/WMA and JPEG files, you can only play files of the type selected in this menu item.

Setting options

MP3&WMA, JPEG

[MP3&WMA]: when selected, only MP3/WMA files can be played back.

[JPEG]: when selected, only JPEG files can be played back.

AUDIO menu

DIGITAL AUDIO OUTPUT

To connect the player's digital output to an external device equipped with a digital input, this item must be set correctly. See "Appendix C: Digital output signal chart" on page 60 for details about the relation between the setting and output signals.

Setting options

PCM ONLY, DOLBY DIGITAL/PCM, STREAM/PCM

- [PCM ONLY]: select when you connect the DIGITAL OUT jack of the player to the linear PCM digital input of other audio equipment.
- [DOLBY DIGITAL/PCM]: select when you connect the digital input of a Dolby Digital decoder or an amplifier with a built-in Dolby Digital decoder.

When this option is selected, playing back a disc recorded by the MPEG Multichannel format outputs a linear PCM digital signal.

- [STREAM/PCM]: select when you connect the digital input of an amplifier with a built-in DTS, MPEG Multichannel or Dolby Digital decoder, or the stand-alone unit of such a decoder.
- With some DVD VIDEO discs that are not fully copy-protected, a 20 or 24 bit digital signal may be output.
- A signal recorded with the 96 kHz or higher sampling frequency is output from the DIGITAL OUT jack with the 48 kHz sampling frequency.
- When playing a DVD VIDEO or Audio CD disc with DTS, use a DTS decoder to get correct signals from your speakers.

ANALOG DOWN MIX

To correctly play the audio on a DVD VIDEO disc recorded with surround multichannel audio, you must set this item properly according to your audio system configuration.

(This function does not work when the 3D PHONIC function is activated.) $\label{eq:constraint}$

Setting options

DOLBY SURROUND, STEREO

- [DOLBY SURROUND]: select when listening to multichannel surround audio with the player's analog AUDIO OUT terminals connected to a surround decoder.
- [STEREO]: select when listening to conventional two-channel stereo audio with the player's AUDIO OUT terminals connected to a stereo amplifier/receiver or television set, or in case you want to record the audio from a DVD VIDEO disc to MiniDisc, cassette, etc.

D. RANGE CONTROL

This setting provides optimal audio quality from the analog AUDIO OUT terminals for listening to DVD VIDEO discs recorded in Dolby Digital format, at low or middle volume.

Setting options

WIDE RANGE, NORMAL, TV MODE

[WIDE RANGE]: when selected, audio is played back with the widest dynamic range so that you can enjoy powerful playback sound.

[NORMAL]: normally, select this option.

[TV MODE]: select if DVD VIDEO disc sound level is lower than TV program sound level. Thus you can hear sound at a lower volume clearly.

OUTPUT LEVEL

This setting allows you to attenuate the level of the signal output from the player's analog AUDIO OUT terminals.

Setting options

STANDARD, LOW

• If the sound output from the speaker is distorted, select [LOW].

OTHERS menu

RESUME

You can select the resume playback mode. see page 38 and 39 for details about the resume playback function.

Setting options

ON, OFF, DISC RESUME

- **[ON]:** when selected, the player can resume playback of the disc from the position where playback was last interrupted, if the disc is still in the disc tray.
- [OFF]: when selected, the resume function is deactivated.
- [DISC RESUME]: when selected, the player can resume playback of the last 30 discs played. The player retains a memory of the interrupted positions of the last 30 discs played, even though they have been removed from the disc tray.

ON SCREEN GUIDE

The player can display "on-screen guide" icons or characters on the picture, which show what is happening to the disc or the player.

Example of "on-screen guide" icons: \bigotimes_{1} , \bigotimes ,

Setting options

ON. OFF

[ON]: when selected, the on-screen guide is activated.

AUTO STANDBY

When the player is stopped for more than 30 minutes or 60 minutes, the player enters standby mode automatically.

Setting options 60, 30, OFF

AV COMPULINK MODE

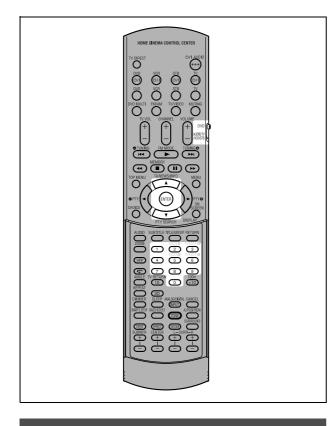
This item is provided for use in the future. Leave it as the default setting ("DVD 1").

PARENTAL LOCK

When this option is selected, pressing ENTER on the remote control unit brings up the PARENTAL LOCK display shown below. This allows you to restrict children from playing DVD VIDEO discs.

1	PARENTAL LOCK			0	2
	COUNTRY CO	DE	GB		7
	SET LEVEL		NONE		۳I
	PASSWORD				
	EXIT				
_					
	SELECT ENTER	USE ▲▼ TO SE To exit, press		TER TO CON	FIRM

• See page 57 for details about the parental lock setting.



Limiting playback by children

This function restricts playback of DVD VIDEO discs which contain violent (and other) scenes according to the level set by the user. For example, if a movie which includes violent scenes supports the parental lock feature, such scenes which you do not want to let children view can be cut or replaced with other scenes.

