JVC

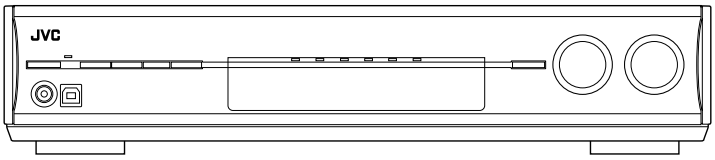
English

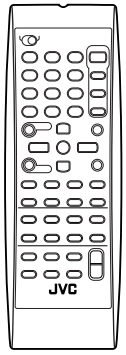
中文

AUDIO / VIDEO CONTROL RECEIVER

AV功率放大器（带收音）

RX-D201S





DOLBY DIGITAL • EX PRO LOGIC IIx

dts 96/24 ES NEO:6

AV COMPU LINK

INSTRUCTIONS

使用说明书

LVT1320-009A
[US, UN]

Warnings, Cautions, and Others
警告，注意及其他须知事项

Caution—⏻/I STANDBY/ON button!
Disconnect the mains plug to shut the power off completely.
The ⏻/I STANDBY/ON button in any position does not disconnect the mains line. The power can be remote controlled.

注意—⏻/I STANDBY/ON 开关!
想要完全关闭电源，须将电源插头从插座上拔下。
无论 ⏻/I STANDBY/ON 键处于何种位置，主电路仍旧没有关闭。电源开关可用遥控器进行控制。

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.

注意
为了减少触电，火灾等危险：
1．请勿擅自卸下螺丝钉，盖子或机壳。
2．请勿让本机受雨淋或置潮湿环境中。

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.

注意
- 切勿赌塞通风眼或孔。
  （如果通风眼或孔被报纸或布等物赌塞，热量将无法散出。）
- 切勿在机体上放置任何裸露的火源，如点燃的蜡烛。
- 想要丢弃电池时，必须考虑环保问题以及严格遵守当地关于处理废旧电池的有关法律规定或条例。
- 切勿让本机受雨淋，受潮湿，落上或溅上水滴；亦勿在机体的上面放置盛满液体的容器，如花瓶。

Caution: Proper Ventilation
To avoid risk of electric shock and fire and to protect from damage.
Locate the apparatus as follows:

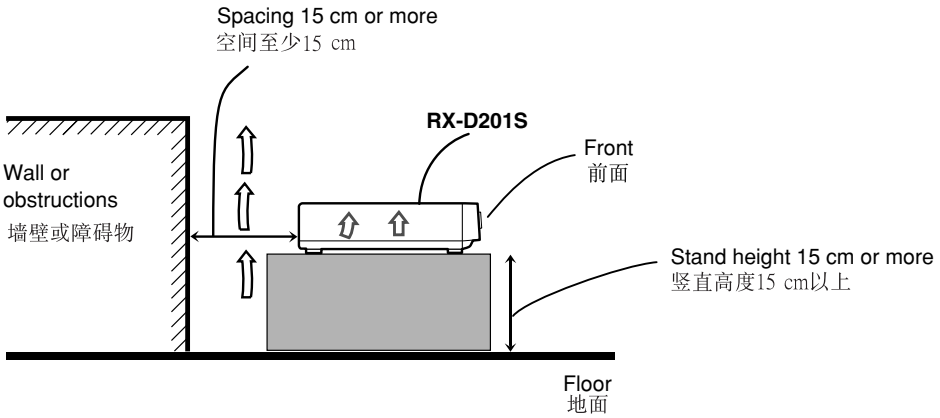
Front:	No obstructions open spacing.
Sides:	No obstructions in 10 cm from the sides.
Top:	No obstructions in 10 cm from the top.
Back:	No obstructions in 15 cm from the back.
Bottom:	No obstructions, place on the level surface.

In addition, maintain the best possible air circulation as illustrated.

注意： 正确的通风方法
为了防止触电、火灾以及避免损坏，
按如下要求放置机器：

前面：	留下空间不要放置障碍物 。
侧面：	侧面的10 cm之内不要放置障碍物 。
上面：	上面的10 cm之内不要放置障碍物 。
背面：	背面的15 cm之内不要放置障碍物 。
底部：	不要放置障碍物，水平放置 。

此外、如图所示，尽可能保持最佳的空气循环 。



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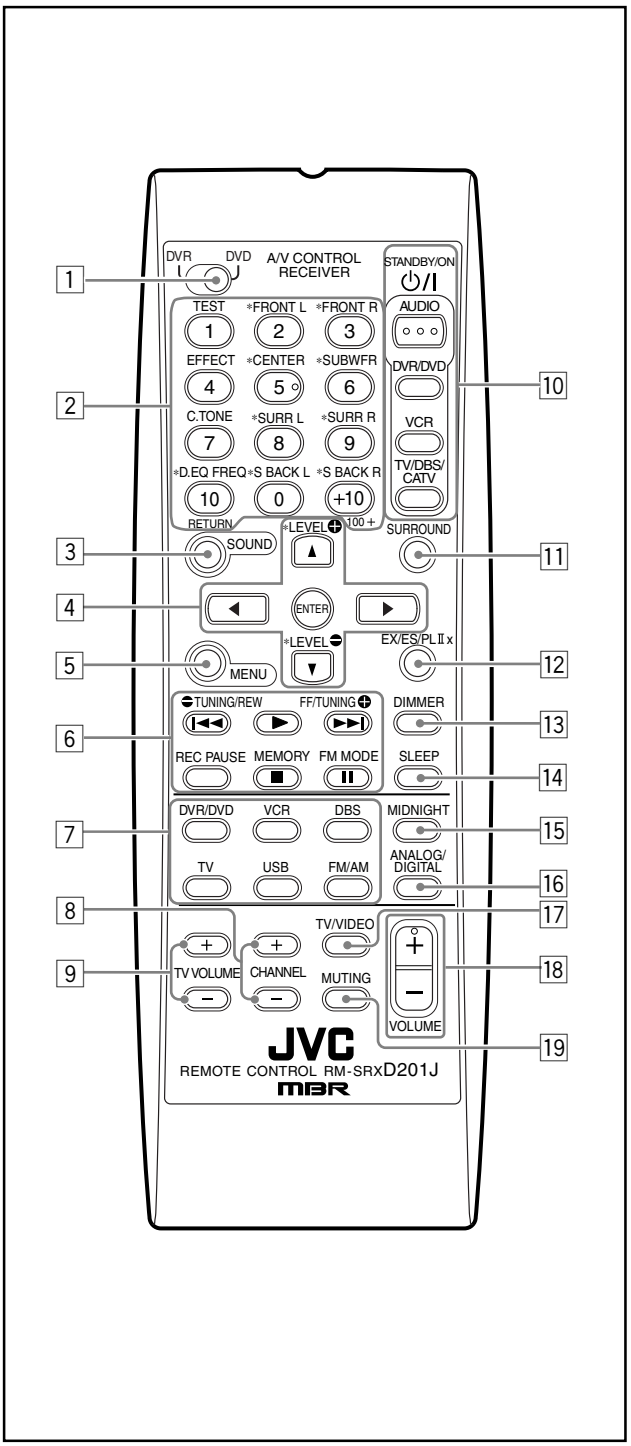
Parts identification



Remote control

See pages in parentheses for details.

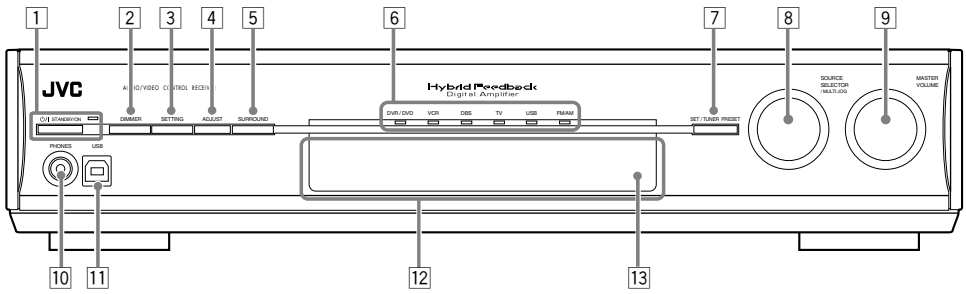
1. DVR/DVD mode selector (35, 38)
2. • Numeric buttons (26, 34 – 38)
   1 – 10, 0, +10, 100+
   • Adjusting buttons for speaker and subwoofer output level and sound adjustment (22)
   TEST, FRONT L, FRONT R, EFFECT, CENTER, SUBWFR, C. TONE, SURR L, SURR R, D. EQ FREQ, S BACK L, S BACK R
   • RETURN button (34)
3. SOUND button (22 – 24)
4. • Operating buttons for DVD recorder or DVD player* cursor buttons (►, ◄, ▲, ▼), ENTER (35, 38)
   • Adjusting buttons for speakers and subwoofer output level and D. EQ FREQ level (22)
   LEVEL⊕, LEVEL⊖
5. MENU button for DVD recorder or DVD player* (35, 38)
6. • Operating buttons for video components (34, 35, 37, 38)
   ⏮, ►, ⏭, ■, ❚❚, REW, FF, REC PAUSE
   • Operating buttons for tuner (25, 26)
   ⊖ TUNING, TUNING ⊕, MEMORY, FM MODE
7. Source selecting buttons (12, 25, 26, 34 – 38)
   DVR/DVD, VCR, DBS, TV, USB, FM/AM
8. CHANNEL +/– buttons (34 – 38)
9. TV VOLUME +/– buttons (34, 36)
10. STANDBY/ON ⏻/I buttons (12, 34 – 38)
    AUDIO, DVR/DVD, VCR, TV/DBS/CATV
11. SURROUND button (31)
12. EX/ES/PLIIx button (18)
13. DIMMER button (14)
14. SLEEP button (14)
15. MIDNIGHT button (19)
16. ANALOG/DIGITAL button (12)
17. TV/VIDEO button (34, 36)
18. VOLUME +/– button (13)
19. MUTING button (14)

* These buttons can be used for operating a JVC DVD recorder or DVD player with the mode selector set to “DVR” or “DVD” (see page 35).
If these buttons do not function normally, use the remote control supplied with your DVD recorder or DVD player. Refer also to the manuals supplied with the DVD recorder or DVD player for details.

- **When operating a DVD recorder (for JVC products ONLY), set the mode selector (1) to “DVR.”**
- **When operating a DVD player, set the mode selector (1) to “DVD.”**

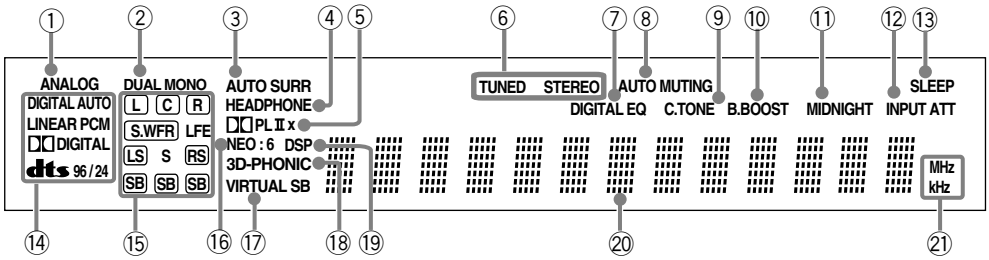
See pages in parentheses for details.

Front panel



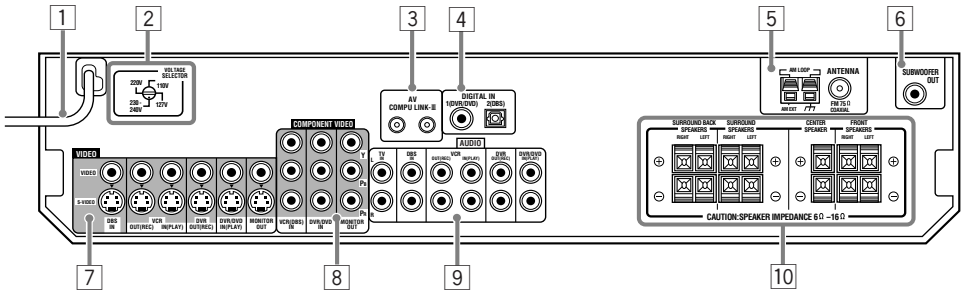
1 ⏻/I STANDBY/ON button and standby lamp (12, 25)
2 DIMMER button (14)
3 SETTING button (15, 17, 25)
4 ADJUST button (21, 25)
5 SURROUND button (31)
6 Source lamps
DVR/DVD, VCR, DBS, TV, USB, FM/AM
7 • SET button (15, 17, 21)
• TUNER PRESET button (26)
8 • SOURCE SELECTOR (12, 26)
• MULTI JOG (15, 17, 21, 26, 31)
9 MASTER VOLUME control (13)
10 PHONES jack (13)
11 USB terminal (10)
12 Display window (see below)
13 Remote sensor (4)

Display window



① ANALOG indicator (13)
② DUAL MONO indicator (19)
③ AUTO SURR (surround) indicator (31)
④ HEADPHONE indicator (13, 28)
⑤ PL II and PL IIx indicator (27 – 29)
⑥ Tuner operation indicators (25)
TUNED, STEREO
⑦ DIGITAL EQ indicator (22)
⑧ AUTO MUTING indicator (26)
⑨ C.TONE indicator (24)
⑩ B.BOOST indicator (23)
⑪ MIDNIGHT indicator (19)
⑫ INPUT ATT (attenuate) indicator (23)
⑬ SLEEP indicator (14)
⑭ Digital signal format indicators (13, 27, 28)
DIGITAL AUTO, LINEAR PCM, DIGITAL, dts, 96/24
⑮ Signal and speaker indicators (14)
⑯ NEO:6 indicator (28)
⑰ VIRTUAL SB indicator (30)
⑱ 3D-PHONIC indicator (28, 29)
⑲ DSP indicator (28, 29)
⑳ Main display
㉑ Frequency unit indicators
MHz (for FM stations), kHz (for AM stations)

Rear panel



1 Power cord (11)
2 VOLTAGE SELECTOR (4)
3 AV COMPU LINK-III terminals (32)
4 DIGITAL IN terminals (10)
• Coaxial: 1(DVR/DVD)
• Optical: 2(DBS)
5 ANTENNA terminals (5)
6 SUBWOOFER OUT jack (6)
7 VIDEO jacks (7 – 9)
VIDEO (composite video) jacks, S-VIDEO jacks
• Input: DBS IN, VCR IN (PLAY), DVR/DVD IN (PLAY)
• Output: VCR OUT (REC), DVR OUT (REC), MONITOR OUT
8 COMPONENT VIDEO (Y, PB, PR) jacks (7 – 9)
VCR (DBS) IN, DVR/DVD IN, MONITOR OUT
9 AUDIO jacks (7 – 9)
• Input: TV IN, DBS IN, VCR IN (PLAY), DVR/DVD IN (PLAY)
• Output: VCR OUT (REC), DVR OUT (REC)
10 Speakers terminals (6)
SURROUND BACK SPEAKERS, SURROUND SPEAKERS, CENTER SPEAKER, FRONT SPEAKERS

Getting started

Before Installation

General precautions

- Be sure your hands are dry.
- Turn the power off to all components.
- Read the manuals supplied with the components you are going to connect.

Locations

- Install the receiver in a location that is level and protected from moisture and dust.
- The temperature around the receiver must be 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 receiver and the TV.

Handling the receiver

- Do not insert any metal object into the receiver.
- Do not disassemble the receiver or remove screws, covers, or cabinet.
- Do not expose the receiver to rain or moisture.
- 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.
- 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.

The receiver has a built-in cooling fan which operates while the receiver is turned on. Be sure to leave enough ventilation to obtain sufficient cooling effect.

CAUTION:

Do not connect the AC power plug to the wall outlet until all connections are completed.

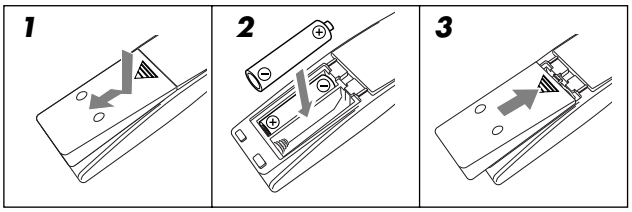
Checking the supplied accessories

Check to be sure you have all of the following supplied accessories. If anything is missing, contact your dealer immediately.

- Remote control (× 1)
- Batteries (× 2)
- AM loop antenna (× 1)
- FM antenna (× 1)
- AC plug adaptor (× 1)

Putting batteries in the remote control

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



1 Press and slide the battery cover on the back of the remote control.

2 Insert batteries.

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

3 Replace the cover.

If the range or effectiveness of the remote control decreases, replace the batteries. Use two R6(SUM-3)/AA(15F) type dry-cell batteries.

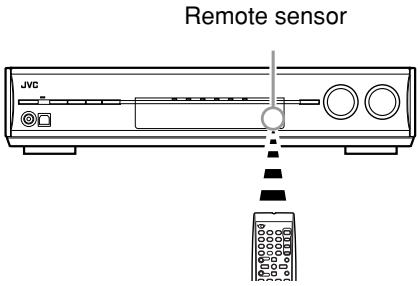
- Supplied butteries are for initial setup. Replace for continued use.

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.

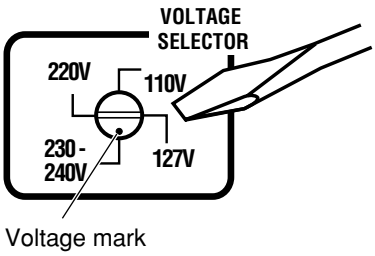


Setting the voltage selector

Before connections, always do the following first if necessary.

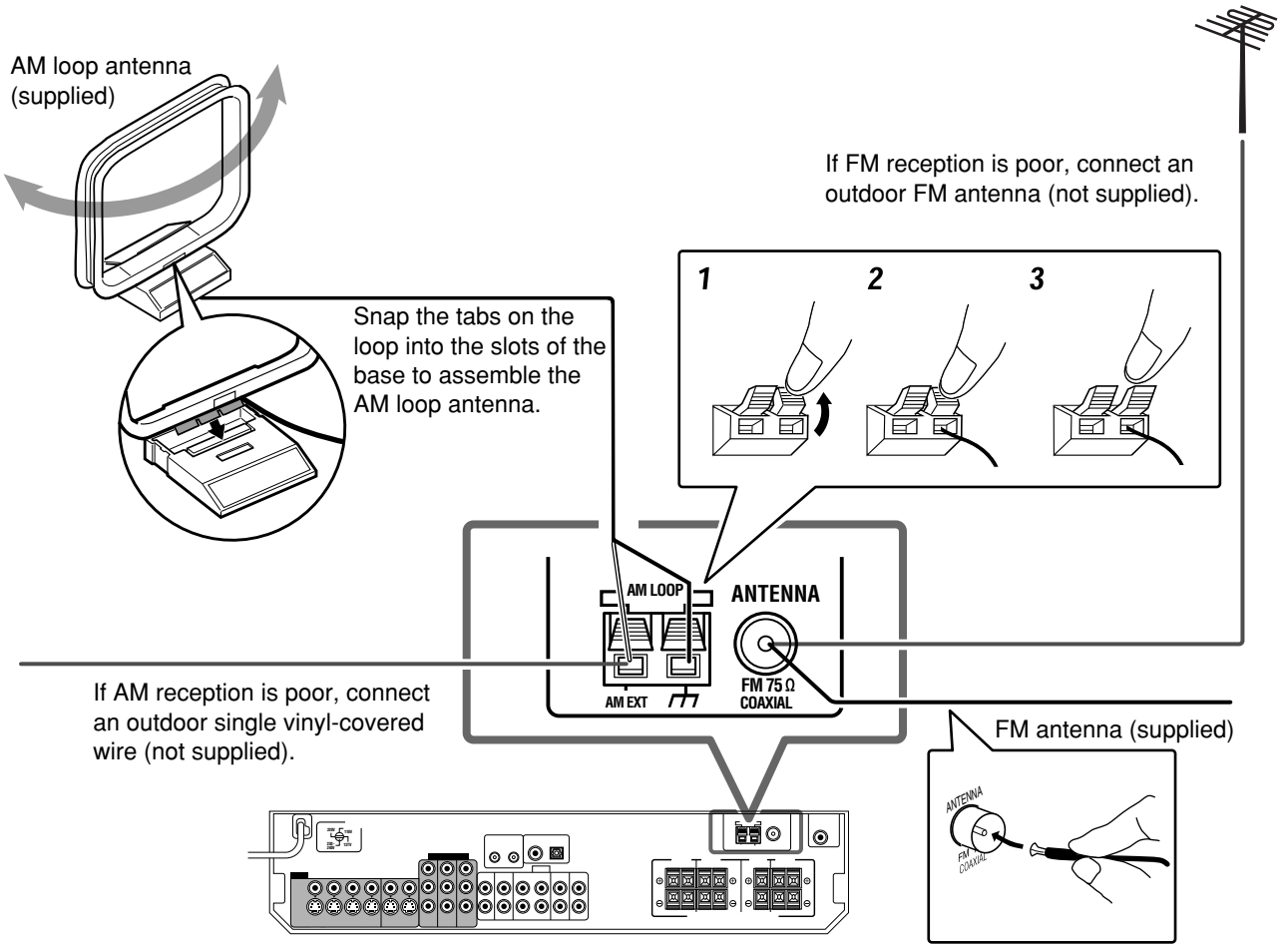
Select the correct voltage in VOLTAGE SELECTOR on the rear of the receiver by using a screw driver.

- Check to be sure if the voltage mark is set to the voltage for your area where this unit plugs in.



Connecting the FM and AM antennas

Do not connect the AC power plug to the wall outlet until all connections are completed.



AM antenna connection

Connect the AM loop antenna supplied to the AM LOOP terminals. Connect the white cord to the AM EXT terminal, and connect the black cord to the ⏚ 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 loop antenna connected.

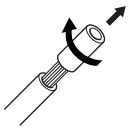
FM antenna connection

Connect the FM antenna supplied to the FM 75 Ω COAXIAL terminal as a 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

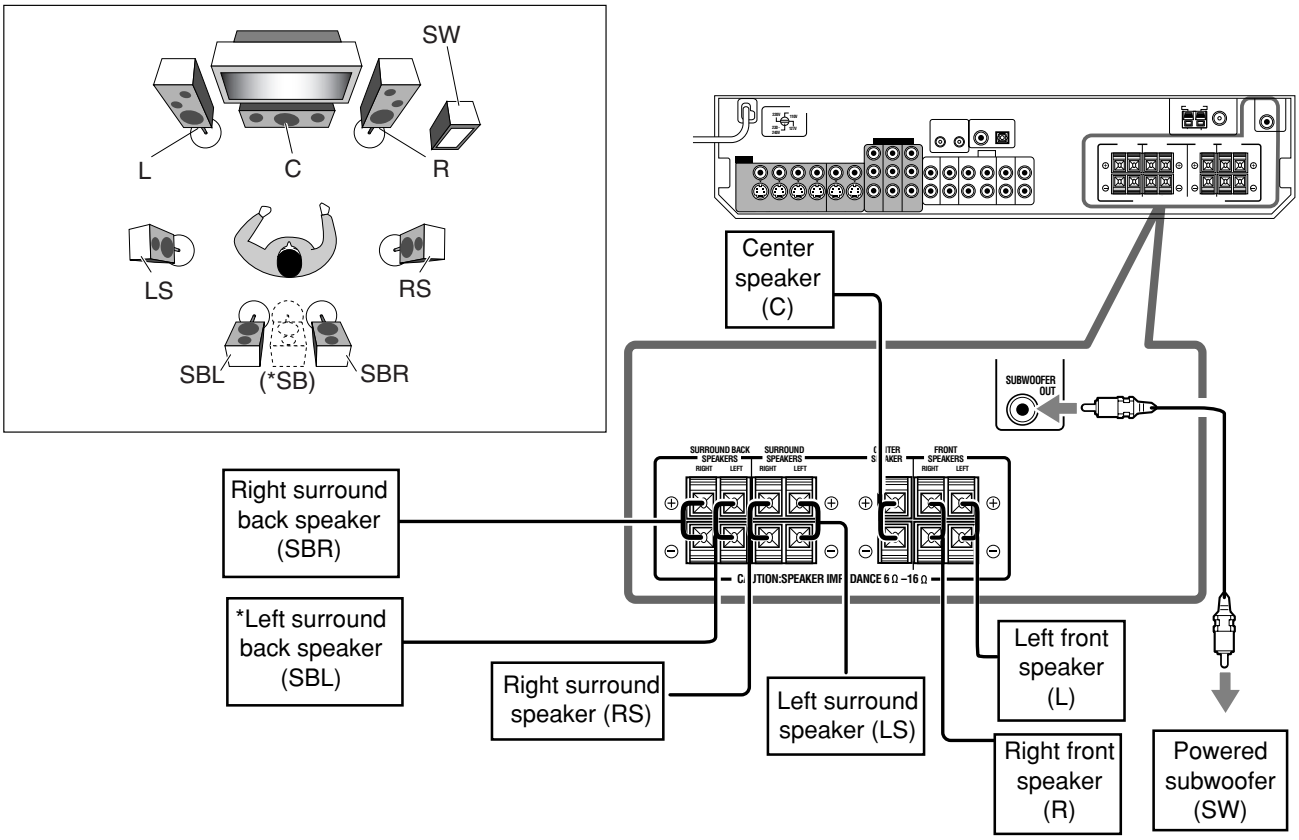
- If the AM loop antenna wire is covered with vinyl, remove the vinyl while twisting it as shown on the right.
- Make sure the antenna conductors do not touch any other terminals, connecting cords and power cord. This could cause poor reception.



Connecting the speakers

Do not connect the AC power plug to the wall outlet until all connections are completed.

Speaker Layout Diagram

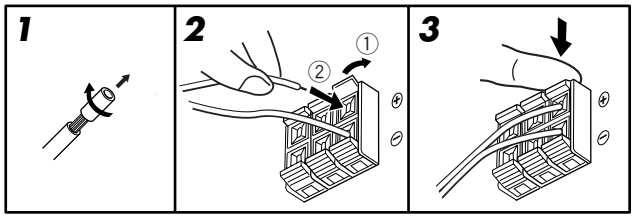


CAUTIONS:

- Use speakers with the SPEAKER IMPEDANCE indicated by the speaker terminals (6 Ω – 16 Ω).
- DO NOT connect more than one speaker to one speaker terminal.

Connecting the speakers

Turn off all components before making connections.



1 **Twist and remove the insulation at the end of each speaker cord.**

2 **Open the terminal (①), then insert the speaker cord (②).**

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

3 **Close the terminal.**

***When using a single speaker for the surround back speaker**

You can enjoy the surround sound by one surround back speaker. When using one surround back speaker,
– set "SB OUT" to "<1SPK>" (see page 17) and
– connect the surround back speaker to the left surround back speaker terminal. **(No sound comes from the speaker if you connect it to the right surround back speaker terminal.)**

Connecting the powered subwoofer

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

After connecting all the speakers and/or a subwoofer, set the speaker setting information properly to obtain the best possible surround effect. For details, see pages 15 to 19.

NOTE

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

Connecting video components

Do not connect the AC power plug to the wall outlet until all connections are completed.

This receiver is equipped with the following video terminals—composite video, S-video, and component video terminals.

- If your video components have S-video (Y/C-separation) and/or component video (Y, PB, PR) jacks, connect them using an S-video cable (not supplied) or component video cable (not supplied). By using these terminals, you can get a better picture quality in the order:

Component > S-video > Composite

IMPORTANT:

The video signals from one type of these input jacks are transmitted only through the video output jacks of the same type. Therefore, if a recording video component and a playing video component are connected to the receiver through the video terminals of different type, you cannot record the picture. In addition, if the TV and a playing video component are connected to the receiver through the video terminals of different type, you cannot view the playback picture on the TV.

Turn off all components before making connections.

- When you connect other components, refer also to their manuals.

DO NOT use a TV through a VCR or a TV with a built-in VCR; otherwise, the picture may be distorted.

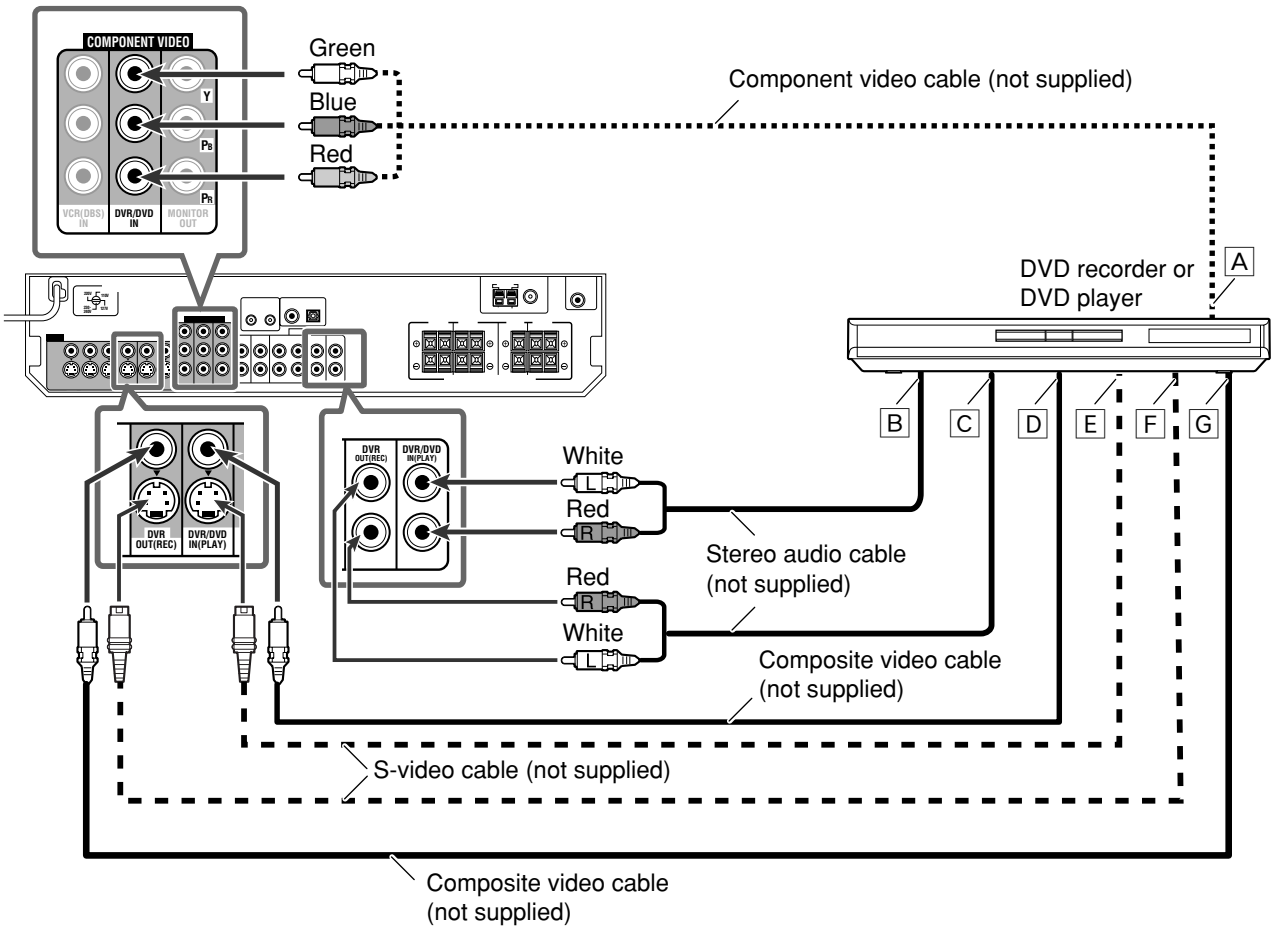
CAUTION:

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.

If your video components have AV COMPU LINK terminal

See also page 32 for detailed information about the connection and the AV COMPU LINK remote control system.

■ Connecting a DVD recorder or DVD player with its stereo output jacks:



NOTES

- When connecting a DVD recorder or DVD player to the component video input jacks, select the component video input mode (DVD VIDEO IN) correctly. If you do not, you cannot view the playback picture on the TV or the AV COMPU LINK remote control system cannot operate properly. See page 20 for details.
- Select the analog input mode. See "Selecting the analog or digital input mode" on page 12.
- You can enjoy digital sound if using a digital coaxial or optical cable. When shipped from the factory, the audio input mode for a DVD recorder and DVD player is set to use the digital coaxial terminal (DIGITAL IN 1 (DVR/DVD)). For details of digital connection, see page 10.

A To component video output
- Connect Y, PB, and PR correctly.

B To left/right audio channel output

C **Only for DVD recorder:** To left/right audio channel input

D To composite video output

E To S-video output

F **Only for DVD recorder:** To S-video input

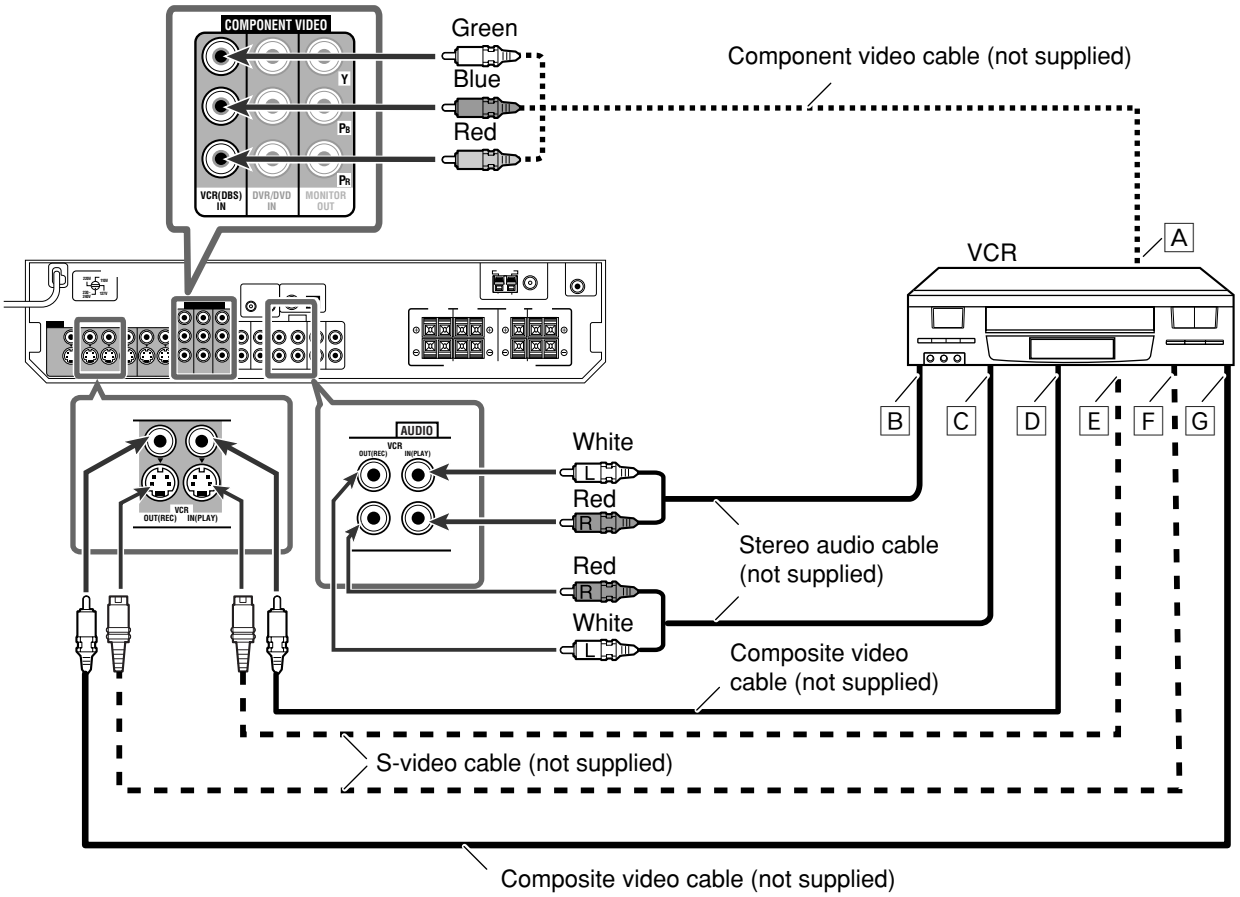
G **Only for DVD recorder:** To composite video input

Do not connect the AC power plug to the wall outlet until all connections are completed.

■ Connecting a VCR

Turn off all components before making connections.

- When you connect other components, refer also to their manuals.



NOTES

- When connecting a VCR to the component video input jacks, select the component video input mode (VCR VIDEO IN) correctly. If you do not, you cannot view the playback picture on the TV or the AV COMPU LINK remote control system cannot operate properly. See page 20 for details.
- Select the analog input mode. See “Selecting the analog or digital input mode” on page 12.
- You can enjoy digital sound if using a digital coaxial or optical cable. For details of digital connection, see page 10.

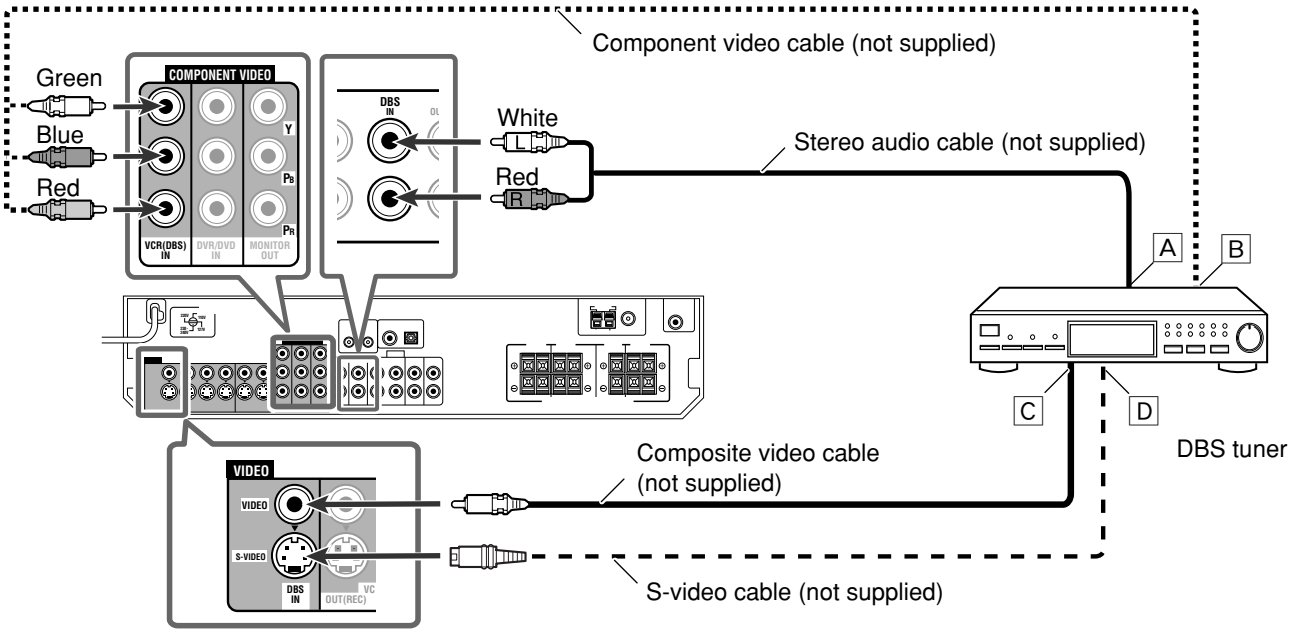
A To component video output
- Connect Y, P_B, and P_R correctly.

B To left/right audio channel output
C To left/right audio channel input
D To composite video output
E To S-video output
F To S-video input
G To composite video input

Do not connect the AC power plug to the wall outlet until all connections are completed.

■ Connecting a DBS tuner

Turn off all components before making connections.
- When you connect other components, refer also to their manuals.



