

# ***Home Theater System***

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Operating Instructions \_\_\_\_\_

**GB**

使用说明书 \_\_\_\_\_

**CS**

***HT-SL7A***

## WARNING

**To prevent fire or shock hazard, do not expose the unit to rain or moisture.**

To prevent fire, do not cover the ventilation of the apparatus with news papers, table-cloths, curtains, etc. And don't place lighted candles on the apparatus.

To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the apparatus.



This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.



Don't throw a battery, dispose it as the injurious wastes.

Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

This amplifier incorporates Dolby\* Digital and Pro Logic Surround and the DTS\*\* Digital Surround System.

\* Manufactured under license from Dolby Laboratories.

“Dolby”, “Pro Logic” and the double-D symbol are trademarks of Dolby Laboratories.

\*\* “DTS” and “DTS Digital Surround” are registered trademarks of Digital Theater Systems, Inc.

## Tip

The instructions in this manual describe the controls on the amplifier. You can also use the controls on the supplied remote if they have the same or similar names as those on the amplifier. For details on the use of your remote, see pages 31–34.

### Demonstration Mode

The demonstration will activate the first time you turn on the power. When the demonstration starts, the following message appears in the display twice:

“NOW DEMONSTRATION MODE IF YOU FINISH DEMONSTRATION PLEASE PRESS POWER KEY WHILE THIS MESSAGE APPEARS IN THE DISPLAY THANK YOU”

To cancel the demonstration

Press I/⏻ to turn the amplifier off during the previous message. The next time you turn the amplifier on, the demonstration will not appear.

To view the demonstration

Hold down SET UP and press I/⏻ to turn on the power.

### Notes

- Running the demonstration will clear the amplifier's memory. For details on what will be cleared, see “Clearing the amplifier's memory” on page 13.
- There will be no sound when the demonstration mode is activated.
- You cannot cancel demonstration if you did not press I/⏻ while the above message is being displayed. To cancel demonstration after the above message appears, press I/⏻ twice to activate the demonstration again. Then, press I/⏻ while the above message is being displayed.

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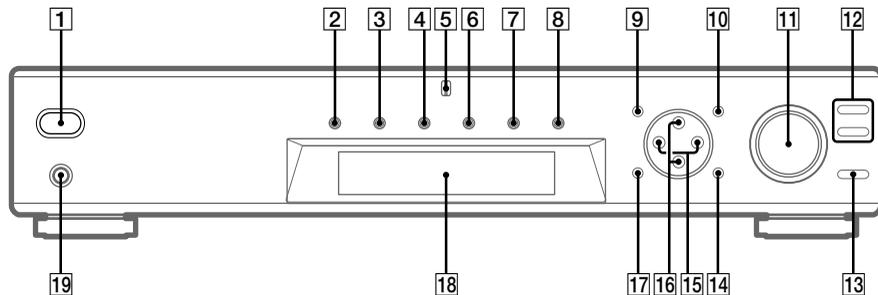
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The items are arranged in alphabetical order.

Refer to the pages indicated in parentheses ( ) for details.

### Main unit



AUX **6** (18)

Cursor buttons ( $\wedge/\vee$ ) **16** (14, 22–24)

Display **18** (21)

DVD **3** (18)

LEVEL **17** (22)

MASTER VOLUME **11** (17, 18)

MULTI CH IN **8** (18)

MULTI CHANNEL DECODING  
indicator **5**

MUTING **13** (18)

PHONES jack **19** (18)

SET UP **10** (14, 24)

SOUND FIELD +/- **12** (19, 23)

SURREAL **9** (23)

TEST TONE **14** (17)

TUNER **7** (18)

TV **4** (18)

VIDEO **2** (18)

I/O (power) **1** (13, 17, 18, 23)

+/- **15** (14, 22–24)

## Required cords

### Before you get started

- Turn off the power to all components before making any connections.
- Do not connect the AC power cord until all of the connections are completed.
- Be sure to make connections firmly to avoid hum and noise.
- When connecting optical digital cords, take the caps off the connectors and insert the cord plugs straight in until they click into place.
- Do not bend or tie the optical digital cord.