To set Parental Lock for the first time



1 Bring up the OTHERS menu.

2 Press ▲/▼ to move 応 to select [PARENTAL LOCK] then press ENTER.

The Parental Lock on-screen display appears on the TV screen.

[
[COUNTRY CODE GB
	SET LEVEL NONE
	PASSWORD
	EXIT
	SELECT SELECT. USE ENTER TO CONFIRM ENTER TO EXIT, PRESS CHOICE.

3 While ^I→ is pointing to [COUNTRY CODE], press ENTER to bring up the pull-down menu.

4 Press $\blacktriangle/\blacksquare$ to select the country code.

Select the code of the country whose standards were used to rate the DVD VIDEO disc content. See "Appendix A: Country/Area code list for Parental Lock" on page 59.

Counting Could GB FX C ISTLEVEL NONE GA GA PMSSWORD GD GE CXT OF OF OF

5 Press ENTER.

 \bigtriangledown moves to [SET LEVEL].

6 Press ENTER to bring up the pull-down menu.

In the pull-down menu, [NONE] and levels [8] to [1] are available.

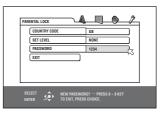
[NONE] does not restrict playback. Level [1] is the strictest level. Discs rated higher than the selected level are restricted.



7 Press ▲/▼ to select a desired parental lock level, then press ENTER.

K moves to [PASSWORD].

8 Press the numeric buttons (0 to 9) to enter a 4-digit password.

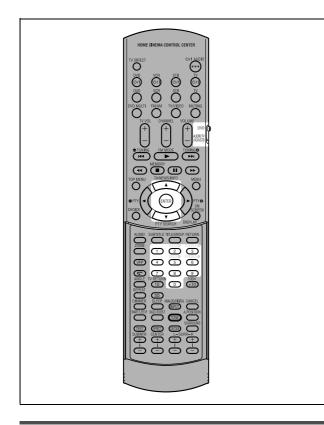


9 Press ENTER.

The parental lock feature is set.

Hint

If you want to change the password at step 8, do it before pressing $\ensuremath{\mathsf{ENTER}}$.



To change the settings



You can change the parental lock settings later.

1 Bring up the OTHERS menu.

2 Press ▲/▼ to move 応 to select [PARENTAL LOCK] and press ENTER.

The parental lock on-screen display appears on the TV screen.

3 While *I* is pointing to [PASSWORD], press the numeric buttons to enter your current 4-digit password then press ENTER.

 \bigtriangledown moves to [COUNTRY CODE] if you enter the correct password.

If you enter a wrong password, "WRONG! RETRY..." appears on the TV screen, and you cannot go to the next step. If you forget your password, enter "8888." The current password is deleted and you can set a new password.

5 Press ▲/▼ to select the desired option then press ENTER.

If you change the country code, you must reselect the parental lock level.

6 While ^I→ is pointing to [PASSWORD], press the numeric buttons to enter a 4-digit password.

The password entered in this step becomes the new password. If you want to keep the same password as before, enter the same password.

7 Press ENTER.

□ moves to [EXIT]. Pressing ENTER again returns to the [OTHERS] menu of the preference display.

NOTE

If you enter the wrong password more than 3 times in step 3 above, \Box moves to [EXIT] automatically and \blacktriangle/\forall do not work.

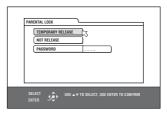
To temporarily release the Parental Lock



If the parental level is set to a strict value, some discs may not play at all.

When you insert such a disc and try to play it, the following parental lock on-screen display appears on the TV screen, asking you whether you want the parental lock to be temporarily released or not.

1 Press ▲/▼ to move
 to [TEMPORARY RELEASE], then press ENTER.



2 Press the numeric buttons (0 to 9) to enter your 4-digit password.

The parental lock is released, and the player starts playback. If you enter a wrong password, "WRONG! RETRY..." appears on the TV screen. Enter the correct password.

NOTE

When you enter the wrong password 3 times at step 2 above, \square moves to [NOT RELEASE] automatically and \blacktriangle/\forall do not work.

XV-N55SL Additional information

Appendix A: Country/Area code list for Parental Lock

(for page 57)

1 1 1	
AD	Andorra
AE	United Arab Emirates
AF	Afghanistan
AG	Antigua and Barbuda
AI	Anguilla
AL	Albania
AM	Armenia
AN	Netherlands Antilles
AO	Angola
AQ	Antarctica
AR	Argentina
AS	American Samoa
AT	Austria
AU	Australia
AW	Aruba
AZ	Azerbaijan
BA	Bosnia and Herzegovina
BB	Barbados
BD	Bangladesh
BE	Belgium
BF	Burkina Faso
BG	Bulgaria
BH	Bahrain
BI	Burundi
BJ	
BЛ	Benin
	Bermuda
BN	Brunei Darussalam
BO	Bolivia
BR	Brazil
BS	Bahamas
BT	Bhutan
BV	Bouvet Island
BW	Botswana
BY	Belarus
ΒZ	Belize
CA	Canada
CC	Cocos (Keeling) Islands
CF	Central African Republic
CG	Congo
СН	Switzerland
CI	Côte d'Ivoire
СК	Cook Islands
CL	Chile
СМ	Cameroon
CN	China
CO	Colombia
CR	Costa Rica
CU	Cuba
CV	Cape Verde
СХ	Christmas Island
CY	Cyprus
CZ	Czech Republic
DE	Germany
DJ	Djibouti
DK	Denmark
DM	Dominica
DO	Dominican Republic
DZ	Algeria
EC	Ecuador
EE	Estonia
EG	Egypt
EH	Western Sahara
ER	Eritrea
LIV	Linica