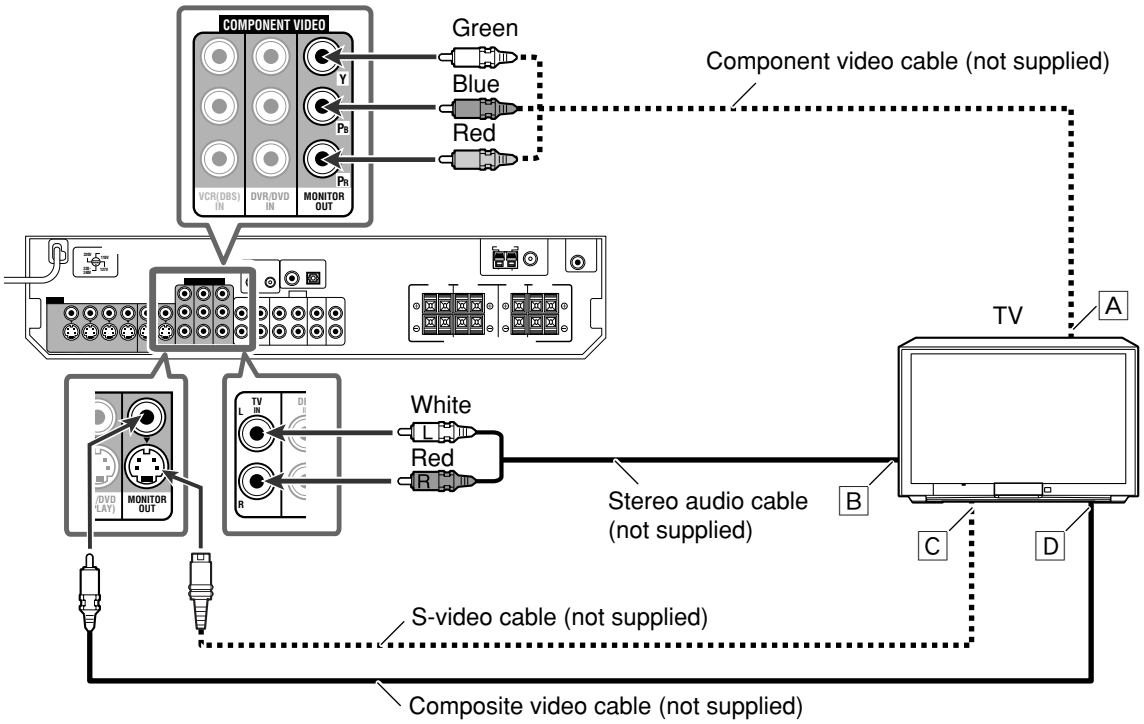
NOTES
- When connecting a DBS tuner to the component video input jacks, select the component video input mode (DBS VIDEO IN) correctly. If you do not, you cannot view the playback picture on the TV. See page 20 for details.
- Select the analog input mode. See “Selecting the analog or digital input mode” on page 12.
- You can enjoy digital sound if using a digital coaxial or optical cable. When shipped from the factory, the audio input mode for a DBS tuner is set to use the digital optical terminal (DIGITAL IN 2 (DBS)). For details of digital connection, see page 10.

A To left/right audio channel output
B To component video output
- Connect Y, PB, and PR correctly.

C To composite video output
D To S-video output

■ Connecting a TV

Connect the TV to the appropriate MONITOR OUT jacks to view the playback picture from any other connected video components.



NOTES
- Select the analog input mode. See “Selecting the analog or digital input mode” on page 12.
- You can enjoy digital sound if using a digital coaxial or optical cable. For details of digital connection, see page 10.

A To component video input
- Connect Y, PB, and PR correctly.

B To left/right audio channel output
C To S-video input
D To composite video input

Digital connection

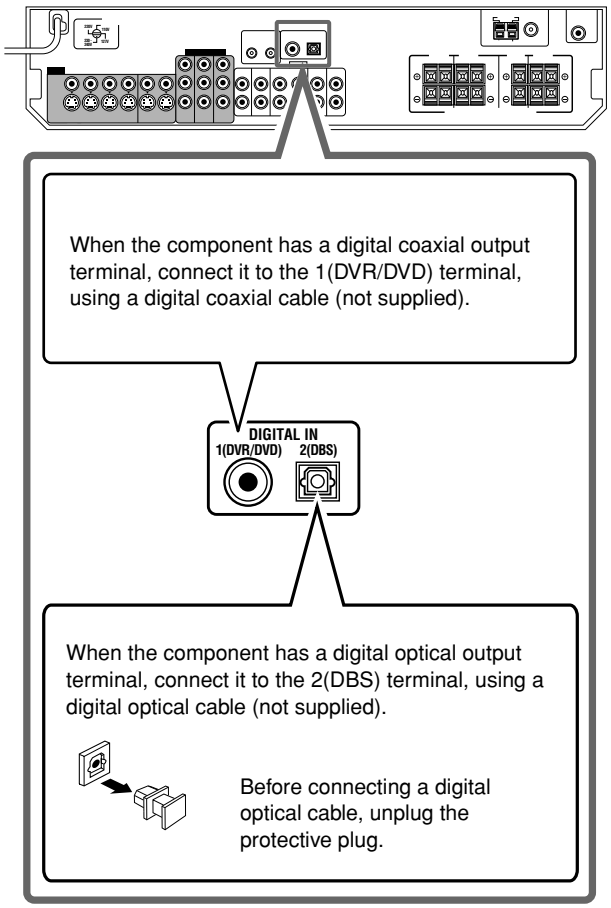
This receiver is equipped with two DIGITAL IN terminals—one digital coaxial terminal and one digital optical terminal.
To reproduce the digital sound, use the digital connection in addition to the analog connection methods described on pages 7 to 9.

Digital coaxial cable (not supplied)

Digital optical cable (not supplied)

Turn off all components before making connections.

- When you connect other components, refer also to their manuals.



NOTES

- When shipped from the factory, the DIGITAL IN terminals have been set for use with the following components:
  – 1(DVR/DVD): For DVD recorder or DVD player
  – 2(DBS): For DBS tuner
  If you connect other components, change the digital input (DIGITAL IN) terminal setting correctly. See "Setting the digital input (DIGITAL IN) terminals—DIGITAL IN 1/2" on page 20.
- Select the correct digital input mode. See "Selecting the analog or digital input mode" on pages 12.
- When you want to operate the connected component (except DBS tuner) using the AV COMPU LINK remote control system (see pages 32 and 33), connect them also as described on pages 7 to 9.

USB Connection

This receiver is equipped with a USB terminal on the front panel. You can connect your PC to this terminal and enjoy sound reproduced through your PC.
When you connect your PC for the first time, follow the procedure below.

- Remember you cannot send any signal or data to your PC from this receiver.

IMPORTANT:

Check if your PC equipped with the CD-ROM drive is running on Windows® 98 SE*, Windows® Me*, Windows® 2000*, or Windows® XP* and prepare its CD-ROM.

How to install the USB drivers

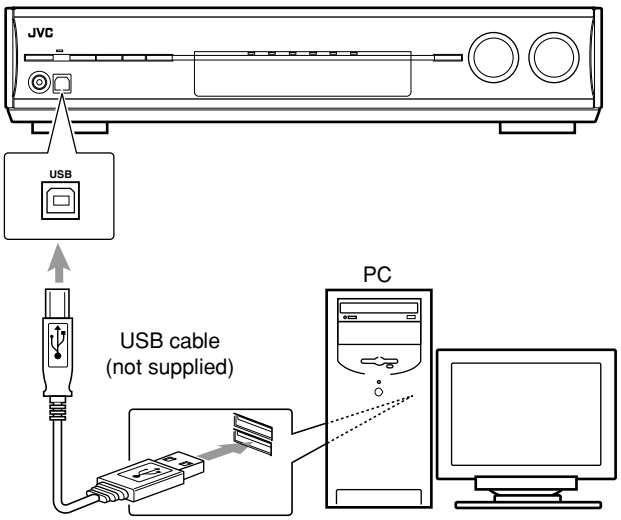
The following procedure is described using the English version of Windows® XP. If your PC is running on a different version of operation system or language, the screens shown on your PC's monitor will differ from the ones used in the following procedure.

1. **Turn on your PC and start running Windows® 98 SE, Windows® Me, Windows® 2000, or Windows® XP.**
   - If the PC has been turned on, quit all the applications now running.
2. **Turn on the receiver, and select the source as "USB DIGITAL."**
3. **Set the volume to minimum.**

IMPORTANT:

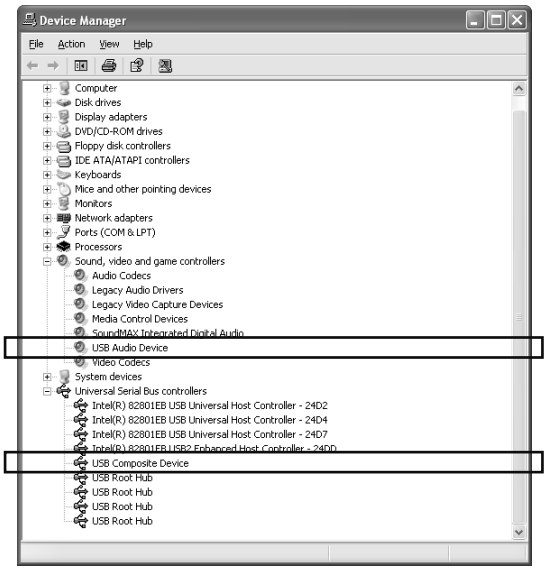
Always set volume to "0" when connecting or disconnecting the other equipment.

4. **Connect the unit to the PC using a USB cable (not supplied).**



- Use "USB series A plug to B plug" cable when connecting.

5. **The USB drivers are installed automatically.**
   - If the USB drivers are not installed automatically, install the USB drivers by following the instructions on the PC's monitor.
6. **Check if the drivers are correctly installed.**
   1. Open the Control Panel on your PC:
      Select [Start] → [Control Panel].
   2. Select [System] → [Hardware] → [Device Manager] → [Sound, video and game controllers] → [Universal Serial Bus controllers].
   - The following window appears, and you can check whether the drivers are installed.



Now PC is ready for playback through the USB connection.

After installation is completed, you can use your PC as the playback source. The PC automatically recognizes the receiver whenever a USB cable is connected between the PC and the receiver while the receiver is turned on.

- When not using the PC as the playback source, disconnect the USB cable.

To play back sounds on the PC, refer to the manuals supplied with the sound reproduction application installed in the PC.

If no sound comes from the speakers, check the following items:

– select the source as "USB DIGITAL".
– connect the USB cable correctly.
– check the USB device is recognized properly.
– check the playback software in your PC is compatible with the USB device.
– open the Control Panel on your PC, select [Sounds and Audio Devices] → [Audio] tab → [Sound playback] → [Default device], and check [Default device] is set to [USB Audio device].

NOTES

- DO NOT turn off the receiver or disconnect the USB cable while installing the drivers and for several seconds while your PC is recognizing the receiver.
- Use a USB cable (version 1.1 or later). Recommended cord length is 1.5 m.
- If your PC does not recognize the receiver, disconnect the USB cable and connect it again. If it does not work yet, restart Windows.
- The installed drivers can be recognized only when the USB cable is connected between the receiver and your PC.
- The sound may not be played back correctly—interrupted or degraded—due to your PC settings and PC specifications.

* Microsoft®, Windows® 98 SE, Windows® Me, Windows® 2000, and Windows® XP are registered trademarks of Microsoft corporation.

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 lights in red.

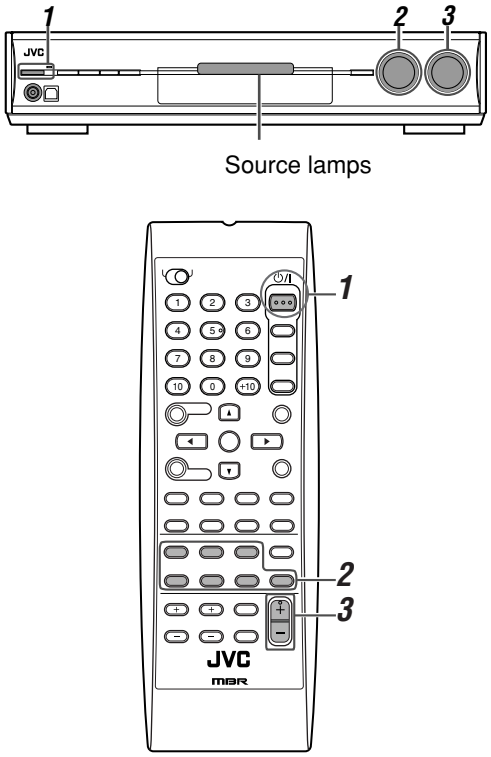
CAUTIONS:

- Do not plug in before setting the VOLTAGE SELECTOR switch on the rear of the receiver and all connection procedures are complete.
- 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.

NOTES

- Keep the power cord away from the connecting cables and the antenna. The power cord may cause noise or screen interference.
- 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.
- If the wall outlet does not match the AC plug, use the supplied AC plug adaptor.
- When you unplug the power cord with the receiver on and connect the power cord again, the receiver enters standby mode.

Basic operations

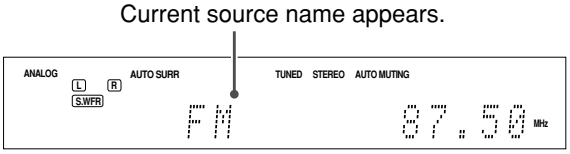


1 Turn on the power

Press ⏻/I STANDBY/ON (or STANDBY/ON ⏻/I AUDIO on the remote control).

The standby lamp goes off and the source lamp of the current source lights in red.

Current source name appears.



To turn off the power (into standby)

Press ⏻/I STANDBY/ON (or STANDBY/ON ⏻/I AUDIO on the remote control) again.
The standby lamp lights in red.

NOTE

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

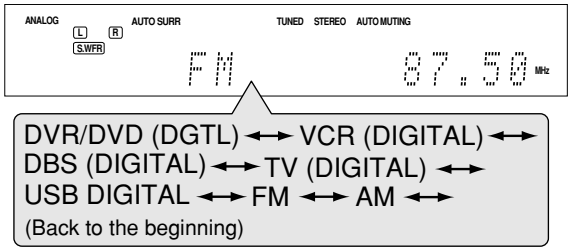
2 Select the source to play

On the front panel:

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

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

- As you turn SOURCE SELECTOR, the source changes as follows:



DVR/DVD (DGTL)*:	Select the DVD recorder or DVD player.
VCR (DIGITAL)*:	Select the VCR.
DBS (DIGITAL)*:	Select the DBS tuner.
TV (DIGITAL)*:	Select the TV.
USB DIGITAL:	Select the PC component.
FM:	Select an FM broadcast.
AM:	Select an AM broadcast.

From the remote control:

Press one of the source selecting buttons.

- For the tuner, press FM/AM. Each time you press FM/AM, the band alternates between FM and AM.

* Selecting the analog or digital input mode

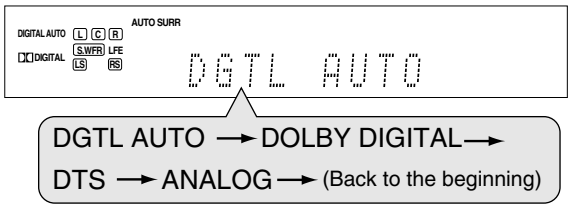
You need to select the proper input mode according to the connection method (analog or digital) on pages 7 to 10.

- In case of digital connection, you also need to select the correct digital input terminal. (See “Setting the digital input (DIGITAL IN) terminals—DIGITAL IN 1/2” on page 20.)
- “DGTL AUTO” and “ANALOG” setting are memorized for each source.

From the remote control ONLY:

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

- Each time you press the button, the input mode changes as follows:

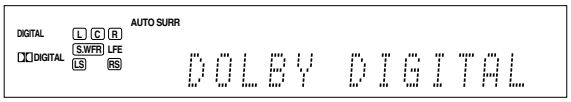


DGTL AUTO (DIGITAL AUTO):	Select for the digital input mode. The receiver automatically detects the incoming signal format, then the digital signal format indicator (LINEAR PCM, DIGITAL, dts, or dts 96/24) for the detected signal lights up.
DOLBY DIGITAL*:	Select to play back software encoded with Dolby Digital.
DTS*:	Select to play back software encoded with DTS.
ANALOG:	Select for the analog input mode. The ANALOG indicator lights up on the display.

Initial setting: DGTL AUTO

* If the following symptoms occur while playing Dolby Digital or DTS software with "DGTL AUTO" selected, select "DOLBY DIGITAL" or "DTS."
- Sound does not come out at the beginning of playback.
- Noise comes out while searching for or skipping chapters or tracks.

Ex.: When Dolby Digital is selected



NOTES
- You cannot select the digital input mode when selecting "FM" or "AM" as the source.
- The input mode is fixed to "DGTL AUTO" when selecting "USB DIGITAL" as the source.
- When you turn off the power or select another source, "DOLBY DIGITAL" or "DTS" is canceled and the digital mode is automatically reset to "DGTL AUTO."

The following digital signal format indicators on the display indicate what type of signal comes into the receiver.

LINEAR PCM:	Lights up when Linear PCM signal comes in.
DIGITAL:	• Lights up when Dolby Digital signal comes in. • Flashes when "DOLBY DIGITAL" is selected for any software other than Dolby Digital.
dts:	• Lights up when conventional DTS signal comes in. • Flashes when "DTS" is selected for any software other than DTS.
dts 96/24:	Lights up when DTS 96/24 signal comes in.

NOTE

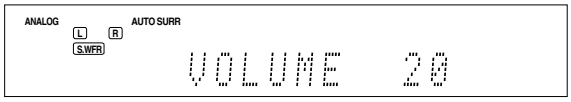
When "DGTL AUTO" cannot recognize the incoming signal, no digital signal format indicator lights up on the display.

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).

- When you adjust the volume, the volume level indication appears on the display for a while.



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

You can enjoy not only stereo software but also multi-channel software through the headphones. (Sounds are down-mixed to the front channels while playing multi-channel software.)

Connect a pair of headphones to the PHONES jack on the front panel to activate the HEADPHONE mode.

The HEADPHONE indicator lights up on the display.
- You can also enjoy the Surround/DSP mode through the headphones—3D HEADPHONE mode. For details, see page 28.
- Disconnecting a pair of headphones from the PHONES jack cancels the HEADPHONE (or 3D HEADPHONE) mode and activates the speakers.

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.

Turning off the sounds temporarily

From the remote control ONLY:

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

"MUTING" appears on the display and the volume turns off.

To restore the sound, press MUTING again.

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

Changing the display brightness

You can dim the display—Dimmer.

Press DIMMER repeatedly.

- Each time you press the button, the display brightness changes as follows:

DIMMER 1:	Dims the display.
DIMMER 2:	Dims the display more than DIMMER 1.
DIMMER 3:	Turns off the display. (Temporarily canceled when you operate the receiver.)
DIMMER OFF:	Cancels the Dimmer (normal display).

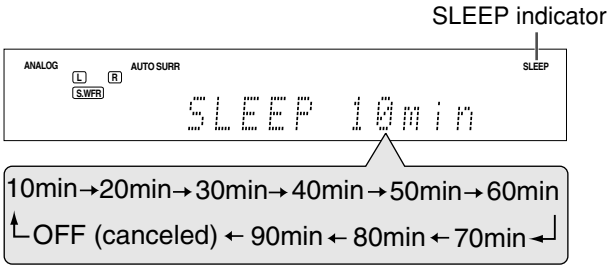
Turning off the power with the Sleep Timer

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

From the remote control ONLY:

Press SLEEP repeatedly.

- Each time you press the button, the shut-off time changes in 10 minute intervals. The SLEEP indicator lights up on the display.



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 so that "SLEEP OFF" appears on the display. (The SLEEP indicator goes off.)

- The Sleep Timer is also canceled when you turn off the receiver.

Basic adjustment of auto memory

This receiver memorizes sound settings for each source:

- when you turn off the power, and
- when you change the source.

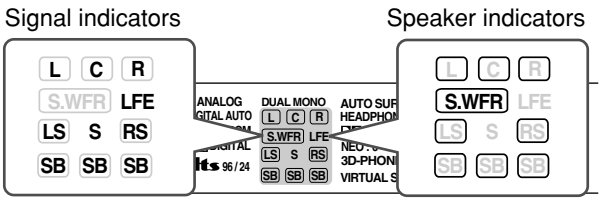
When you change the source, the memorized settings for the newly selected source are automatically recalled.
The following can be stored for each source:

- Analog/digital input mode (see page 12)
- Bass boost (see page 23)
- Digital equalization pattern (see page 22)
- Input attenuator mode (see page 23)
- Midnight mode (see page 19)
- Speaker output level (see page 22)
- Surround/DSP mode selection (see page 30)

NOTE

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

Signal and speaker indicators on the display



The signal indicators light up as follows:

L:
- **When digital input is selected:** Lights up when the left channel signal comes in.
- **When analog input is selected:** Always lights up.

R:
- **When digital input is selected:** Lights up when the right channel signal comes in.
- **When analog 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 monaural surround signal comes in.
SB: Lights up when the surround back channel signal comes in.
LFE: Lights up when the LFE channel signal comes in.

The speaker indicators light up as follows:

- The subwoofer indicator (S.WFR) lights up when "SUBWOOFER" is set to "SUBWFR <YES>." For details, see page 17.
- The other speaker indicators light up only when the corresponding speaker is set to "SML (small)" or "LRG (large)," and also when required for the current playback.

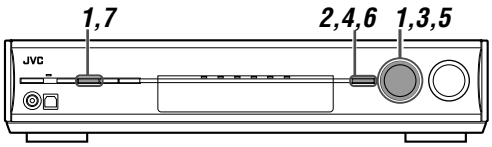
Basic settings

To obtain the best possible sound effect from Surround/DSP modes (see pages 27 to 31), you need to set up the speaker and subwoofer information after all the connections are completed. From pages 15 to 20, how to set speakers and other basic items of the receiver are explained.

Setting the speaker information easily—Quick Speaker Setup

Quick Speaker Setup helps you to easily and quickly register the speaker size, speaker distance, and output level of each speaker according to your listening room to create the best possible surround effect.

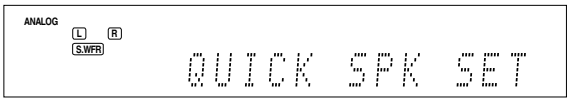
- You can also register each speaker's information manually. For details, see page 18.



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 and turn MULTI JOG until "QUICK SPK SET" appears on the display.

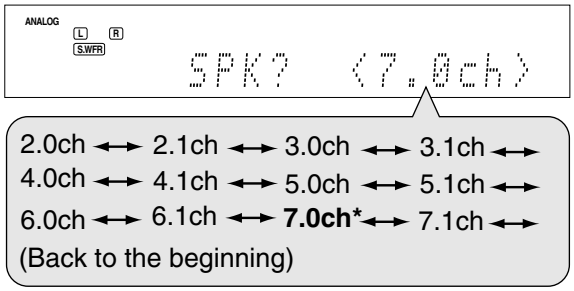


2 Press SET.

3 Turn MULTI JOG to select an appropriate number of the connected speakers (speaker channel number).

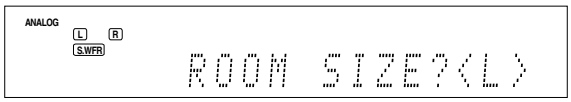
As you turn the jog, the speaker channel number changes as follows.

- For the details of speaker channel number, see " Speakers (channels) number and the size" on page 16.



* "7.0ch" is the initial setting.

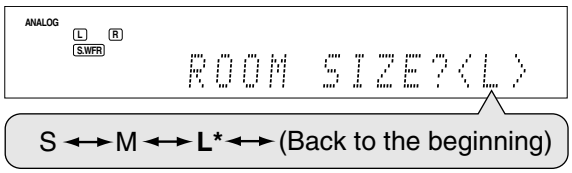
4 Press SET.



5 Turn MULTI JOG to select an appropriate room size to match to your listening room.

As you turn the jog, the room size changes as follows.

- To select your appropriate room size, see "Room size and the speaker distance/output level" on page 16.



* "L" is the initial setting.

6 Press SET.

QUICK SPEAKER SETUP is now completed, then the display goes back to SETTING menu.

7 Press SETTING.

NOTES

- This procedure will not be completed if you stop in the middle of the setting process.
- Once Quick Speaker Setup is performed, the speaker output levels are also set to appropriate values automatically (common to all sources). If you want to set the speaker output levels separately for each source, see "Adjusting the speaker output levels" on page 22.

CONTINUED ON THE NEXT PAGE

English

Speakers (channels) number and the size

You can find how each of the speaker size is defined according to the number of connected speakers (speaker channel "ch" number) you select.

- Subwoofer is counted as 0.1 channel.

CH	The size of connected speakers				
	L/R	C	LS/RS	SB	SUBWFR
2.0CH	LARGE	NONE	NONE	NONE	NO
2.1CH	SMALL	NONE	NONE	NONE	YES
3.0CH	LARGE	SMALL	NONE	NONE	NO
3.1CH	SMALL	SMALL	NONE	NONE	YES
4.0CH	LARGE	NONE	SMALL	NONE	NO
4.1CH	SMALL	NONE	SMALL	NONE	YES
5.0CH	LARGE	SMALL	SMALL	NONE	NO
5.1CH	SMALL	SMALL	SMALL	NONE	YES
6.0CH	LARGE	SMALL	SMALL	SMALL (1SPK)	NO
6.1CH	SMALL	SMALL	SMALL	SMALL (1SPK)	YES
7.0CH	LARGE	SMALL	SMALL	SMALL (2SPK)	NO
7.1CH	SMALL	SMALL	SMALL	SMALL (2SPK)	YES

Room size and the speaker distance/output level

According to the selected room size, speaker distance and speaker output level for each activated speaker is set as follows:

Room size	Speaker	Distance	Output level
L (Large)	L/R	3.0 m (10 ft)	0 dB
	C	3.0 m (10 ft)	0 dB
	LS/RS	3.0 m (10 ft)	0 dB
	SBL(SB)/SBR	3.0 m (10 ft)	0 dB
M (Medium)	L/R	2.7 m (9 ft)	0 dB
	C	2.4 m (8 ft)	–2 dB
	LS/RS	2.1 m (7 ft)	–3 dB
	SBL(SB)/SBR	1.8 m (6 ft)	–4 dB
S (Small)	L/R	2.4 m (8 ft)	0 dB
	C	2.1 m (7 ft)	–2 dB
	LS/RS	1.5 m (5 ft)	–4 dB
	SBL(SB)/SBR	1.2 m (4 ft)	–6 dB

NOTE

Abbreviations used in the tables above stand for the following speakers and the subwoofer:
– L: Left front speaker
– R: Right front speaker
– C: Center speaker
– LS: Left surround speaker
– RS: Right surround speaker
– SB: Surround back speaker
– SBL: Left surround back speaker
– SBR: Right surround back speaker
– SUBWFR: Subwoofer

Basic setting items

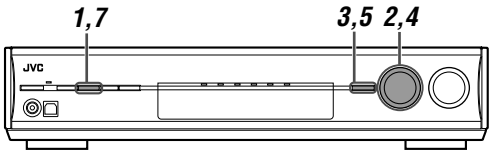
You can adjust the following items. See pages in parentheses for details.

- You cannot select the items which is not available with the current setting. For example, when the speaker channel number is set to "<5.1ch>" in Quick Speaker Setup, you cannot select the following items:
  S BACK OUT, S BACK DIST, S BACK L DIST, S BACK R DIST

Items	To do
QUICK SPK SET	Register the number of speakers you connect and the size of your listening room. (15)
SUBWOOFER*	Register your subwoofer. (17)
FRONT SPK*	Register your front speaker size. (17)
CENTER SPK*	Register your center speaker size. (17)
SURROUND SPK*	Register your surround speaker size. (17)
S BACK SPK*	Register your surround back speaker size. (17)
S BACK OUT*	Register the number of your surround back speaker(s). (17)
DIST UNIT	Select the measuring unit for the speaker distance. (18)
FRONT L DIST*	Register the distance from the left front speaker to your listening point. (18)
FRONT R DIST*	Register the distance from the right front speaker to your listening point. (18)
CENTER DIST*	Register the distance from the center speaker to your listening point. (18)
SURR L DIST*	Register the distance from the left surround speaker to your listening point. (18)
SURR R DIST*	Register the distance from the right surround speaker to your listening point. (18)
S BACK DIST*	Register the distance from the surround back speaker to your listening point. (18)
S BACK L DIST*	Register the distance from the left surround back speaker to your listening point. (18)
S BACK R DIST*	Register the distance from the right surround back speaker to your listening point. (18)
EX/ES/PLIIx	Select the EX/ES/PLIIx reproduction mode. (18)
DUAL MONO	Select the Dual Mono sound channel. (19)
SUBWOOFER OUT	Select sounds emitted from the subwoofer. (19)
CROSSOVER	Select the cutoff frequency to the subwoofer. (19)
LFE ATT	Attenuate the bass (LFE) sounds. (19)
MIDNIGHT MODE	Reproduce a powerful sound at night. (19)
DIGITAL IN 1	Select the component connected to the digital coaxial terminal—1(DVR/DVD). (20)
DIGITAL IN 2	Select the component connected to the digital optical terminal—2(DBS). (20)
DVD VIDEO IN	Select the type of video terminal used for the DVD recorder or DVD player. (20)
VCR VIDEO IN	Select the type of video terminal used for the VCR. (20)
DBS VIDEO IN	Select the type of video terminal used for the DBS tuner. (20)

* If you have used Quick Speaker Setup on page 15, these settings are not required.

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.

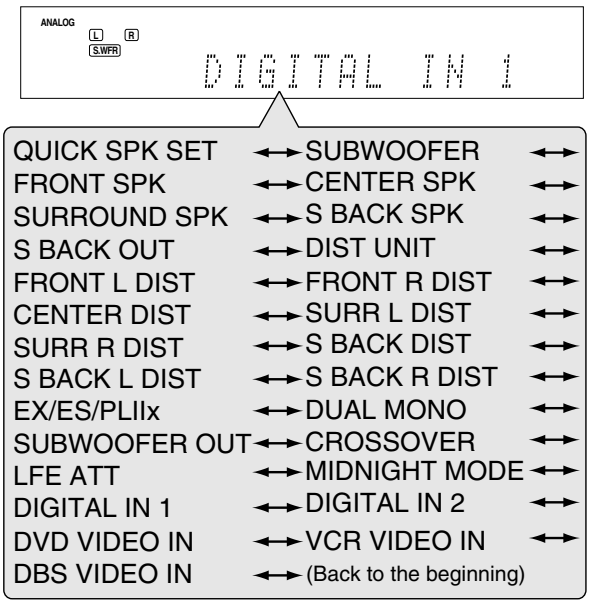
Ex.: When setting DIGITAL IN 1 terminal.

1 Press SETTING.

MULTI JOG now works for the setting operation.

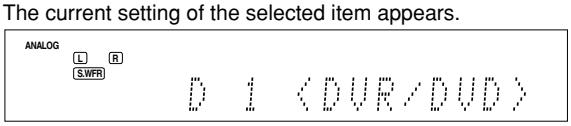
2 Turn MULTI JOG until the item you want to set appears on the display.

- As you turn MULTI JOG, the setting items change as follows:

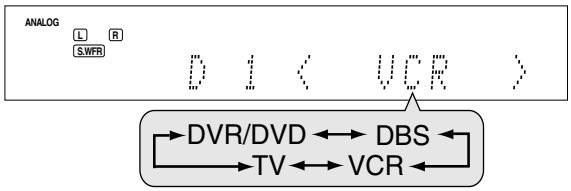


3 Press SET.

The current setting of the selected item appears.



4 Turn MULTI JOG to select the appropriate setting.



Your setting is stored.

5 Press SET.

6 Repeat steps *2* to *5* to set other items if necessary.

7 Press SETTING.

The source indication resumes on the display.

Setting the speakers

To obtain the best possible surround effect from the Surround and DSP modes, register the setting about the speaker after all connections are completed.

- If you have used Quick Speaker Setup on page 15, this setting is not required.

Setting subwoofer information—SUBWOOFER

Select whether you have connected a subwoofer or not.

SUBWFR <YES>	Select when you have connected a subwoofer. The subwoofer indicator (S.WFR) lights up on the display. You can adjust the subwoofer output level (see page 22).
SUBWFR <NO>	Select when you have disconnected a subwoofer. Selecting this changes the front speaker size to "LRG" (see below).

Initial setting: SUBWFR <NO>

Setting the speaker size—FRONT SPK (front speakers), CENTER SPK (center speaker), SURROUND SPK (surround speakers), S BACK SPK (surround back 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 disconnected a speaker. (Not selectable for the front speakers.)

Initial setting: <LRG> (for the front speakers)
<SML> (for other speakers)

Setting the surround back speaker(s)—S BACK OUT

Register the number of the surround back speaker(s).

SB OUT <1SPK>	Select when you use 1 surround back speaker.
SB OUT <2SPK>	Select when you use 2 surround back speakers.

Initial setting: SB OUT <2SPK>

NOTES

- If you have selected "SML (small)" for the front speaker size, you cannot select "LRG (large)" for other speakers.
- When "SUBWOOFER" is set to "SUBWFR <NO>," the front speaker size is fixed to "LRG" (and you cannot select "SML").
- When "SURROUND SPK" is set to "SML (small)," you cannot select "LRG (large)" for the surround back speaker.
- When "SURROUND SPK" is set to "NO," the surround back speaker is fixed to "NO."
- When "S BACK SPK" is set to "NO," you cannot select "S BACK OUT."
- When "SB OUT" is set to "<1SPK>," connect the surround back speaker to the left surround back speaker terminal (see page 6). No sound comes from the surround back speaker if you connect it to the right surround back speaker terminal.

Setting the speaker distance

The distance from your listening point to the speakers is one of the important elements to obtain the best possible sound effect from the Surround/DSP modes.
By referring to the speaker distance, the receiver automatically sets the delay time of the sound through each speaker so that sounds through all the speakers can reach you at the same time. If you have used Quick Speaker Setup on page 15, this setting is not required.

■ **Measuring unit—DIST UNIT**

Select which measuring unit you use.

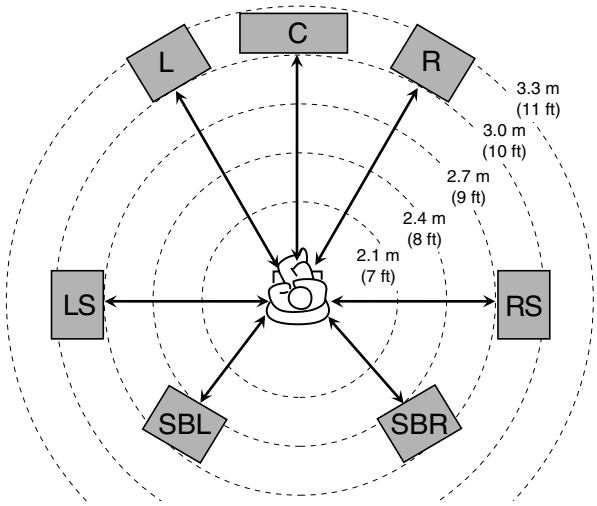
UNIT <meter>	Select to set the distance in meters.
UNIT <feet>	Select to set the distance in feet.

Initial setting: UNIT <meter>

■ **Speaker distance—**
FRONT L DIST (for the left front speaker),
FRONT R DIST (for the right front speaker),
CENTER DIST (for the center speaker),
SURR L DIST (for the left surround speaker),
SURR R DIST (for the right surround speaker),
S BACK L DIST (for the left surround back speaker),
S BACK R DIST (for the right surround back speaker)

Adjustable range: 0.3 m to 9.0 m in 0.3 m intervals
(1 ft to 30 ft in 1 ft intervals)

Initial setting: 3.0 m (10 ft) for all speakers



In this case, set the distance as follows:

Left front speaker (L):	"FRONT L <3.0m> (10ft)"
Right front speaker (R):	"FRONT R <3.0m> (10ft)"
Center speaker (C):	"CENTER <3.0m> (10ft)"
Left surround speaker (LS):	"SURR L <2.7m> (9ft)"
Right surround speaker (RS):	"SURR R <2.7m> (9ft)"
Left surround back speaker (SBL) :	"SBACK L <2.4m> (8ft)"
Right surround back speaker (SBR) :	"SBACK R <2.4m> (8ft)"

NOTES

- You cannot set the speaker distance for the speakers you have set to "NO."
- If you have selected "<1SPK>" for "S BACK OUT" (see page 17), "S BACK DIST" appears instead of "S BACK L DIST" and "S BACK R DIST."

Activating the EX/ES/PLIIx setting—EX/ES/PLIIx

Depending on this setting, available Surround modes for digital multi-channel software vary—EX/ES/PLIIx (7.1-channel) reproduction or 5.1-channel reproduction. Select an appropriate setting for your enjoyment.

- For details about relation between EX/ES/PLIIx setting and available Surround mode, see page 30.
- To activate the Surround mode, see page 31.

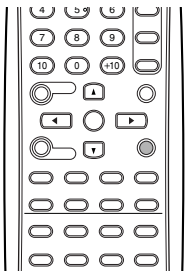
<AUTO>	According to the incoming signal, an appropriate Surround mode is applied. • For Dolby Digital Surround EX and DTS-ES software, 6.1-channel reproduction is applied*. • For other multi-channel (more than 4 channel) encoded software, 5.1-channel reproduction is applied.
<ON>	Select to apply 6.1-channel reproduction to both 5.1-channel and 6.1-channel encoded software.
<PLIIx MOVIE>	Select to apply PLIIx MOVIE (7.1-channel) reproduction to both 5.1-channel and 6.1-channel encoded software.
<PLIIx MUSIC>	Select to apply PLIIx MUSIC (7.1-channel) reproduction to both 5.1-channel and 6.1-channel encoded software.
<OFF>	Select to cancel the EX/ES/PLIIx (7.1-channel) reproduction.

Initial setting: <AUTO>

* For some Dolby Digital Surround EX software, Dolby Digital 5.1-channel reproduction ("DOLBY DIGITAL") may be applied even though you have selected "<AUTO>". In this case, select "<ON>" to apply "DOLBY D EX."

From the remote control:

Press EX/ES/PLIIx repeatedly to select either one of the above.



NOTES

- When "SURROUND SPK" is set to "NO" (see page 17), this function is not available.
- When "S BACK SPK" is set to "NO" (see page 17), the Virtual Surround Back (see page 30) is applied for EX/ES/PLIIx (6.1-channel) reproduction.

Selecting the main or sub channel —DUAL MONO

You can select the playback sound (channel) you want while playing digital software recorded (or broadcasted) in Dual Mono mode (see page 28), which includes two monaural channels separately. When the receiver detects Dual Mono signals, the DUAL MONO indicator lights up on the display.

D MONO <MAIN>	Select to play back the main channel (Ch 1).* Signal indicator "L" lights up while playing back this channel.
D MONO <SUB>	Select to play back the sub-channel (Ch 2).* Signal indicator "R" lights up while playing back this channel.
D MONO <ALL>	Select to play back both the main and sub-channels (Ch 1/Ch 2).* Signal indicators "L" and "R" light up while playing back these channels.

Initial setting: D MONO <MAIN>

* Dual Mono signals can be heard from the following speakers—L (left front speaker), R (right front speaker), and C (center speaker), with respect to the current Surround setting:

DUAL MONO setting	SURROUND OFF		With Surround Activated				
			CENTER SPK setting				
			SML/LRG			NO	
	L	R	L	C	R	L	R
MAIN	Ch 1	Ch 1	—	Ch 1	—	Ch 1	Ch1
SUB	Ch 2	Ch 2	—	Ch 2	—	Ch 2	Ch 2
ALL	Ch 1	Ch 2	—	Ch 1+Ch 2	—	Ch 1+Ch 2	Ch 1+Ch 2

NOTE

The Dual Mono format is not identical with bilingual broadcasting for TV programs. So this setting does not take effect while watching such bilingual programs.