#### **A** Audio cord (not supplied)



#### **B** S-video cord (not supplied)



#### **C** Optical digital cord (not supplied)



#### **D** Coaxial digital cord (supplied)

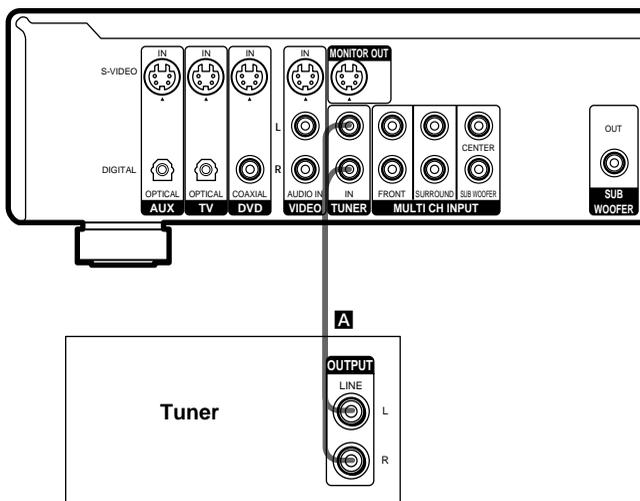


#### **E** Monaural audio cord (not supplied)



## Audio component hookups

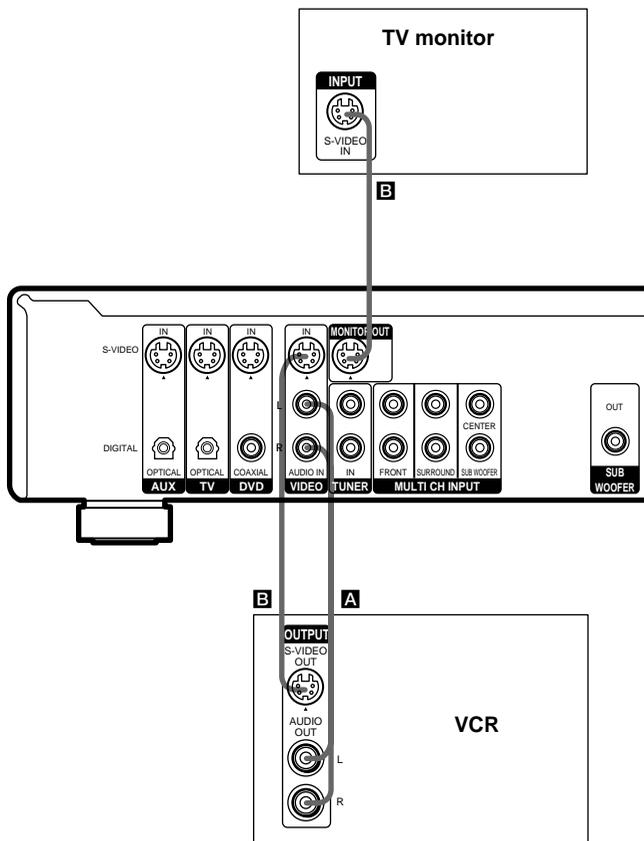
For details on the required cords (**A** – **E**), see page 5.



### Tip

To specify the video input to be used with the audio signals from the TUNER jacks, set the TUNER visual input in the SET UP menu (page 24).