/ 11 0	
ES	Spain
ET	Ethiopia
FI	Finland
FJ	Fiji
FK	Falkland Islands
FM	Micronesia (Federated States of)
FO	Faroe Islands
FR	France
FX	France, Metropolitan
GA	Gabon
GB	United Kingdom
GD	Grenada
GE	Georgia
GF	French Guiana
GH	Ghana
GI	Gibraltar
GL	Greenland
GM	Gambia
GN	Guinea
GP	Guadeloupe
GQ	Equatorial Guinea
GR	Greece
GS	South Georgia and the South Sandwich
GT	Guatemala
GU	Guam
GW	Guinea-Bissau
GY	Guyana
ΗK	Hong Kong
ΗМ	Heard Island and
	McDonald Islands
ΗN	Honduras
HR	Croatia
HT	Haiti
HU	Hungary
ID	Indonesia
IE	Ireland
IL	Israel
IN	India Dritich Indian Occar
Ю	British Indian Ocean Territory
IQ	Iraq
IR	Iran (Islamic Republic of)
IS	Iceland
IT	Italy
JM	Jamaica
JO	Jordan
JP	Japan
KE	Kenya
KG	Kyrgyzstan
KH	Cambodia
KI	Kiribati
KM KN	Comoros Saint Kitts and Nevis
KN	Korea, Democratic
1/17	People's Republic of
KR	Korea, Republic of
KW	Kuwait
ΚY	Cayman Islands
ΚZ	Kazakhstan
LA	Lao People's Democratic Republic
LB	Lebanon
LC	Saint Lucia
20	

em	ai lock
LI	Liechtenstein
LK	Sri Lanka
LR	Liberia
LS	Lesotho
LT	Lithuania
LU	Luxembourg
LV	Latvia
LY	Libyan Arab Jamahiriya
MA	Morocco
MC	Monaco
MD	Moldova, Republic of
MG	Madagascar
MH	Marshall Islands
ML	Mali
MM	Myanmar
MN	Mongolia
MO	Macau
MP	Northern Mariana Islands
MQ	Martinique
MR	Mauritania
MS	Montserrat
MT	Malta
MU	Mauritius
MV	Maldives
MW	Malawi
MX	Mexico
MY	Malaysia
MZ	Mozambique
NA NC	Namibia New Caledonia
NE	
NF	Niger Norfolk Island
NG	Nigeria
NI	Nicaragua
NL	Netherlands
NO	Norway
NP	Nepal
NR	Nauru
NU	Niue
NZ	New Zealand
OM	Oman
PA	Panama
PE	Peru
PF	French Polynesia
PG	Papua New Guinea
PH	Philippines
PK	Pakistan
PL	Poland
PM	Saint Pierre and Miquelon
PN	Pitcairn
PR	Puerto Rico
PT	Portugal
PW	Palau
ΡY	Paraguay
QA	Qatar
RE	Réunion
RO	Romania
RU	Russian Federation
RW	Rwanda
SA	Saudi Arabia
SB	Solomon Islands
SC	Seychelles
SD	Sudan

SE	Sweden				
SG	Singapore				
SH	Saint Helena				
SI	Slovenia				
SJ	Svalbard and Jan Mayen				
SK	Slovakia				
SL	Sierra Leone				
SM	San Marino				
SN	Senegal				
SO	Somalia				
SR	Suriname				
ST	Sao Tome and Principe				
SV	El Salvador				
SY	Syrian Arab Republic				
SZ	Swaziland				
TC	Turks and Caicos Islands				
TD	Chad				
TF	French Southern				
	Territories				
TG	Тодо				
TH	Thailand				
ТJ	Tajikistan				
ΤK	Tokelau				
ТΜ	Turkmenistan				
ΤN	Tunisia				
TO	Tonga				
TP	East Timor				
TR	Turkey				
TT	Trinidad and Tobago				
ΤV	Tuvalu				
ΤW	Taiwan				
ΤZ	Tanzania, United Republic of				
UA	Ukraine				
UG	Uganda				
UM	United States Minor Outlying Islands				
US	United States				
UY	Uruguay				
UZ	Uzbekistan				
VA	Vatican City State (Holy See)				
VC	Saint Vincent and the Grenadines				
VE	Venezuela				
VG	Virgin Islands (British)				
VI	Virgin Islands (U.S.)				
VN	Vietnam				
VU	Vanuatu				
WF	Wallis and Futuna Islands				
WS	Samoa				
YE	Yemen				
ΥT	Mayotte				
YU	Yugoslavia				
ZA	South Africa				
ZM	Zambia				
ZR	Zaire				
ZW	Zimbabwe				

Appendix B: Table of languages and their abbreviations

(for pages 45 and 55)