Setting bass sound

Setting subwoofer output—SUBWOOFER OUT

The subwoofer emits the LFE signals* and the bass elements of each speaker set to "SML."
You can make the bass elements of the front speaker channels (MAIN) emitted through the subwoofer.

SW <LFE>	Select to emit the LFE signals and the bass elements of each speaker set to "SML."
SW <LFE+MAIN>	Select to emit the bass elements of the front speakers' channels (MAIN) when no bass elements are emitted through the subwoofer in "SW <LFE>."

Initial setting: SW <LFE>

NOTE

- When "SUBWOOFER" is set to "SUBWFR <NO>" (see page 17), this function is not available.

* The LFE signals are emitted only when playing the following software with the LFE signals:
– Dolby Digital multi channel software
– DTS multi channel software
When playing analog source or linear PCM software, no LFE signals are emitted.

Setting the crossover frequency—CROSSOVER

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 ("CROSS OFF" appears).

CROSS <80Hz>	Select when the cone speaker unit built in the speaker is about 12 cm.
CROSS <100Hz>	Select when the cone speaker unit built in the speaker is about 10 cm.
CROSS <120Hz>	Select when the cone speaker unit built in the speaker is about 8 cm.
CROSS <150Hz>	Select when the cone speaker unit built in the speaker is about 6 cm.
CROSS <200Hz>	Select when the cone speaker unit built in the speaker is less than 5 cm.

Initial setting: CROSS <100Hz>

NOTE

Crossover frequency is not valid for the HEADPHONE and 3D HEADPHONE modes.

Setting the low frequency effect attenuator—LFE ATT

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.

LFE <0dB>	Normally select this.
LFE <–10dB>	Select when the bass sound is distorted.

Initial setting: LFE <0dB>

Using the Midnight mode —MIDNIGHT MODE

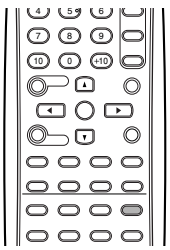
You can enjoy a powerful sound at night using the Midnight mode. When the Midnight mode is activated, the MIDNIGHT indicator lights up on the display.

MIDNIGHT <OFF>	Select when you want to enjoy surround with its full dynamic range. (No effect applied.)
MIDNIGHT <1>	Select when you want to reduce the dynamic range a little.
MIDNIGHT <2>	Select when you want to apply the compression effect fully (useful at night).

Initial setting: MIDNIGHT <OFF>

From the remote control:

Press MIDNIGHT repeatedly to select either one of the above.



Setting the digital input (DIGITAL IN) terminals—DIGITAL IN 1/2

When you use the digital input terminals, register what components are connected to which terminals—DIGITAL IN 1/2 (see page 10) so that the correct source name will appear when you select the digital source.
Select one of the following components for each terminal:

DVR/DVD	For the DVD player (or DVD recorder).
DBS	For the DBS tuner.
VCR	For the VCR.
TV	For the TV.

Initial setting: DVR/DVD (for "DIGITAL IN 1")
DBS (for "DIGITAL IN 2")

NOTES

- You cannot assign the same component for different terminals. "DIGITAL IN 1" has the priority for assignment to "DIGITAL IN 2."

  Ex.: When "DIGITAL IN 1" is set to "DVR/DVD", "DIGITAL IN 2" is selectable for the other components.

- Setting "DIGITAL IN 1" affects "DIGITAL IN 2" settings. When you have changed "DIGITAL IN 1," confirm the components assigned to "DIGITAL IN 2."

Selecting the component video input mode—DVD VIDEO IN/VCR VIDEO IN/ DBS VIDEO IN

When you use the component video inputs for connecting the DVD recorder (or DVD player), VCR, or DBS, register the type of video input jacks.
If you have not selected appropriate video input jacks, you cannot view the playback picture on the TV or the AV COMPU LINK remote control system cannot operate properly (see page 32).

For the DVD recorder or DVD player (DVD VIDEO IN):

DVD <S/C>	Select when connecting the DVD recorder (or DVD player) to the composite video or S-video input jacks.
DVD <CMPNT>	Select when connecting the DVD recorder (or DVD player) to the component video input jacks.

Initial setting: DVD <S/C>

For the VCR (VCR VIDEO IN):

VCR <S/C>	Select when connecting the VCR to the composite video or S-video input jacks.
VCR <CMPNT>	Select when connecting the VCR to the component video input jacks.

Initial setting: VCR <S/C>

For the DBS (DBS VIDEO IN):

DBS <S/C>	Select when connecting the DBS to the composite video or S-video input jacks.
DBS <CMPNT>	Select when connecting the DBS to the component video input jacks.

Initial setting: DBS <S/C>

NOTE

You cannot select "CMPNT" for both the VCR and the DBS at the same time. If you select "CMPNT" for the VCR, the setting for the DBS is fixed to "S/C" and vice versa.

Sound adjustments

You can make sound adjustment to your preference after completing basic setting.

Basic adjustment items

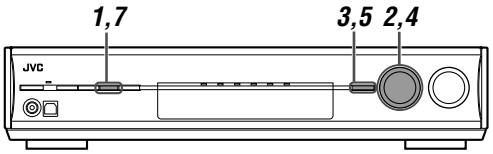
You can adjust the following items. See pages in parentheses for details.

- You cannot select the items which is not available with the current setting.

Items	To do
SUBWFR LVL*1	Adjust the subwoofer output level. (22)
FRONT L LVL*1*2	Adjust the left front speaker output level. (22)
FRONT R LVL*1*2	Adjust the right front speaker output level. (22)
CENTER LVL*1*2	Adjust the center speaker output level. (22)
SURR L LVL*1*2	Adjust the left surround speaker output level. (22)
SURR R LVL*1*2	Adjust the right surround speaker output level. (22)
S BACK LVL*1*2	Adjust the surround back speaker output level. (22)
S BACK L LVL*1*2	Adjust the left surround back speaker output level. (22)
S BACK R LVL*1*2	Adjust the right surround back speaker output level. (22)
D EQ 63Hz*1 **D EQ 250Hz*1** **D EQ 1kHz*1** **D EQ 4kHz*1** **D EQ 16kHz*1**	Adjust the equalization pattern of each band. (22)
BASS BOOST	Boost the bass level. (23)
INPUT ATT	Attenuate the input level of analog source. (23)
EFFECT*1	Adjust the effect level. (23)
ROOM SIZE	Select the room size for your virtual listening room. (23)
LIVENESS	Select the liveness level for your virtual listening room. (23)
PANORAMA	Add “wraparound” sound effect with side-wall image. (23)
CENTER WIDTH	Adjust the center channel localization between the center speaker and the left/ right speakers. (24)
DIMENSION	Adjust sound localization pattern. (24)
CENTER GAIN	Adjust the sound localization of the center channel. (24)
CENTER TONE*1	Make the center tone soft or sharp. (24)
CENTER ALIGN	Align the vertical localization of the center channel signals. (24)

*1 You can also use the remote control for the adjustment.
*2 If you have used Quick Speaker Setup on page 15, these settings are not required.

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.

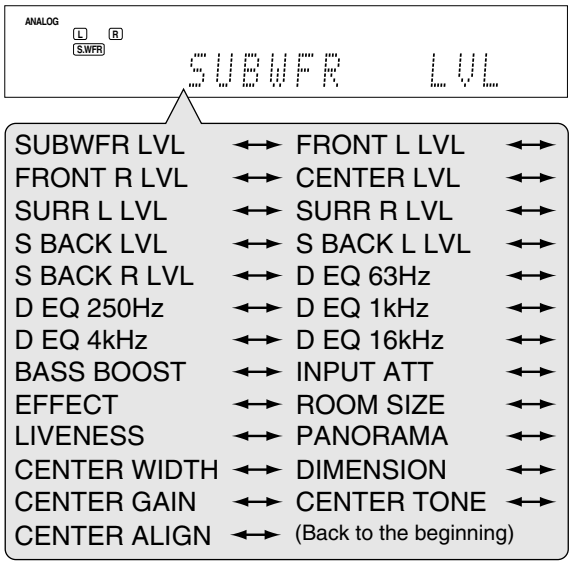
Ex.: When adjusting subwoofer output level.

1 **Press ADJUST.**

MULTI JOG now works for the sound adjustment.

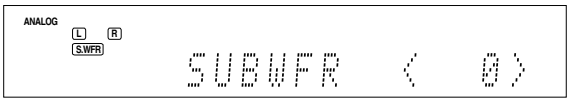
2 **Turn MULTI JOG until the item you want to adjust appears on the display.**

- As you turn MULTI JOG, the adjustment items change as follows:

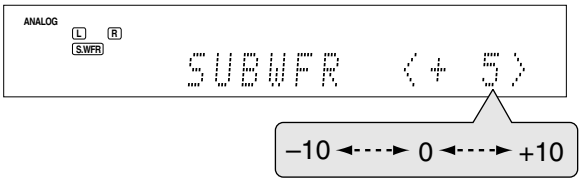


3 **Press SET.**

The current setting for the selected item appears.



4 **Turn MULTI JOG to adjust the selected item.**



Your adjustment is stored.

5 **Press SET.**

6 **Repeat steps *2* to *5* to adjust other items if necessary.**

7 **Press ADJUST.**

The source indication resumes on the display.

Adjusting the speaker output levels

- **SUBWFR LVL (subwoofer output level),**
- **FRONT L LVL (left front speaker output level),**
- **FRONT R LVL (right front speaker output level),**
- **CENTER LVL (center speaker output level),**
- **SURR L LVL (left surround speaker output level),**
- **SURR R LVL (right surround speaker output level),**
- **S BACK L LVL (left surround back speaker output level),**
- **S BACK R LVL (right surround back speaker output level)**

You can adjust the speaker output levels.
Adjust all the speakers' output levels so that you can listen to the sounds from all the speakers at the same level.

- Once you have made an adjustment, it is memorized for each source.

Adjustable range: –10 (dB) to +10 (dB) (in 1 step intervals)

Initial setting: 0 (dB) for all speakers

NOTES

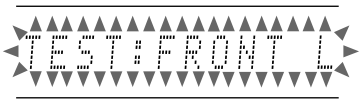
- If you have selected "NO" for a speaker (see page 17), the output level for the corresponding speaker is not adjustable.
- If you have selected "<1SPK>" for "S BACK OUT" (see page 17), "S BACK LVL" appears instead of "S BACK L LVL" and "S BACK R LVL."
- While using the headphones, you can adjust only the left and right front speakers' output level.

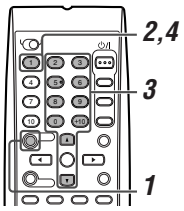
From the remote control:

1 Press SOUND.

2 Press TEST to check the speakers' output balance.

"TEST: FRONT L" starts flashing on the display, and a test tone comes out of the speakers clockwise.





- You can adjust the speaker output levels without the test tone.

3 Adjust the speaker output levels.

Press the numeric button corresponding to the speaker you want to adjust, then LEVEL⊕ or LEVEL⊖ to adjust the output level.

Ex.: To adjust the output level for the left front speaker (L), press FRONT L, then LEVEL⊕ or LEVEL⊖.

4 Press TEST again to stop the test tone.

NOTES

- No test tone comes out of the speakers for which the speaker setting is set to "NO" (see page 17).
- No test tone is available when the headphone is in use.
- If you have selected "<1SPK>" for "S BACK OUT" (see page 17), press S BACK L, then LEVEL⊕ or LEVEL⊖ to adjust the output level.
- After pressing SOUND, the numeric buttons work for sound adjustments. To use the numeric buttons to operate your target source, press the corresponding source selecting button before operation.

Adjusting the equalization patterns— D EQ 63Hz/250Hz/1kHz/4kHz/16kHz

You can adjust equalization patterns in five frequency bands (center frequency: 63 Hz, 250 Hz, 1 kHz, 4 kHz, 16 kHz) for the front speakers.

- Once you have made an adjustment, it is memorized for each source.

Adjustable range: –8 (dB) to +8 (dB) (in 2 dB intervals)

Initial setting: 0 (dB) for all bands

- When adjustment is made, the DIGITAL EQ indicator lights up on the display.

If no adjustment is required, set all the frequency bands to "0 (dB)."

- The DIGITAL EQ indicator goes off from the display.

From the remote control:

Before you start, remember...

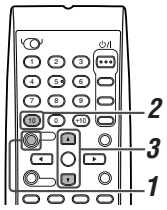
There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step ***2*** again.

1 Press SOUND.

2 Press D. EQ FREQ repeatedly to select the band you want to adjust.

3 Press LEVEL⊕ or LEVEL⊖ to adjust the equalization pattern of the selected band.

4 Repeat steps *2* and *3* to adjust other bands.



NOTE

After pressing SOUND, the numeric buttons work for sound adjustments. To use the numeric buttons to operate your target source, press the corresponding source selecting button before operation.

Adjusting the bass sounds

Reinforcing the bass—BASS BOOST

You can boost the bass level—Bass Boost.
- Once you have made an adjustment, it is memorized for each source.
- You cannot use the remote control for this setting.

B BOOST <ON>	Select to boost the bass level. The B.BOOST indicator lights up on the display.
B BOOST <OFF>	Select to deactivate the Bass Boost.

Initial setting: B BOOST <OFF>

NOTE

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

Attenuating the input signal—INPUT ATT

When the input level of **analog 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.
- Once you have made an adjustment, it is memorized for each source.
- You cannot use the remote control for this setting.

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

Initial setting: ATT <NORMAL>

Adjusting the sound parameters for the Surround/DSP modes

You can adjust the Surround/DSP sound parameters to your preference.
- For details about the Surround/DSP modes, see pages 27 to 31.

Adjusting the effect level for DSP modes—EFFECT

This setting is available only when one of the DSP modes (except ALL CH STEREO) is in use. To activate DSP mode, see page 31.
- Once you have made an adjustment, it is memorized for each DSP mode.

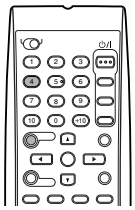
Adjustable range: 1 to 5 (in 1 step intervals)

Initial setting: EFFECT <3>

As the number increases, the effect becomes stronger. Normally, select “3.”

From the remote control:

Press SOUND, then EFFECT repeatedly to select the level you want to adjust.



NOTE

After pressing SOUND, the numeric buttons work for sound adjustments. To use the numeric buttons to operate your target source, press the corresponding source selecting button before operation.

Adjusting the virtual room size for DSP modes—ROOM SIZE

This setting is available only when one of the DSP modes (except ALL CH STEREO) is in use. To activate DSP mode, see page 31.
- If “SURROUND SPK” is set to “<NO>” (see page 17), this item is not adjustable.
- Once you have made an adjustment, it is memorized for each DSP mode.
- You cannot use the remote control for this setting.

Adjustable range: 1 to 5 (in 1 step intervals)

Initial setting: ROOM SIZE <3>

As the number increases, the interval between reflections increases so that you will feel as if you were in a larger room. Normally, select “3.”

Adjusting the liveness effect for DSP modes—LIVENESS

This setting is available only when one of the DSP modes (except ALL CH STEREO) is in use. To activate DSP mode, see page 31.
- If “SURROUND SPK” is set to “<NO>” (see page 17), this item is not adjustable.
- Once you have made an adjustment, it is memorized for each DSP mode.
- You cannot use the remote control for this setting.

Adjustable range: 1 to 5 (in 1 step intervals)

Initial setting: LIVENESS <3>

As the number increases, the attenuation level of reflections over time decreases so that acoustics change from “Dead” to “Live.” Normally, select “3.”

Adjusting the panorama control for Pro Logic IIx Music and Pro Logic II Music—PANORAMA

This setting is available when Pro Logic IIx Music or Pro Logic II Music is activated for the analog or digital 2-channel sound signal. To activate Pro Logic IIx Music or Pro Logic II Music, see page 31.
- Once you have made an adjustment, it is memorized until you change the setting.
- You cannot use the remote control for this setting.

PANORAMA <ON>	Select to add “wraparound” sound effect with side-wall image.
PANORAMA <OFF>	Select to listen to originally recorded sound.

Initial setting: PANORAMA <OFF>

Adjusting the center channel localization for Pro Logic IIx Music and Pro Logic II Music—CENTER WIDTH

This setting is available when Pro Logic IIx Music or Pro Logic II Music is activated for the analog or digital 2-channel sound signal. To activate Pro Logic IIx Music or Pro Logic II Music, see page 31.

- If “CENTER SPK” is set to “NO” (see page 17), this item is not adjustable.
- Once you have made an adjustment, it is memorized until you change the setting.
- You cannot use the remote control for this setting.

Adjustable range: OFF and 1 to 7 (in 1 step intervals)

Initial setting: C WIDTH <3>

As the number increases, the center channel sound moves toward the left and right speakers.
Normally, select “3.”

Adjusting the sound localization position for Pro Logic IIx Music and Pro Logic II Music—DIMENSION

This setting is available when Pro Logic IIx Music or Pro Logic II Music is activated for the analog or digital 2-channel sound signal. To activate Pro Logic IIx Music or Pro Logic II Music, see page 31.

- Once you have made an adjustment, it is memorized until you change the setting.
- You cannot use the remote control for this setting.

Adjustable range: 1 to 7 (in 1 step intervals)

Initial setting: DIMENSION <4>

As the number increases, the sound localization moves towards forward from backward.
Normally, select “4.”

Adjusting the sound localization of the center channel—CENTER GAIN

This setting is available only when Neo:6 Music is in use.

- If “CENTER SPK” is set to “NO” (see page 17), this item is not adjustable.
- Once you have made an adjustment, it is memorized until you change the setting.
- You cannot use the remote control for this setting.

Adjustable range: 0 to 1.0 (in 0.1 step intervals)

Initial setting: C GAIN <0.3>

As the number increases, the center channel will be localized clearly.
Normally, select “0.3.”

Adjusting the center tone—CENTER TONE

This setting is available when one of the Surround/DSP modes is in use. To activate Surround/DSP mode, see page 31.

- If “CENTER SPK” is set to “NO” (see page 17), this item is not adjustable.
- This setting is common to all Surround modes, and is memorized separately for DSP modes.

Adjustable range: 1 to 5 (in 1 step intervals)

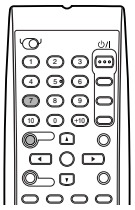
Initial setting: C TONE <3>

As the number increases, the dialogue becomes stronger.
Normally, select “3.”

- When the center tone is set to other than “C TONE <3>,” the C.TONE indicator lights up on the display.

From the remote control:

Press SOUND, then C. TONE repeatedly to select the level you want to adjust.



NOTE

After pressing SOUND, the numeric buttons work for sound adjustments. To use the numeric buttons to operate your target source, press the corresponding source selecting button before operation.

Aligning the vertical localization of the center channel for Surround/DSP modes—CENTER ALIGN

This setting is available when one of the Surround/DSP modes (except PLIIx MUSIC, PLII MUSIC, NEO:6 MUSIC, and ALL CH STEREO) is in use. To activate Surround/DSP mode, see page 31.

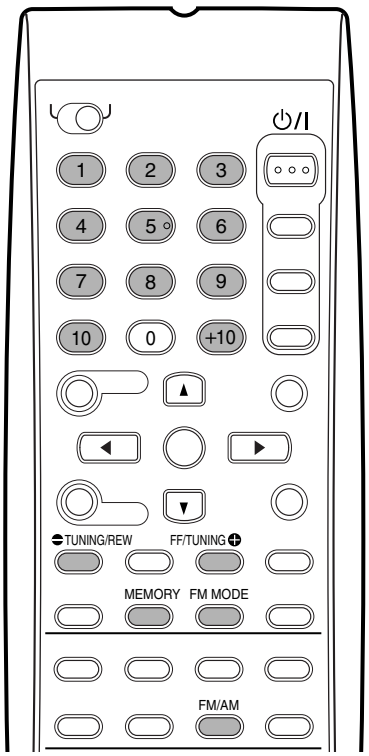
- If “CENTER SPK” is set to “NO” (see page 17), this item is not adjustable.
- Once you have made an adjustment, it is memorized for each Surround/DSP mode.
- You cannot use the remote control for this setting.

C ALIGN <ON>	Select this when you cannot feel as if the actors or singers are speaking or singing on the screen.
C ALIGN <OFF>	Center alignment is turned off.

Initial setting: C ALIGN <OFF>

Tuner operations

Tuner operations are mainly done from the remote control.



NOTE

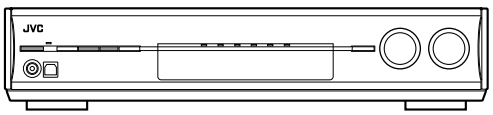
When you have selected "FM" or "AM" by using SOURCE SELECTOR on the front panel, the remote control may not work for tuner operations. To use the remote control for tuner operations, select "FM" or "AM" by using FM/AM button on the remote control.

Setting the AM tuner interval spacing

Some countries space AM stations 9 kHz apart, and other countries use 10 kHz spacing. 9 kHz interval spacing is the initial setting.

- Be sure the receiver is turned off, but is plugged into an AC outlet when setting the AM tuner interval.

On the front panel ONLY:



To select the 10 kHz interval:

Hold down ADJUST and press ⏻/I STANDBY/ON.
"10k STEP" appears on the display.

To change back to the 9 kHz interval:

Hold down SETTING and press ⏻/I STANDBY/ON.
"9k STEP" appears on the display.

NOTE

When you change the AM tuner interval spacing, stored preset stations are erased. In this case, restore stations.

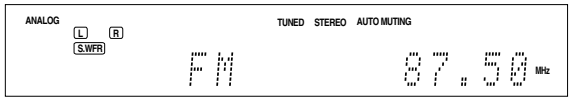
Tuning in to stations manually

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.



2 Press repeatedly or hold TUNING ⊕ or ⊖ TUNING until the station you want is tuned in.

- Pressing (or holding) TUNING ⊕ increases the frequency.
- Pressing (or holding) ⊖ TUNING 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 STEREO indicator also lights up.

Using preset tuning

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

To store the preset stations

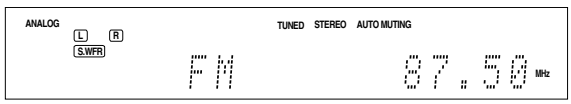
Before you start, remember...

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:

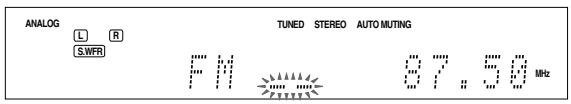
1 Tune in to the station you want to preset (see "Tuning in to stations manually" above).

- 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 26.



2 Press MEMORY.

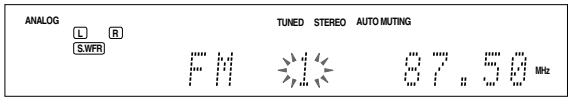
The channel number position starts flashing on the display for about 5 seconds.



CONTINUED ON THE NEXT PAGE

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.



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

The selected channel number stops flashing.
The station is assigned to the selected channel number.

5 **Repeat steps *1* to *4* 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.

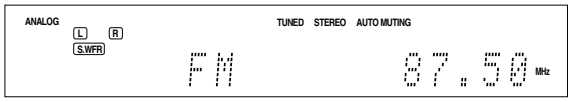
To tune in a preset station

From the remote control:

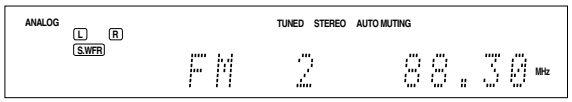
1 **Press FM/AM to select the band.**

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.

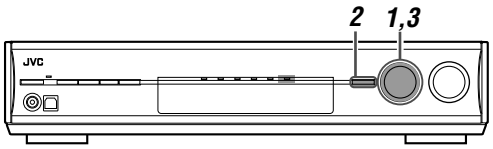


2 **Press the numeric buttons (1 – 10, +10) to select a preset channel number.**



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

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 **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.**

- To increase the preset channel numbers, turn MULTI JOG clockwise.
- To decrease the preset channel numbers, turn MULTI JOG counterclockwise.

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 25).

From the remote control ONLY:

While listening to an FM station, press FM MODE.

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

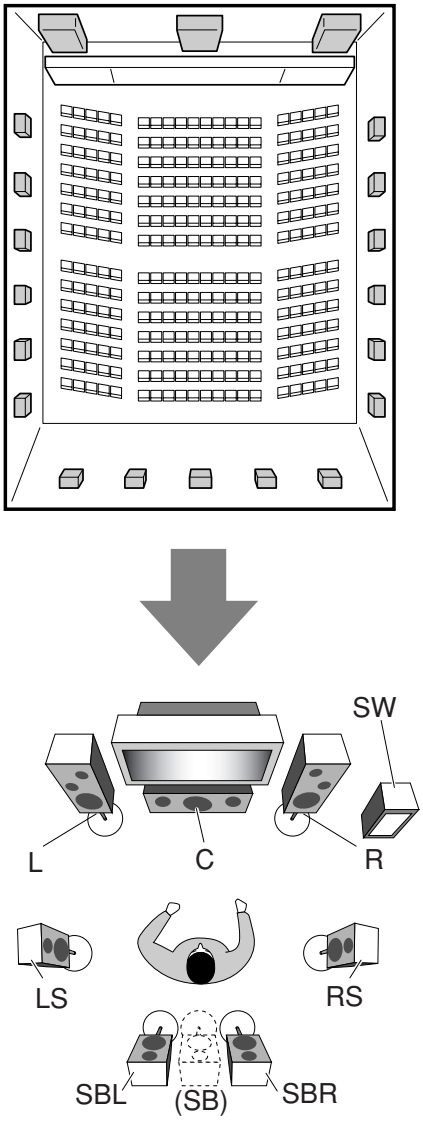
AUTO MUTING	Normally select this. When a program is broadcast in stereo, you will hear stereo sound; when in monaural, you will hear monaural sound. This mode is also useful to suppress static noise between stations. The AUTO MUTING indicator lights up on the display.
MONO	Select this to improve the 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 STEREO indicator also goes off.)

Initial setting: AUTO MUTING

Creating realistic sound fields

Reproducing theater ambience

In a movie theater, many speakers are located on the walls to reproduce impressive multi-channel 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 modes

■ Dolby Digital*

Dolby Digital is a digital signal compression method, developed by Dolby Laboratories, and enables multi-channel encoding and decoding.

- When Dolby Digital signal is detected through the digital input, the DIGITAL indicator lights up on the display.

Dolby Digital 5.1CH

Dolby Digital 5.1CH (DOLBY DIGITAL) 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, 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.

Dolby Digital EX

Dolby Digital EX (DOLBY D EX) is a digital surround encoding format that adds the third surround channels, called “surround back.”
Compared to the conventional Dolby Digital 5.1CH, these newly added surround back channels can reproduce more detailed movements behind you while viewing the video software. In addition, surround sound localization will become more stable.

■ Dolby Surround

Dolby Pro Logic II

Dolby Pro Logic II is a multi-channel playback format to convert 2-channel software into 5-channel (plus subwoofer). The matrix-based conversion method used for Dolby Pro Logic II makes no limitation for the cutoff frequency of the surround treble and enables stereo surround sound.

- This receiver provides two types of Dolby Pro Logic II modes— **Pro Logic II Movie** (PLII MOVIE) and **Pro Logic II Music** (PLII MUSIC).
  When Dolby Pro Logic II is activated, the PL II indicator lights up on the display.

PLII MOVIE	Suitable for playing any Dolby Surround encoded software. You can enjoy a sound field very close to the one created with discrete 5.1-channel sounds.
PLII MUSIC	Suitable for playing any 2-channel stereo software. You can enjoy wide and deep sounds.

* Manufactured under license from Dolby Laboratories. “Dolby”, “Pro Logic”, and the double-D symbol are trademarks of Dolby Laboratories.

CONTINUED ON THE NEXT PAGE

Dolby Pro Logic IIx

Dolby Pro Logic IIx is a newly introduced multi-channel playback format to convert not only multi-channel software but 2-channel software into 7.1 channel (or 6.1 channel) that developed from Dolby Pro Logic II. The matrix-based conversion method used for Dolby Pro Logic IIx makes no limitation for the cutoff frequency of the surround treble.

- This receiver provides two types of Dolby Pro Logic IIx modes—**Pro Logic IIx Movie** (PLIIx MOVIE) and **Pro Logic IIx Music** (PLIIx MUSIC).
  When Dolby Pro Logic IIx is activated, "PLIIx MOVIE" or "PLIIx MUSIC" appear and the DD PL IIx indicator lights up on the display.

PLIIx MOVIE	Suitable for playing any Dolby Surround encoded software. You can enjoy a sound field with a natural wraparound effect.
PLIIx MUSIC	Suitable for playing any 2-channel stereo software. You can enjoy wide and deep 7.1-channel sounds.

- To enjoy software encoded with Dolby Digital, connect the source component using the digital terminal on the rear of this receiver. (See page 10.)

■ DTS**

DTS is another digital signal compression method, developed by Digital Theater Systems, Inc., and enables multi-channel encoding and decoding (1ch up to 6.1ch).

- When DTS signal is detected through the digital input, the dts indicator lights up on the display.

DTS Digital Surround

DTS Digital Surround (DTS) 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.

DTS Extended Surround (DTS-ES)

DTS-ES is another multi-channel digital encoding format.
It greatly improves the 360-degree surround impression and space expression by adding the third surround channel—surround back channel.
DTS-ES includes two signal formats with different surround signal recording methods—**DTS-ES Discrete 6.1ch** (ES DISCRETE) and **DTS-ES Matrix 6.1ch** (ES MATRIX).
DTS-ES Discrete 6.1ch has been designed to encode (and decode) a 6.1-channel signal discretely to avoid interference with each channel.
DTS-ES Matrix 6.1ch has been designed to add an extra surround channel to DTS Digital Surround 5.1-channel. By using a matrix encoding/decoding method, an additional "surround back" channel signal is encoded (and decoded) in both the left and right surround channel signals.

DTS 96/24

In recent years, there has been increasing interest in higher sampling rates both for recording and for reproducing at home. Higher sampling rates allow wider frequency range and greater bit depths provide extended dynamic range.
DTS 96/24 is a multi-channel digital signal format (fs 96 kHz/24 bits) introduced by Digital Theater Systems, Inc. to deliver "better-than-CD sound quality" into the home.

- When DTS 96/24 signal is detected, the dts and 96/24 indicators light up. You can enjoy its 5.1-channel sound with full-quality.

DTS Neo:6

DTS Neo:6 is another conversion method to create 6-channel (plus subwoofer) from analog/digital 2-channel software by using the high precision digital matrix decoder used for DTS-ES Matrix 6.1ch.

- This receiver provides the following DTS Neo:6 modes—**Neo:6 Cinema** (NEO:6 CINEMA) and **Neo:6 Music** (NEO:6 MUSIC). When one of them is activated, the NEO:6 indicator lights up on the display.

NEO:6 CINEMA	Suitable for playing movies. You can get the same atmosphere with 2-channel software as with 6.1-channel software. It is also effective for playing software encoded with conventional surround formats.
NEO:6 MUSIC	Suitable for playing music software. The front channel signals bypass the decoder (resulting in no loss of sound quality) and the surround signals transmitted through the other speakers expand the sound field naturally.

** "DTS", "DTS-ES", "Neo:6" and "DTS 96/24" are trademarks of Digital Theater Systems, Inc.

When using Surround mode, the sounds come out of the activated speakers which the Surround mode requires.

- **If either "SURROUND SPK" or "CENTER SPK" is set to "<NO>" in the speaker setting (see page 17),** the corresponding channel signals are allocated to and emitted through the front speakers.
- **If both "SURROUND SPK" and "CENTER SPK" are set to "<NO>" in the speaker setting (see page 17),** JVC's original 3D-PHONIC processing (which has been developed to create the surround effect through the front speakers only) is used. The 3D-PHONIC indicator lights up on the display.

3D HEADPHONE mode

If you connect a pair of headphones while one of the Surround modes is in use, the 3D HEADPHONE mode is activated without respect to the type of software played back.
"3D HEADPHONE" appears on the display and the DSP and HEADPHONE indicators light up.

About other digital signals

Linear PCM

Uncompressed digital audio data used for DVDs, CDs, and Video CDs.
DVDs support 2 channels with sampling rates of 48/96 kHz, at quantization of 16/20/24 bits. On the other hand, CDs and Video CDs are limited to 2 channels with 44.1 kHz at 16 bits.

- When Linear PCM signal is detected, the LINEAR PCM indicator lights up.

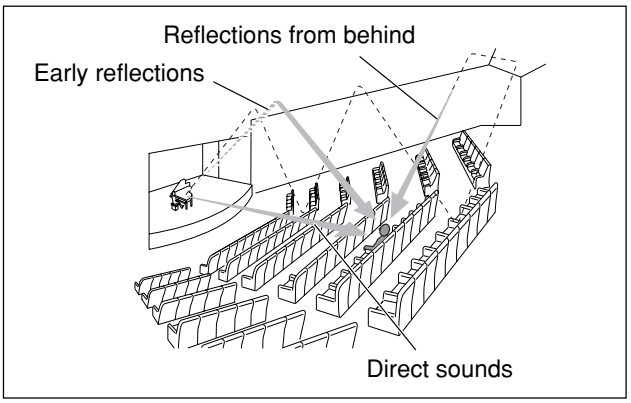
Dual Mono

Dual Mono can be easily understood when you think of the bilingual broadcast for TV programs (however, the Dual Mono format is not identical with those analog formats).
This format is now adopted in Dolby Digital, DTS, and so on. It allows two independent channels (called main channel and sub-channel) to be recorded separately.

- You can select either channel you want to listen to (see page 19).

Introducing the DSP modes

The sound heard in a concert hall, club, etc. 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. These direct sounds and indirect sounds are the most important elements of the acoustic surround effects.
The DSP modes can create these important elements, and give you a real "being there" feeling.



The DSP modes include the following modes:
- Digital Acoustic Processor (DAP) modes—HALL1, HALL2, LIVE CLUB, DANCE CLUB, PAVILION, THEATER1, THEATER2
- MONO FILM—Used for all types of 2-channel signals (including Dual Mono signal)
- All Channel Stereo mode (ALL CH STEREO)

When one of the DSP modes is activated, the DSP indicator lights up on the display.

■ Digital Acoustic Processor (DAP) modes

You can use the following DAP modes in order to reproduce a more acoustic sound field in your listening room.

HALL1	Reproduces the spatial feeling of a large shoebox-shaped hall designed primarily for classical concerts. (Its seating capacity is about 2000.)
HALL2	Reproduces the spatial feeling of a large vineyard-shaped hall designed primarily for classical concerts. (Its seating capacity is about 2000.)
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.
PAVILION	Reproduces the spatial feeling of an exhibition hall with a high ceiling.
THEATER1	Reproduces the spatial feeling of a large theater where the seating capacity is about 600.
THEATER2	Reproduces the spatial feeling of a small theater where the seating capacity is about 300.

NOTE

When "THEATER1" or "THEATER2" is activated while playing back 2-channel analog or digital source, the built-in Dolby Pro Logic II decoder is activated and the DD PL II indicator lights up.

When using the DAP mode, the sounds come out of all the connected and activated speakers.
- **If "SURROUND SPK" is set to "<NO>" in the speaker setting (see page 17),** JVC's original 3D-PHONIC processing (which has been developed to create the surround effect through the front speakers only) is used.
  The 3D-PHONIC indicator lights up on the display.

■ MONO FILM

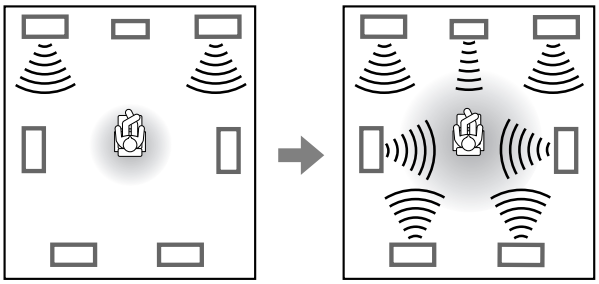
In order to reproduce a more acoustic sound field in your listening room while viewing monaural sound video software (analog and 2-channel digital signals including Dual Mono signal), you can use this mode.
The surround effect will be added, and the sound localization of actor's words will be improved.

This mode cannot be used for multi-channel digital signals.

When "MONO FILM" is used, sounds come out of all the connected (and activated) speakers.
- **If "SURROUND SPK" is set to "<NO>" in the speaker setting (see page 17),** JVC's original 3D-PHONIC processing (which has been developed to create the surround effect through the front speakers only) is used.
  The 3D-PHONIC indicator lights up on the display.
- If incoming signals change from 2-channel digital signal to another digital signal type, "MONO FILM" is canceled and an appropriate Surround mode is activated.

■ All Channel Stereo mode (ALL CH STEREO)

This mode can reproduce a larger stereo sound field using all the connected (and activated) speakers. **This mode cannot be used if "SURROUND SPK" is set to "<NO>" in the speaker setting (see page 17).**



Sound reproduced from normal stereo

Sound reproduced from All Channel Stereo mode

English

Using the Surround/DSP modes

Available Surround/DSP modes vary depending on the speaker settings and the incoming signals. See the table below.

- The numbers inside the parentheses following the incoming signal type indicate the number of the front channels and that of the surround channels. For example, (3/2) indicates that the signals are encoded with three front signals (left/right/center) and two (stereo) surround signals.
- For EX/ES/PLIIx setting, see page 18.

Incoming Signal Type		EX/ES/PLIIx setting				
		AUTO	ON	PLIIx MOVIE	PLIIx MUSIC	OFF
Dolby Digital	Dolby Digital Surround EX	DOLBY D EX*3*5	DOLBY D EX*3	◻◻ D+PLIIx MOVIE*2,3	◻◻ D+PLIIx MUSIC*3	DOLBY DIGITAL
	Dolby Digital (3/2, 2/2)	DOLBY DIGITAL	DOLBY D EX*3	◻◻ D+PLIIx MOVIE*2,3	◻◻ D+PLIIx MUSIC*3	DOLBY DIGITAL
	Dolby Digital (3/1, 2/1, 3/0, 1/0)	DOLBY DIGITAL				
	Dolby Digital (Dual Mono)	DUAL MONO				
DTS	DTS-ES Discrete*1	DTS-ES DSCRT*3	DTS-ES DSCRT*3	DTS+PLIIx MOVIE*2,3	DTS+PLIIx MUSIC*3	DTS SURROUND
	DTS-ES Matrix*1	DTS-ES MATRIX*3	DTS-ES MATRIX*3	DTS+PLIIx MOVIE*2,3	DTS+PLIIx MUSIC*3	DTS SURROUND
	DTS (3/2, 2/2)*1	DTS SURROUND	DTS+NEO:6*3	DTS+PLIIx MOVIE*2,3	DTS+PLIIx MUSIC*3	DTS SURROUND
	DTS (3/1, 2/1, 3/0, 1/0)	DTS				
	DTS (Dual Mono)	DUAL MONO				
Analog/LINEAR PCM Dolby Digital (2/0)		PLIIx MOVIE*4/PLIIx MUSIC*4/NEO:6 CINEMA/NEO:6 MUSIC				PLII MOVIE/ PLII MUSIC/ NEO:6 CINEMA/ NEO:6 MUSIC

*1 DTS 96/24 processing is not applied when the EX/ES/PLIIx setting is activated. If you want to apply the processing, set the EX/ES/PLIIx setting to "OFF" (see page 18).
*2 When "S BACK OUT" is set to "<1SPK>," ◻◻ D+PLIIx MOVIE is changed to DOLBY D EX and DTS+PLIIx MOVIE is changed to DTS+◻◻ EX.
*3 When "S BACK SPK" is set to "<NO>," Virtual Surround Back is activated for the modes and the VIRTUAL SB indicator lights up on the display.
*4 When "S BACK SPK" is set to "<NO>," PLIIx MOVIE is changed to PLII MOVIE and PLIIx MUSIC is changed to PLII MUSIC.
*5 For some Dolby Digital Surround EX software, Dolby Digital 5.1-channel reproduction ("DOLBY DIGITAL") may be applied even though you have selected "<AUTO>". In this case, select "<ON>" to apply "DOLBY D EX."

About the DSP modes

- The following DSP modes are available regardless of incoming signal type.
  HALL1, HALL2, LIVE CLUB, DANCE CLUB, PAVILION, THEATER1, THEATER2
- If an incoming signal is a multi-channel (more than 2 channel) digital signal, "MONO FILM" is not available.
- If "SURROUND SPK" is set to "<NO>," "ALL CH STEREO" is not available.

Virtual Surround Back

This function creates the great surround effect from the behind as if you have connected the surround back speaker. The VIRTUAL SB (Surround Back) indicator lights up on the display.
If you have connected (and activated) the surround speakers, you can use Virtual Surround Back without connecting the surround back speaker.
Virtual Surround Back is activated when EX/ES/PLIIx is set to other than "<OFF>" and when playing back the software including the following signals:

– Dolby Digital Surround EX
– DTS-ES
– Dolby Digital or DTS with more than 4-channels

Activating the Surround/DSP modes

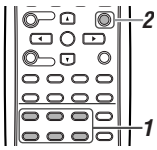
Available Surround/DSP modes vary depending on the speaker settings and the incoming signals. For details, see page 30.

Activating one of the Surround/DSP modes automatically recalls the memorized settings and adjustments.

- **To adjust the speaker output level,** see page 22.
- **When activating one of the Surround/DSP modes,** you can adjust CENTER TONE. (see page 24)
- **When activating one of the Surround/DSP modes (except PLIIx MUSIC, PLII MUSIC, NEO:6 MUSIC, and ALL CH STEREO),** you can adjust CENTER ALIGN. (see page 24)
- **When activating "NEO:6 MUSIC,"** you can adjust CENTER GAIN. (see page 24)
- **When activating the DSP mode (except ALL CH STEREO),** you can adjust the following settings:
  EFFECT (see page 23)
  LIVENESS (see page 23)
  ROOM SIZE (see page 23)
- **When activating "PLIIx MUSIC" and "PLII MUSIC,"** you can adjust the following settings:
  CENTER WIDTH (see page 24)
  DIMENSION (see page 24)
  PANORAMA (see page 23)

Selecting the Surround/DSP modes

From the remote control:

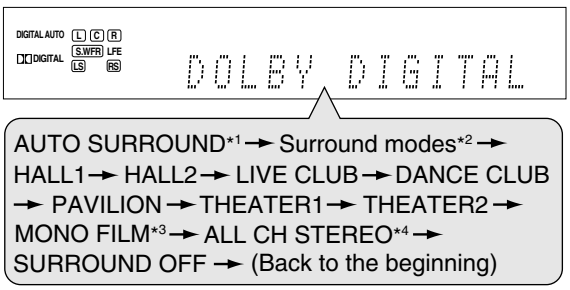


1 Select and play any source.

- Make sure you have selected the input mode (analog or digital) correctly.

2 Press SURROUND repeatedly to select the Surround/DSP mode you want.

Ex.: When "DOLBY DIGITAL" is selected for Dolby Digital multi-channel software:

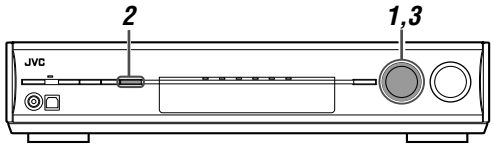


*1 "AUTO SURROUND" is the initial setting.
*2 Available Surround modes vary depending on the speaker settings and the incoming signals. For details, see page 30.
*3 If an incoming signal is a multi-channel (more than 2 channel) digital signal, "MONO FILM" is not available.
*4 If "SURROUND SPK" is set to "<NO>," "ALL CH STEREO" is not available.

To cancel Surround/DSP modes

Press SURROUND repeatedly so that "SURROUND OFF" appears on the display.

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 Select and play any source.

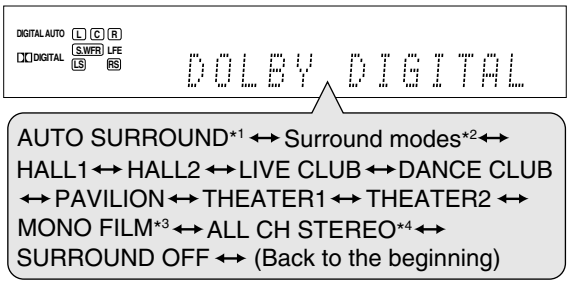
- Make sure you have selected the input mode (analog or digital) correctly.

2 Press SURROUND.

MULTI JOG now works for selecting Surround/DSP modes.

3 Turn MULTI JOG to select the Surround/DSP mode you want.

Ex.: When "DOLBY DIGITAL" is selected for Dolby Digital multi-channel software:



*1 "AUTO SURROUND" is the initial setting.
*2 Available Surround modes vary depending on the speaker settings and the incoming signals. For details, see page 30.
*3 If an incoming signal is a multi-channel (more than 2 channel) digital signal, "MONO FILM" is not available.
*4 If "SURROUND SPK" is set to "<NO>," "ALL CH STEREO" is not available.

To cancel Surround/DSP modes

Turn MULTI JOG so that "SURROUND OFF" appears on the display.

When you select "AUTO SURROUND"

You can enjoy the Surround mode easily.

- For details about the Surround modes, see page 30.
- When "AUTO SURROUND" is activated, the AUTO SURR indicator lights up on the display.

How does "AUTO SURROUND" work?

- If a multi-channel signal comes in, an appropriate Surround mode will be selected automatically.
- If a Dolby Digital 2-channel with surround signal comes in, "PLIIx MOVIE" or "PLII MOVIE" will be selected.
- If a Dolby Digital 2-channel without surround signal comes in, "SURROUND OFF (stereo)" will be selected.
- If a Linear PCM signal comes in, "SURROUND OFF (stereo)" will be selected.

NOTE

"AUTO SURROUND" does not take effect in the following cases:
– While playing an analog source,
– While selecting one of the fixed digital decode mode—"DOLBY DIGITAL" or "DTS" (see page 13).

English

AV COMPU LINK remote control system

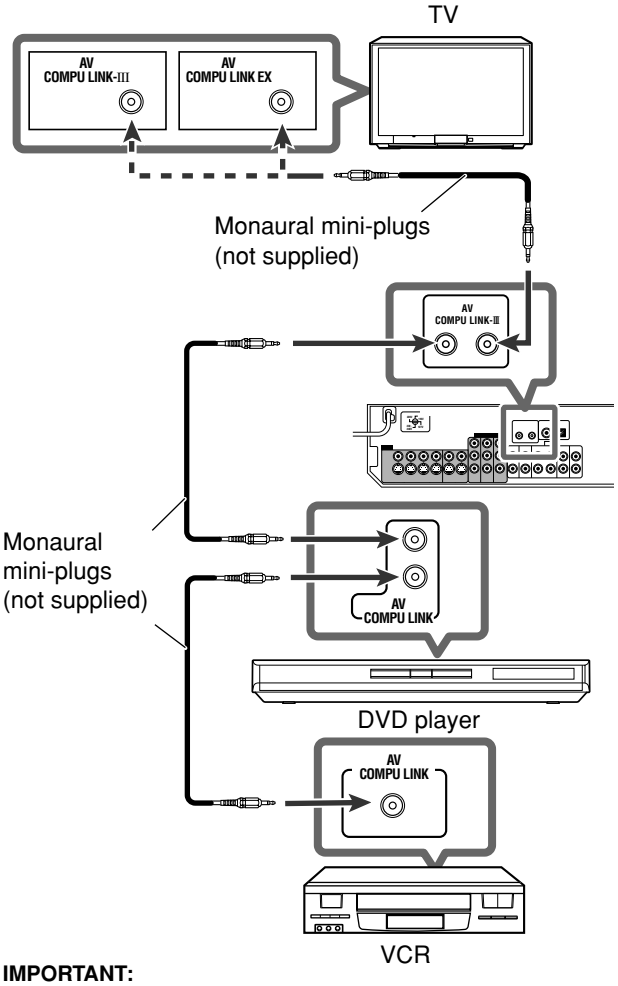
The AV COMPU LINK remote control system allows you to operate JVC's video components (TV, DVD player*, and VCR) through this receiver.

This receiver is equipped with the AV COMPU LINK-III, which has added a function to operate JVC's video components through the component video jacks. To use this remote control system, you need to connect the video components you want to operate, following the diagrams below and the procedures on page 33.

- Refer also to the manuals supplied with your video components.

* "DVD player" on pages 32 and 33 can be replaced with "DVD recorder."

Connections 1: AV COMPU LINK connection



IMPORTANT:

The AV COMPU LINK remote control system cannot control the DBS tuner connected to the DBS IN jacks.

NOTES

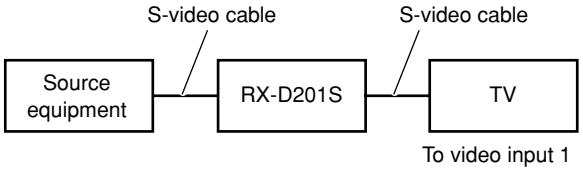
- When connecting the receiver and a TV with the AV COMPU LINK EX terminal by using a component video cable, you cannot use Automatic selection of TV's input mode (see page 33).
- When connecting only the VCR and DVD player to this receiver, connect it directly to the receiver using cable with the monaural mini-plugs.
- You can connect only the TV with AV COMPU LINK EX or AV COMPU LINK-III terminal to the AV COMPU LINK-III terminal.

Connections 2: Video cable connection

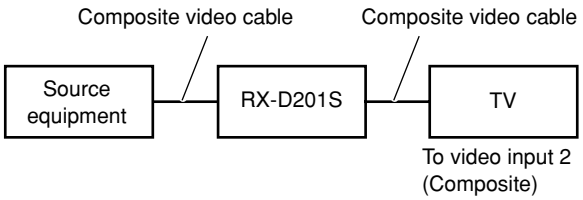
This receiver is equipped with three types of the video terminals—composite video, S-video, and component video, and the signals coming into this receiver through one type of video terminals can output only through the terminal of the same type. So you need to connect the video components to this receiver using one of the following three ways.

- When using the AV COMPU LINK remote control system, set the video input for the DVD player and the VCR correctly (see "Selecting the component video input mode—DVD VIDEO IN/ VCR VIDEO IN/DBS VIDEO IN" on page 20); otherwise, the correct input for this receiver will not be selected on the TV.

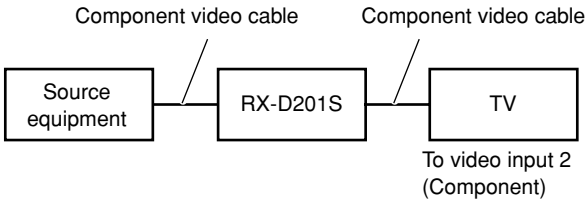
Case 1:
When connecting the source equipment to the receiver through the S-video terminals, connect this receiver to the TV's video input 1 terminal using S-video cables.



Case 2:
When connecting the source equipment to the receiver through the composite video jacks, connect this receiver to the TV's video input 2 terminal (composite video input) using composite video cables.



Case 3:
When connecting the source equipment to the receiver through the component video jacks, connect this receiver to the TV's video input 2 terminals (component video input) using component video cables.



Connecting procedure

1 If you have already plugged your VCR, DVD player, TV, and this receiver into the AC outlets, unplug their AC power cords first.

2 Connect your VCR, DVD player, TV, and this receiver as follows, using the cables with the monaural mini-plugs (not supplied).

- See “Connections 1” on the previous page.

3 Connect the audio input/output jacks on the VCR, DVD player, TV, and this receiver using the audio cables.

- See pages 7 to 9.

4 Connect the video input/output jacks on the VCR, DVD player, TV, and this receiver using the S-video cables, composite video cables, or component video cables.

- See “Connections 2” on the previous page.

5 Plug the AC power cords of the connected components and this receiver into the AC outlets.

6 When turning on the TV for the first time after the AV COMPU LINK connection, turn the TV volume to the minimum using the TV volume control on the TV.

7 Turn on other connected components first, then turn on this receiver.

- When turning on the VCR, use the remote control supplied with this receiver (press STANDBY/ON ⏻/I VCR).

The AV COMPU LINK remote control system allows you to use the five basic functions listed below.

Remote control of the TV, DVD player, and VCR using this remote control

See pages 34 and 35 for details.

- Aim the remote control directly at **the remote sensor on each component.**

One-touch video play

Simply by inserting a video cassette without its safety tab into the VCR, you can enjoy the video playback without setting other switches manually. The receiver automatically turns on and changes the source to “VCR” (or “VCR DIGITAL”).
The TV automatically turns on and changes the input mode to the appropriate position so that you can view the playback picture.
When you insert a video cassette with its safety tab, press the play (►) button on the VCR or on the remote control. So, you can get the same result.

One-touch DVD play

Simply by starting playback on the DVD player, you can enjoy the DVD playback without setting other switches manually.

- When the DVD player is connected through the analog input jacks on this receiver (and analog input is selected), the receiver automatically turns on and changes the source to “DVR/DVD.”
- When the DVD player is connected through the digital input terminal on this receiver (and digital input is selected), the receiver automatically turns on and changes the source to “DVR/DVD DGTL.”

The TV automatically turns on and changes the input mode to the appropriate position so that you can view the playback picture.

Automatic selection of TV’s input mode

- When you select “TV” (or “TV DIGITAL”) as the source to play on the receiver, the TV automatically changes the input mode to the TV tuner so that you can watch TV.
- When you select “DVR/DVD” (or “DVR/DVD DGTL”), “VCR” (or “VCR DIGITAL”), or “DBS” (or “DBS DIGITAL”) as the source to play on the receiver, the TV automatically changes the input mode to the appropriate position (either video input 1 or video input 2) so that you can view the playback picture.

NOTE

This function does not work when you connect this receiver and the TV with the AV COMPU LINK EX terminal using a component video cable. In this case, reconnect the TV referring to Case 1 or Case 2 on page 32.

Automatic power on/off

The TV, DVD player, and VCR turn on and off along with the receiver.
When you turn on the receiver;

- If the previously selected source is “TV” (or “TV DIGITAL”) or “DBS” (or “DBS DIGITAL”), only the TV will turn on automatically.
- If the previously selected source is “DVR/DVD” (or “DVR/DVD DGTL”), the TV and DVD player will turn on automatically.
- If the previously selected source is “VCR” (or “VCR DIGITAL”), the TV and VCR will turn on automatically.

When you turn off the receiver, the TV, DVD player, and VCR will turn off.

NOTE

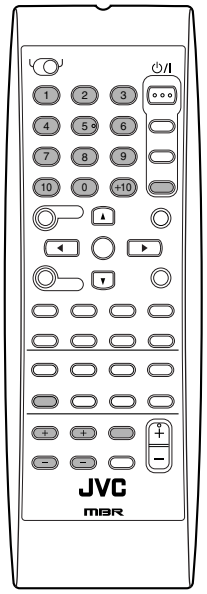
If you turn off the receiver while recording on the VCR, the VCR will not turn off, but continue recording.

Operating other JVC products

You can use the supplied remote control to operate not only this receiver but also other JVC products.

- Refer also to the manuals supplied with 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.”
  – Some JVC DVD recorders can accept four types of the control signals. This remote control can operate a DVD recorder whose remote control code is set to the initial code. For details, refer to the manual supplied with the DVD recorder.
- To operate other products, aim the remote control directly at the remote sensor on the target product.

■ TV



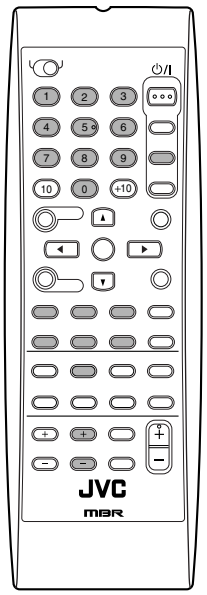
You can always perform the following operations:

TV VOLUME +/–:	Adjust the volume on the TV.
TV/VIDEO:	Change the input mode (either video input or TV tuner) on the TV.

After pressing TV, you can perform the following operations on the TV.

STANDBY/ON ⏻/I TV/DBS/CATV:	Turn on or off the TV.
CHANNEL +/–:	Change the channel numbers.
1 – 9, 0, 100+:	Select the channel numbers.
RETURN (10):	Switch between the previous channel and the current channel.

■ VCR



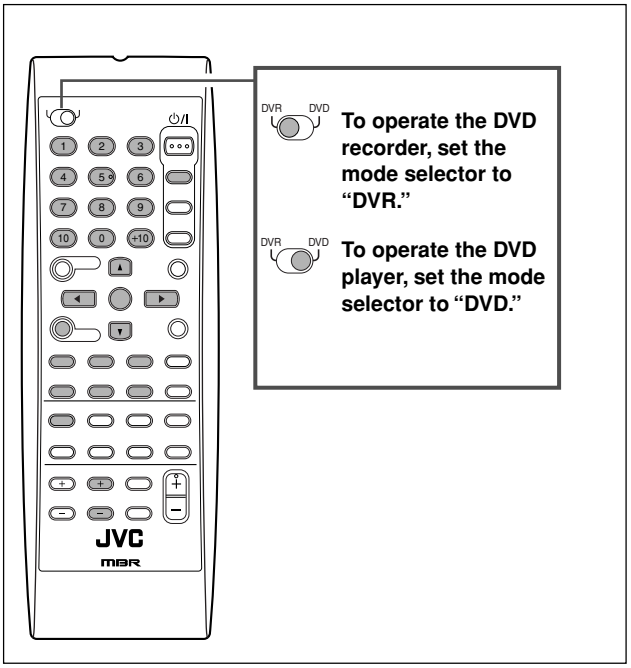
You can always perform the following operation:

STANDBY/ON ⏻/I VCR:	Turn on or off the VCR.

After pressing VCR, you can perform the following operations on the VCR.

CHANNEL +/–:	Change the channel numbers on the VCR.
►:	Start playback.
■:	Stop playback.
II:	Pause playback. To release it, press ►.
FF:	Fast-wind a tape.
REW:	Rewind a tape.
REC PAUSE:	Enter recording pause. To start recording, press this button then ►.

■ DVD recorder or DVD player



After setting the mode selector correctly, you can perform the following operations on the DVD recorder or DVD player.

See the instructions supplied with the DVD recorder or DVD player for details.

■ Changing the remote control code for DVD recorder

Some JVC DVD recorders can accept four types of the control signals. You can assign one of four codes to the remote control supplied with this receiver for operating your DVD recorder. For details, refer to the manual supplied with the DVD recorder.

Initial setting: 03

1 Set the mode selector to "DVR."

2 Press and hold STANDBY/ON ⏻/I DVR/DVD.

3 Press DVR/DVD.

4 Enter the remote control code you want using buttons 1 – 4, and 0.

EX.: To enter the code "2", press 0, then 2.

Code for DVR	Number to enter
1	01
2	02
3	03
4	04

5 Release STANDBY/ON ⏻/I DVR/DVD.

Now, the remote control code has been changed.

You can always perform the following operation:

STANDBY/ON ⏻/I DVR/DVD:	Turn on or off the DVD recorder or DVD player.

After pressing DVR/DVD, you can perform the following operations on the DVD recorder and DVD player.

►:	Start playback.
■:	Stop playback.
II:	Pause playback. To release it, press ►.
►►I:	Skip to the beginning of the next chapter.
I◄◄:	Return to the beginning of the current (or previous) chapter.
▲/▼/►/◄:	Select an item on the menu screen.
MENU:	Display the menu recorded on discs.
ENTER:	Enter the selected item, channel number, chapter/title number, or track number (if required).

Only for DVD recorder operations:

CHANNEL +/–:	Change the channel numbers.
1 – 9, 0:	Select a channel number (while stopped) or a chapter/title number, track number (while playing back). Press ENTER to enter the number.
REC PAUSE:	Enter recording pause. To start recording, press ►.

Only for DVD player operations:

1 – 10, 0, +10:	Select a chapter/title number, track number, menu item, etc.

If these buttons do not function normally, use the remote control supplied with your DVD recorder or DVD player. Refer also to the manuals supplied with the DVD recorder or DVD player for details.

English

Operating other manufacturers' products

By changing the transmittable signals, you can use the supplied remote control to operate other manufacturers' products.

- 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 TV, VCR, CATV converter, DBS tuner, and DVD player.
- After replacing batteries of the remote control, set the manufacturers' codes again.
- All the functions may not be assigned to the buttons in some equipment.

❑ Changing the transmittable signals for operating a TV

1 Press and hold STANDBY/ON ⏻/I TV/DBS/CATV.

2 Press TV.

3 Enter the manufacturer's code using buttons 1 – 9, and 0.

See "Manufacturers' codes for TV" on the right.

4 Release STANDBY/ON ⏻/I TV/DBS/CATV.

Now, you can perform the following operations on the TV.

TV VOLUME +/–:	Adjust the volume on the TV.
TV/VIDEO:	Change the input mode (either TV or VIDEO).

After pressing TV, you can perform the following operations on the TV.

STANDBY/ON ⏻/I TV/DBS/CATV:	Turn on or off the TV.
CHANNEL +/–:	Change the channel numbers.
1 – 9, 0, 100+ (+10):	Select the channel numbers.

See the instructions supplied with the TV for details.

5 After pressing TV, try to operate your TV by pressing STANDBY/ON ⏻/I TV/DBS/CATV.

When your TV turns on or off, you have entered the correct code.

If more than one code is listed for your brand of TV, try each one until the correct one is entered.

Manufacturers' codes for TV

Manufacturer	Codes
JVC	01
Hitachi	10
Magnavox	02
Mitsubishi	03
Panasonic	04,11
RCA	05
Samsung	12
Sanyo	13
Sharp	06
Sony	07
Toshiba	08
Zenith	09

Initial setting: 01

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 STANDBY/ON ⏻/I VCR.

2 Press VCR.

3 Enter the manufacturer's code using buttons 1 – 9, and 0.

See "Manufacturers' codes for VCR" on the right.

4 Release STANDBY/ON ⏻/I VCR.

Now, you can perform the following operation on the VCR.

STANDBY/ON ⏻/I VCR:	Turn on or off the VCR.

After pressing VCR, you can perform the following operations on the VCR.

CHANNEL +/–:	Change the channel numbers on the VCR.
►:	Start playback.
■:	Stop playback.
II:	Pause playback.
FF:	Fast-wind a tape.
REW:	Rewind a tape.
REC PAUSE:	Enter recording pause. To start recording, press this button then ►.

See the instructions supplied with the VCR for details.

5 Try to operate your VCR by pressing STANDBY/ON ⏻/I VCR.

When your VCR turns on or off, you have entered the correct code.

If more than one code is listed for your brand of VCR, try each one until the correct one is entered.

Manufacturers' codes for VCR

Manufacturer	Codes
JVC	01, 02, 03
Emerson	10, 22
Gold Star	11
Hitachi	04
Mitsubishi	12
NEC	21
Panasonic	07, 13
Philips	09
RCA	05, 06
Samsung	20
Sanyo	17, 18, 19
Sony	14, 15, 16
Zenith	08

Initial setting: 01

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 CATV converter or DBS tuner

1 Press and hold STANDBY/ON ⏻/I TV/DBS/CATV.

2 Press DBS.

3 Enter the manufacturer's code using buttons 1 – 9, and 0.

See "Manufacturers' codes for CATV converter/DBS tuner" below.

4 Release STANDBY/ON ⏻/I TV/DBS/CATV.

After pressing DBS, you can perform the following operations on the CATV converter or DBS tuner.

STANDBY/ON ⏻/I TV/DBS/CATV:	Turn on or off the CATV converter or DBS tuner.
CHANNEL +/–:	Change the channel numbers on the CATV converter or DBS tuner.
1 – 10, 0, +10:	Select the channel numbers on the CATV converter or DBS tuner.

See the instructions supplied with the CATV converter or DBS tuner for details.

5 After pressing DBS, try to operate your CATV converter or DBS tuner by pressing STANDBY/ON ⏻/I TV/DBS/CATV.

When your CATV converter or DBS tuner turns on or off, you have entered the correct code.

If more than one code is listed for your brand of CATV converter or DBS tuner, try each one until the correct one is entered.

Manufacturers' codes for CATV converter/ DBS tuner

Manufacturer	Codes
Echostar (JVC)	01
G.I.	02, 03
Hamlin	10 – 13
Pioneer	08, 09
RCA	14
Scient	04, 05
Sony	15
Zenith	06, 07

Initial setting: 01

❑ Changing the transmittable signals for operating a DVD player

1 Set the mode selector to "DVD."

2 Press and hold STANDBY/ON ⏻/I DVR/DVD.

3 Press DVR/DVD.

4 Enter the manufacturer's code using buttons 1 – 9, and 0.

See "Manufacturers' codes for DVD player" below.

5 Release STANDBY/ON ⏻/I DVR/DVD.

Now, you can perform the following operation on the DVD player.

STANDBY/ON ⏻/I DVR/DVD:	Turn on or off the DVD player.
►:	Start playback.
I◄◄:	Return to the beginning of the current chapter (or fast-forward for some models).
►►I:	Skip to the beginning of the next chapter (or fast-reverse for some models).
■:	Stop playback.
II:	Pause playback.
MENU:	Display the menu recorded on DVD VIDEO discs.
▲/▼/►/◄:	Select an item on the menu screen.
ENTER:	Enter the selected item.
1 – 10, 0, +10:	Select the chapter number.

See the instructions supplied with the DVD player for details.

6 Try to operate your DVD player by pressing STANDBY/ON ⏻/I DVR/DVD.

When your DVD player turns on or off, you have entered the correct code.

Manufacturers' codes for DVD player

Manufacturer	Codes
JVC	01
Panasonic	02
Philips	04
Pioneer	03
Sony	05
Toshiba	06
Yamaha	07

Initial setting: 01

NOTE

You cannot use this remote control to operate other manufacturers' DVD recorder.

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.

	PROBLEM	POSSIBLE CAUSE	SOLUTION
Power	The power does not come on.	The power cord is not plugged in.	Plug the power cord into an AC outlet.
	The receiver turns off (enters standby mode).	Speakers are overloaded because of high volume.	1. Stop the playback source. 2. Turn on the receiver again, then turn the volume down.
		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.
		The receiver is overloaded because of a high voltage.	Consult your dealer after unplugging the power cord.
	"OVER HEAT" flashes on the display, then the receiver turns off.	The receiver is overloaded because of high volume or long time usage.	Turn the volume down or turn off the receiver for a while and turn it on again. If the receiver turns off soon after doing solutions above, consult your dealer after unplugging the power cord.
Sound	No sound from speakers.	Speaker signal cables are not connected.	Check speaker wiring, then reconnect if necessary (see page 6) after unplugging the power cord.
		Connections are incorrect.	Check the audio connections (see pages 7 to 11) after unplugging the power cord.
		An incorrect source is selected.	Select the correct source.
		Muting is activated.	Press MUTING to cancel the mute (see page 14).
		An incorrect input mode (analog or digital) is selected.	Select the correct input mode (analog or digital).
	Sound from one speaker only.	Speaker signal cables are not connected properly.	Check speaker wiring and reconnect if necessary (see page 6) after unplugging the power cord.
	Sounds are intermittently distorted by the outside noise such as a lightning discharge.	When you use the digital coaxial connection, the sounds may be intermittently distorted by the outside noise such as a lightning discharge but the sound will be restored automatically.	This is not a malfunction.
Remote control	Remote control does not operate as you intend.	The remote control is not ready for your intended operation.	Set the mode selector correctly, then press the corresponding source selecting button or SOUND before operation.
	Remote control does not work.	There is an obstruction hiding the remote sensor on the receiver.	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.
Tuner	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 another station.
		The wrong antenna is being used.	Check with your dealer to be sure you have the correct antenna.
		Antennas are not connected properly.	Check the connections.
	Occasional cracking noise during FM reception.	Ignition noise from automobiles.	Move the antenna farther from automobile traffic.

Specifications

Designs and specifications are subject to change without notice.

Amplifier

Output Power

At stereo operation:

Front channels: 100 W* per channel, min. RMS, driven into 6 Ω at 1 kHz with no more than 0.8% total harmonic distortion.

At surround operation:

Front channels: 100 W* per channel, min. RMS, driven into 6 Ω at 1 kHz with no more than 0.8% total harmonic distortion.

Center channel: 100 W*, min. RMS, driven into 6 Ω at 1 kHz, with no more than 0.8% total harmonic distortion.

Surround channels: 100 W* per channel, min. RMS, driven into 6 Ω at 1 kHz, with no more than 0.8% total harmonic distortion.

Surround back channels: 100 W* per channel, min. RMS, driven into 6 Ω at 1 kHz, with no more than 0.8% total harmonic distortion.

* Measured on AC 110 V, 127 V, 220 V, and 240 V.

Audio

Audio Input Sensitivity/Impedance:

DVR/DVD, VCR, DBS, TV: 270 mV/47 kΩ

Audio Input (DIGITAL IN)*:

Coaxial: DIGITAL IN 1(DVR/DVD): 0.5 V(p-p)/75 Ω

Optical: DIGITAL IN 2(DBS): –21 dBm to –15 dBm (660 nm ±30 nm)

USB: USB DIGITAL

* Corresponding to Linear PCM, Dolby Digital, and DTS (with sampling frequency—32 kHz, 44.1 kHz, 48 kHz).

Audio Output Level:

DVR, VCR: 270 mV

Signal-to-Noise Ratio ('66 IHF/DIN): 80 dB/62 dB

Frequency Response (6 Ω): 20 Hz to 20 kHz (±1 dB)

Bass Boost: +4 dB ±1 dB at 100 Hz

Equalization (at DSP operation):

Center frequency: 63 Hz, 250 Hz, 1 kHz, 4 kHz, 16 kHz

Control range: ±8 dB

Video

Video Input Sensitivity/Impedance:

Composite video: DVR/DVD, VCR, DBS: 1 V(p-p)/75 Ω

S-video: DVR/DVD, VCR, DBS:

Y (luminance): 1 V(p-p)/75 Ω

C (chrominance, burst): 0.3 V(p-p)/75 Ω

Component: DVR/DVD, VCR (DBS):

Y (luminance): 1 V(p-p)/75 Ω

PB, PR: 0.7 V(p-p)/75 Ω

Video Output Level/Impedance:

Composite video: DVR, VCR, MONITOR OUT: 1 V(p-p)/75 Ω

S-video: DVR, VCR, MONITOR OUT:

Y (luminance): 1 V(p-p)/75 Ω

C (chrominance, burst): 0.3 V(p-p)/75 Ω

Component: MONITOR OUT:

Y (luminance): 1 V(p-p)/75 Ω

PB, PR: 0.7 V(p-p)/75 Ω

Synchronization: Negative

FM tuner (IHF)

Tuning Range: 87.50 MHz to 108.00 MHz

Usable Sensitivity:

Monaural: 12.8 dBf (1.2 μV/75 Ω)

50 dB Quieting Sensitivity:

Monaural: 16.0 dBf (1.7 μV/75 Ω)

Stereo: 37.5 dBf (20.5 μV/75 Ω)

Stereo Separation at REC OUT: 35 dB at 1 kHz

AM tuner

Tuning Range: 531 kHz to 1 710 kHz (at 9 kHz intervals)
530 kHz to 1 710 kHz (at 10 kHz intervals)

General

Power Requirements: AC 110 V/127 V/220 V/230 V – 240 V ~, adjustable with the voltage selector, 50 Hz/60 Hz

Power Consumption: 180 W (at operation)
0.9 W (in standby mode)

Dimensions (W x H x D): 435 mm x 91.5 mm x 360 mm

Mass: 6.7 kg

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部件识别

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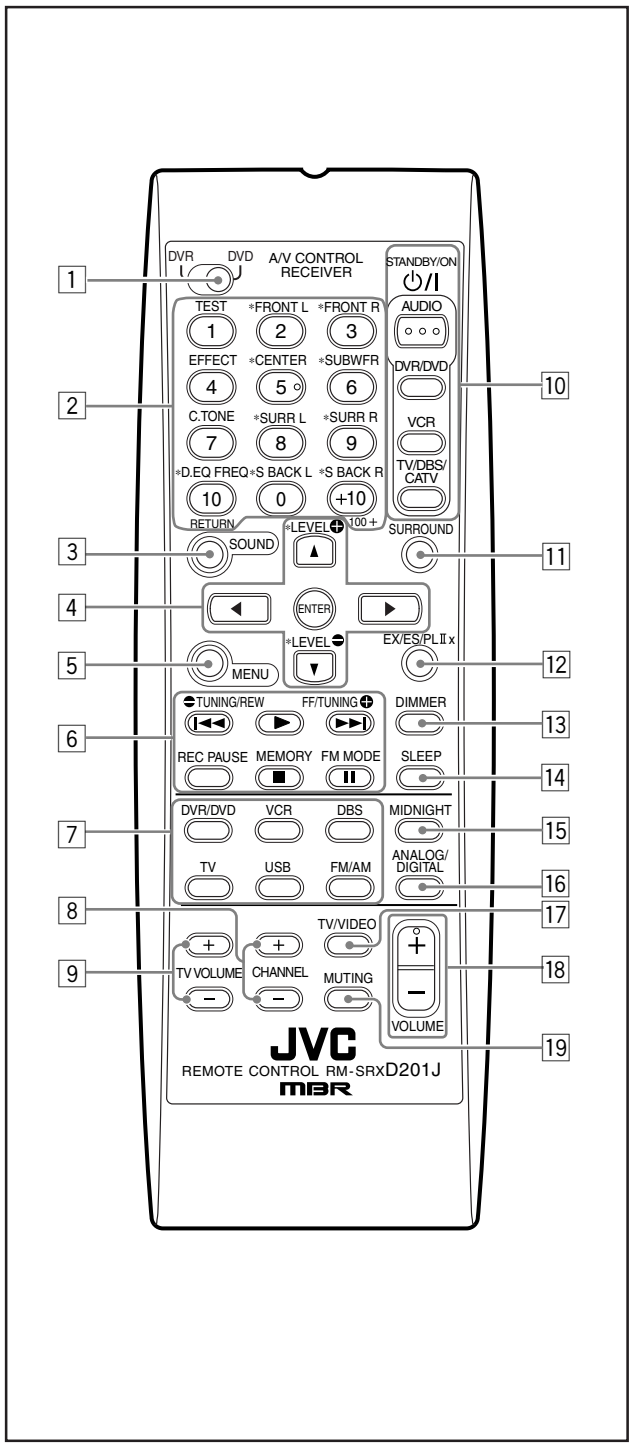


遥控器

详情请参阅括号中所示之页。

1 DVR/DVD 模式选择器（35, 38）

2 • 数字键（26, 34 – 38）
  1 – 10, 0, +10, 100+
  • 扬声器和重低音扬声器输出水平及声音调整的调整键（22）
  TEST, FRONT L, FRONT R, EFFECT, CENTER, SUBWFR, C. TONE, SURR L, SURR R, D. EQ FREQ, S BACK L, S BACK R
  • RETURN 键（34）

3 SOUND 键（22 – 24）

4 • DVD 录像机或 DVD 视盘机操作键*
  游标键（►, ◄, ▲, ▼），ENTER 键（35, 38）
  • 扬声器和重低音扬声器输出水平及 D. EQ FREQ 水平的调整键（22）
  LEVEL ⊕, LEVEL ⊖

5 DVD 录像机或 DVD 视盘机 MENU 键*（35, 38）

6 • 视频组件操作键（34, 35, 37, 38）
  |◄◄, ►, ►►|, ■, ❚❚, REW, FF, REC PAUSE
  • 调谐器操作键（25, 26）
  ⊖ TUNING, TUNING ⊕, MEMORY, FM MODE

7 信号源选择键（12, 25, 26, 34 – 38）
  DVR/DVD, VCR, DBS, TV, USB, FM/AM

8 CHANNEL +/– 键（34 – 38）

9 TV VOLUME +/– 键（34, 36）

10 STANDBY/ON ⏻/I 键（12, 34 – 38）
  AUDIO, DVR/DVD, VCR, TV/DBS/CATV

11 SURROUND 键（31）

12 EX/ES/PLIIx 键（18）

13 DIMMER 键（14）

14 SLEEP 键（14）

15 MIDNIGHT 键（19）

16 ANALOG/DIGITAL 键（12）

17 TV/VIDEO 键（34, 36）

18 VOLUME +/– 键（13）

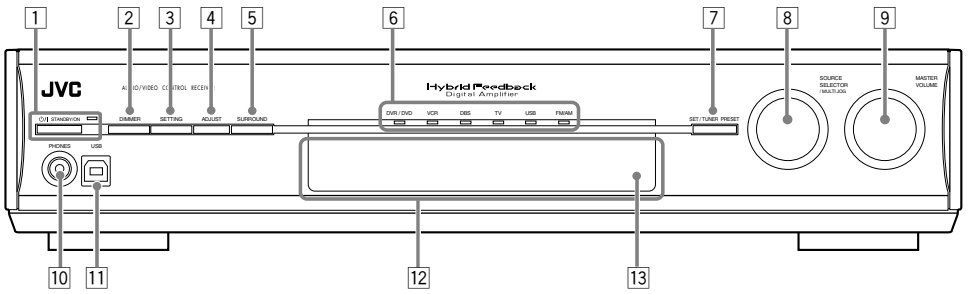
19 MUTING 键（14）

* 若把模式选择器设定在“DVR” 或“DVD”，这些键可以用来操作 JVC DVD 录像机或 DVD 视盘机（参阅第 35 页）。
如果这些键不能正常发挥作用，使用您的 DVD 录像机或 DVD 视盘机附带的遥控器。有关详情另请参阅 DVD 录像机或 DVD 视盘机附带的使用手册。

- **操作 DVD 录像机时（仅适用于 JVC 产品），将模式选择器（1）设定在 “DVR”。**
- **操作 DVD 视盘机时，将模式选择器（1）设定在 “DVD”。**

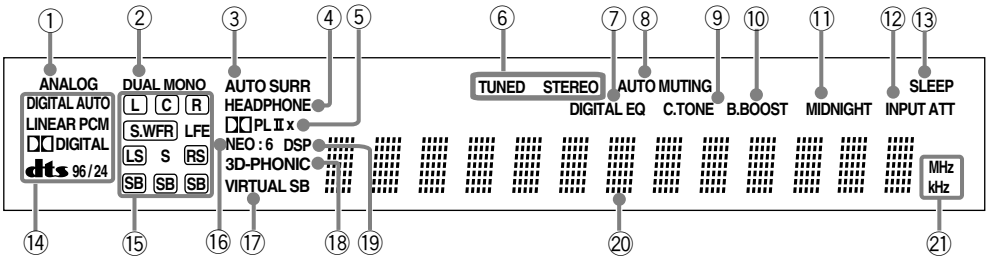
详情请参阅括号中所示之页。

前面板



1 ⏻/I STANDBY/ON（待机/启动）键和待机灯（12, 25）
2 DIMMER 键（14）
3 SETTING 键（15, 17, 25）
4 ADJUST 键（21, 25）
5 SURROUND 键（31）
6 信号源灯
DVR/DVD, VCR, DBS, TV, USB, FM/AM
7 • SET 键（15, 17, 21）
• TUNER PRESET 键（26）
8 • SOURCE SELECTOR（12, 26）
• MULTI JOG（15, 17, 21, 26, 31）
9 MASTER VOLUME（主音量）控制旋钮（13）
10 PHONES（头戴耳机）插孔（13）
11 USB 端子（10）
12 显示窗（见下述）
13 遥感窗（4）