AA	Afar	FA	Persian	KM	Cambodian	OM	(Afan) Oromo	SU	Sundanese
AB	Abkhazian	FI	Finnish	KN	Kannada	OR	Oriya	SV	Swedish
AF	Afrikaans	FJ	Fiji	KO	Korean (KOR)	PA	Panjabi	SW	Swahili
AM	Ameharic	FO	Faroese	KS	Kashmiri	PL	Polish	TA	Tamil
AR	Arabic	FY	Frisian	KU	Kurdish	PS	Pashto, Pushto	TE	Telugu
AS	Assamese	GA	Irish	KY	Kirghiz	PT	Portuguese	TG	Tajik
AY	Aymara	GD	Scots Gaelic	LA	Latin	QU	Quechua	TH	Thai
AZ	Azerbaijani	GL	Galician	LN	Lingala	RM	Rhaeto-Romance	ΤI	Tigrinya
BA	Bashkir	GN	Guarani	LO	Laothian	RN	Kirundi	ΤK	Turkmen
BE	Byelorussian	GU	Gujarati	LT	Lithuanian	RO	Rumanian	TL	Tagalog
BG	Bulgarian	HA	Hausa	LV	Latvian, Lettish	RU	Russian	ΤN	Setswana
BH	Bihari	HI	Hindi	MG	Malagasy	RW	Kinyarwanda	TO	Tongan
BI	Bislama	HR	Croatian	MI	Maori	SA	Sanskrit	TR	Turkish
BN	Bengali, Bangla	HU	Hungarian	MK	Macedonian	SD	Sindhi	TS	Tsonga
BO	Tibetan	ΗY	Armenian	ML	Malayalam	SG	Sangho	TT	Tatar
BR	Breton	IA	Interlingua	MN	Mongolian	SH	Serbo-Croatian	ΤW	Twi
CA	Catalan	IE	Interlingue	MO	Moldavian	SI	Singhalese	UK	Ukrainian
CO	Corsican	IK	Inupiak	MR	Marathi	SK	Slovak	UR	Urdu
CS	Czech	IN	Indonesian	MS	Malay (MAY)	SL	Slovenian	UZ	Uzbek
CY	Welsh	IS	Icelandic	MT	Maltese	SM	Samoan	VI	Vietnamese
DA	Danish	IW	Hebrew	MY	Burmese	SN	Shona	VO	Volapuk
DZ	Bhutani	JI	Yiddish	NA	Nauru	SO	Somali	WO	Wolof
EL	Greek	JW	Javanese	NE	Nepali	SQ	Albanian	XH	Xhosa
EO	Esperanto	KA	Georgian	NL	Dutch	SR	Serbian	YO	Yoruba
ET	Estonian	KK	Kazakh	NO	Norwegian	SS	Siswati	ZU	Zulu
EU	Basque	KL	Greenlandic	OC	Occitan	ST	Sesotho		

Appendix C: Digital output signal chart

(for page 56)

Disatura	Output					
Disc type	PCM ONLY	STREAM/PCM				
DVD with 48/44.1 kHz, 16/20/24 bit linear PCM	48/44.1 kHz, 16 bit, stereo linear PCM					
DVD with 96 kHz, 16/22/24 bit linear PCM	48kHz, 16 bit, stereo linear PCM (Down sampling)					
DVD with DTS	48kHz, 16 bit, stereo linear PCM DTS bitstream					
DVD with Dolby Digital	48 kHz, 16 bit, stereo linear PCM Dolby Digital bitstream					
DVD with MPEG Multichannel	48 kHz, 16 bit, stereo linear PCM MPEG bitstream		MPEG bitstream			
SVCD/Video CD/Audio CD	44.1 kHz, 16 bit, stereo linear PCM					
Audio CD with DTS	48kHz, 16 bit, stereo linear PCM DTS bitstream					
CD-R/RW with MP3/WMA	Linear PCM					

Appendix D: Glossary

Aspect ratio

A ratio which defines the shape of the rectangular picture in a TV. It is the width of the picture relative to the height. A conventional TV picture is 4:3 in aspect ratio.

Bitstream

The digital form of multichannel audio data (e.g., 5.1-channel) before it is decoded into its various channels.

Chapter/title

Chapter is the smallest division and title is the largest division on DVD VIDEO. A chapter is a division of a title and similar to a track for Video CD or Audio CD.

Component video

Video signals with three channels of separate information that makes up the picture. There are some types of component video, such as R/G/B and $Y/C_B(P_B)/C_R(P_R)$.

Composite video

A single video signal commonly used in most consumer video products that contains all luminance, color, and synchronization information.

Dolby Digital (AC3)

A six-channel system consisting of left, center, right, left rear, right rear and LFE (Low-Frequency Effect channel, for use with a sub-woofer) channels. All processing is done in the digital domain. Not all Dolby Digital discs contain six (5.1) channels of information.

Dolby Surround/Dolby Pro Logic

Dolby Surround records four channels of front and rear audio in two channels in a way that allows a decoder to recover the original four channels for playback. Because the audio is recorded in two channels, it can be played back naturally by a two-channel stereo system.

Dolby Pro Logic introduces directional circuits in decoder-side processing (increasing the level of specific channels and lowering the level of silent channels) for greater spatial perspective, and adds a center speaker used primarily for dialog. The result is enhanced channel separation.

Down-mix

Internal stereo mix of multichannel surround audio by a DVD player. The down-mix signals are output from stereo output connectors.

DTS

A Digital Surround audio encoding format configured with six (5.1) channels, similar to Dolby Digital. It requires a decoder, either in the player or in an external receiver. DTS stands for Digital Theater Systems.