显示窗



① ANALOG 指示灯（13）
② DUAL MONO 指示灯（19）
③ AUTO SURR（环绕声）指示灯（31）
④ HEADPHONE 指示灯（13, 28）
⑤ PL II 和 PL IIx 指示灯（27 – 29）
⑥ 调谐器操作指示灯（25）
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⑦ DIGITAL EQ 指示灯（22）
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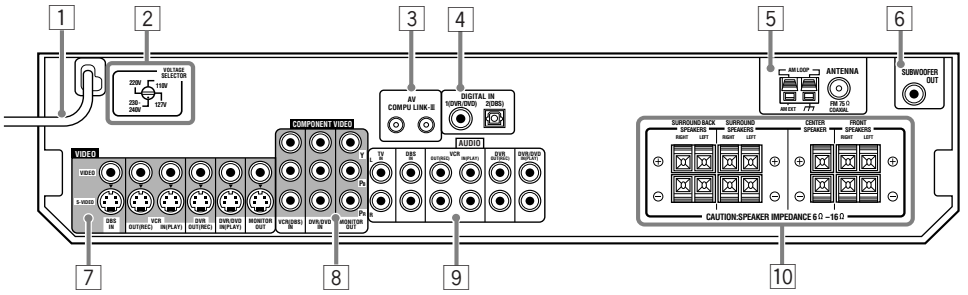
⑩ B.BOOST 指示灯（23）
⑪ MIDNIGHT 指示灯（19）
⑫ INPUT ATT（衰减器）指示灯（23）
⑬ SLEEP 指示灯（14）
⑭ 数码信号制式指示灯（13, 27, 28）
DIGITAL AUTO, LINEAR PCM, DIGITAL, dts, 96/24
⑮ 信号和扬声器指示灯（14）
⑯ NEO:6 指示灯（28）
⑰ VIRTUAL SB 指示灯（30）
⑱ 3D-PHONIC 指示灯（28, 29）
⑲ DSP 指示灯（28, 29）
⑳ 主显示屏
㉑ 频率单位指示灯
MHz（FM 电台），kHz（AM 电台）

后面板



1 电源线（11）
2 VOLTAGE SELECTOR（电压选择器）（4）
3 AV COMPU LINK-III 端子（32）
4 DIGITAL IN 端子（10）
• 同轴:1（DVR/DVD）
• 光学:2（DBS）
5 ANTENNA 端子（5）
6 SUBWOOFER OUT 插孔（6）
7 VIDEO（视频）端子（7 – 9）
VIDEO（复合视频）插孔, S-VIDEO 端子
• 输入:DBS IN, VCR IN（PLAY）, DVR/DVD IN（PLAY）
• 输出:VCR OUT（REC）, DVR OUT（REC）, MONITOR OUT
8 COMPONENT VIDEO（Y, PB, PR）插孔（7 – 9）
VCR（DBS）IN, DVR/DVD IN, MONITOR OUT
9 AUDIO（音频）插孔（7 – 9）
• 输入:TV IN, DBS IN, VCR IN（PLAY）, DVR/DVD IN（PLAY）
• 输出:VCR OUT（REC）, DVR OUT（REC）
10 扬声器端子（6）
SURROUND BACK SPEAKERS, SURROUND SPEAKERS, CENTER SPEAKER, FRONT SPEAKERS

中文

如何着手

中文

安装之前

一般注意事项

- 确保双手是干的。
- 关闭所有组件的电源。
- 阅读您所要连接的组件附带的使用手册。

安装位置

- 请将接收机安装在平坦且防湿防尘处。
- 接收机周围的温度必须在 −5˚C 和 35˚C 之间。
- 确保接收机周围有良好的通风环境。通风不良可能导致过热并由此损坏接收机。
- 在接收机和电视机之间保留足够的距离。

保养接收机

- 切勿将任何金属物体插入到本机内。
- 切勿拆卸本机或卸下螺丝，盖子或机壳。
- 切勿将本机暴露于受雨淋或潮湿的地方。
- 拔下插头缆线时不要拉电源线。要拔下插头缆线时，务必握住插头以便不会损伤缆线。
- 当您要外出旅行或处理其他事务一段时间时，请将插头从墙壁插座上拔出。当电源插头插在墙壁插座上时，总会消耗微量电源。

接收机有内置冷却扇,当接收机启动时便开始运作。请确保足够的通风以达到充足的冷却效果。

注意:

在连接完成之前不要将交流电源插头插入到墙壁插座上。

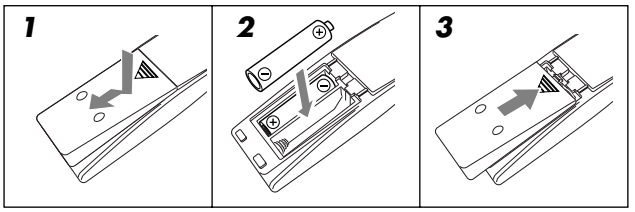
检查附件

请确认附件里是否含有以下所有项目。如果有任何物品遗漏，请立即与经销商联系。

- 遥控器（×1）
- 电池（×2）
- AM 环形天线（×1）
- FM 天线（×1）
- 交流电源转换器（×1）

将电池装入遥控器

使用遥控器之前，请先装入附带的两节电池。



1 按压并退出遥控器背面的电池盖。

2 装入电池。

请确保对准电池的电极：（+）对（+）和（–）对（–）。

3 重新盖上后盖。

如果遥控器的操作范围或效能减弱，需要更换电池。请使用两节 R6(SUM-3)/AA(15F) 型干电池。

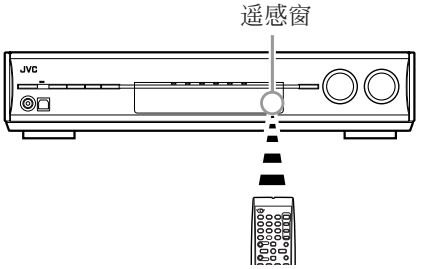
- 附带的电池是用来进行初始设定用的。继续使用时请更换电池。

注意:

请遵循下列注意事项以免发生电池漏电或爆裂：

- 对准所示电极将电池装入遥控器：（+）对（+）和（–）对（–）。
- 请使用正确型号的电池。看似相同的电池可能电压不同。
- 两节电池应同时更换。
- 切勿将电池暴露于热气或火焰处。

使用遥控器时，请将遥控器对准前面板上的遥感窗。

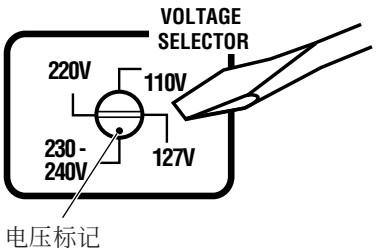


设定电压选择器

连接之前，如果需要一般先进行下列操作。

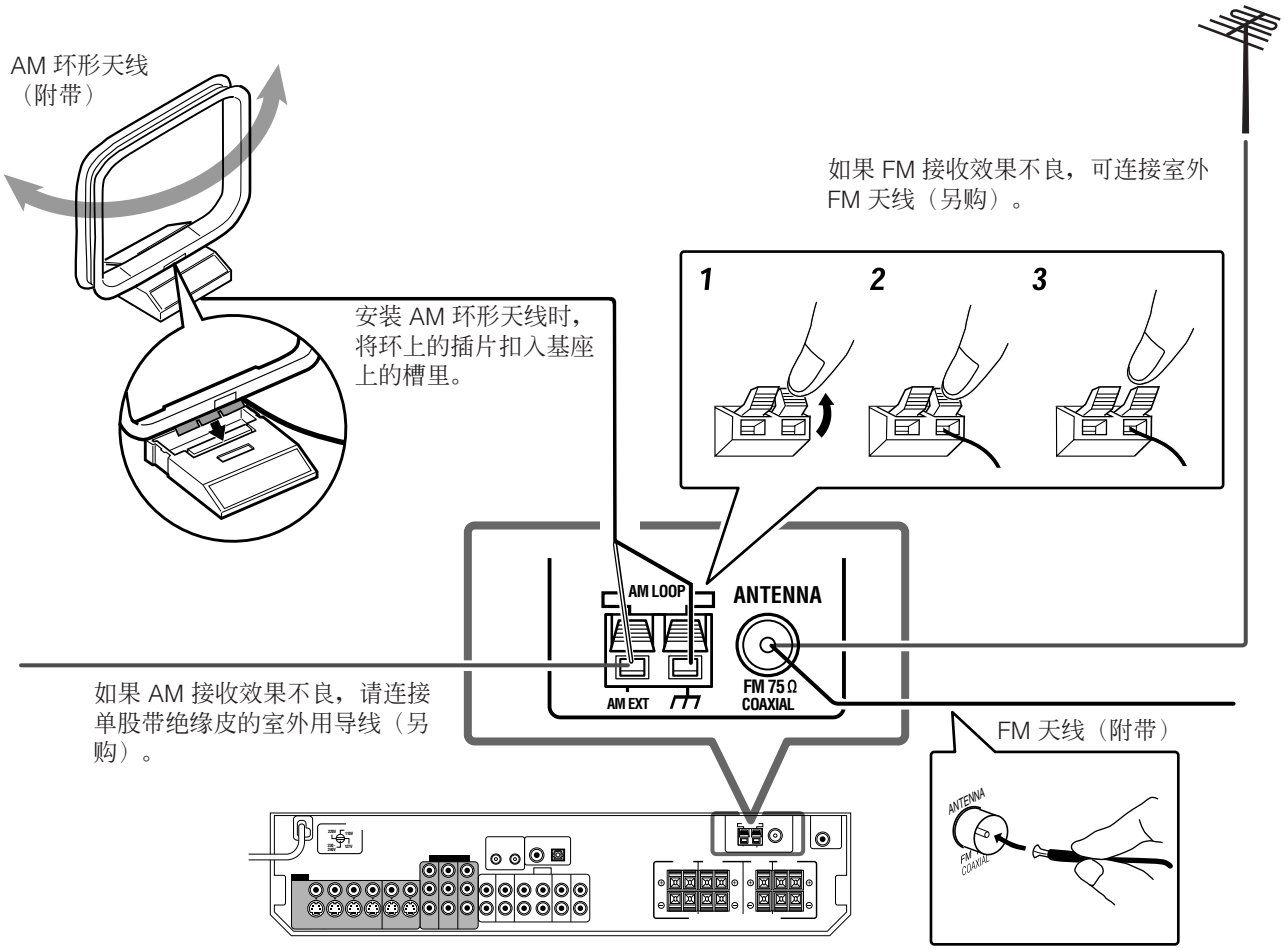
用螺丝起子在接收机后面板上的 VOLTAGE SELECTOR （电压选择器）上选择正确的电压。

- 确认电压标记是否设定在接通本机所用的当地电压。



连接 FM（调频）与 AM（调幅）天线

在连接完成之前不要将交流电源插头插入到墙壁插座上。



AM 天线的连接

将附带的 AM 环形天线连接至 AM LOOP 端子。
将白色导线接至 AM EXT 端子，将黑色导线接至 ⏚ 端子。
转动天线环直到获得最佳接收效果。

- 如果接收效果不良，请将单股带绝缘皮的室外导线（另购）连接至 AM EXT 端子。保持 AM 环形天线处于连接状态。

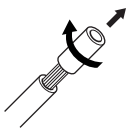
FM 天线的连接

将附带的 FM 天线连接至 FM 75 Ω COAXIAL 端子作为临时接收用。
横向拉长附带的 FM 天线。

- 如果接收效果不良，可连接室外 FM 天线（另购）。在使用连接器（IEC 或 DIN 45325）连接 75 Ω 同轴电缆之前，请先卸下附带的 FM 天线。

注

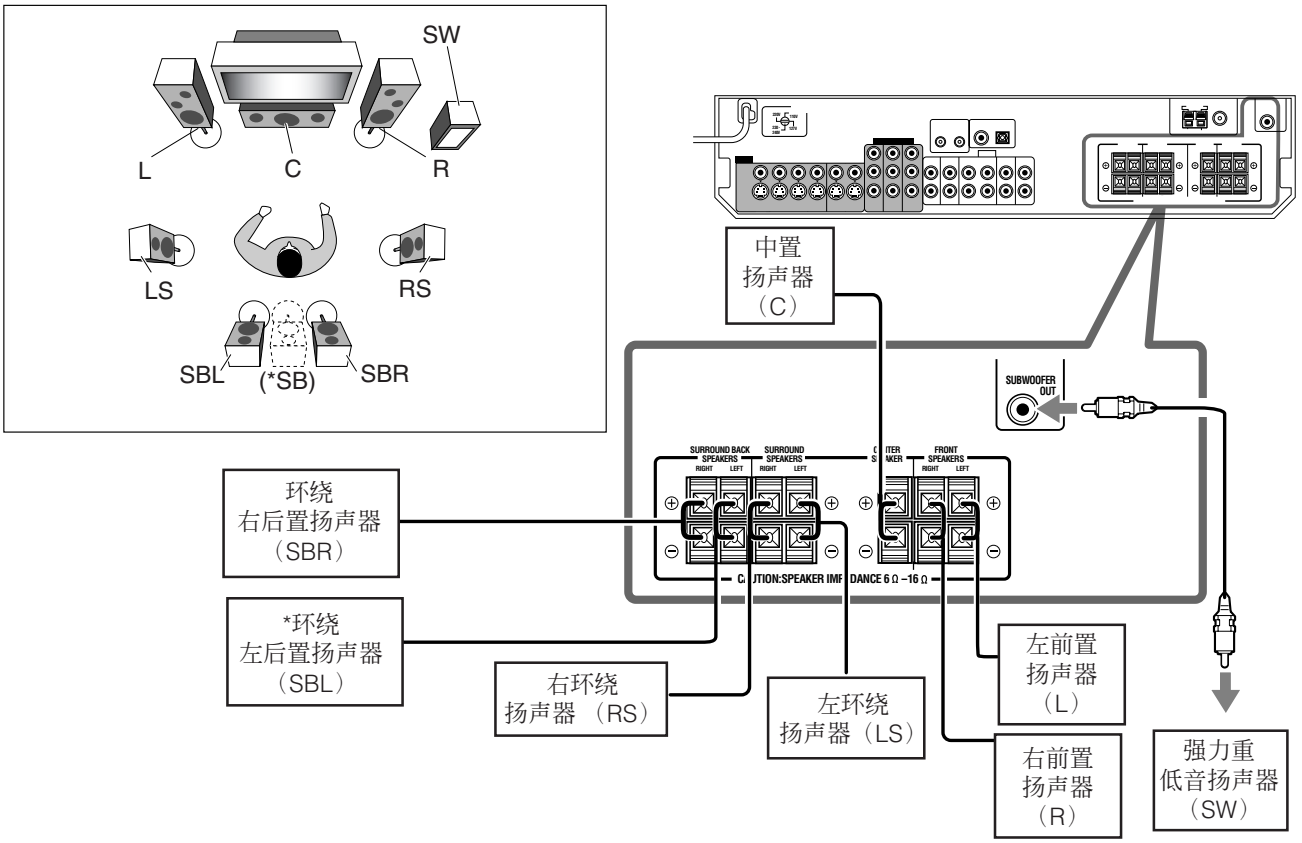
- 如果 AM 环形天线带有绝缘皮，请按右图所示方向旋转将绝缘皮除去。
- 确保天线导体勿与其他任何端子，接通中的导线以及电源线相碰触。如此可能导致接收效果不良。



连接扬声器

在连接完成之前不要将交流电源插头插入到墙壁插座上。

扬声器安装式样图

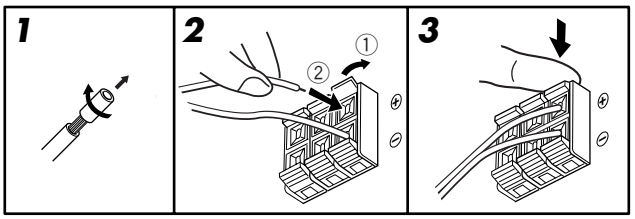


注意：

- 请使用扬声器端子（6 Ω – 16 Ω）所标 SPEAKER IMPEDANCE（扬声器阻抗）的扬声器。
- 切勿将一个以上的扬声器连接到一个扬声器端子上。

连接扬声器

在连接之前关闭所有组件的电源。



1 扭曲并去除每条扬声器导线尾部的绝缘体。

2 打开端子（①），然后插入扬声器导线（②）。

- 连接每个扬声器时，可将后面板上的（+）及（–）端子分别与扬声器上标记（+）及（–）的端子相连接。

3 关闭端子。

***当使用一个单独的扬声器做为环绕后置扬声器时**

您可以欣赏到一个环绕后置扬声器播放的环绕声效果。当使用一个环绕后置扬声器时，

– 将“SB OUT”设定为“<1SPK>”（参阅第 17 页）并

– 将环绕后置扬声器连接至环绕左后置扬声器端子。**（若您将其接至环绕右后置扬声器端子，将没有声音从扬声器传出。）**

连接重低音扬声器

通过连接重低音扬声器，您可以加强低音或再生数码软件上灌录的原始 LFE 信号。

用一具有 RCA 针型插头的导线（另购）将强力重低音扬声器的输入插孔与后面板上的 SUBWOOFER OUT 插孔相连接。

- 另请参阅随重低音扬声器附带的使用手册。

在连接所有扬声器和/或重低音扬声器之后，正确地设定扬声器信息以获得最佳环绕声效果。详情参阅第 15 至 19 页。

注

因为低音没有方向性，因此您可以随意将重低音扬声器放置在任何地方。一般情况下是将其放在您的前方。

连接视频组件

在连接完成之前不要将交流电源插头插入到墙壁插座上。

本接收机配备下列视频端子—复合视频，S-视频和组件视频端子。
- 如果您的视频组件有 S-视频电缆（Y/C-分离）和/或组件视频（Y, PB, PR）插孔，使用 S-视频电缆（另购）或组件视频电缆（另购）连接它们。通过使用这些端子，您可按如下顺序获得更佳的图像质量：

组件 > S-视频 > 复合

重要事项：

来自一种输入插孔的视频信号仅能通过同类型的视频输出插孔传送。所以，如果录像视频组件和在播放的视频组件通过不同类型的视频端子连接到接收机上，您无法录制图像。另外，如果电视机和在播放的视频组件通过不同类型的视频端子连接到接收机上，您无法收看电视上播放的图像。

连接前请关闭所有组件的电源。
- 当您连接其他组件时，也请参阅它们的使用手册。

切勿途经录像机使用电视机，或者使用带内置录像机的电视机；否则图像可能会失真。

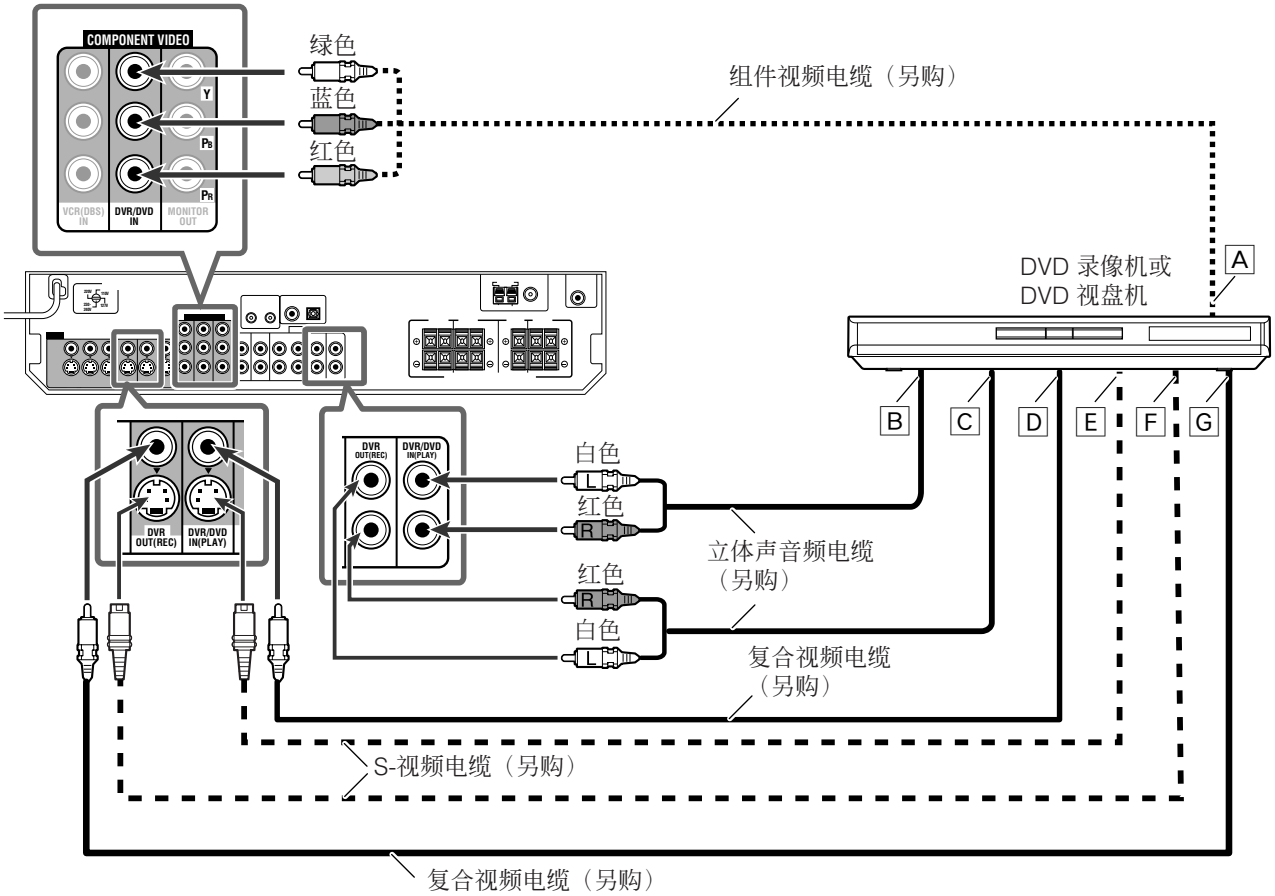
注意：

如果您在信号源组件和接收机之间连接上诸如图像均衡器的声音增强装置，通过接收机输出的声音可能会失真。

如果您的视频组件带有 AV COMPU LINK 端子

另请参阅第 32 页有关连接和 AV COMPU LINK 遥控系统之详情。

■ 将 DVD 录像机或 DVD 视盘机与其立体声输出插孔相连接:



注
- 将 DVD 录像机或 DVD 视盘机连接至组件视频输入插孔时，正确选择组件视频输入模式（DVD VIDEO IN）。若选择错误，您无法在电视机上观看播放的图像，或无法正确操作 AV COMPU LINK 遥控系统。详情请参阅第 20 页。
- 选择模拟输入模式。参阅第 12 页的“选择模拟或数码输入模式”。
- 如果使用数码同轴或光学电缆您就可以欣赏到数码音响的效果。本机为 DVD 录像机或 DVD 视盘机的音频输入模式进行了出厂设定，该设定为使用数码同轴端子（DIGITAL IN 1（DVR/DVD））。有关数码连接的详情，请参阅第 10 页。

A 接至组件视频输出
- 正确连接 Y，PB 和 PR 。

B 接至左/右音频频道输出
C **仅用于 DVD 录像机:** 接至左/右音频频道输入
D 接至复合视频输出
E 接至 S-视频输出
F **仅用于 DVD 录像机:** 接至 S-视频输入
G **仅用于 DVD 录像机:** 接至复合视频输入

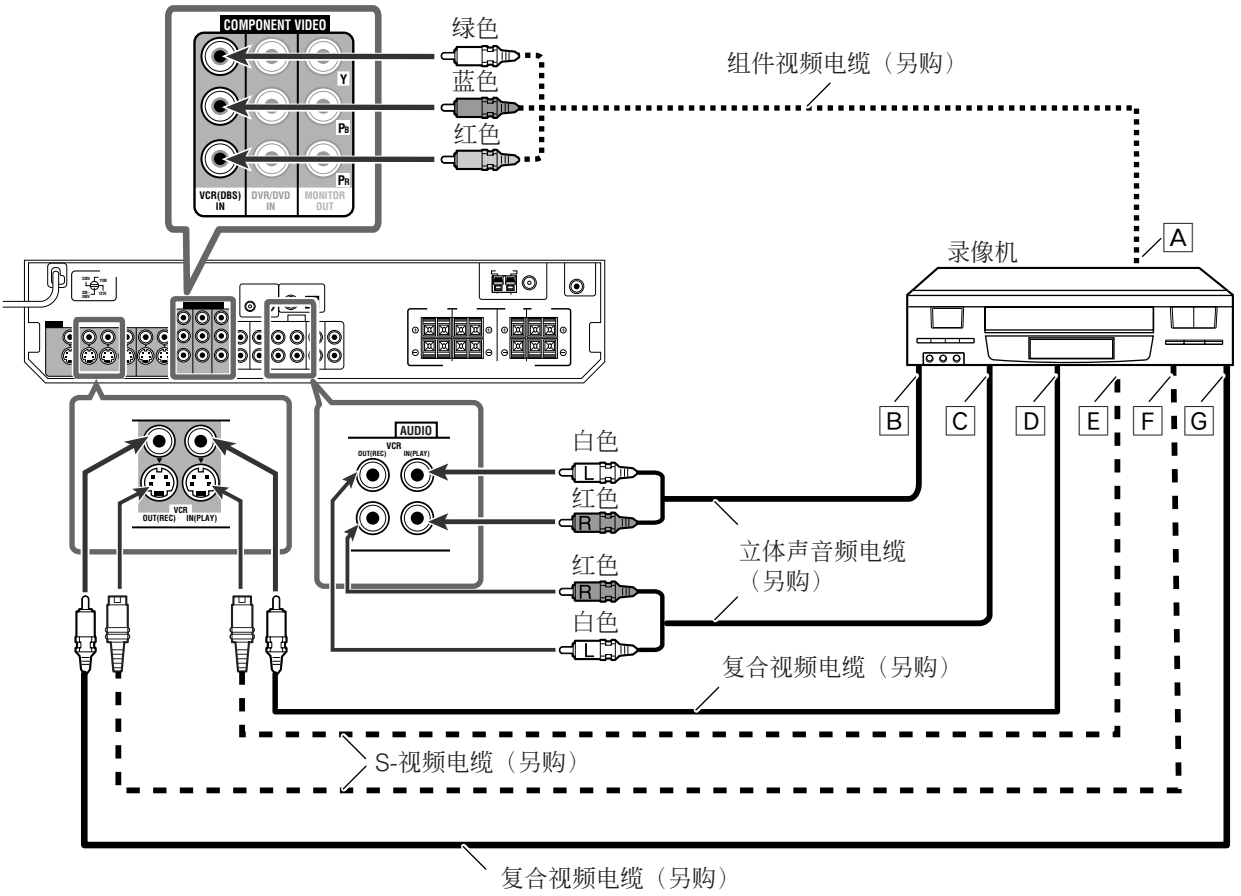
中文

中文

■ 连接录像机

连接前请关闭所有组件的电源。

• 当您连接其他组件时，也请参阅它们的使用手册。



注

- 将录像机连接至组件视频输入插孔时，正确选择组件视频输入模式（VCR VIDEO IN）。若设定错误，您无法在电视机上观看播放的图像，或无法正确操作 AV COMPU LINK 遥控系统。详情请参阅第 20 页。
- 选择模拟输入模式。参阅第 12 页的“选择模拟或数码输入模式”。
- 如果使用数码同轴或光学电缆您就可以欣赏到数码音响的效果。有关数码连接的详情，请参阅第 10 页。

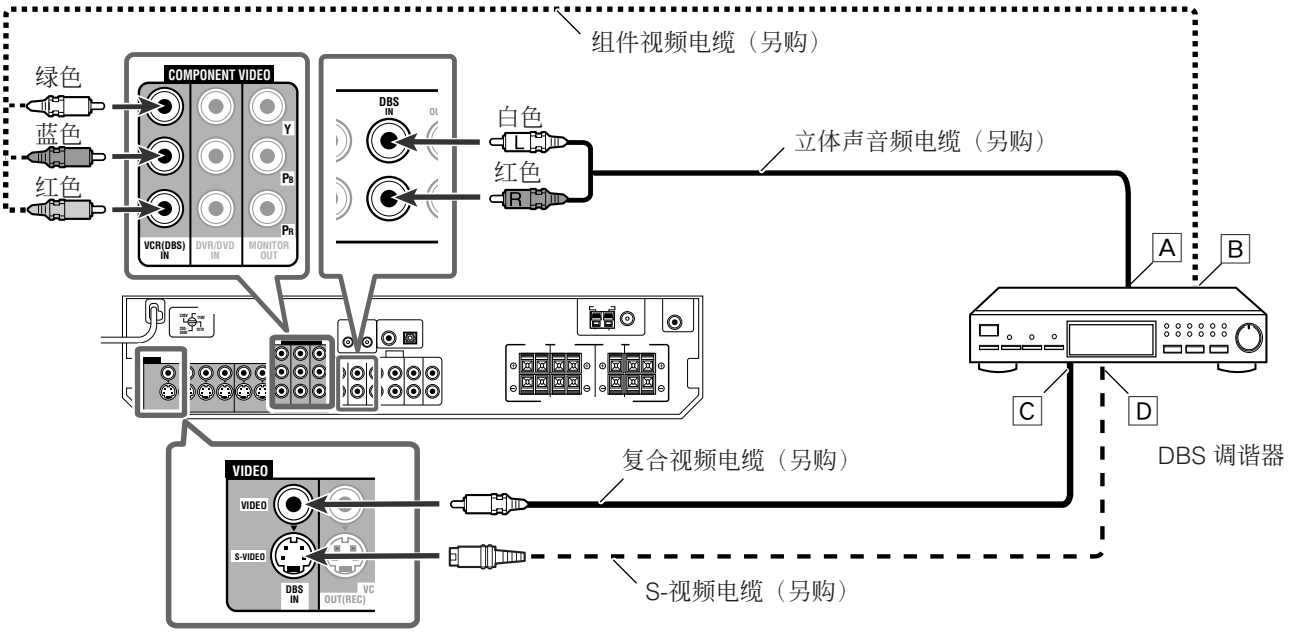
A 接至组件视频输出
• 正确连接 Y，PB 和 PR 。
B 接至左/右音频频道输出
C 接至左/右音频频道输入
D 接至复合视频输出
E 接至 S-视频输出
F 接至 S-视频输入
G 接至复合视频输入

在连接完成之前不要将交流电源插头插入到墙壁插座上。

■ 连接 DBS 调谐器

连接前请关闭所有组件的电源。

- 当您连接其他组件时，也请参阅它们的使用手册。



注

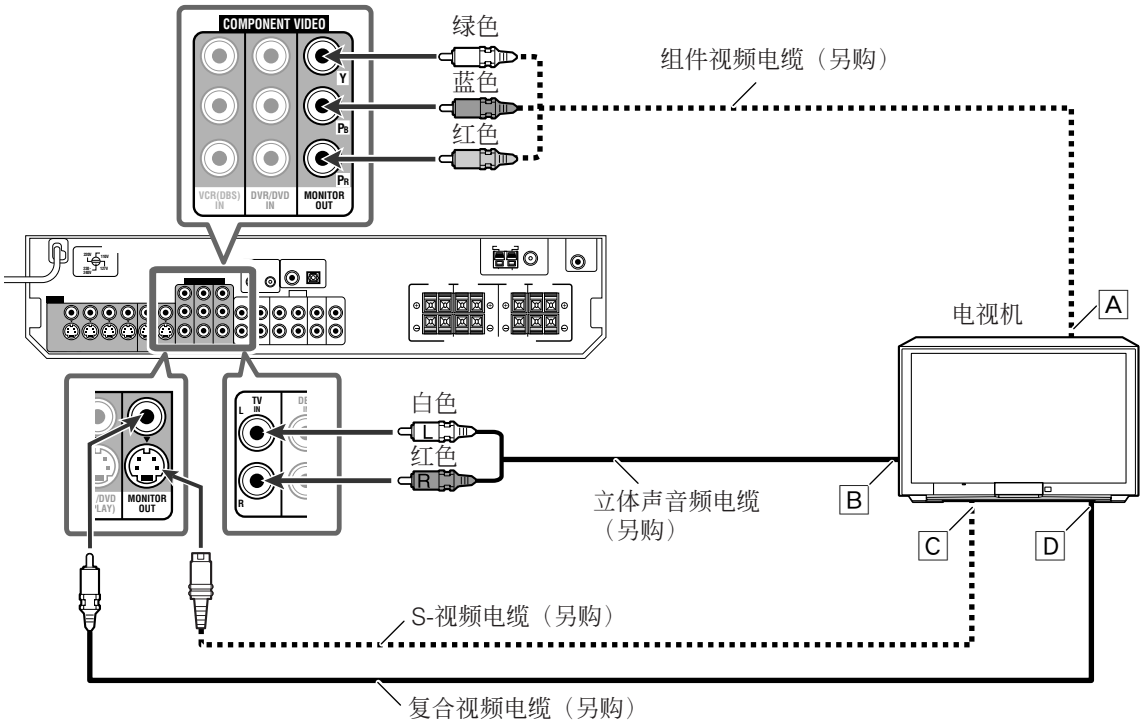
- 将 DBS 调谐器连接至组件视频输入插孔时，正确选择组件视频输入模式（DBS VIDEO IN）。若设定错误，您无法在电视机上观看播放的图像。详情请参阅第 20 页。
- 选择模拟输入模式。参阅第 12 页的“选择模拟或数码输入模式”。
- 如果使用数码同轴或光学电缆您就可以欣赏到数码音响的效果。本机为 DBS 调谐器进行了音频输入模式的出厂设定，该设定为使用数码光学端子（DIGITAL IN 2（DBS））。有关数码连接的详情，请参阅第 10 页。

A 接至左/右音频频道输出
B 接至组件视频输出
- 正确连接 Y，PB 和 PR 。

C 接至复合视频输出
D 接至 S-视频输出

■ 连接电视机

将电视机连接到适当的 MONITOR OUT 插孔以观看来自于任何其他连接视频组件的播放图像。



注

- 选择模拟输入模式。参阅第 12 页的“选择模拟或数码输入模式”。
- 如果使用数码同轴或光学电缆您就可以欣赏到数码音响的效果。有关数码连接的详情，请参阅第 10 页。

A 接至组件视频输入
- 正确连接 Y，PB 和 PR 。

B 接至左/右音频频道输出
C 接至 S-视频输入
D 接至复合视频输入

中文

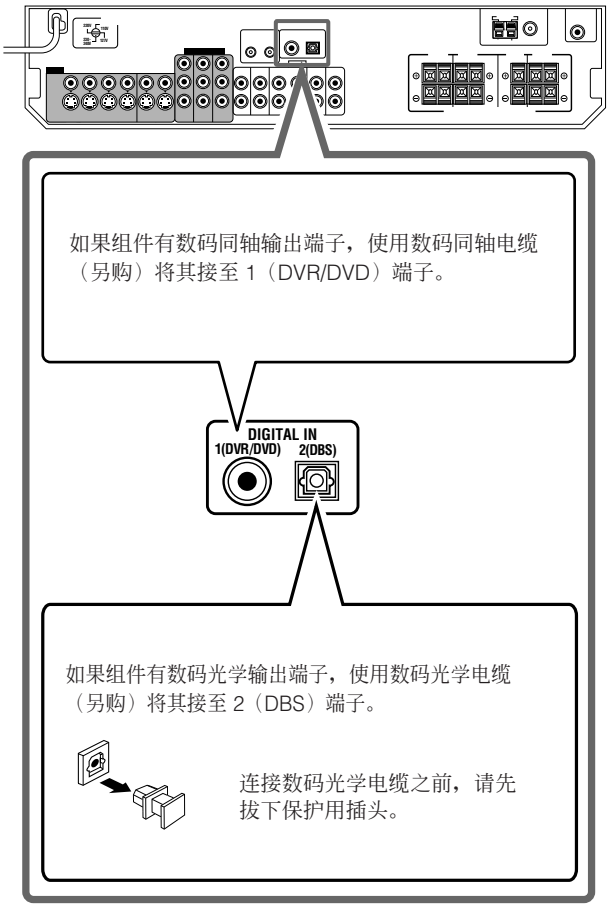
数码连接

本接收机配有两个 DIGITAL IN 端子—一个数码同轴端子和一个数码光学端子。
想要再生数码声音，使用数码连接和在第 7 至 9 页中描述的模拟连接方法。

数码同轴电缆（另购）

数码光学电缆（另购）

连接前请关闭所有组件的电源。
- 当您连接其他组件时，也请参阅它们的使用手册。



注
- 本机出厂时，DIGITAL IN 端子已被设定使用下列组件：
  – 1(DVR/DVD)： 用于 DVD 录像机或 DVD 视盘机
  – 2(DBS)： 用于 DBS 调谐器
  如果连接其他组件，请正确切换数码输入（DIGITAL IN）端子的设定。参阅第 20 页上的“设定数码输入（DIGITAL IN）端子—DIGITAL IN 1/2”。
- 选择正确的数码输入模式。参阅第 12 页的“选择模拟或数码输入模式”。
- 当您想要使用 AV COMPU LINK 遥控系统（参阅第 32 和 33 页）操作所连接的组件（DBS 调谐器除外）时，也请按照第 7 至 9 页上的描述进行连接。

USB 连接

本接收机在前面板上配备有 USB 端子。您可以将您的 PC 连接至该端子，并通过您的 PC 欣赏再生声音效果。
首次连接您的 PC 时，请按下列步骤操作。
- 切记您不能从本接收机上传送任何信号或资料至您的 PC。

注意：

检测配备有 CD-ROM 驱动的 PC 是否在 Windows® 98 SE*，Windows® Me*，Windows® 2000*，或 Windows® XP* 上运行，并且 CD-ROM 已准备就绪。

如何安装 USB 驱动

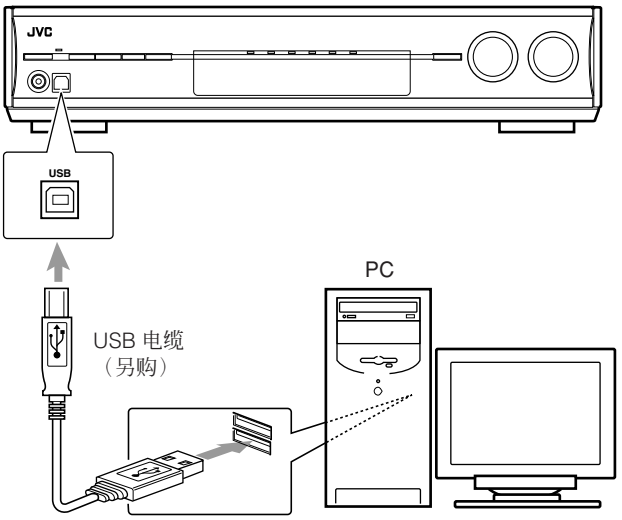
下列步骤是在英文版 Windows® XP 环境下进行描述的。若您的 PC 运行不同版本的操作系统或语言，您的 PC 显示器画面会与下列步骤中所描述的不同。

1. **启动您的 PC 并开始运行 Windows® 98 SE，Windows® Me，Windows® 2000，或 Windows® XP。**
   - 若您的 PC 已启动，请退出当前运行的所有应用程序。
2. **启动本机，并选择“USB DIGITAL”作为信号源。**
3. **将音量设定为最小。**

注意：

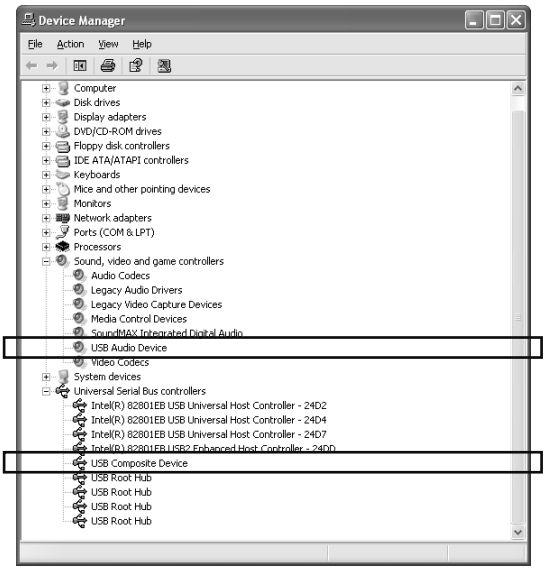
连接或断开其他设备时，保持音量设定在“0”。

4. **使用 USB 电缆（另购）将本机连接至 PC。**



- 连接时使用“USB 系列之 A 插头至 B 插头”电缆。

5. **USB 驱动会自动安装。**
   - 若没有自动安装 USB 驱动，按照下列出现在 PC 显示器上的指示安装 USB 驱动。
6. **检测驱动是否正确安装。**
   1. 在您的 PC 上打开 Control Panel：
      选择 [Start] → [Control Panel]。
   2. 选择 [System] → [Hardware] → [Device Manager] → [Sound, video and game controllers] → [Universal Serial Bus controllers]。
   - 下列窗口出现，您可以检测是否安装了驱动。