Not all DTS discs contain six (5.1) channels of information.

Dynamic range

The difference between the loudest and softest sounds.

JPEG

A popular file format for still image compression and storage. JPEG stands for Joint Photographic Experts Group.

- There are three sub-types of the JPEG format as follows.
- baseline JPEG: used for digital cameras, the web, etc.
- progressive JPEG: used for the web
- lossless JPEG: an old type, rarely used now

Linear PCM audio

PCM stands for "pulse code modulation." Linear PCM is the usual method for digitally encoding audio without compression, and is used for the audio tracks on DVD VIDEO discs, Audio CDs, etc.

MP3

MP3 is an audio data compression format, which stands for MPEG-1 Audio Layer 3. Using MP3, you can achieve a data reduction of about 1:10.

MPEG

A family of Standards for compressing audio-visual infromation. "MPEG" standards include MPEG-1, MPEG-2 and MPEG-4. Video CD and MP3 are based on MPEG-1, while DVD is based on MPEG-2. MPEG stands for Moving Picture coding Experts Group.

MPEG Multichannel

This feature expands the 5.1 channel audio format recorded on the disc to a 7.1 channel format. The further expansion of the 5.1 channel audio makes it easy for you to reproduce the movie theater experience in your own home.

PAL (Phase Alternation by Line)

A color television system format used extensively in Western Europe.

PBC

PBC stands for "Playback control" and is a method of controlling disc play for Video CDs (VCD). You are able to interact with the disc through menus.

RGB

An abbreviation for Red, Green and Blue. Color monitors and color television sets display different hues by mixing these three colors.

S-video

A video signal which improves picture quality over standard composite connections. Used on Super VHS, DVD, high end TV monitors, etc.

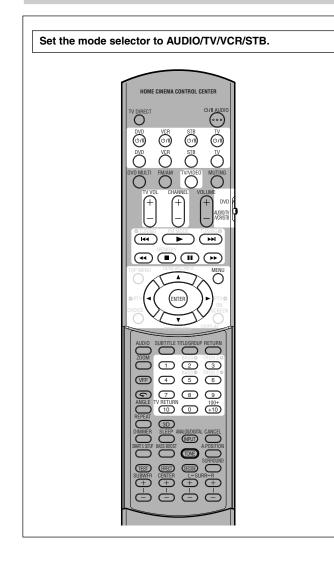
Track

The smallest division on SVCD, Video CD and Audio CD discs.

WMA

WMA is an abbreviation of "Windows Media Audio," and is an audio data compression format developed by Microsoft Corporation. Sound quality of data compressed using WMA is the same as that of MP3, though the WMA file size is smaller than that of MP3. You can use the remote control to operate not only this receiver but also other JVC products.

- Refer also to the manuals supplied for the other products.
 Some JVC VCRs can accept two types of the control signals—remote codes "A" and "B". This remote control can operate a VCR whose remote control code is set to "A."
- To operate other products, aim the remote control directly at the remote sensor on the target product.



TV

You can always perform the following operations:

TV (ා/:	Turn on or off the TV.		
TV VOL +/:	Adjust the volume on the TV.		
TV/VIDEO:	Change the input mode (Video input and TV tuner) on the TV.		

After pressing TV (source selecting button), you can perform the following operations on the TV.

CHANNEL +/:	Change the channel numbers.		
1 – 9, 0, +10 (100+):	Select the channel numbers.		
10 (TV RETURN):	Function as the TV RETURN button.		

VCR

You can always perform the following operations:

VCR (්/l:	Turn on or off the VCR.
After pressing \	/CR (source selecting button), you can perform the

After pressing VCR (source selecting button), you can perform the following operations on the VCR.

CHANNEL +/:	Change the channel numbers on the VCR.	
1 – 9, 0:	Select the channel numbers on the VCR.	
▶:	Start playback.	
■:	Stop playback.	
11:	Pause playback. To release it, press ►.	
>> :	Fast-wind a tape.	
44 :	Rewind a tape.	

STB

You can always perform the following operations:

After pressing STB (source selecting button), you can perform the following operations on the STB.

CHANNEL +/:	Change the channel numbers on the STB.
1 – 9, 0:	Select the channel numbers on the STB.

DVD player

You can always perform the following operations:

DVD (්/l:	Turn on or off the DVD player.

After setting the mode selector to "DVD" then pressing DVD (source selecting button), you can perform the following operations on the DVD Player.

▶:	Start playback.	
∎:	Stop playback.	
II:	Pause playback. To release it, press ►.	
►►I:	Skip to the beginning of the next chapter.	
44 :	Return to the beginning of the current (or previous) chapter.	
MENU:	Display or erase the menu screen.	
▲/▼/►/⊲:	Select an item on the menu screen.	
ENTER:	Enter a selected item.	

You can also use AUDIO, SUBTITILE, TITLE/GROUP, RETURN, ZOOM, VFP, , ANGLE, REPEAT, DIMMER, 3D, and numeric buttons for operating JVC DVD player.

See the instruction for the DVD player for details.

By changing the transmittable signals, you can use the remote control supplied for this unit to operate other manufacturers' equipment.

- Refer also to the manuals supplied with the other products.
- To operate those components with the remote control, first you need to set the manufacturers' codes each for the STB, VCR, and TV.
- After replacing batteries of the remote control, set the manufacturers' codes again.