现在，PC 已准备好通过 USB 连接进行播放了。

安装完成后，您可以使用 PC 做为播放源。本接收机启动时，只要 USB 电缆连接在 PC 与本接收机之间，PC 便会自动识别本接收机。
- 不使用 PC 作为播放源时，断开 USB 电缆即可。

想要在 PC 上播放声音，参阅随 PC 中所安装的声音再生应用程序附带的使用说明书。

若没有声音从扬声器传出，检查下列项目：

选择“USB DIGITAL”作为信号源。
– 正确连接 USB 电缆。
– 检测是否正确识别了 USB 驱动。
– 检测您的 PC 中的播放软件与 USB 驱动是否兼容。
– 打开 PC 上的 Control Panel，选择 [Sounds and Audio Devices] → [Audio] 标志 → [Sound playback] → [Default device]，然后检查 [Default device] 是否设定为 [USB Audio device]。

注
- 安装驱动或 PC 识别本接收机过程时，**切勿**关闭本接收机或断开 USB 电缆连接几秒钟。
- 使用 USB 电缆（1.1 版或更高版本）。推荐导线长度为 1.5 m。
- 若您的 PC 无法识别本接收机，断开 USB 电缆重新连接。若仍然无效，重启 Windows。
- 安装的驱动仅在 USB 电缆连接在 PC 与本接收机之间时可以被识别。
- 由于 PC 的设定及 PC 规格的原因，可能无法正确播放声音—中断或失真。

* Microsoft®，Windows® 98 SE，Windows® Me，Windows® 2000 和 Windows® XP 是 Microsoft 公司的注册商标。

连接电源线

当所有的音频/视频连接工作完成之后，请将交流电源插头插入墙壁插座。确保插头接插牢靠。接收机上的待机灯亮红色。

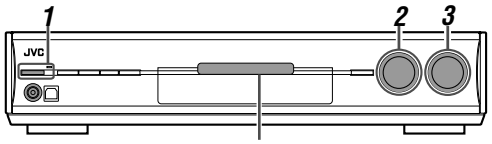
注意：
- 切勿在设定接收机后面板 VOLTAGE SELECTOR（电压选择器）开关以及所有连接操作完成之前插上电源线插头。
- 切勿用湿手触摸电源线。
- 切勿改造，卷绕或拉扯电源线，或在其上放置任何重物，这些行为可能引起火灾，触电或其他事故。
- 如果电源线损伤，须洽询经销商并更换成新的电源线。

注
- 请使电源线远离连接中的电缆和天线。电源线可能引起噪音或屏幕干扰。
- 在下列情况下所作的预设定，如预设的频道和声音调整结果可能于数日内被擦除：
  – 拔下电源线时。
  – 发生停电时。
- 如果墙壁插座与交流电源插头不符合，使用附带的交流电源插头转换器。
- 在本接收机开启时，若拔下电源线并重新连接电源线，本接收机进入待机模式。

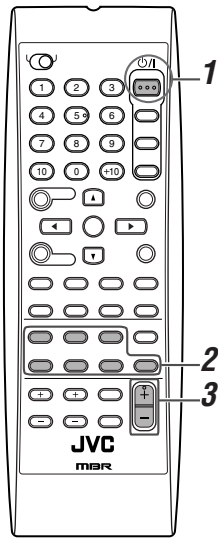
中文

基本操作

中文



信号源灯

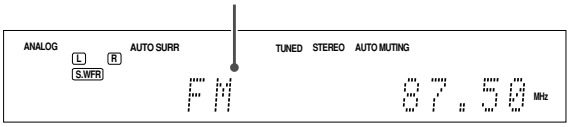


1 启动电源

按 ⏻/I STANDBY/ON 键（或遥控器上的 STANDBY/ON ⏻/I AUDIO 键）。

待机灯熄灭，当前信号源的信号源灯亮红色。

当前的信号源名称出现。



如何关闭电源（进入待机模式）

再按一次 ⏻/I STANDBY/ON（或遥控器上的 STANDBY/ON ⏻/I AUDIO）键。
待机灯亮红色。

注

在待机模式下一直有微量的电力继续在消耗。想要彻底关闭电源，请拔下交流电源线。

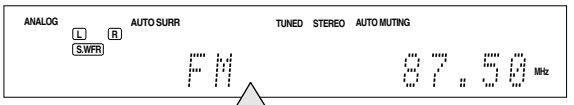
2 选择想要播放的信号源

在前面板上：

转动 SOURCE SELECTOR，直到所需信号源名称在显示屏上出现。

与所选的信号源相对应的信号源灯点亮成红色。

- 随着转动 SOURCE SELECTOR，信号源按如下所示进行切换：



DVR/DVD (DGTL) ⟷ VCR (DIGITAL) ⟷
DBS (DIGITAL) ⟷ TV (DIGITAL) ⟷
USB DIGITAL ⟷ FM ⟷ AM ⟷
（返回到开始处）

DVR/DVD (DGTL)*:	用于选择 DVD 录像机或 DVD 视盘机。
VCR (DIGITAL)*:	用于选择录像机。
DBS (DIGITAL)*:	用于选择 DBS 调谐器。
TV (DIGITAL)*:	用于选择电视机。
USB DIGITAL:	用于选择 PC 组件。
FM:	用于选择 FM 广播。
AM:	用于选择 AM 广播。

从遥控器上：

按其中一个信号源选择键。

- 对于调谐器，按 FM/AM 键。每次您按 FM/AM 键，波段在“FM”和“AM”之间切换。

* 选择模拟或数码输入模式

您需要根据第 7 至 10 页的连接方法（模拟或数码）选择正确的输入模式。

- 对于数码连接，您还需选择正确的数码输入端子。（参阅第 20 页的“设定数码输入（DIGITAL IN）端子—DIGITAL IN 1/2”。）
- “DGTL AUTO”和“ANALOG”设定被每个信号源记忆储存。

仅从遥控器上：

按 ANALOG/DIGITAL 键选择模拟或数码输入模式。

- 每次您按此键，输入模式按如下所示进行切换。

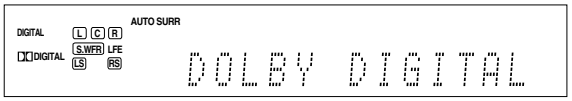
DGTL AUTO ⟶ DOLBY DIGITAL ⟶
DTS ⟶ ANALOG ⟶（返回到开始处）

DGTL AUTO (DIGITAL AUTO):	用于选择数码输入模式。接收机自动识别传入信号的制式，然后与识别出的信号相对应的数码信号制式指示灯（LINEAR PCM，DIGITAL，dts，或 dts 96/24）点亮。
DOLBY DIGITAL*:	用于选择播放杜比数码编码的软件。
DTS*:	用于选择播放 DTS 编码的软件。
ANALOG:	用于选择模拟输入模式。ANALOG 指示灯在显示屏上点亮。

初始设定: DGTL AUTO

* 在播放选有“DGTL AUTO”的杜比数码或 DTS 软件时，若发生下列症状，选择“DOLBY DIGITAL”或“DTS”。
- 开始播放时无声音传出。
- 搜索曲目或跳播章节是有杂音传出。

例：当选择杜比数码时



注
- 选择“FM”或“AM”作为信号源时，您无法选择数码输入模式。
- 选择“USB DIGITAL”作为信号源时，输入模式改为“DGTL AUTO”。
- 当您关闭电源或选择另一个信号源时，“DOLBY DIGITAL”或“DTS”被取消，且数码模式自动重设为“DGTL AUTO”。

下列为显示屏上的数码信号制式指示灯，用以指明传入接收机的是哪种类型的信号。

LINEAR PCM: 当线性 PCM 信号传入时点亮。

DIGITAL:
- 当杜比数码信号传入时点亮。
- 当为以非杜比数码编码的软件选择“DOLBY DIGITAL”时闪烁。

dts:
- 当传统的 DTS 信号传入时点亮。
- 当为以非 DTS 编码的软件选择“DTS”时闪烁。

dts 96/24: 当 DTS 96/24 信号传入时点亮。

注

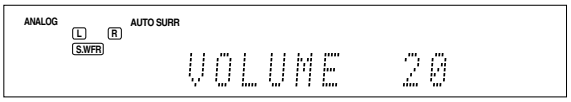
当“DGTL AUTO”不能识别传入的信号时，显示屏上便没有数码信号制式指示灯点亮。

3 调整音量

想要递增音量时，顺时针方向转动 MASTER VOLUME 控制旋钮（或按遥控器上的 VOLUME + 键）。

想要递减音量时，逆时针方向转动 MASTER VOLUME 控制旋钮（或按遥控器上的 VOLUME – 键）。

- 当您调整音量时，音量水平指示灯在显示屏上出现片刻。



注意：

在开始播放任何信号源之前，请务必将音量设定在最低处。如果音量设定在高水平，突然放出的声能可能永久性损伤您的听觉和/或损坏扬声器。

注

音量水平可以在“0”（最低）至“50”（最高）的范围内进行调整。

用头戴耳机聆听

通过头戴耳机您不但可以欣赏立体声软件还可以欣赏多频道软件。（在播放多频道软件时声音被下行混合至前频道。）

在前面板的 PHONES 插孔上连接一对头戴耳机以启动 HEADPHONE 模式。

HEADPHONE（头戴耳机）指示灯在显示屏上点亮。
- 您也可以通过头戴耳机欣赏环绕声/DSP 模式—3D HEADPHONE 模式。详情参阅第 28 页。
- 将一对头戴耳机从 PHONES 插孔上拔下便可以取消 HEADPHONE（或 3D HEADPHONE）模式并启动扬声器。

注意：

在下列情况下务必调低音量：
- 在连接或戴上头戴耳机之前，因为高音量不但会损坏耳机还会损伤您的听觉。
- 在拔下头戴耳机之前，因为高音可能自扬声器发出。

中文

中文

暂时关闭声音

仅从遥控器上：

按 MUTING 键关闭所有接通中的扬声器和头戴耳机发出的声音。

“MUTING”字样在显示屏上出现，并且音量关闭。

想要恢复声音，再按一次 MUTING 键。

- 按 VOLUME +/– 键（或转动前面板上的 MASTER VOLUME 控制旋钮）也可以恢复声音。

切换显示屏照明亮度

您可以减低显示屏的亮度—减光器。

反复按 DIMMER 键。

- 每次按该键，显示屏照明亮度按如下所示进行切换：
  DIMMER 1: 显示屏的亮度减低。
  DIMMER 2: 比 DIMMER 1 更加减低显示屏的亮度。
  DIMMER 3: 关闭显示屏。（当您操作接收机时暂时取消。）
  DIMMER OFF: 取消减光模式（正常显示）。

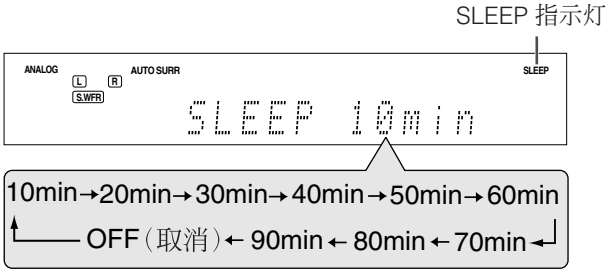
使用睡眠定时器关闭电源

您可以在音乐的伴奏下进入梦乡—睡眠定时器。

仅从遥控器上：

反复按 SLEEP 键。

- 每次按该键，关机时间以 10 分钟为间隔切换。SLEEP 指示灯在显示屏上点亮。



当关机时间到来时：
接收机自动关机。

想要查看或更改关机时间到来之前的剩余时间时：
按一次 SLEEP 键。
关机时间到来之前的剩余时间（以分钟的形式）出现。
- 想要更改关机时间时，反复按 SLEEP 键。

想要取消睡眠定时器时：
反复按 SLEEP 键，“ SLEEP OFF ”字样在显示屏上出现。
（SLEEP 指示灯熄灭。）
- 当您关闭接收机时睡眠定时器也会被取消。

自动记忆的基本调整

本接收机可将声音设定的结果记忆储存给每个信号源：
- 关闭电源时，以及
- 切换信号源时。

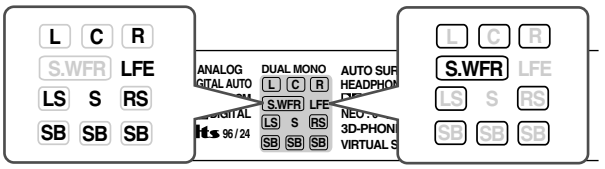
当您切换信号源时，为新选择的信号源所记忆储存的设定结果被自动唤出。
下列各项可记忆储存给每个信号源：
- 模拟/数码输入模式（参阅第 12 页）
- 加强低音（参阅第 23 页）
- 数码均衡器图案（参阅第 22 页）
- 输入信号衰减器模式（参阅第 23 页）
- 午夜模式（参阅第 19 页）
- 扬声器输出水平（参阅第 22 页）
- 环绕声/DSP 模式的选择结果（参阅第 30 页）

注

如果信号源为 FM 或 AM，您可为每个波段选择不同的设定。

显示屏上的信号和扬声器指示灯

信号指示灯　　扬声器指示灯



信号指示灯如下所示点亮：

L: • **数码输入被选时：**当左频道信号传入时点亮。
　• **模拟输入被选时：**一直点亮。
R: • **数码输入被选时：**当右频道信号传入时点亮。
　• **模拟输入被选时：**一直点亮。
C: 当中央频道信号传入时点亮。
LS: 当左环绕频道信号传入时点亮。
RS: 当右环绕频道信号传入时点亮。
S: 当单声道环绕声信号传入时点亮。
SB: 当环绕声后频道信号传入时点亮。
LFE: 当 LFE 频道信号传入时点亮。

扬声器指示灯按如下方式点亮：
- 当将“SUBWOOFER”设定在“SUBWFR <YES>”时，重低音扬声器指示灯（S.WFR）点亮。详情参阅第 17 页。
- 其他扬声器指示灯仅当所对应的扬声器设定在“SML（小）”或 “LRG（大）”，并且当前的播放需要时才点亮。

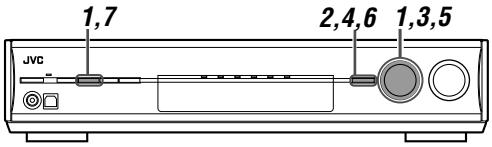
基本设定

想要从环绕声/DSP 模式（参阅第 27 至 31 页）获得最佳环绕声效果，在完成所有的连接工作之后，您必须设定扬声器和重低音扬声器的信息。从第 15 至 20 页将解释如何设定扬声器和接收机的其他基本项目。

简便设定扬声器信息—快速扬声器设定

快速扬声器设定帮助您根据视听房间简便快速地登记每个扬声器的尺寸，扬声器之间的距离及输出水平以创建最佳声音效果。

- 您也可以手动登记每个扬声器的信息。
  详情参阅第 18 页。



开始操作之前，请记住...

下列步骤的操作受时间限制。如果设定在完成之前被取消，请从步骤 ***1*** 起重新进行操作。

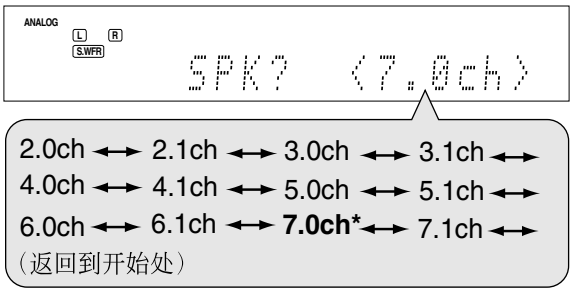
1 **按 SETTING 键并转动 MULTI JOG 旋钮直到 "QUICK SPK SET" 字样在显示屏上出现。**

2 **按 SET 键。**

3 **转动 MULTI JOG 旋钮选择所连接扬声器的适当数量（扬声器频道数量）。**

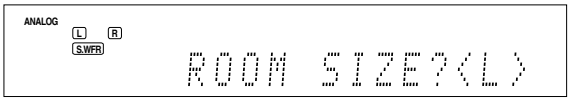
转动旋钮时，扬声器频道数量按如下所示进行切换。

- 有关扬声器频道数量的详情，参阅第 16 页的"扬声器（频道）数量和尺寸"。



* 初始设定为"7.0ch"。

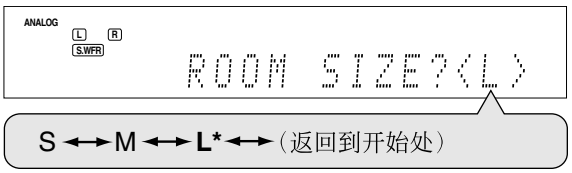
4 **按 SET 键。**



5 **转动 MULTI JOG 旋钮选择与视听房间相匹配的房间尺寸。**

转动旋钮时，房间尺寸按如下所示进行切换。

- 想要选择适当的房间尺寸，参阅第 16 页的"房间尺寸和扬声器距离/输出水平"。



* 初始设定为"L"。

6 **按 SET 键。**

现在 QUICK SPEAKER SETUP（快速扬声器设定）已完成，显示屏返回至 SETTING 菜单。

7 **按 SETTING 键。**

注

- 如果您在设定中途停止操作，将不会完成该步骤。
- 操作 QUICK SPEAKER SETUP（快速扬声器设定）时，扬声器输出水平会自动设定至适当的值（所有信号源保持一致）。若您想要为每个信号源分别设定扬声器的输出水平，请参阅第 22 页的"调整扬声器输出水平"。

中文

接续下页

中文

扬声器（频道）数量和尺寸

您可以根据您选择的所连接扬声器的数量（扬声器频道“ch”数量）确定每个扬声器的尺寸。
• 重低音扬声器被计算为 0.1 个频道。

CH	所连接扬声器的尺寸				
	L/R	C	LS/RS	SB	SUBWFR
2.0CH	LARGE	NONE	NONE	NONE	NO
2.1CH	SMALL	NONE	NONE	NONE	YES
3.0CH	LARGE	SMALL	NONE	NONE	NO
3.1CH	SMALL	SMALL	NONE	NONE	YES
4.0CH	LARGE	NONE	SMALL	NONE	NO
4.1CH	SMALL	NONE	SMALL	NONE	YES
5.0CH	LARGE	SMALL	SMALL	NONE	NO
5.1CH	SMALL	SMALL	SMALL	NONE	YES
6.0CH	LARGE	SMALL	SMALL	SMALL (1SPK)	NO
6.1CH	SMALL	SMALL	SMALL	SMALL (1SPK)	YES
7.0CH	LARGE	SMALL	SMALL	SMALL (2SPK)	NO
7.1CH	SMALL	SMALL	SMALL	SMALL (2SPK)	YES

房间尺寸和扬声器距离/输出水平

根据所选房间尺寸，每个扬声器的距离和输出水平按如下所示进行设定：

房间尺寸	扬声器	距离	输出水平
L（大）	L/R	3.0 m (10 ft)	0 dB
	C	3.0 m (10 ft)	0 dB
	LS/RS	3.0 m (10 ft)	0 dB
	SBL(SB)/SBR	3.0 m (10 ft)	0 dB
M（中）	L/R	2.7 m (9 ft)	0 dB
	C	2.4 m (8 ft)	–2 dB
	LS/RS	2.1 m (7 ft)	–3 dB
	SBL(SB)/SBR	1.8 m (6 ft)	–4 dB
S（小）	L/R	2.4 m (8 ft)	0 dB
	C	2.1 m (7 ft)	–2 dB
	LS/RS	1.5 m (5 ft)	–4 dB
	SBL(SB)/SBR	1.2 m (4 ft)	–6 dB

注

上表中所用的缩写代表下列扬声器和重低音扬声器：
– L: 左前置扬声器
– R: 右前置扬声器
– C: 中置扬声器
– LS: 左环绕扬声器
– RS: 右环绕扬声器
– SB: 环绕后置扬声器
– SBL: 环绕左后置扬声器
– SBR: 环绕右后置扬声器
– SUBWFR: 重低音扬声器

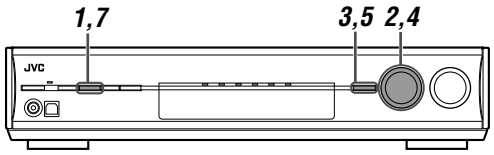
基本设定项目

您可以调整下述项目。详情参阅括号中所示之页。
• 您不能选择当前设定没有的项目。例如，当在快速扬声器设定中将扬声器频道数量设定为“<5.1ch>”时，您不能选择下列项目：
S BACK OUT，S BACK DIST，S BACK L DIST，S BACK R DIST

项目	用于
QUICK SPK SET	登记您所连接的扬声器数量和视听房间的尺寸。（15）
SUBWOOFER*	登记重低音扬声器。（17）
FRONT SPK*	登记前置扬声器尺寸。（17）
CENTER SPK*	登记中置扬声器尺寸。（17）
SURROUND SPK*	登记环绕扬声器尺寸。（17）
S BACK SPK*	登记环绕后置扬声器尺寸。（17）
S BACK OUT*	登记环绕后置扬声器数量。（17）
DIST UNIT	选择扬声器距离的测量单位。（18）
FRONT L DIST*	登记左前置扬声器至视听位置的距离。（18）
FRONT R DIST*	登记右前置扬声器至视听位置的距离。（18）
CENTER DIST*	登记中置扬声器至视听位置的距离。（18）
SURR L DIST*	登记左环绕扬声器至视听位置的距离。（18）
SURR R DIST*	登记右环绕扬声器至视听位置的距离。（18）
S BACK DIST*	登记环绕后置扬声器至视听位置的距离。（18）
S BACK L DIST*	登记环绕左后置扬声器至视听位置的距离。（18）
S BACK R DIST*	登记环绕右后置扬声器至视听位置的距离。（18）
EX/ES/PLIIx	选择 EX/ES/PLIIx 再生模式。（18）
DUAL MONO	选择双重单声道。（19）
SUBWOOFER OUT	选择从重低音扬声器输出的声音。（19）
CROSSOVER	选择重低音扬声器的截止频率。（19）
LFE ATT	减弱低音（LFE）。（19）
MIDNIGHT MODE	在午夜再生一个强有力的声音。（19）
DIGITAL IN 1	选择连接至数码同轴端子的组件—1（DVR/DVD）。（20）
DIGITAL IN 2	选择连接至数码光学端子的组件—2（DBS）。（20）
DVD VIDEO IN	选择用于 DVD 录像机或 DVD 视盘机的视频端子类型。（20）
VCR VIDEO IN	选择用于录像机的视频端子类型。（20）
DBS VIDEO IN	选择用于 DBS 调谐器的视频端子类型。（20）

* 如果您已使用了第 15 页中的快速扬声器设定，便不需要进行此些设定。

操作程序



仅在前面板上：

开始操作之前，请记住...

下列步骤的操作受时间限制。如果设定在完成之前被取消，请从步骤 ***1*** 起重新进行操作。

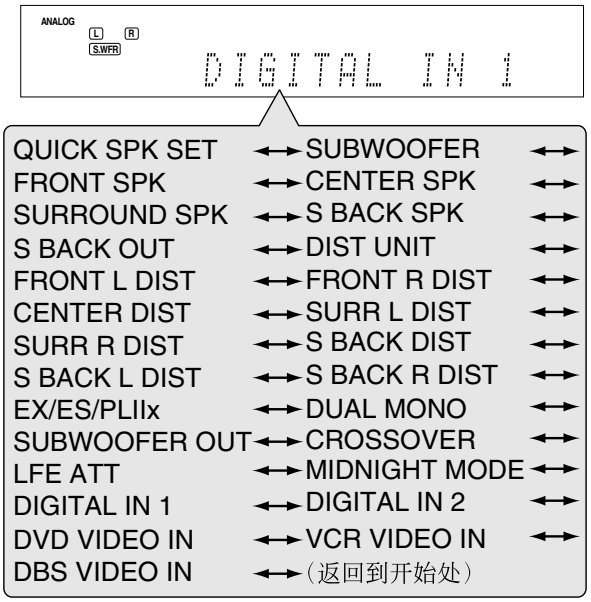
例：当设定 DIGITAL IN 1 端子时。

1 **按 SETTING 键。**

MULTI JOG 旋钮现在可用于设定操作。

2 **转动 MULTI JOG 旋钮直到您想要设定的项目在显示屏上出现。**

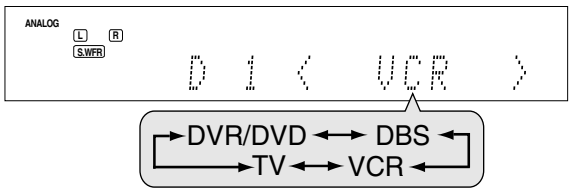
- 随著转动 MULTI JOG 旋钮, 设定项目按如下所示进行切换:



3 **按 SET 键。**

所选择的项目当前的设定出现。

4 **转动 MULTI JOG 旋钮选择适当的设定。**



您的设定被储存。

5 **按 SET 键。**

6 **如有需要，重复步骤 *2* 至 *5* 选择其他项目。**

7 **按 SETTING 键。**

信号源指示信息在显示屏上恢复。

设定扬声器

想要从环绕声和 DSP 模式获得最佳环绕声效果，在完成所有连接之后，登记扬声器的相关设定即可。

- 若您使用了第 15 页的快速扬声器设定，便不需要进行此项设定。

设定重低音扬声器信息—SUBWOOFER

选择是否连接重低音扬声器。

SUBWFR <YES>	当您已经连接了重低音扬声器时选此项。重低音扬声器指示灯（S.WFR）在显示屏上点亮。您可以调整重低音扬声器的输出水平（参阅第 22 页）。
SUBWFR <NO>	当您已经卸下了重低音扬声器时选此项。选择此项将前置扬声器的尺寸切换成“LRG”（参阅下栏）。

初始设定: SUBWFR <NO>

设定扬声器尺寸—FRONT SPK（前置扬声器），CENTER SPK（中置扬声器），SURROUND SPK（环绕扬声器），S BACK SPK（环绕后置扬声器）

登记所有连接中的扬声器的尺寸。

<LRG>（大）	当锥形喇叭的尺寸大于 12 cm 时选此项。
<SML>（小）	当锥形喇叭的尺寸小于 12 cm 时选此项。
<NO>	当未连接扬声器时选此项。（对应前置扬声器不能选择此项。）

初始设定: <LRG>（对应前置扬声器）
<SML>（对应其他扬声器）

设定环绕后置扬声器—S BACK OUT

登记环绕后置扬声器的数量。

SB OUT <1SPK>	当您使用 1 个环绕后置扬声器时选此项。
SB OUT <2SPK>	当您使用 2 个环绕后置扬声器时选此项。

初始设定: SB OUT <2SPK>

注

- 如果您已为前置扬声器的尺寸选择了“SML（小）”便不能为其他扬声器的尺寸选择 “LRG（大）”。
- 当“SUBWOOFER”设定为“SUBWFR <NO>”时，环前置扬声器的尺寸固定为 “LRG”（且您不能选择“SML”）。
- 当“SURROUND SPK”设定为“SML（小）”时，您不能为环绕后置扬声器的尺寸选择 “LRG（大）”。
- 当“SURROUND SPK”设定为“NO”时，环绕后置扬声器固定为 “NO”。
- 当“S BACK SPK”设定为“NO”时，您不能选择 “S BACK OUT”。
- 当“SB OUT”设定为“<1SPK>”时，将环绕后置扬声器连接至环绕左后置扬声器端子（参阅第 6 页）。若您将其连接至环绕右后置扬声器端子，将没有声音从环绕后置扬声器传出。

中文

设定扬声器距离

从视听位置到扬声器的距离是从环绕声/DSP 模式获得最佳环绕声效果的一个重要因素。
通过进行扬声器距离的设定，本接收机自动为每个扬声器设定延迟时间，从而使所有扬声器发出的声音能够同时传给视听者。
若您使用了第 15 页的快速扬声器设定，便不需要进行此项设定。

■ **测量单位—DIST UNIT**

选择您想使用哪种测量单位。

UNIT＜meter＞	想使用米为单位设定时选此项。
UNIT ＜feet＞	想使用英尺为单位设定时选此项。

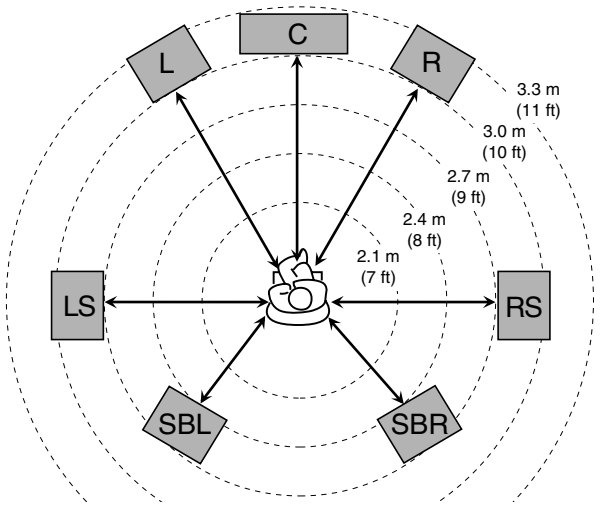
初始设定: UNIT ＜meter＞

■ **扬声器距离—**

FRONT L DIST（适用于左前置扬声器），
FRNT R DIST（适用于右前置扬声器），
CENTER DIST（适用于中置扬声器），
SURR L DIST（适用于左环绕扬声器），
SURR R DIST（适用于右环绕扬声器），
S BACK L DIST （适用于环绕左后置扬声器），
S BACK R DIST （适用于环绕右后置扬声器）

调整范围: 在 0.3 m 到 9.0 m 的范围内，以 0.3 m 为间隔
（在 1 ft 到 30 ft 的范围内,以 1 ft 为间隔）

初始设定: 所有扬声器的距离均设定在 3.0 m（10 ft）



在此情况下，距离设定如下：

左前置扬声器（L）:	“FRONT L <3.0m> (10ft)”
右前置扬声器（R）:	“FRONT R <3.0m> (10ft)”
中置扬声器（C）:	“CENTER <3.0m> (10ft)”
左环绕扬声器（LS）:	“SURR L <2.7m> (9ft)”
右环绕扬声器（RS）:	“SURR R <2.7m> (9ft)”
环绕左后置扬声器（SBL）:	“SBACK L <2.4m> (8ft)”
环绕右后置扬声器（SBR）:	“SBACK R <2.4m> (8ft)”

注

- 不能为在扬声器设定中已经设定为“NO”的扬声器设定扬声器距离。
- 若您已经为“S BACK OUT”（参阅第 17 页）选择了“＜1SPK＞”，则“S BACK DIST”将取代“S BACK L DIST”和“S BACK R DIST”出现。

启动 EX/ES/PLIIx 设定—EX/ES/PLIIx

根据该设定，可供数码多频道软件选择的环绕声模式在 EX/ES/PLIIx（7.1-频道）再生或 5.1-频道再生之间交替变换。选择适当的设定以供享用。

- 有关 EX/ES/PLIIx 设定和可供选择的环绕声模式之间的关系的详情，参阅第 30 页。
- 想要启动环绕声模式，参阅第 31 页。

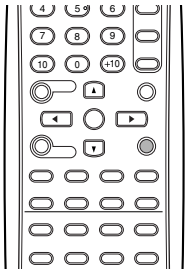
＜AUTO＞	根据传入的信号，适当的环绕声模式被应用。 • 杜比数码环绕声 EX 和 DTS-ES 软件应用 6.1-频道再生*。 • 其他多频道（多于 4 个频道）编码软件应用 5.1-频道再生。
＜ON＞	选此项将 6.1-频道再生应用到 5.1-频道和 6.1-频道编码软件上。
＜PLIIx MOVIE＞	选此项将 PLIIx MOVIE（7.1-频道）再生应用到 5.1-频道和 6.1-频道编码软件上。
＜PLIIx MUSIC＞	选此项将 PLIIx MUSIC（7.1-频道）再生应用到 5.1-频道和 6.1-频道编码软件上。
＜OFF＞	选此项取消 EX/ES/PLIIx（7.1-频道）再生。

初始设定: ＜AUTO＞

* 对于某些杜比数码环绕声 EX 软件，尽管您已选择“＜AUTO＞”，杜比数码 5.1-频道再生（“DOLBY DIGITAL”）仍可能被应用。此种情况下，选择“＜ON＞”以应用“DOLBY D EX”。

从遥控器上：

反复按 EX/ES/PLIIx 键选择上述其中一项。



注

- 当“SURROUND SPK”设定在“NO”时（参阅第 17 页），此功能无效。
- 当“S BACK SPK”设定在“NO”时（参阅第 17 页），虚拟后置环绕声（参阅第 30 页）被 EX/ES/PLIIx（6.1-频道）再生应用。

选择主频道或副频道—DUAL MONO

在播放以包含有两个分别的单声道的双重单声道模式（参阅第 28 页）录制的（或广播的）数码软件时，您可以选择想要播放的声音（频道）。当接收机检测到双重单声道信号时，DUAL MONO 指示灯在显示屏上点亮。

D MONO <MAIN>	想播放主频道（Ch 1）时选此项*。 在播放本频道时信号指示灯“L”点亮。
D MONO <SUB>	想播放副频道（Ch 2）时选此项*。 在播放本频道时信号指示灯“R”点亮。
D MONO <ALL>	选想主频道和副频道（Ch 1/Ch 2）均播放时选此项*。 在播放这些频道时信号指示灯“L”和“R”均点亮。

初始设定: D MONO <MAIN>

* 双重单声道信号可从下列扬声器听到—L（左前置扬声器），R（右前置扬声器）和 C（中置扬声器）—对应当前的环绕声设定。

双重单声道设定	不带环绕声效果		带环绕声效果				
			中置扬声器设定				
			SML/LRG			NO	
	L	R	L	C	R	L	R
MAIN	Ch 1	Ch 1	—	Ch 1	—	Ch 1	Ch1
SUB	Ch 2	Ch 2	—	Ch 2	—	Ch 2	Ch 2
ALL	Ch 1	Ch 2	—	Ch 1+Ch 2	—	Ch 1+Ch 2	Ch 1+Ch 2

注

双重单声道制式与电视节目的双语言播送不完全一样。因此在观看双语言节目时本设定无效。

设定低音

设定重低音扬声器输出—SUBWOOFER OUT

重低音扬声器传出 LFE 信号*，并且每个扬声器的低音都被设定为“SML”。
您可以通过重低音扬声器进行前置扬声器频道（MAIN）的低音设置。

SW <LFE>	想要传出 LFE 信号并将每个扬声器的低音都被设定为“SML”时选此项。
SW <LFE+MAIN>	当没有低音从重低音扬声器“SW <LFE>”中传出时，想要从前置扬声器频道（MAIN）传出低音时选此项 。

初始设定: SW <LFE>

注

- 当“SUBWOOFER”设定为“SUBWFR <NO>”（参阅第 17 页）时，本功能无效。

* 仅在播放下列带有 LFE 信号的软件时，才会传出 LFE 信号：
–杜比数码多频道软件
–DTS 多频道软件
当播放模拟信号源或线性 PCM 软件时，将不会有 LFE 信号传出。

设定截止频率—CROSSOVER

小扬声器不能有效地再生低音。如果您在任何位置使用了小扬声器，本接收机会自动将分配给小扬声器的低音成份重新分配给大扬声器。
想要正确使用此功能，请根据所连接的小扬声器的尺寸设定截止频率水平。

- 如果您已为所有的扬声器选择了“LRG（大）”（参阅第 17 页），此功能不生效（“CROSS OFF”字样出现）。

CROSS <80Hz>	当扬声器内置的锥形喇叭约为 12 cm 时选此项。
CROSS <100Hz>	当扬声器内置的锥形喇叭约为 10 cm 时选此项。
CROSS <120Hz>	当扬声器内置的锥形喇叭约为 8 cm 时选此项。
CROSS <150Hz>	当扬声器内置的锥形喇叭约为 6 cm 时选此项。
CROSS <200Hz>	当扬声器内置的锥形喇叭小于 5 cm 时选此项。

初始设定: CROSS <100Hz>

注

截止频率不能用于 HEADPHONE 和 3D HEADPHONE 模式。

设定低频音效衰减器—LFE ATT

在播放以**杜比数码**或 **DTS** 编码的软件时发生低音失真，可设定 LFE 水平以消除失真。

- 该功能仅当 LFE 信号传入时有效。

LFE <0dB>	通常情况下选此项。
LFE <–10dB>	低音发生失真时选此项。

初始设定: LFE <0dB>

使用午夜模式—MIDNIGHT MODE

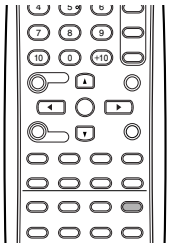
您可以使用午夜模式在午夜欣赏强有力的声音。启动午夜模式时，MIDNIGHT 指示灯在显示屏上点亮。

MIDNIGHT <OFF>	当您想要欣赏全动态范围效果的环绕声时选此项。（无使用效果。）
MIDNIGHT <1>	当您想要稍稍减小动态范围时选此项。
MIDNIGHT <2>	当您想要完全运用压缩效果时选此项（在午夜很有效）。

初始设定: MIDNIGHT <OFF>

从遥控器上：

反复按 MIDNIGHT 键选择上述其中一项。



中文

中文

设定数码输入（DIGITAL IN）端子—DIGITAL IN 1/2

当您使用数码输入端子时，请登记哪些组件接在哪些端子上—DIGITAL IN 1/2（参阅第 10 页），这样当您选择数码信号源时，才会显示正确的信号源名称。
为每个端子选择下列其中一个组件:

DVR/DVD	适用于 DVD 视盘机（或 DVD 录像机)。
DBS	适用于 DBS 调谐器。
VCR	适用于录像机。
TV	适用于电视机。

初始设定: DVR/DVD（适用于“DIGITAL IN 1”）
DBS（适用于“DIGITAL IN 2”）

注

- 您不能为相同的组件配备不同的端子。“DIGITAL IN 1”的配备优先于“DIGITAL IN 2”。

  例：当 “DIGITAL IN 1”设定在 “DVR/DVD”时，其他组件可选择“DIGITAL IN 2”。

- 设定“DIGITAL IN 1”影响到“DIGITAL IN 2”的设定。 当您切换了“DIGITAL IN 1”，确认为“DIGITAL IN 2”配备的组件。

选择组件视频输入模式—DVD VIDEO IN/VCR VIDEO IN/DBS VIDEO IN

当您使用组件视频输入连接 DVD 录像机（或 DVD 视盘机），录像机或 DBS 时，登记视频输入插孔的类型。
如果您没有选择适当的视频输入插孔，您无法在电视机上观看播放的图像，或无法正确操作 AV COMPU LINK 遥控系统（参阅第 32 页）。

适用于 DVD 录像机或 DVD 视盘机（DVD VIDEO IN）:

DVD ＜S/C＞	将 DVD 录像机（或 DVD 视盘机）连接至复合视频或 S-视频输入插孔时选此项。
DVD ＜CMPNT＞	将 DVD 录像机（或 DVD 视盘机）连接至组件视频输入插孔时选此项。

初始设定: DVD ＜S/C＞

适用于录像机（VCR VIDEO IN）:

VCR ＜S/C＞	将录像机连接至复合视频或 S-视频输入插孔时选此项。
VCR ＜CMPNT＞	将录像机连接至组件视频输入插孔时选此项。

初始设定: VCR ＜S/C＞

适用于 DBS（DBS VIDEO IN）:

DBS ＜S/C＞	将 DBS 连接至复合视频或 S-视频输入插孔时选此项。
DBS ＜CMPNT＞	将 DBS 连接至组件视频输入插孔时选此项。

初始设定: DBS ＜S/C＞

注

您不能同时为录像机和 DBS 选择“CMPNT”。若您为录像机选择“CMPNT”，DBS 会被固定设定为“S/C”，反之亦然。

声音调整

在完成基本设定之后，您可以根据自己的喜好进行声音调整。

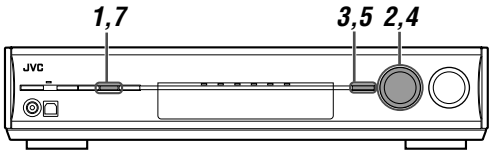
基本调整项目

您可以调整下列项目。详情参阅括号中所示之页。
• 您不能选择当前设定不能使用的项目。

项目	用于
SUBWFR LVL*1	调整重低音扬声器的输出水平。（22）
FRONT L LVL*1*2	调整左前置扬声器的输出水平。（22）
FRONT R LVL*1*2	调整右前置扬声器的输出水平。（22）
CENTER LVL*1*2	调整中置扬声器的输出水平。（22）
SURR L LVL*1*2	调整左环绕扬声器的输出水平。（22）
SURR R LVL*1*2	调整右环绕扬声器的输出水平。（22）
S BACK LVL*1*2	调整环绕后置扬声器的输出水平。（22）
S BACK L LVL*1*2	调整环绕左后置扬声器的输出水平。（22）
S BACK R LVL*1*2	调整环绕右后置扬声器的输出水平。（22）
D EQ 63Hz*1 **D EQ 250Hz*1** **D EQ 1kHz*1** **D EQ 4kHz*1** **D EQ 16kHz*1**	调整每个波段的均衡器图案。（22）
BASS BOOST	加强低音水平。（23）
INPUT ATT	减弱模拟信号源的输入水平。（23）
EFFECT*1	调整音效水平。（23）
ROOM SIZE	选择您的虚拟视听房间尺寸。（23）
LIVENESS	增添虚拟视听房间的生动效果。（23）
PANORAMA	增添墙壁回音感的“环绕萦回”的声音效果。（23）
CENTER WIDTH	调整中置和左右置扬声器之间的中央频道的位置。（24）
DIMENSION	调整声音位置的图案。（24）
CENTER GAIN	调整中央频道的拢音性。（24）
CENTER TONE*1	使中央音调更加柔和或更加尖锐。（24）
CENTER ALIGN	对齐中央频道信号的垂直位置。（24）

*1 您也可以使用遥控器进行调整。
*2 若您使用了第 15 页的快速扬声器设定，便不需要进行此项设定。

操作程序



在前面板上：

开始操作之前，请记住...

下列步骤的操作受时间限制。如果设定在完成之前被取消，请从步骤 ***1*** 起重新进行操作。

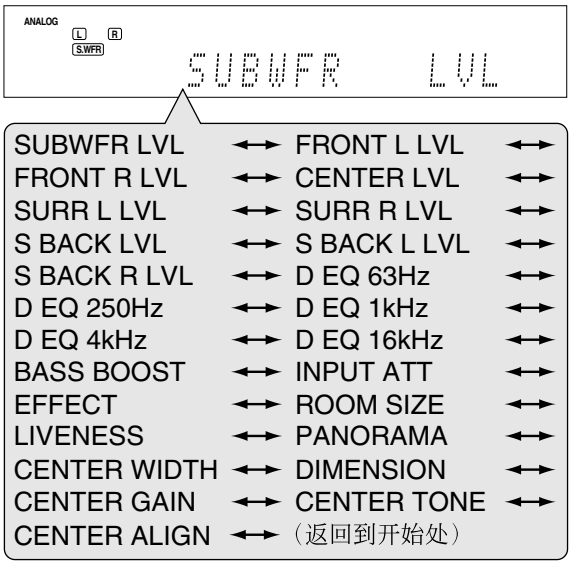
例：当调整重低音扬声器的输出水平时。

1 **按 ADJUST 键。**

MULTI JOG 旋钮现在可用于声音调整。

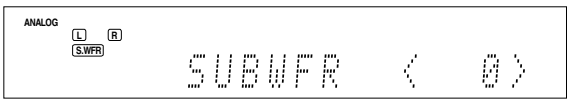
2 **转动 MULTI JOG 旋钮直到您想要设定的项目在显示屏上出现。**

• 随著转动 MULTI JOG 旋钮, 调整项目按如下所示进行切换：

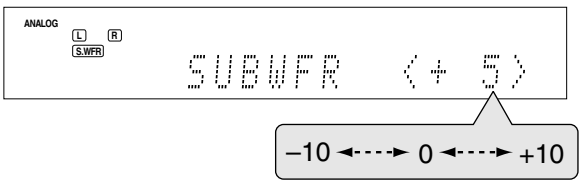


3 **按 SET 键。**

所选择的项目当前的设定出现。



4 **转动 MULTI JOG 旋钮调整所选的项目。**



您的调整被储存。

5 **按 SET 键。**

6 **如有需要，重复步骤 *2* 至 *5* 调整其他项目。**

7 **按 ADJUST 键。**

信号源指示信息在显示屏上恢复。

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调整扬声器输出水平

- **SUBWFR LVL（重低音扬声器输出水平），**
- **FRONT L LVL（左前置扬声器输出水平），**
- **FRONT R LVL（右前置扬声器输出水平），**
- **CENTER LVL（中置扬声器输出水平），**
- **SURR L LVL（左环绕扬声器输出水平），**
- **SURR R LVL（右环绕扬声器输出水平），**
- **S BACK L LVL（环绕左后置扬声器输出水平），**
- **S BACK R LVL（环绕右后置扬声器输出水平）**

您可以调整扬声器的输出水平。
调整所有扬声器的输出水平以便您可以在同一水平上聆听来自所有扬声器的声音。
- 一旦作了调整，它将被每个信号源记忆储存。

调整范围: –10（dB）至 +10（dB）（以 1 步为间隔）

初始设定: 所有扬声器均设定在 0（dB）

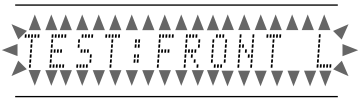
注
- 如果您已为一个扬声器选择了“NO”（参阅第 17 页），相应扬声器的输出水平将不可再调整。
- 如果您为“S BACK OUT”选择了“<1SPK>”（参阅第 17 页），“S BACK LVL”字样将代替“S BACK L LVL”和“S BACK R LVL”在显示屏上出现。
- 使用头戴耳机时，您仅能调整左前置和右前置扬声器的输出水平。

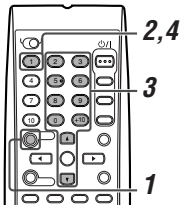
从遥控器上：

1 **按 SOUND 键。**

2 **按 TEST 键以检查扬声器的输出平衡。**

“TEST: FRONT L”字样开始在显示屏上闪烁，且测试音调按顺时针顺序从扬声器传出。





- 您无需测试音调可以直接调整扬声器输出水平。

3 **调整扬声器的输出水平。**

按与想要调整的扬声器相对应的数字键，然后按 LEVEL⊕ 或 LEVEL⊖ 键调整输出水平。

例：想要调整左前置扬声器（L）的输出水平时，按 FRONT L 键，然后按 LEVEL⊕ 或 LEVEL⊖ 键。

4 **再次按 TEST 键以停止测试音调。**

注
- 在扬声器设定中选择“NO”（参阅第 17 页）时，将不会有测试音调从扬声器传出。
- 当使用头戴耳机时，测试音调无效。
- 若您为“S BACK OUT”选择了“<1SPK>”（参阅第 17 页），按 S BACK L 键，然后按 LEVEL⊕ 或 LEVEL⊖ 键调整输出水平。
- 按 SOUND 键之后，数字键可用作声音调整。想要使用数字键操作您想要的信号源，在操作前按相应的信号源选择键。

调整均衡器图案—D EQ 63Hz/250Hz/1kHz/4kHz/16kHz

您可以用五个频率波段（中央频率：63 Hz, 250 Hz, 1 kHz, 4 kHz, 16 kHz）为前置扬声器调整均衡器图案。
- 一旦作了调整，它将被每个音源记忆储存。

调整范围: –8（dB）至 +8（dB）（以 2 dB 为间隔 ）

初始设定: 所有波段均为 0（dB）
- 调整完成，DIGITAL EQ 指示灯在显示屏上点亮。

如果不需要任何调整，将所有频率波段设定在“0（dB）”。
- DIGITAL EQ 指示灯在显示屏上熄灭。

从遥控器上：

开始操作之前，请记住...

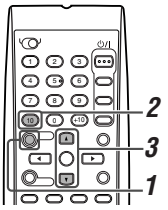
下列步骤的操作受时间限制。如果设定在完成之前被取消，请从步骤 ***2*** 起重新进行操作。

1 **按 SOUND 键。**

2 **反复按 D. EQ FREQ 键选择您想调整的波段。**

3 **按 LEVEL⊕ 或 LEVEL⊖ 键调整所选波段的均衡器图案。**

4 **重复步骤 *2* 和 *3* 调整其他波段。**



注
按 SOUND 键之后，数字键可用作声音调整。想要使用数字键操作您想要的信号源，在操作前按相应的信号源选择键。

调整低音

加强低音—BASS BOOST

您可以加强低音水平—低音加强。
- 一旦作了调整，它将被每个信号源记忆储存。
- 不能使用遥控器进行本设定。

B BOOST <ON>	想要加强低音水平时选此项。 B.BOOST 指示灯在显示屏上点亮。
B BOOST <OFF>	想要关闭低音加强时选此项。

调整范围: B BOOST <OFF>

注

该功能仅控制从前置扬声器传出的声音。

减弱输入信号—INPUT ATT

当**模拟信号源**的输入水平过高时，声音会失真。如果发生此种情况，您必须减弱输入信号的水平以防止声音失真。
- 一旦作了调整，它将被每个信号源记忆储存。
- 不能使用遥控器进行本设定。

ATT <ON>	想要减弱输入信号的水平时选此项。 INPUT ATT 指示灯在显示屏上点亮。
ATT <NORMAL>	想要关闭信号减弱功能时选此项。

调整范围: ATT <NORMAL>

为环绕声/DSP 模式调整声音参数

您可根据喜好调整环绕声/DSP 声音参数。
- 有关环绕声/DSP 模式的详情，参阅第 27 至 31 页。

为 DSP 模式调整音效水平—EFFECT

此设定仅当使用一种 DSP 模式（ALL CH STEREO 除外）时生效。想要启动 DSP 模式，参阅第 31 页。
- 一旦作了调整，它将被每个 DSP 模式记忆储存。

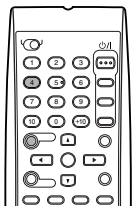
调整范围: 1 至 5（以 1 步为间隔）

初始设定: EFFECT <3>

当数字增大时，音效增强。
通常情况下，选择“3”。

从遥控器上：

按 SOUND 键，然后反复按 EFFECT 键选择想要调整的水平。



注

按 SOUND 键之后，数字键可用作声音调整。想要使用数字键操作您想要的信号源，在操作前按相应的信号源选择键。

为 DSP 模式调整虚拟房间的尺寸—ROOM SIZE

此设定仅当使用一种 DSP 模式（ALL CH STEREO 除外）时生效。想要启动 DSP 模式，参阅第 31 页。
- 若“SURROUND SPK”设定为“<NO>”（参阅第 17 页），您不能调整此项目。
- 一旦作了调整，它将被每个 DSP 模式记忆储存。
- 不能使用遥控器进行本设定。

调整范围: 1 至 5（以 1 步为间隔）

初始设定: ROOM SIZE <3>

当数字增大时，反应间隔增大，使您有如置身于大房间的感觉。
通常情况下，选择“3”。

为 DSP 模式调整虚拟房间的生动效果—LIVENESS

此设定仅当使用一种 DSP 模式（ALL CH STEREO 除外）时生效。想要启动 DSP 模式，参阅第 31 页。
- 若“SURROUND SPK”设定为“<NO>”（参阅第 17 页），您不能调整此项目。
- 一旦作了调整，它将被每个 DSP 模式记忆储存。
- 不能使用遥控器进行本设定。

调整范围: 1 至 5（以 1 步为间隔）

初始设定: LIVENESS <3>

当数字增大时，反应超时的衰减水平减小，音效从“Dead”切换为“Live”。
通常情况下，选择“3”。

为专业逻辑 IIx 音乐和专业逻辑 II 音乐调整全方位控制—PANORAMA

当对应模拟或数码 2-频道声音信号启动专业逻辑 IIx 音乐或专业逻辑 II 音乐时本设定有效。想要启动专业逻辑 IIx 音乐或专业逻辑 II 音乐，参阅第 31 页。
- 一旦作了调整，它将被记忆储存直到您切换设定。
- 不能使用遥控器进行本设定。

PANORAMA <ON>	选择增添墙壁回音感的“环绕萦回”的声音效果。
PANORAMA <OFF>	选择聆听原来录制的声音。

调整范围: PANORAMA <OFF>

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为专业逻辑 IIx 音乐和专业逻辑 II 音乐调整中央频道的拢音性—CENTER WIDTH

当对应模拟或数码 2-频道声音信号启动专业逻辑 IIx 音乐或专业逻辑 II 音乐时本设定有效。想要启动专业逻辑 IIx 音乐或专业逻辑 II 音乐，参阅第 31 页。

- 若“CENTER SPK”设定为“NO”（参阅第 17 页），您不能调整此项目。
- 一旦作了调整，它将被记忆储存直到您切换设定。
- 不能使用遥控器进行本设定。

调整范围: OFF 及 1 至 7（以 1 步为间隔）

初始设定: C WIDTH <3>

当数字增大时，中央频道的声音移向左右扬声器。
通常情况下，选择“3”。

为专业逻辑 IIx 音乐和专业逻辑 II 音乐调整其声音位置—DIMENSION

当对应模拟或数码 2-频道声音信号启动专业逻辑 IIx 音乐或专业逻辑 II 音乐时本设定有效。想要启动专业逻辑 IIx 音乐或专业逻辑 II 音乐，参阅第 31 页。

- 一旦作了调整，它将被记忆储存直到您切换设定。
- 不能使用遥控器进行本设定。

调整范围: 1 至 7（以 1 步为间隔）

初始设定: DIMENSION <4>

当数字增大时，声音从后面移至前面。
通常情况下，选择“4”。

调整中央频道的拢音性—CENTER GAIN

本设定仅当使用 Neo:6 音乐时有效。

- 若“CENTER SPK”设定为“NO”（参阅第 17 页），您不能调整此项目。
- 一旦作了调整，它将被记忆储存直到您切换设定。
- 不能使用遥控器进行本设定。

调整范围: 0 至 1.0（以 0.1 步为间隔）

初始设定: C GAIN <0.3>

当数字增大时，中央频道将很清晰地被拢合。
通常情况下，选择“0.3”。

调整中央音调—CENTER TONE

此设定仅当使用一种环绕声/DSP 模式时生效。想要启动环绕声/DSP 模式，参阅第 31 页。

- 若“CENTER SPK”设定为“NO”（参阅第 17 页），您不能调整此项目。
- 此设定对所有环绕声模式都很普遍，并为 DSP 模式分别记忆储存。

调整范围: 1 至 5（以 1 步为间隔）

初始设定: C TONE <3>

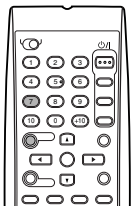
当数字增大时，对话增强。

通常情况下，选择“3”。

- 当中央音调不是设在“C TONE <3>”时，C.TONE 指示灯在显示屏上点亮。

从遥控器上：

按 SOUND 键，然后反复按 C. TONE 键选择想要调整的水平。



注

按 SOUND 键之后，数字键可用作声音调整。想要使用数字键操作您想要的信号源，在操作前按相应的信号源选择键。

为环绕声/DSP 模式对齐中央频道的垂直位置—CENTER ALIGN

本设定在使用环绕声/DSP 模式之一（PLIIx MUSIC，PLII MUSIC，NEO:6 MUSIC 和 ALL CH STEREO 除外）时有效。想要启动环绕声/DSP 模式，参阅第 31 页。

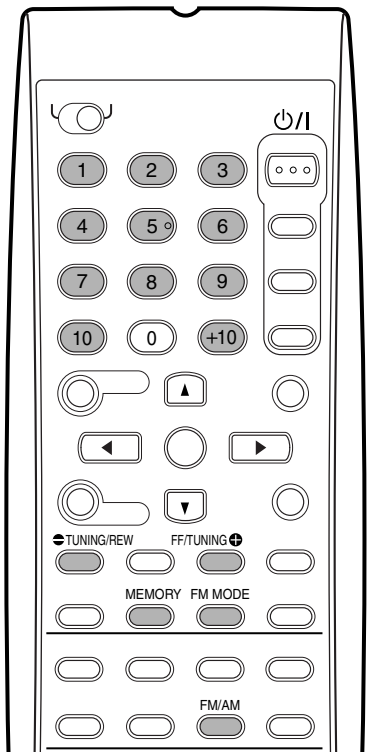
- 若“CENTER SPK”设定为“NO”（参阅第 17 页），您不能调整此项目。
- 一旦作了调整，它将被每个环绕声/DSP 模式记忆储存。
- 不能使用遥控器进行本设定。

C ALIGN <ON>	当您在画面上感觉不到表演者或歌手在讲话或唱歌时选此项。
C ALIGN <OFF>	关闭中央对齐时选此项。

初始设定: C ALIGN <OFF>

调谐器的操作

调谐器的操作主要在遥控器上进行。



注

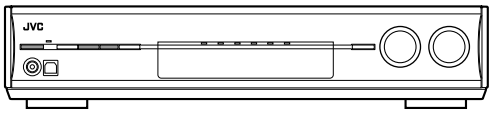
当您已使用前面板上的 SOURCE SELECTOR 选择“FM”或“AM”时，可能无法使用遥控器进行调谐器操作。想要用遥控器操作调谐器，用遥控器上的 FM/AM 键选择“FM”或“AM”。

设定 AM（调幅）调谐器的间隔空间

有些国家将 AM 电台的间隔空间设定在 9 kHz，而另一些国家则使用 10 kHz 的间隔。9 kHz 间隔空间为初始设定 。

- 在设定 AM 调谐器的间隔空间时，确保接收机处于关机状态，但插头还插在交流电插座上。

仅在前面板上：



想要选择 10 kHz 间隔时：

按住 ADJUST 键的同时按 ⏻/I STANDBY/ON 键。
“10k STEP”字样在显示屏上出现。

想要切换回 9 kHz 间隔时：

按住 SETTING 键的同时按 ⏻/I STANDBY/ON 键。
“9k STEP”字样在显示屏上出现。

注

当您切换 AM 调谐器的间隔空间时，储存的预设电台被删除。在此情况下，重新储存电台。

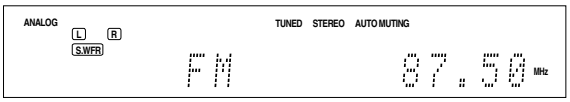
手动调收电台

仅从遥控器上：

1 **按 FM/AM 键选择波段。**

所选波段里上一次接收的电台被调收。

- 每次按该键，波段在 FM 和 AM 之间交替切换。



2 **反复按或按住 TUNING ⊕ 或 ⊖ TUNING 键，直到找到所需的电台。**

- 按（或按住）TUNING ⊕ 键可递增频率。
- 按（或按住）⊖ TUNING 键可递减频率。

注

- 当您按住后再松开 TUNING ⊕ 或 ⊖ TUNING 键时，频率持续改变直到调出电台。
- 当调出具有足够信号强度的电台时，TUNED 指示灯在显示屏上点亮。
- 当收到 FM 立体声节目时，STEREO 指示灯也点亮。

使用预设调收功能

电台一经配给频道号码，只需选择号码便可快速被调收。您最多可以预设 30 个 FM 电台和 15 个 AM 电台。

如何储存预设的电台

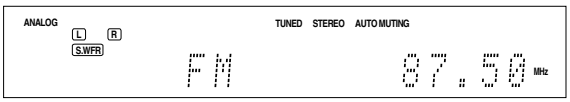
开始操作之前，请记住...

下列步骤的操作受时间限制。如果设定在完成之前被取消，请从步骤 **2** 起重新进行操作。

仅从遥控器上：

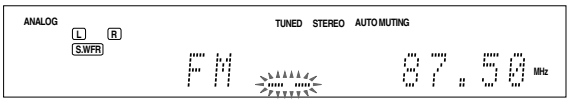
1 **调收您想要预设的电台（参阅上述的“手动调收电台”）。**

- 如果您想为该电台储存 FM 接收模式，请选择所需的 FM 接收模式。参阅第 26 页上的“选择 FM（调频）接收模式”。



2 **按 MEMORY 键。**

频道号码位置开始在显示屏上闪烁大约 5 秒钟。

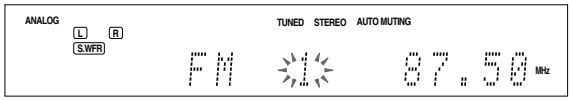


中文

接续下页

3 在频道号码位置闪烁的过程中按数字键（1 – 10, +10）选择频道号码。

- 想要选择号码 5，按 5 键。
- 想要选择号码 15，按 +10 键，然后按 5 键。
- 想要选择号码 30，按 +10 键，+10 键，然后按 10 键。



4 所选的频道号码在显示屏上闪烁的过程中再按一次 **MEMORY** 键。

被选的频道号码停止闪烁。
电台配给了被选的频道号码。

5 重复操作步骤 ***1*** 至 ***4***，直到储存完所需的所有电台。

如何删除储存了的预设电台

在使用过的频道号码里储存一个新的电台即会删除原来储存在这里的电台。

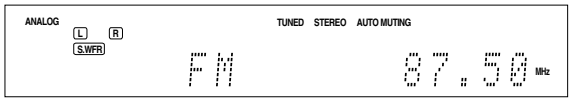
如何调收预设的电台

从遥控器上：

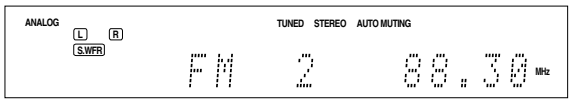
1 按 **FM/AM** 键选择波段。

所选波段里上一次接收的电台被调收，并且数字键现在可用于操作调谐器。

- 每次按该键，波段在 FM 和 AM 之间交替切换。

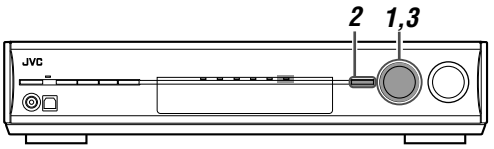


2 按数字键（1 – 10, +10）选择预设频道号码。



- 想要选择号码 5，按 5 键。
- 想要选择号码 15，按 +10 键，然后按 5 键。
- 想要选择号码 30，按 +10 键，+10 键，然后按 10 键。

在前面板上：



开始操作之前，请记住...

下列步骤的操作受时间限制。如果设定在完成之前被取消，请从步骤 ***2*** 起重新进行操作。

1 转动 **SOURCE SELECTOR** 旋钮选择“**FM**”或“**AM**”。

所选波段里上一次接收的电台被调收。

2 按 **TUNER PRESET** 键。

“P”字样在显示屏上出现，并且现在 MULTI JOG 旋钮可用于选择预设的频道。

3 转动 **MULTI JOG** 旋钮选择预设的频道号码。

- 顺时针转动 MULTI JOG 旋钮可递增预设频道的号码。
- 逆时针转动 MULTI JOG 旋钮可递减预设频道的号码。

选择 FM（调频）接收模式

当 FM 立体声广播接收困难或出现噪音时，可以在接收 FM 广播的过程中切换 FM 接收模式。

- 您可以为每个预设的电台储存 FM 接收模式（参阅第 25 页）。

仅从遥控器上：

在收听 FM 电台的过程中按 FM MODE 键。

- 每次您按此键，FM 接收模式在“AUTO MUTING”和“MONO”之间交替切换。

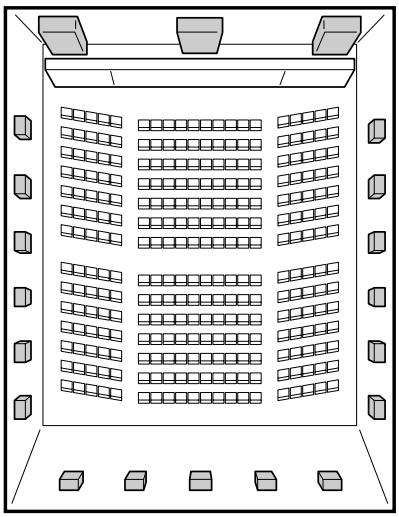
AUTO MUTING	通常情况下选此项。 当节目以立体声播出时，您听到的是立体声音；当节目以单频道播出时，您听到的是单频道声音。该模式也可用来遏止电台之间的静电干扰。AUTO MUTING 指示灯在显示屏上点亮。
MONO	想要改善接收效果时选此项（但立体声效果将丢失）。 在该模式下，调收电台时会听到噪音。 AUTO MUTING 指示灯从显示屏上熄灭。 (STEREO 指示灯也熄灭。)

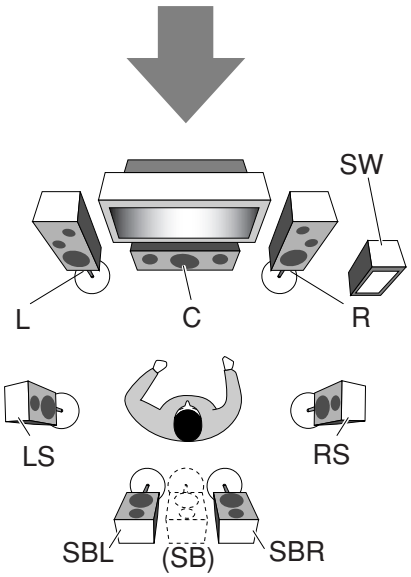
初始设定: AUTO MUTING

建立仿真音场

再生影院环绕声

在电影院里，墙壁上安装了许多扬声器，目的是为了从各个方向为观众传递扣人心弦的多制式环绕声。
通过这许多的扬声器，可以充分表现出声音的拢音性和动感。
本接收机内置的环绕声/DSP 模式可以创造出与您在真正的电影院里感受到的近乎相同的环绕声。





介绍环绕声模式

■ Dolby Digital（杜比数码）*

杜比数码是数码信号的压缩方法，由杜比实验室开发，并且可对多频道进行编码和解码。
- 当检测到从数码输入插孔传入的杜比数码信号时，DIGITAL 指示灯在显示屏上点亮。

Dolby Digital 5.1CH（杜比数码 5.1 频道）

杜比数码 5.1频道（DOLBY DIGITAL）灌录并以数码方式压缩左前频道，右前频道，中央频道，左环绕频道，右环绕频道和 LFE 频道的信号（共为 6 个频道，但 LFE 频道算作 0.1 频道，因此被称为 5.1 频道）。
杜比数码能够再生立体环绕声，而且与杜比专业逻辑的 7 kHz 相比，可将环绕高音的截止频率设定在 20 kHz。基于这些原因，可以比杜比专业逻辑再生出更加具有动感，更加具有“身临其境”感觉的音响效果。

Dolby Digital EX （杜比数码 EX）

杜比数码 EX（DOLBY D EX）是一种数码环绕声编码制式，该制式新增加了三个被称为“环绕声后频道”的环绕声频道。
与传统的杜比数码 5.1 频道相比，新增加的环绕声后频道在您观赏视频软件时能够令您播出高画质图像。而且，环绕声模式拢音性变得更稳定。

■ 杜比环绕声

Dolby Pro Logic II（杜比专业逻辑 II）

杜比专业逻辑 II 是一种多频道播放制式，可将 2-频道软件转换成 5-频道（加上重低音频道）。用于杜比专业逻辑 II 的基于矩阵的转换方法可令环绕高音的截止频率不受限制，并且能够解码立体环绕声。
- 本接收机提供两种类型的杜比专业逻辑 II 模式—**Pro Logic II Movie**（PLII MOVIE）和 **Pro Logic II Music**（PLII MUSIC）。当杜比专业逻辑 II 模式启动时，PL II 指示灯在显示屏上点亮。

PLII MOVIE	适于播放任何以杜比环绕声编码的软件。您可以欣赏到非常接近于使用分离式 5.1-频道声音建立起来的声场。
PLII MUSIC	适于播放任何 2-频道立体声软件。您可以欣赏到宽广辽阔深沉有力的声音。

* 由 Dolby Laboratories 授权制造。“杜比”，“Dolby”，“Pro Logic”和双 D 标志是 Dolby Laboratories 的商标。

中文

接续下页

中文

Dolby Pro Logic IIx（杜比专业逻辑 IIx）

杜比专业逻辑 IIx 是在杜比专业逻辑 II 基础上研发的不仅可将多频道软件转换成 7.1 频道（或 6.1 频道），也可转换 2-频道软件的多频道播放制式。用于杜比专业逻辑 IIx 的基于矩阵的转换方法可令环绕高音的截止频率不受限制。

- 本接收机提供两种类型的杜比专业逻辑 IIx 模式—**Pro Logic IIx Movie**（PLIIx MOVIE）和 **Pro Logic IIx Music**（PLIIx MUSIC）。
  当杜比专业逻辑 IIx 模式启动时，“PLIIx MOVIE”或“PLIIx MUSIC”字样出现且 DD PL IIx 指示灯在显示屏上点亮。

PLIIx MOVIE	适于播放任何以杜比环绕声编码的软件。您可以欣赏到自然浑厚的声音。
PLIIx MUSIC	适于播放任何 2-频道立体声软件。您可以欣赏到宽广辽阔深沉有力的 7.1-频道声音。

- 想要欣赏以杜比数码编码的软件时，须使用本机后面板上的数码端子连接信号源组件。（参阅第 10 页。）

■ DTS**

DTS 是另一种数码信号压缩方法，由 Digital Theater Systems, Inc.（数码影院音响公司）开发，可对多频道信号进行编码和解码（从 1 频道直到 6.1 频道）。

- 当从数码输入端子检测到 DTS 信号时，dts 指示灯在显示屏上点亮。

DTS Digital Surround（DTS 数码环绕声）

DTS Digital Surround（DTS 数码环绕声）是另一种可用于 CD，LD 和 DVD 软件的分离式 5.1 频道数码音频制式。
与杜比数码相比，DTS 数码环绕声制式的音频压缩比率低，能在播出的声音里增加广度和深度。其结果是，DTS 数码环绕声再生出来的声音相比之下更加自然，圆润和清晰。

DTS Extended Surround (DTS-ES)

DTS-ES 是另一种多频道数码编码格式。
通过增加第三个环绕声频道—环绕声后频道，可将环绕声效果和空间感增大到 360 度全方位。
DTS-ES 包括两种环绕声信号灌录方法不同的信号制式—**DTS-ES Discrete 6.1ch**（ES DISCRETE）和 **DTS-ES Matrix 6.1ch**（ES MATRIX）。
DTS-ES Discrete 6.1ch（DTS-ES 分离式 6.1 频道）用于分离式编码（和解码）6.1-频道信号，以防止各频道之间的干扰。
DTS-ES Matrix 6.1ch（DTS-ES 矩阵式 6.1 频道）用于在 DTS 数码环绕声 5.1-频道里另增设一个环绕声频道。通过使用矩阵式编码/解码方法，新增加的“环绕声后频道”信号被编码（和解码）到左和右环绕频道信号中。

DTS 96/24

近年来，能够同时用于家庭录音和播放的高采样值非常热门。高采样值能对应更宽的频率范围和更大的位传输速度，因而能够提供更大的动态范围。
DTS 96/24 是由 Digital Theater Systems, Inc.（数码影院音响公司）最先推出的一种多频道数码信号制式（英尺/秒的传输速度为 96 kHz/24 比特）。此功能让“高于 CD 的声音质量”走入了家庭。

- 当检测到 DTS 96/24 信号时，dts 和 96/24 指示灯点亮。您可以欣赏最高质量的 5.1-频道声音。

DTS Neo:6

DTS Neo:6 是另一种转换方法，通过使用用于解码 DTS-ES Matrix 6.1 频道的高精密数码矩阵解码器，能从模拟/数玛 2-频道软件创造出 6-频道信号。

- 本接收机提供下述 DTS Neo:6 模式—**Neo:6 Cinema**（NEO:6 CINEMA）和 **Neo:6 Music**（NEO:6 MUSIC）。
  当启动其中一种模式时，NEO:6 指示灯在显示屏上点亮。

NEO:6 CINEMA	适于播放动画。应用此模式，虽然播放的是 2-频道软件，却可令您感受到播放 6.1-频道软件的气氛。在播放以传统环绕声格式编码的软件时也非常有效。
NEO:6 MUSIC	适于播放音乐软件。前频道信号不经过解码器（因而声音质量不减退），而且从其他扬声器传出环绕声信号自然扩充声场。

** “DTS”，“DTS-ES”，“Neo:6”和“DTS 96/24”为 Digital Theater Systems, Inc.（数码影院音响公司）的注册商标。

当使用环绕声模式时，声音从环绕声模式所要求使用的且正在启动中的扬声器发出。

- **如果在扬声器设定中将“SURROUND SPK”或“CENTER SPK”设定在“<NO>”（参阅第 17 页）**，相应的频道信号通过前置扬声器分配传出。
- **如果在扬声器设定中将“SURROUND SPK”和“CENTER SPK”都设定在“<NO>”（参阅第 17 页）**，JVC 独创的 3D-PHONIC 处理方法（JVC 开发的此方法用来仅从前置扬声器创造环绕声效果）被使用。 3D-PHONIC 指示灯在显示屏上点亮。

3D HEADPHONE 模式

如果您在使用一种环绕声模式时连接一对头戴耳机，
3D HEADPHONE 模式无需对应播放的软件类型被启动。
“3D HEADPHONE”字样在显示屏上出现，DSP 和 HEADPHONE 指示灯点亮。

关于其他数码信号

线性 PCM

用于 DVD, CD 和视频 CD 的未经压缩的数码音频资料。
DVD 支持两个频道，采样值为 48/96 kHz，量化为 16/20/24 比特。另一方面，CD 和视频 CD 被限于支持两个频道，采样值为 44.1 kHz，量化为 16 比特。

- 当检测到线性 PCM 信号时，LINEAR PCM 指示灯点亮。

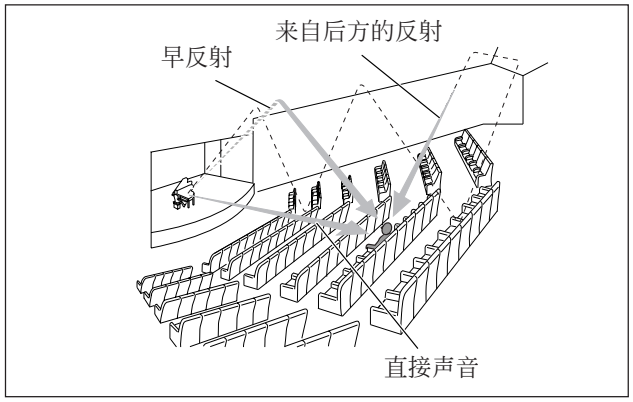
Dual Mono（双重单声道）

双重单声道可以简单地理解为电视节目的双语言播放（但双重单声道与这些模拟制式并不完全一样）。
本制式现在被用在杜比数码和 DTS 等模式。它能够使两个独立的频道（被称为主频道和副频道）分别被录制。

- 您可以选择想听的频道（参阅第 19 页）。

介绍 DSP 模式

在音乐厅，舞厅等处听到的声音包含直接声音和间接声音—早反射和来自后方的反射。直接声音不经任何反射传递给听众，而间接声音则因天花板和墙壁的距离而有所延迟。这些直接声音和间接声音是产生环绕声效果的重要因素。
DSP（数码信号处理器）模式创造出这些重要的因素，并给您带来真正“身临其境”的感觉。



DSP 模式包括下列模式：
- Digital Acoustic Processor（DAP）（数码声学处理器）模式—HALL1，HALL2，LIVE CLUB，DANCE CLUB，PAVILION，THEATER1，THEATER2
- MONO FILM—用于所有的 2-频道信号（包括双重单声道信号）
- 全频道立体声模式（ALL CH STEREO）

当启动一种 DSP 模式时， DSP 指示灯在显示屏上点亮。

■ 数码声学处理器（DAP）模式

为了在您的视听室内再生出更加仿真的声场，您可以使用下列 DAP 模式。

HALL1	用于再生举办一流音乐会会场用方柜形大厅般的空间感觉。（可容纳大约 2000 个席位。）
HALL2	用于再生举办一流音乐会会场用圆拱顶大厅般的空间感觉。（可容纳大约 2000 个席位。）
LIVE CLUB	用于再生低天花板现场音乐会会场般的空间感觉。
DANCE CLUB	用于再生摇滚舞厅般的空间感觉。
PAVILION	用于再生高天花板摇滚舞厅般的空间感觉。
THEATER1	用于再生可容纳大约 600 座席的大剧场般的空间感觉。
THEATER2	用于再生可容纳大约 300 座席的小剧场般的空间感觉。

注

当播放 2-频道模拟或数码信号源时启动“THEATER1”或“THEATER2”，内置的杜比专业逻辑 II 解码器被启动，DD PL II 指示灯点亮。

在使用 DAP 模式时，从所有连接并启动中的扬声器均发出声音。
- **如果在扬声器设定中将“SURROUND SPK”设定在“<NO>”（参阅第 17 页）**，JVC 独创的 3D-PHONIC 处理方法（JVC 开发的此方法用来仅从前置扬声器创造环绕声效果）被使用。
  3D-PHONIC 指示灯在显示屏上点亮。

■ MONO FILM（单声道电影）

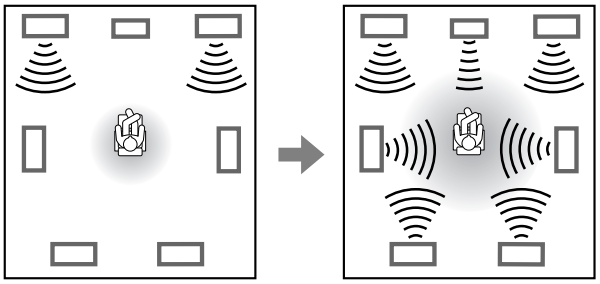
在观看单声道声音的视频软件（包括双重单声道信号在内的模拟和 2-频道数码信号）时，为了在您的视听室内再生出更加仿真的声场，您可使用此模式。
环绕声效果增加，并且声音的拢音性和台词的音质也会提高。

该模式不能用于多频道数码信号。

在使用“MONO FILM”模式时，声音从所有连接（并启动）中的扬声器发出。
- **如果在扬声器设定中将“SURROUND SPK”设定在“<NO>”（参阅第 17 页）**，JVC 独创的 3D-PHONIC 处理方法（JVC 开发的此方法用来仅从前置扬声器创造环绕声效果）被使用。
  3D-PHONIC 指示灯在显示屏上点亮。
- 如果传入的信号从 2-频道数码信号变成另一种数码信号类型，“MONO FILM”将被取消，而某一适当的环绕声模式被启动。

■ 全频道立体声模式（ALL CH STEREO）

通过使用所有连接（并启动了）的扬声器，此模式可以创造出更大的立体声声场。**当环绕扬声器的“SURROUND SPK”设定设在“<NO>”时，不能使用此模式（参阅第 17 页）。**