Set the mode selector to AUDIO/TV/VCR/STB.

- Changing the transmittable signals for operating an STB
 - 1 Press and hold STB U/l.
 - 2 Press STB.
 - **3** Enter the manufacturer's code using buttons 1 9, and 0.
 - 4 Release STB 心儿

Now, you can perform the following operations on the STB.

STB ഗ്/I:	Turn on or off the STB.	
After pressing STB (source selecting button), you can perforr the following operations on the STB.		
CHANNEL +/:	Change the channel numbers on the STB.	
1 – 9, 0:	Select the channel numbers on the STB.	

5 Try to operate your STB by pressing STB 0/1.

When your STB turns on or off, you have entered the correct code.

If more than one codes are listed for your brand of STB, try each one until the correct one is entered.

Manufacturers' codes for STB

Manufacturer	Codes
JVC	01*, 02
AMSTRAD	03 – 06, 31
BT	01
CANAL STELLITE	20
CANAL +	20
D–BOX	24
ECHOSTAR	17 – 19, 21
FINLUX	11
FORCE	28
GALAXIS	27
GRUNDIG	07, 08
HIRSCHMANN	07, 17, 37
ITT NOKIA	11
JERROLD	16
KATHREIN	13, 14, 34
LUXOR	11
MASCOM	32
MASPRO	13
NOKIA	24, 26, 33
PACE	10, 25, 31
PANASONIC	15
PHILIPS	09, 23
RFT	12
SABA	35
SAGEM	22, 29
SALORA	11
SELECTOR	29
SKYMASTER	12, 36
THOMSON	35
TPS	22
TRIAX	30
WISI	07

* Initial setting

Manufacturers' codes are subject to change without notice. If they are changed, this remote control cannot operate the equipment.

Changing the transmittable signals for operating a VCR

- 1 Press and hold VCR U/I.
- 2 Press VCR.
- **3** Enter the manufacturer's code using buttons 1 9, and 0.
- 4 Release VCR ථ/l.

Now, you can perform the following operations on the VCR.

VCR 心/I:	Turn on or off the VCR.	
After pressing VCR the following operati	(source selecting button), you can perform ons on the VCR.	
CHANNEL +/:	Change the channel numbers on the VCR.	
1 – 9, 0:	Select the channel numbers on the VCR.	
▶:	Start playback.	
■:	Stop playback.	
11:	Pause playback. To release it, press ►.	
▶▶:	Fast-wind a tape.	
44 :	Rewind a tape.	

5 Try to operate your VCR by pressing VCR 0/1.

When your VCR turns on or off, you have entered the correct code.

If more than one codes are listed for your brand of VCR, try each one until the correct one is entered.

Codes		
01*		
02, 36		
03, 16		
04		
03, 05, 16		
34		
05		
03, 16		
06		
07		
08, 09		
05, 10, 11		
04, 05		
12 – 15		
16		
17 – 19, 31		
20		
21		
05, 22		
05		
17 – 19, 23, 31		
24, 25		
03, 16		
26, 27		
07		
28 – 30, 35		
17 – 19, 31, 32		
33		

Manufacturers' codes for VCR

Changing the transmittable signals for operating a TV

- 1 Press and hold TV 心儿
- 2 Press TV.
- **3** Enter the manufacturer's code using buttons 1 9, and 0.

4 Release TV 아/l.

Now, you can perform the following operations on the TV.

тv ტ/I:	Turn on or off the TV.	
TV VOL +/-:	Adjust the volume.	
TV/VIDEO:	Change the input mode (either TV or VIDEO).	

After pressing TV (source selecting button), you can perform the following operations on the TV.

CHANNEL +/-:	Change the channel numbers.	
1 – 9, 0:	Select the channel numbers.	

5 Try to operate your TV by pressing TV 0/l.

When your TV turns on or off, you have entered the correct code.

If more than one codes are listed for your brand of TV, try each one until the correct one is entered.

Manufacturers' codes for TV

Manufacturer	Codes
JVC	01*
AKAI	02, 05
BLAUPANKT	03
DAEWOO	09, 30, 31
FENNER	04, 30, 31
FISHER	05
GRUNDIG	06
HITACHI	07, 08
IRRADIO	02, 05
MAGNAVOX	09
MITSUBISHI	10, 32
MIVER	03
NOKIA	11, 33
NORDMENDE	12, 13, 17, 25 – 27
ORION	14
PANASONIC	15, 16
PHILIPS	09
SABA	12, 13, 17, 25 – 27
SAMSUNG	09, 18, 31
SANYO	05
SCHNEIDER	02, 05
SHARP	19
SONY	20 – 24
TELEFUNKEN	12, 13, 17, 25 – 27
THOMSON	12, 13, 17, 25 – 27, 29
TOSHIBA	28

* Initial setting

Manufacturers' codes are subject to change without notice. If they are changed, this remote control cannot operate the equipment.

Troubleshooting

Use this chart to help you solve daily operational problems. If there are any problems you cannot solve, contact your JVC's service center.