从普通立体声模式再生的声音　　从全频道立体声模式再生的声音

中文

使用环绕声/DSP 模式

可以使用的环绕声/DSP 模式视扬声器的设定及传入的信号而定。参阅下表。
- 传入的信号类型后面括号里的数字代表前频道和环绕频道的数量。例如，（3/2）表示该信号是由三个前频道信号（左/右/中）和两个（立体声）环绕声信号编码而成。
- 有关 EX/ES/PLIIx 的设定，参阅第 18 页。

传入的信号类型		EX/ES/PLIIx 设定				
		AUTO	ON	PLIIx MOVIE	PLIIx MUSIC	OFF
杜比数码	杜比数码环绕声 EX	DOLBY D EX*3*5	DOLBY D EX*3	DD D+PLIIx MOVIE*2,3	DD D+PLIIx MUSIC*3	DOLBY DIGITAL
杜比数码	杜比数码（3/2，2/2）	DOLBY DIGITAL	DOLBY D EX*3	DD D+PLIIx MOVIE*2,3	DD D+PLIIx MUSIC*3	DOLBY DIGITAL
杜比数码	杜比数码（3/1，2/1，3/0，1/0）	DOLBY DIGITAL				
杜比数码	杜比数码（双重单声道）	DUAL MONO				
DTS	DTS-ES 分离式*1	DTS-ES DSCRT*3	DTS-ES DSCRT*3	DTS+PLIIx MOVIE*2,3	DTS+PLIIx MUSIC*3	DTS SURROUND
DTS	DTS-ES 矩阵式*1	DTS-ES MATRIX*3	DTS-ES MATRIX*3	DTS+PLIIx MOVIE*2,3	DTS+PLIIx MUSIC*3	DTS SURROUND
DTS	DTS（3/2, 2/2）*1	DTS SURROUND	DTS+NEO:6*3	DTS+PLIIx MOVIE*2,3	DTS+PLIIx MUSIC*3	DTS SURROUND
DTS	DTS（3/1, 2/1, 3/0, 1/0）	DTS				
DTS	DTS （双重单声道）	DUAL MONO				
模拟/LINEAR PCM 杜比数码（2/0）		PLIIx MOVIE*4/PLIIx MUSIC*4/NEO:6 CINEMA/NEO:6 MUSIC				PLII MOVIE/ PLII MUSIC/ NEO:6 CINEMA/ NEO:6 MUSIC

*1 当 EX/ES/PLIIx 设定启动时，DTS 96/24 程序不被应用。如果您想应用该程序，将 EX/ES/PLIIx 设定设在“OFF ”（参阅第 18 页）。
*2 当“S BACK OUT”设定为“<1SPK>”时，DD D+PLIIx MOVIE 被切换为 DOLBY D EX，DTS+PLIIx MOVIE 被切换为 DTS+DD EX。
*3 当“S BACK SPK”设定为“<NO>”时，该模式启动虚拟后置环绕声且 VIRTUAL SB 指示灯在显示屏上点亮。
*4 当“S BACK SPK”设定为“<NO>”时，PLIIx MOVIE 被切换为 PLII MOVIE，PLIIx MUSIC 被切换为 PLII MUSIC。
*5 对于某些杜比数码环绕声 EX 软件，即使您已经选择了“<AUTO>”，杜比数码 5.1-频道再生（“DOLBY DIGITAL”）仍会被应用。此种情况下，选择“<ON>”以应用“DOLBY D EX”。

关于 DSP 模式

- 下列 DSP 模式在不论传入何种类型的信号时都有效。
  HALL1, HALL2, LIVE CLUB, DANCE CLUB, PAVILION, THEATER1, THEATER2
- 当传入信号为多频道（多于 2-频道）数码信号时，“MONO FILM”无效。
- 若“SURROUND SPK”设定为“<NO>”时，“ALL CH STEREO”无效。

虚拟后置环绕声

此功能从后方传来强劲的环绕声效果如同您已连接了环绕后置扬声器。VIRTUAL SB（后置环绕声）指示灯在显示屏上点亮。
如果您已经连接（并启动）环绕声扬声器，您可以不连接环绕后置扬声器直接使用虚拟后置环绕声。
当 EX/ES/PLIIx 没有设定为“<OFF>”，且播放包含下列信号的软件时启动虚拟后置环绕声：
– 杜比数码环绕声 EX
– DTS-ES
– 杜比数码或多于 4-频道的 DTS

中文

启动环绕声/DSP 模式

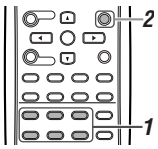
可以使用的环绕声/DSP 模式视扬声器的设定及传入的信号而定。详情参阅第 30 页。

为信号源启动一种环绕声/DSP 模式，自动将记忆储存的设定和调整唤出。

- **想要调整扬声器的输出水平，**参阅第 22 页。
- **启动一种环绕声/DSP 模式后，**您可以调整 CENTER TONE。（参阅第 24 页）
- **启动一种环绕声/DSP 模式（ PLIIx MUSIC，PLII MUSIC，NEO:6 MUSIC 和 ALL CH STEREO 除外）后，**您可以调整 CENTER ALIGN。（参阅第 24 页）
- **启动 "NEO:6 MUSIC" 后，**您可以调整 CENTER GAIN。（参阅第 24 页）
- **启动 DSP 模式（ ALL CH STEREO 除外）后，**您可以调整下列设定：
  EFFECT（参阅第 23 页）
  LIVENESS（参阅第 23 页）
  ROOM SIZE（参阅第 23 页）
- **启动 "PLIIx MUSIC" 和 "PLII MUSIC" 模式后，**您可以调整下列设定：
  CENTER WIDTH（参阅第 24 页）
  DIMENSION（参阅第 24 页）
  PANORAMA（参阅第 23 页）

选择环绕声/DSP 模式

从遥控器上：



1 选择并播放任何信号源。

- 确保您已正确地选择输入模式（模拟或数码）。

2 反复按 **SURROUND** 键选择您想要的环绕声/DSP 模式。

例：当为杜比数码多频道软件选择 "DOLBY DIGITAL" 时：

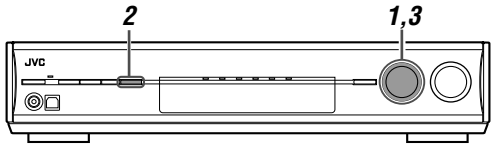
AUTO SURROUND*1 ⟶ 环绕声模式*2 ⟶ HALL1 ⟶ HALL2 ⟶ LIVE CLUB ⟶ DANCE CLUB ⟶ PAVILION ⟶ THEATER1 ⟶ THEATER2 ⟶ MONO FILM*3 ⟶ ALL CH STEREO*4 ⟶ SURROUND OFF ⟶（返回到开始处）

*1 初始设定为"AUTO SURROUND"。
*2 可供选择的环绕声模式取决于扬声器的设定及传入的信号。详情参阅第 30 页。
*3 若传入信号是多频道（多于 2 频道）数码信号，"MONO FILM"无效。
*4 若"SURROUND SPK"设定为"<NO>"，"ALL CH STEREO"无效。

想要取消环绕声/DSP 模式

反复按 SURROUND 键直到"SURROUND OFF"字样在显示屏上出现。

在前面板上：



开始操作之前，请记住...

下列步骤的操作受时间限制。如果设定在完成之前被取消，请从步骤 **2** 起重新进行操作。

1 选择并播放任何信号源。

- 确保您已正确地选择输入模式（模拟或数码）。

2 按 **SURROUND** 键。

MULTI JOG 旋钮现在用于选择环绕声/DSP 模式。

3 转动 **MULTI JOG** 旋钮选择您想要的环绕声/DSP 模式。

例：当为杜比数码多频道软件选择 "DOLBY DIGITAL" 时：

AUTO SURROUND*1 ⟷ 环绕声模式*2 ⟷ HALL1 ⟷ HALL2 ⟷ LIVE CLUB ⟷ DANCE CLUB ⟷ PAVILION ⟷ THEATER1 ⟷ THEATER2 ⟷ MONO FILM*3 ⟷ ALL CH STEREO*4 ⟷ SURROUND OFF ⟷（返回到开始处）

*1 初始设定为"AUTO SURROUND"。
*2 可供选择的环绕声模式取决于扬声器的设定及传入的信号。详情参阅第 30 页。
*3 若传入信号是多频道（多于 2 频道）数码信号，"MONO FILM"无效。
*4 若"SURROUND SPK"设定为"<NO>"，"ALL CH STEREO"无效。

想要取消环绕声/DSP 模式

转动 MULTI JOG 旋钮直到"SURROUND OFF"字样在显示屏上出现。

当您选择 "AUTO SURROUND"（自动环绕声）时

您可以简便地欣赏到环绕声模式。

- 有关环绕声模式的详情，参阅第 30 页。
- 启动"AUTO SURROUND"时，AUTO SURR 指示灯在显示屏上点亮。

"AUTO SURROUND" 如何工作？

- 如果传入多频道信号，适当的环绕声模式自动被选。
- 如果含有环绕声的杜比数码 2-频道信号传入，"PLIIx MOVIE"或"PLII MOVIE"被选。
- 如果不含有环绕声的杜比数码 2-频道信号传入，"SURROUND OFF（立体声）"被选。
- 如果线性 PCM 信号传入，"SURROUND OFF（立体声）"被选。

注

- "AUTO SURROUND"在下列情况下无效：
  – 当播放模拟信号源时，
  – 当选择固定数码解码模式—"DOLBY DIGITAL"或"DTS"之一时（参阅第 13 页）。

中文

AV COMPU LINK（音频视频电脑联动）遥控系统

中文

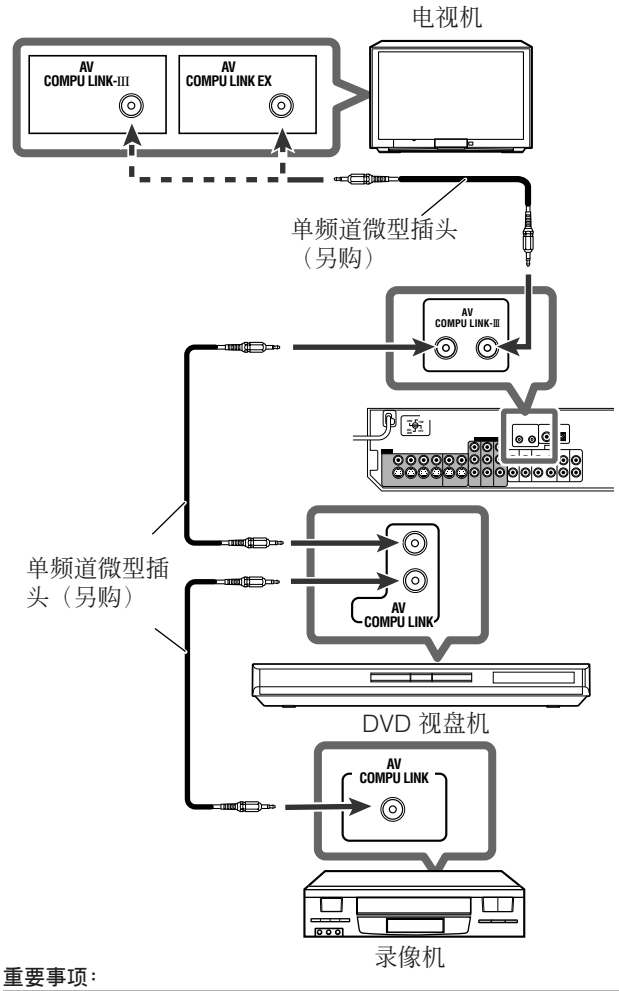
利用 AV COMPU LINK 遥控系统，可以通过本接收机操作 JVC 视频组件（电视机，DVD 视盘机* 和录像机）。

本接收机配备了 AV COMPU LNK-III，这增加了通过组件视频插孔操作 JVC 的视频组件的功能。想要使用该遥控系统，按下面的图示和第 33 页中的步骤，连接您想要操作的视频组件。

- 另请参阅随视频组件附带的使用手册。

* 第 32 和 33 页中的“DVD 视盘机”可以与“DVD 录像机”通用。

连接方法 1：AV COMPU LINK 连接



重要事项：

该 AV COMPU LINK 遥控系统不能遥控连接至 DBS IN 插孔的 DBS 调谐器。

注

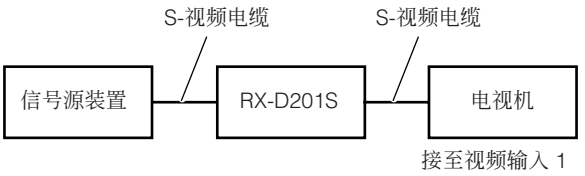
- 通过组件视频电缆连接接收机和带有 AV COMPU LINK EX 端子的电视机时，您无法使用电视机输入模式的自动选择（参阅第 33 页）。
- 当只有录像机和 DVD 视盘机与本接收机连接时，使用带单频道微型插头的电缆直接将其连接到接收机上。
- 您只能将带有 AV COMPU LINK EX 或 AV COMPU LINK-III 端子的电视机与 AV COMPU LINK-III 端子连接。

连接方法 2：视频电缆连接

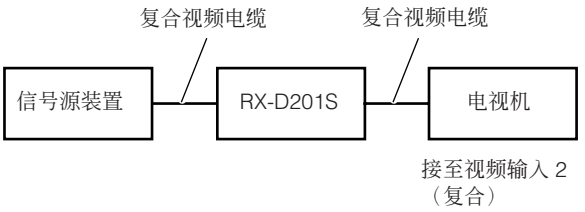
本接收机配有三种类型的视频端子—复合视频，S-视频和组件视频。并且通过某种类型的视频端子传入的信号只能通过与其同型的端子输出。因此您必须应用下述三种方法当中的一种将视频组件连接到本接收机上。

- 使用 AV COMPU LINK 遥控系统时，正确地为 DVD 视盘机和录像机设定视频输入（参阅第 20 页的“选择组件视频输入模式—DVD VIDEO IN/VCR VIDEO IN/DBS VIDEO IN”）；否则，无法在电视机上选择本接收机的正确输入。

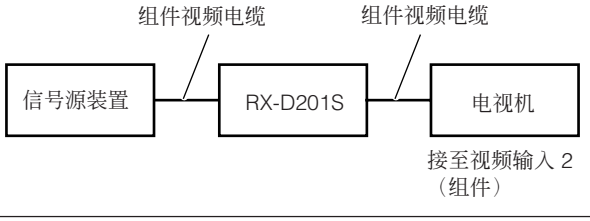
方法 1：
通过 S-视频端子将信号源装置连接至接收机时，使用 S-视频电缆将本接收机连接至电视机的视频输入 1 端子。



方法 2：
通过复合视频插孔将信号源装置连接至接收机时，使用复合视频电缆将本接收机连接至电视机的视频输入 2 端子（复合视频输入）。



方法 3：
通过组件视频插孔将信号源装置连接至接收机时，使用组件视频电缆将本接收机连接至电视机的视频输入 2 端子（组件视频输入）。



连接步骤

1 如果您已经将录像机，**DVD** 视盘机，电视机和本接收机插入了交流电源插座，请先将这些交流电源线拔出。

2 请使用带单频道微型插头的电缆（另购）如下所示来连接录像机，**DVD** 视盘机，电视机和本接收机。

- 参阅前页的“连接方法 1”。

3 请使用音频电缆将录像机，**DVD** 视盘机，电视机和本接收机的音频输入/输出插孔相连接。

- 参阅第 7 至 9 页。

4 请使用 **S-**视频电缆，复合视频电缆或组件视频电缆将录像机，**DVD** 视盘机，电视机和本接收机上的视频输入/输出插孔相连接。

- 参阅前页的“连接方法 2”。

5 将连接的组件和接收机上的交流电源线插入交流电源插座。

6 在进行 **AV COMPU LINK** 连接之后首次打开电视机时，请使用电视机上的电视机音量控制键将电视机音量调至最低音量。

7 请先启动连接的组件，然后再启动本接收机。

- 要打开录像机时，可使用本接收机附带的遥控器（按 STANDBY/ON ⏻/I VCR 键）。

本 AV COMPU LINK 遥控系统为您提供下列 5 种基本功能。

使用本接收机附带的遥控器遥控电视机， DVD 视盘机和录像机

详情参阅第 34 和 35 页。

- 请将遥控器直接对准**每个组件上的遥感窗**。

单触视频播放

只要将没有防抹片的录像带插入录像机，您无需再手动设定其他开关即可欣赏视频播放。本接收机可自动启动并将信号源切换成“VCR”（或“VCR DIGITAL”）。
电视机自动启动并将输入模式切换到适当的位置，使您能够观赏播出的图像。
当您插入带有防抹片的录像带时，按录像机上或遥控器上的播放（►）键，可以获得同样的效果。

单触 DVD 播放

只要开始播放 DVD 视盘机，您无须再手动设定其他开关即可欣赏 DVD 播放。

- 当通过本接收机上的模拟输入插孔连接 DVD 视盘机时（并且模拟输入被选），本接收机可自动启动并将信号源切换成“DVR/DVD”。
- 当通过本接收机上的数码输入端子连接 DVD 视盘机时（并且数码输入被选），本接收机可自动启动并将信号源切换成“DVR/DVD DGTL”。

电视机自动启动并将输入模式切换到适当的位置，使您能够观赏播出的图像。

电视机输入模式的自动选择

- 当您在接收机上选择“TV”（或“TV DIGITAL”）作为信号源进行播放时，电视机自动将输入模式切换至电视机调谐器以使您能够观看电视。
- 当您在接收机上选择“DVR/DVD”（或“DVR/DVD DGTL”），“VCR”（或“VCR DIGITAL”）或“DBS”（或“DBS DIGITAL”）作为信号源来播放时，电视机自动将输入模式切换至适当的位置（视频输入 1 或视频输入 2），使您能够观赏播出的图像。

注

此功能在使用组件视频电缆连接本接收机和带有 AV COMPU LINK EX 端子的电视机时无效。此种情况下，参阅第 32 页的方法 1 或方法 2 重新连接电视机。

电源自动启动/关闭

电视机，DVD 视盘机和录像机与接收机一起启动和关闭。
当您打开接收机时;

- 如果上次所选的信号源是“TV”（或“TV DIGITAL”）或“DBS”（或“DBS DIGITAL”），只有电视机自动启动。
- 如果上次所选的信号源是“DVR/DVD”（或“DVR/DVD DGTL”），则电视机和 DVD 视盘机将自动启动。
- 如果上次所选的信号源是“VCR”（或“VCR DIGITAL”），则电视机和录像机将自动启动。

当您关闭接收机时，电视机，DVD 视盘机和录像机也将关闭。

注

如果在录像机复录的过程中关闭接收机，录像机不会关闭且会继续复录。

中文

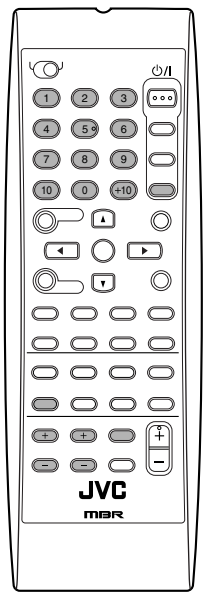
操作其他的 JVC 产品

中文

使用遥控器不但可以操作本接收机还可以操作其他的 JVC 产品。

- 另请参阅其他产品附带的使用手册。
  - 某些 JVC 录像机可接收两种类型的遥控信号—遥控代码“A”和“B”。本遥控器也可以操作遥控代码设定为“A”的录像机。
  - 某些 JVC DVD 录像机可接收四种类型的遥控信号。本遥控器也可以操作遥控代码设定为初始代码的 DVD 录像机。详情参阅 DVD 录像机附带的使用手册。
- 想要操作其他的产品时，请将遥控器直接对准目标产品上的遥感窗。

■ 电视机



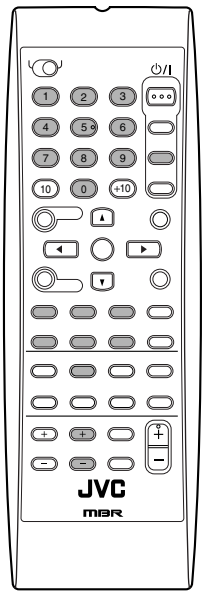
您通常可以进行下列操作：

TV VOLUME +/–:	在电视机上调整音量。
TV/VIDEO:	在电视机上切换输入模式（视频输入或电视机调谐器）。

按 TV 键之后，您便可在电视机上进行下列操作。

STANDBY/ON ⏻/I TV/DBS/CATV:	打开或关闭电视机。
CHANNEL +/–:	切换频道号码。
1 – 9, 0, 100+:	选择频道号码。
RETURN (10):	在前一个频道和当前的频道之间转换。

■ 录像机



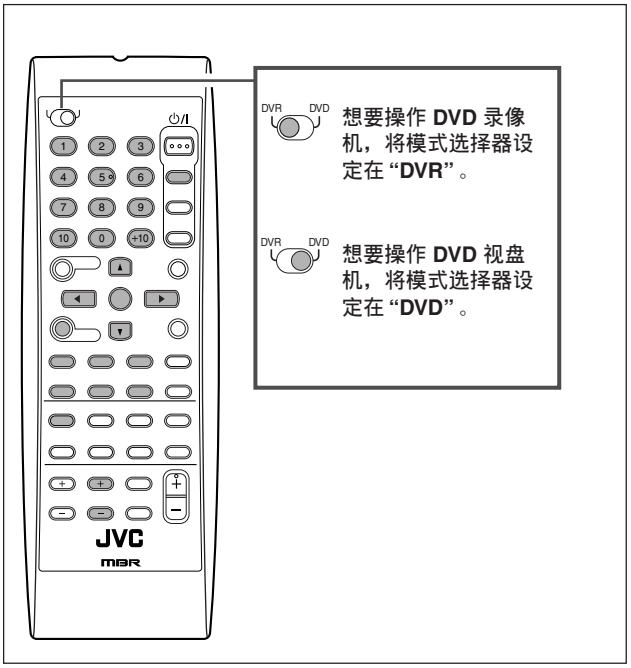
您通常可以进行下列操作：

STANDBY/ON ⏻/I VCR:	打开或关闭录像机。

按 VCR 键之后，您便可在录像机上进行下列操作。

CHANNEL +/–:	在录像机上切换频道号码。
►:	开始播放。
■:	停止播放。
II:	暂停播放。要继续播放时，按 ► 键。
FF:	快速进带。
REW:	快速倒带。
REC PAUSE:	输入暂停录音。想要开始录音，按此键然后按 ► 键。

■ DVD 录像机或 DVD 视盘机



正确设定模式选择器后，您可以在 DVD 录像机或 DVD 视盘机上进行如下操作。

详情参阅随 DVD 录像机或 DVD 视盘机附带的使用手册。

■ 切换 DVD 录像机的遥控代码

某些 JVC DVD 录像机可接收四种类型的遥控信号。您可以为本机附带的四种遥控代码选择其中之一以操作 DVD 录像机。详情参阅 DVD 录像机附带的使用手册。

初始设定: 03

1 将模式选择器设定为 “**DVR**” 。

2 按住 **STANDBY/ON ⏻/I DVR/DVD** 键。

3 按 **DVR/DVD** 键。

4 使用 **1 – 4** 和 **0** 输入所需的遥控代码。

例：想要输入代码 “2” ，按 0，然后再按 2。

录像机代码	输入数字
1	01
2	02
3	03
4	04

5 松开 **STANDBY/ON ⏻/I DVR/DVD** 键。

现在，遥控代码已更改。

您通常可以进行下列操作：

STANDBY/ON ⏻/I DVR/DVD:	打开或关闭 DVD 录像机或 DVD 视盘机。

按 DVR/DVD 键之后，您便可在 DVD 录像机或 DVD 视盘机上进行下列操作。

►:	开始播放。
■:	停止播放。
II:	暂停播放。要继续播放时，按 ► 键。
►►I:	跳跃到下一章节的开始处。
I◄◄:	返回到当前（或先前）章节的开始处。
▲/▼/►/◄:	在菜单屏幕上选择项目。
MENU:	显示录制在碟片上的菜单。
ENTER:	输入被选项目，频道号码，章节/标题号码或曲目号码（如有需要）。

仅用于 DVD 录像机操作：

CHANNEL +/–:	切换频道号码。
1 – 9, 0:	选择一个频道号码（在停止播放时）或一个章节/标题号码，曲目号码（在播放时）。按 ENTER 键输入号码。
REC PAUSE:	输入录制暂停。要继续录制时，按 ► 键。

仅用于 DVD 视盘机操作：

1 – 10, 0, +10:	选择一个章节/标题号码，曲目号码和菜单项目等。

如果这些按键不能正常操作，使用 DVD 录像机或 DVD 视盘机附带的遥控器。详情也请参阅随 DVD 录像机或 DVD 视盘机附带的使用手册。

中文

操作其他厂家的产品

中文

通过切换可传输性信号，您便可以使用本机附带的遥控器去操作其他厂家的产品。

- 另请参阅随其他产品附带的使用手册。
- 要使用本遥控器操作这些组件时，首先需要为电视机，录像机，CATV 转换器，DBS 调谐器和 DVD 视盘机设定各自的厂家代码。
- 在更换遥控器的电池之后，请重新设定厂家代码。
- 在某些设备中，并非所有的功能都可以通过按键操作。

❑ 切换可传输性信号以操作电视机

1 **按住 STANDBY/ON ⏻/I TV/DBS/CATV 键。**

2 **按 TV 键。**

3 **用数字键 1 – 9 和 0 输入厂家代码。**

参阅右栏的“电视机的厂家代码”。

4 **松开 STANDBY/ON ⏻/I TV/DBS/CATV 键。**

现在，您可以在电视机上进行以下操作。

TV VOLUME +/–:	调整电视机音量。
TV/VIDEO:	切换输入模式（电视机或视频）。

按 TV 键之后，您便可在电视机上进行如下操作。

STANDBY/ON ⏻/I TV/DBS/CATV:	打开或关闭电视机。
CHANNEL +/–:	切换频道号码。
1 – 9, 0, 100+ (+10):	选择频道号码。

详情请参阅电视机附带的使用手册。

5 **按 TV 键之后，尝试通过按 STANDBY/ON ⏻/I TV/DBS/CATV 键操作您的电视机。**

当电视机可以打开或关闭时，表示您已输入了正确的代码。

如果您所购买的厂家的电视机所附带的代码不只一个，请逐个尝试直到输入正确的代码为止。

电视机的厂家代码

厂家	代码
JVC	01
Hitachi	10
Magnavox	02
Mitsubishi	03
Panasonic	04,11
RCA	05
Samsung	12
Sanyo	13
Sharp	06
Sony	07
Toshiba	08
Zenith	09

初始设定: 01

厂家代码如果有变更恕不另行通知。代码改变后，本遥控器便不能操作该设备。

❑ 切换可传输性信号以操作录像机

1 按住 **STANDBY/ON ⏻/I VCR** 键。

2 按 **VCR** 键。

3 用数字键 **1 – 9** 和 **0** 输入厂家代码。

参阅右栏的“录像机的厂家代码”。

4 松开 **STANDBY/ON ⏻/I VCR** 键。

现在，您可以在录像机上进行以下操作。

STANDBY/ON ⏻/I VCR:	打开或关闭录像机。

按 VCR 键之后，您便可在录像机上进行如下操作。

CHANNEL +/–:	在录像机上切换频道号码。
►:	开始播放。
■:	停止播放。
II:	暂停播放。
FF:	快速进带。
REW:	快速倒带。
REC PAUSE:	输入暂停录音。想要开始录音，按此键然后按 ► 键。

详情参阅录像机附带的使用手册。

5 通过按 **STANDBY/ON ⏻/I VCR** 键，尝试操作您的录像机。

当录像机可以打开或关闭时，表示您已输入了正确的代码。

如果您所购买的厂家的录像机所附带的代码不只一个，请逐个尝试直到输入正确的代码为止。

录像机的厂家代码

厂家	代码
JVC	01, 02, 03
Emerson	10, 22
Gold Star	11
Hitachi	04
Mitsubishi	12
NEC	21
Panasonic	07, 13
Philips	09
RCA	05, 06
Samsung	20
Sanyo	17, 18, 19
Sony	14, 15, 16
Zenith	08

初始设定: 01

厂家代码如果有变更恕不另行通知。代码改变后，本遥控器便不能操作该设备。

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❑ 切换可传输性信号以操作 CATV 转换器或 DBS 调谐器

1 按住 **STANDBY/ON ⏻/I TV/DBS/CATV** 键。

2 按 **DBS** 键。

3 用数字键 **1 – 9** 和 **0** 输入厂家代码。

参阅下栏的“CATV 转换器/DBS 调谐器的厂家代码”。

4 松开 **STANDBY/ON ⏻/I TV/DBS/CATV** 键。

现在，您可以在 CATV 转换器或 DBS 调谐器上进行以下操作。

STANDBY/ON ⏻/I TV/DBS/CATV:	打开或关闭 CATV 转换器或 DBS 调谐器。
CHANNEL +/–:	切换 CATV 转换器或 DBS 调谐器上的频道号码。
1 – 10, 0, +10:	选择 CATV 转换器或 DBS 调谐器上的频道号码。

详情参阅 CATV 转换器或 DBS 调谐器附带的使用手册。

5 按 **DBS** 键之后，尝试通过按 **STANDBY/ON ⏻/I TV/DBS/CATV** 键操作您的 **CATV** 转换器或 **DBS** 调谐器。

当 CATV 转换器或 DBS 调谐器可以打开或关闭时，表示您已输入了正确的代码。

如果您所购买的厂家的 **CATV** 转换器或 **DBS** 调谐器所附带的代码不只一个，请逐个尝试直到输入正确的代码为止。

CATV 转换器或 DBS 调谐器的厂家代码

厂家	代码
Echostar (JVC)	01
G.I.	02, 03
Hamlin	10 – 13
Pioneer	08, 09
RCA	14
Scient	04, 05
Sony	15
Zenith	06, 07

初始设定: 01

❑ 切换可传输性信号以操作 DVD 视盘机

1 将模式选择器设定在 **“DVD”**。

2 按住 **STANDBY/ON ⏻/I DVR/DVD** 键。

3 按 **DVR/DVD** 键。

4 用数字键 **1 – 9** 和 **0** 输入厂家代码。

参阅下栏的“DVD 视盘机的厂家代码”。

5 松开 **STANDBY/ON ⏻/I DVR/DVD** 键。

现在，您可以在 DVD 视盘机上进行以下操作。

STANDBY/ON ⏻/I DVR/DVD:	打开或关闭 DVD 视盘机。
►:	开始播放。
I◄◄:	返回到当前章节的开始处（或在一些型号用于快进）。
►►I:	跳跃到下一章节的开始处（或在一些型号用于快倒）。
■:	停止播放。
II:	暂停播放。
MENU:	显示录制在 DVD VIDEO 光盘上的菜单。
▲/▼/►/◄:	在菜单屏幕上选择项目。
ENTER:	输入选择的项目。
1 – 10, 0, +10:	选择章节号码。

详情参阅 DVD 视盘机附带的使用手册。

6 通过按 **STANDBY/ON ⏻/I DVR/DVD** 键，尝试操作您的 **DVD** 视盘机。

当 DVD 视盘机可以打开或关闭时，表示您已输入了正确的代码。

DVD 视盘机的厂家代码

厂家	代码
JVC	01
Panasonic	02
Philips	04
Pioneer	03
Sony	05
Toshiba	06
Yamaha	07

初始设定: 01

注

您无法使用该遥控器操作其他厂家的 DVD 录像机。

厂家代码如果有变更恕不另行通知。代码改变后，本遥控器便不能操作该设备。

故障排除

使用下表可协助您解决日常操作时发生的问题。如有无法解决的问题，请洽询 JVC 维修中心。

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	问题	可能原因	解决方法
电源	电源不通。	没有接通电源线。	将电源线插入交流电插座。
	接收机关闭（进入待机模式）。	音量过高导致扬声器过载。	1. 停止播放信号源。 2. 重新启动本机，然后扭小音量。
		扬声器端子短路导致扬声器过载。	检查扬声器接线。如果扬声器导线不是短路，请洽询经销商。
		电压过高导致本机过载。	拔掉交流电源线后洽询经销商。
	“OVER HEAT”字样在显示屏上闪烁，接收机关闭。	高音量或长时间使用导致接收机过载。	降低音量或暂时关闭本机片刻，然后启动本机。如果接收机很快地关闭，拔掉交流电源线后洽询经销商。
声音	没有声音自扬声器发出。	没有连接扬声器信号电缆。	检查扬声器导线，必要时（参阅第 6 页）拔掉交流电源线后重新连接。
		连接不正确。	拔掉交流电源线后检查音频连接状况（参阅第 7 至 11 页）。
		选错了信号源。	选择正确的信号源。
		静音功能被启动。	按 MUTING 键取消静音功能（参阅第 14 页）。
		选错了输入模式（模拟或数码）。	选择正确的输入模式（模拟或数码）。
	声音仅从一台扬声器发出。	扬声器电缆连接不当。	检查扬声器导线，必要时（参阅第 6 页）拔掉交流电源线后重新连接。
	外界杂音如雷电导致声音间歇性失真。	当您使用数码同轴连接， 声音由于外界杂如雷电导致间歇性失真但声音会自动恢复。	这不是故障。
遥控器	遥控器不按指令进行操作。	遥控器尚未进入能按您指令进行操作的状态。	先正确设定模式选择器，然后在操作之前按相应的信号源选择键或 SOUND 键。
	遥控器失灵。	接收机上的遥感器前方有阻碍物。	移开障碍物。
		电池电力太弱。	更换电池。
		模式选择器设定在错误位置。	将模式选择器设定在适当的位置。
调谐器	FM 接收中出现持续的嘶嘶声或蜂鸣音。	传入的信号太弱。	连接室外 FM 天线或洽询经销商。
		电台距离过远。	选择其他电台。
		用错天线。	洽询经销商，确认您的天线是否正确。
		天线连接不正确。	检查连接状况。
	FM 接收中偶尔出现爆裂样噪音。	汽车发出引擎噪音。	将天线移离汽车往来处。

规格

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设计和规格如果有变更，恕不另行通知。

放大器

输出功率

立体声操作中：
- 前频道：每频道 100 W*，最小 RMS，在 1 kHz 时驱动为 6 Ω，总谐波失真不超过 0.8%。

环绕声操作中：
- 前频道：每频道 100 W*，最小 RMS，在 1 kHz 时驱动为 6 Ω，总谐波失真不超过 0.8%。
- 中央频道：100 W*，最小 RMS，在 1 kHz 时驱动为 6 Ω，总谐波失真不超过 0.8%。
- 环绕声频道：每频道 100 W*，最小 RMS，在 1 kHz 时驱动为 6 Ω，总谐波失真不超过 0.8%。
- 环绕声后频道：每频道 100 W*，最小 RMS，在 1 kHz 时驱动为 6 Ω，总谐波失真不超过 0.8%。

* 测量时的交流电压为 110 V，127 V，220 V 和 240 V。

音频

音频输入灵敏度/阻抗：
- DVR/DVD, VCR, DBS, TV：270 mV/47 kΩ

音频输入（DIGITAL IN）*：
- 同轴：DIGITAL IN 1（DVR/DVD）：0.5 V(p-p)/75 Ω
- 光学：DIGITAL IN 2（DBS）：–21 dBm 至 –15 dBm（660 nm ±30 nm）
- USB: USB DIGITAL

* 对应线性 PCM（脉码调制），Dolby Digital（杜比数码）和 DTS（抽样频率为 32 kHz, 44.1 kHz , 48 kHz）。

音频输出等级：
- DVR, VCR：270 mV

信噪比（'66 IHF/DIN）：80 dB/62 dB

频率响应（6 Ω）：20 Hz 至 20 kHz（±1 dB）

低音加强：在 100 Hz 时为 +4 dB ±1 dB

均衡（DSP 操作状态下）：
- 中央频率：63 Hz, 250 Hz, 1 kHz, 4 kHz, 16 kHz
- 控制范围：±8 dB

视频

视频输入灵敏度/阻抗:
- 复合视频：DVR/DVD, VCR, DBS：1 V(p-p)/75 Ω
- S-视频：DVR/DVD, VCR, DBS：
  - Y（亮度）：1 V(p-p)/75 Ω
  - C（色度，色同步）：0.3 V(p-p)/75 Ω
- 组件：DVR/DVD, VCR（DBS）：
  - Y（亮度）：1 V(p-p)/75 Ω
  - PB, PR：0.7 V(p-p)/75 Ω

视频输出等级/阻抗:
- 复合视频：DVR, VCR, MONITOR OUT：1 V(p-p)/75 Ω
- S-视频：DVR, VCR, MONITOR OUT：
  - Y（亮度）：1 V(p-p)/75 Ω
  - C（色度，色同步）：0.3 V(p-p)/75 Ω
- 组件：MONITOR OUT：
  - Y（亮度）：1 V(p-p)/75 Ω
  - PB, PR：0.7 V(p-p)/75 Ω

同步：负

FM 调谐器 (IHF)

调收范围：87.50 MHz 至 108.00 MHz

可用灵敏度：
- 单频道：12.8 dBf（1.2 μV/75 Ω）

50 dB 静音灵敏度：
- 单频道：16.0 dBf（1.7 μV/75 Ω）
- 立体声：37.5 dBf（20.5 μV/75 Ω）

OUT（REC）时的立体声分离度：在 1 kHz 时为 35 dB

AM 调谐器

调收范围：531 kHz 至 1 710 kHz（在 9 kHz 间隔）
530 kHz 至 1 710 kHz（在 10 kHz 间隔）

一般信息

电源要求：交流电 110 V/127 V/220 V/230 V – 240 V ～ , 可使用电压选择器调整，50 Hz/60 Hz

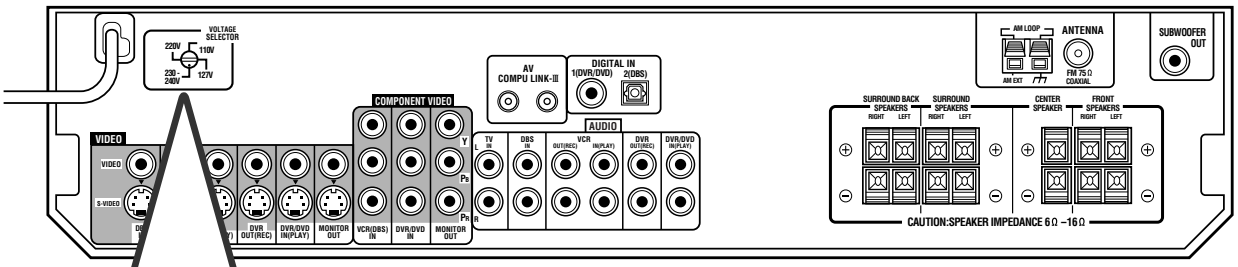
功耗：180 W（操作状态下）
0.9 W（待机状态下）

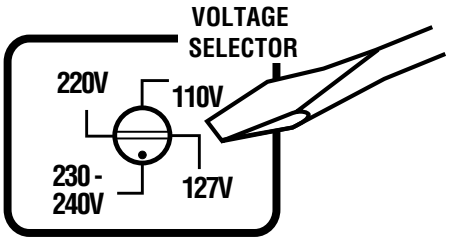
体积（宽/高/深）：435 mm x 91.5 mm x 360 mm

重量：6.7 kg

Mains (AC) Line Instruction (not applicable for Europe, U.S.A., Canada, Australia, and U.K.)

主（AC）电源线路说明（不适用于欧洲、美国、加拿大、澳洲及英国型号）





CAUTION for mains (AC) line

BEFORE PLUGGING IN, do check that your mains (AC) line voltage corresponds with the position of the voltage selector switch provided on the outside of this equipment and, if different, reset the voltage selector switch, to prevent from a damage or risk of fire/electric shock.

有关主(AC)电源线路的注意事项
接插电源以前，务请检查当地的主（AC）电源线路电压是否和位于本机外面的电压选择开关设定的位置一致 。如果不一致，即重新设定电压选择开关使符合当地电压，以免损坏机器或引起火灾／触电的危险 。

JVC

EN, CS

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