RX-ES1SL

PROBLEM	POSSIBLE CAUSE	SOLUTION	
The power does not come on.	The power cord is not plugged in.	Plug the power cord into an AC outlet.	
No sound from speakers.	Speaker signal cables are not connected.	Check speaker wiring and reconnect if necessary.	
	An incorrect source is selected.	Select the correct source.	
	Muting is activated.	Press MUTING to cancel the mute.	
	An incorrect input mode (analogue or digital) is selected.	Select the correct input mode (analogue or digital).	
	Connections are incorrect.	Check connections.	
	TV Direct is activated.	Deactivate TV Direct (see pages 13 and 20).	
Buttons cannot be used.	TV Direct is activated.	Deactivate TV Direct (see pages 13 and 20).	
Sound from one speaker only.	The balance is set to one extreme.	Adjust the balance properly (see page 21).	
The STANDBY lamp lights up after turning on the power, but soon the unit turns off (into standby mode).	Speakers are overloaded because of high volume.	 Press STANDBY/ON 心/I on the front panel to turn off the unit. Stop the playback source. Turn on the unit again, and adjust the volume. 	ral
	Speakers are overloaded because of a short circuit at the speaker terminals.	Check the speaker wiring. If speaker wiring is not short-circuited, contact your dealer.	General
	The unit is overloaded because of a high voltage.	Consult your dealer after unplugging the power cord.	
"OVER HEAT" flashes on the display, then the unit is turned off.	The unit is overheated because of high volume or long time usage.	Turn on the unit again. If the unit turns off soon, consult your dealer after unplugging the power cord.	
Remote control does not operate as you intend.	The remote control is not ready for your intended operation.	Press a source selecting button or TONE first, then press the buttons you want to use. (See pages 21, 62, 63 and 64.)	
Remote control does not work.	There is an obstruction hiding the remote sensor on the unit.	Remove the obstruction.	
	Batteries are weak.	Replace batteries.	
	The mode selector is set to the incorrect position.	Set the mode selector to the proper position.	
Bass sound is reinforced too much when listening in stereo.	Appropriate bass level is not selected.	Adjust audio position level (see page 22).	

	PROBLEM	POSSIBLE CAUSE	SOLUTION
d/DSP	Surround mode cannot be selected.	Surround mode is not available on the software being played back, or only the front speakers are set for use.	Play not multi-channel software or check the speaker setting.
Surround/DSP	DSP mode cannot be selected.	DSP mode is not available on the software being played back, or only the front speakers are set for use.	Play back Linear PCM or analogue software or check the speaker setting.
	Continuous hiss or buzzing during FM reception.	Incoming signal is too weak.	Connect an outdoor FM antenna or contact your dealer.
		The station is too far away.	Select a new station.
FM/AM		An incorrect antenna is used.	Check with your dealer to be sure you have the correct antenna.
		Antennas are not connected properly.	Check connections.
	Occasional cracking noise during FM reception.	Ignition noise from automobiles.	Move the antenna farther from automobile traffic.

NOTE

When you use the digital coaxial connection, the sounds may be intermittently distorted by the outside noise such as a lightning discharge but they will restore automatically. This is not a malfunction.

XV-N55SL

PROBLEM	POSSIBLE CAUSE	SOLUTION	
The power does not come on.	Power plug is not inserted securely.	Plug in securely.	Power
"REGION CODE ERROR!" is shown on the TV screen.	Region code of the inserted disc does not match the player.	Check the region code of the disc printed on the disc jacket.	
Operation is not possible.	Microcomputer malfunction due to lightning or static electricity.	Turn off the power and unplug the power cord, then connect the power cord again.	
	Moisture condensation caused by a sudden change of temperature or humidity.	Turn off the power, then turn it on a few hours later.	Operation
	The disc does not allow the operation, or an unplayable disc is inserted.	Check and replace the disc (see page 35).	
[LOCK] is displayed on the display window and the disc tray does not open.	When you press ▲ while pressing down ■ on the player in standby mode, the tray lock function is activated.	The disc tray cannot be opened or closed in this status. To release this status, press \triangle while pressing down \blacksquare on the player in standby mode.	
Picture is noisy.	The player is connected to a VCR directly and the copyguard function is activated.	Connect the player so that the picture signal flows directly to the TV.	
	With some discs, the picture may be blurred when [PICTURE SOURCE] is set to [FILM] or [AUTO].	Set [PICTURE SOURCE] to [VIDEO (NORMAL)] or [VIDEO (ACTIVE)].	
Color and brightness do not display correctly.	Multiple devices are connected using multiple connectors; the SCART connector, the S-VIDEO connector and composite connector.	Connect only one cable to the connector you want to use.	Picture
Picture is colorless when connecting a TV to the composite video out jack of the player.	VIDEO SIGNAL SELECTOR on the rear is set to "Y/C."	Set the VIDEO SIGNAL SELECTOR on the rear to "RGB/COMP."	
No picture is appears when connecting a TV to the S-VIDEO output of the player.	VIDEO SIGNAL SELECTOR on the rear is set to "RGB/COMP."	Set the VIDEO SIGNAL SELECTOR on the rear to "Y/C."	
DVD VIDEO disc playback sound level is lower than TV broadcast sound level.	[D.RANGE CONTROL] preference is set to other than [TV MODE].	Set the [D.RANGE CONTROL] preference to [TV MODE] (see page 56).	Audio
Analog audio output is distorted.	[OUTPUT LEVEL] preference is set to [STANDARD]	Set the [OUTPUT LEVEL] preference to [LOW] (see page 56).	Aue
No sound comes out.	MP3/WMA disc is recorded with the "packet writing (UDF format)."	It cannot be played.	
Files (tracks) are not played in the recorded order.		This player plays the files in the alphabetic order. So, the playback order can vary.	MP3/WMA
WMA files cannot be played back.	The file is copy protected.	The player cannot play copy protected files.	MP3
	The file is recorded with a bit rate under 48 kbps.	The player does not support such WMA files.	

Specifications

RX-ES1SL

Amplifier

Output Power At stereo operation	1:	
Front channels:	100 W per cha driven into 8 Ω	annel, min. RMS, both channels 2 at 1 kHz with no more than nonic distortion. (IEC268-3)
At surround operat	ion:	
Front channels:		annel, min. RMS, driven into vith no more than 0.8% total prtion.
Center channel:		MS, driven into 8 Ω at 1 kHz, han 0.8% total harmonic
Surround channels	: 100 W per cha	annel, min. RMS, driven into with no more than 0.8% total ortion.
Audio		
Audio Input Sensiti DVD, DVD MU	vity/Impedance LTI, STB, VCR,	
Audio Input (DIGIT. Coaxial: DIGIT Optical: DIGIT.	,	–21 dBm to –15 dBm
		(660 nm ±30 nm) olby Digital, and DTS Digital cy—32 kHz, 44.1 kHz, 48 kHz).
Audio Output Leve		250 mV
Signal-to-Noise Ra DVD MULTI:	tio ('66 IHF/DIN	l): 87 dB/62 dB
Frequency Respon DVD, STB, VC		20 Hz to 20 kHz (±1 dB)
Tone Control: Bass (100 Hz):	:	±10 dB ±2 dB
Treble (10 kHz):	±10 dB ±2 dB
Bass Boost:		+4 dB \pm 1 dB at 100 Hz

Video

Video Input Sensitivity/Impedance (1 kHz): Composite video:DVD, STB, VCR:	
Composite video.DVD, STB, V	1 V(p-p)/75 Ω
S-VIDEO:DVD, STB, VCR:	1 V(p p)//0 22
(Y:luminance):	1 V(p-p)/75 Ω
(C:chrominance):	0.286 V(p-p)/75 Ω
RGB:DVD, STB, VCR:	0.7 V(p-p)/75 Ω
Video Output Level/Impedance (1 k	(Hz):
Composite video:VCR, TV:	1 V(p-p)/75 Ω
S-VIDEO:VCR, TV:	
(Y:luminance):	1 V(p-p)/75 Ω
(C:chrominance):	0.286 V(p-p)/75 Ω
RGB:TV:	0.7 V(p-p)/75 Ω
Signal-to-Noise Ratio (S/N):	45 dB
Synchronize:	Negative

FM tuner (IHF)

Tuning Range:	87.50 MHz to 108.00 MHz
Usable Sensitivity: Monaural:	17.0 dBf (1.95 μV/75 Ω)
50 dB Quieting Sensitivity: Monaural: Stereo:	21.3 dBf (3.2 μV/75 Ω) 41.3 dBf (31.5 μV/75 Ω)
Stereo Separation at REC OUT:	35 dB at 1 kHz

AM (MW) tuner

Tuning Range:	
MW:	522 kHz to 1 629 kHz

General

Power Requirements:	AC 230V \sim , 50 Hz
Power Consumption:	105 W (at operation) 2 W (in standby mode)
Dimensions (W x H x D):	435 mm x 69.5 mm x 330.5 mm
Mass:	6.6 kg

XV-N55SL

General

Readable discs:	DVD VIDEO, DVD-R (Video format), DVD- RW (Video format), +RW (Video format), SVCD, Video CD, Audio CD (CD-DA), MP3/ WMA format, JPEG, CD-R/RW (CD-DA, SVCD, Video CD, MP3/WMA format, JPEG)
Video format:	PAL

Other

Power requirements: AC 230 V \sim , 50 Hz

Power consumption:

12 W (POWER ON) 0.7 W (STANDBY mode)

Mass: 2.1 kg

Dimensions (W X H X D) : 435 mm X 45 mm X 270.5 mm

Video outputs

VIDEO OUT (pin jack):

1.0 V(p-p)/75 Ω

S-VIDEO OUT (S jack): Y Output: 1.0 V(p-p)/75 Ω C Output: 286 mV(p-p)/75 Ω

RGB Output: 700 mV(p-p)/75 Ω

Horizontal resolution:

500 lines or more

Audio outputs

ANALOG OUT (pin jack): 2.0 Vrms (10 k Ω)

DIGITAL OUT (COAXIAL): 0.5 V(p-p) (75 Ω termination)

DIGITAL OUT (OPTICAL): -21 dBm to -15 dBm (peak)

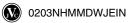
Audio characteristics

Frequency response CD (sampling frequency 44.1 kHz): 2 Hz to 20 kHz	
DVD (sampling frequency 48 kHz): 2 Hz to 22 kHz (4 Hz to 20 kHz for DTS and Dolby Digital bitstream signals)	
DVD (sampling frequency 96 kHz): 2 Hz to 44 kHz	
Dynamic range:	16 bit: More than 98 dB 20/24 bit: More than 100 dB
Wow and flutter:	Unmeasurable (less than + 0.002%)
Total harmonic distortion: less than 0.006%	

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