# Video component hookups



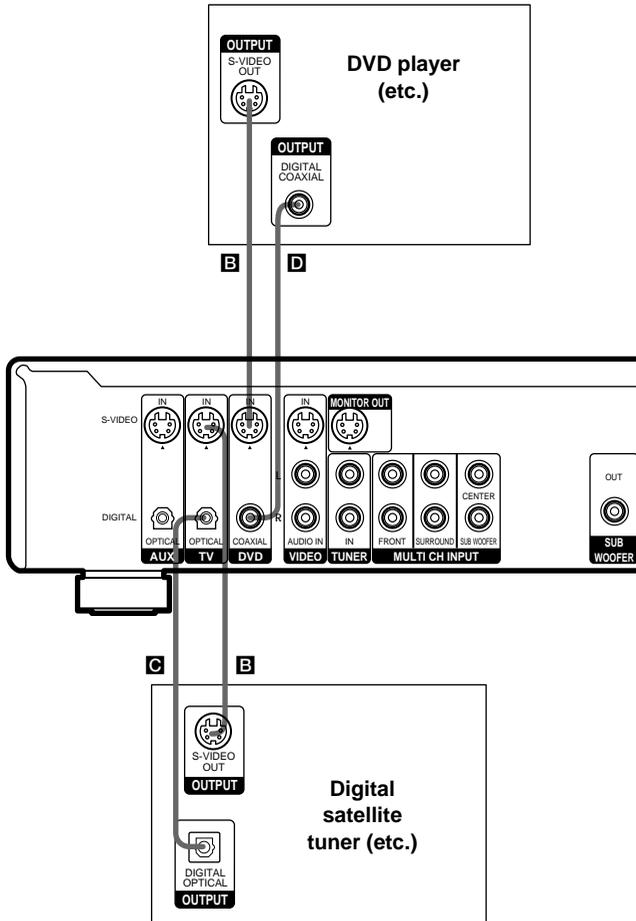
## To apply sound effects to the audio from the TV

You can connect your TV's audio output jacks to the VIDEO AUDIO IN jacks on the amplifier and apply sound effects to the audio from the TV. In this case, do not connect the TV's video output jack to the VIDEO IN jack on the amplifier.

To switch the TV channels using the remote, assign the VIDEO button to TV (page 34).

## Digital component hookups

Connect the digital output jacks of your DVD player (etc.) to the amplifier's digital input jacks to bring the multi channel surround sound of a movie theater into your home. To fully enjoy multi channel surround sound, five speakers (two front speakers, two surround speakers, and a center speaker) and a sub woofer are required.



### Notes

- The OPTICAL input jacks are compatible with 48 kHz, 44.1 kHz and 32 kHz sampling frequencies.
- The COAXIAL input jack is compatible with 96 kHz, 48 kHz, 44.1 kHz and 32 kHz sampling frequencies.

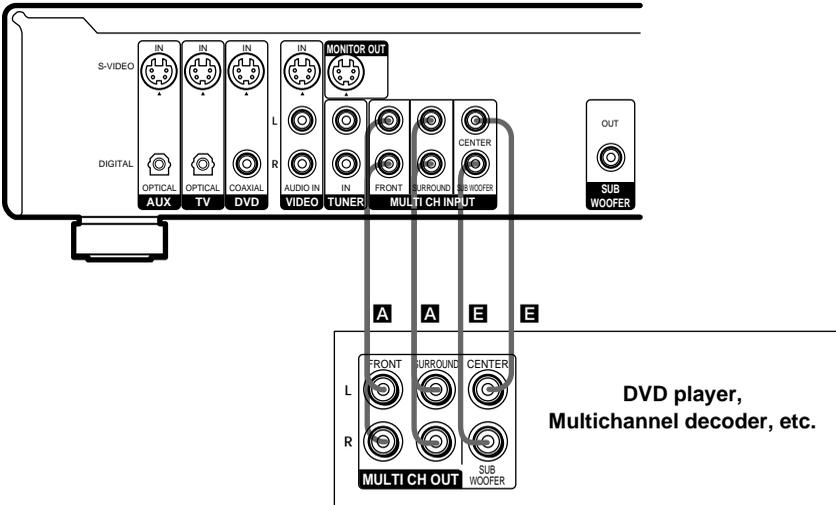
# Multi channel input hookups

Although this amplifier incorporates a multi channel decoder, it is also equipped with multi channel input jacks. These connections allow you to enjoy multi channel software encoded in formats other than Dolby Digital and DTS. If your DVD player is equipped with multi channel output jacks, you can connect them directly to the amplifier to enjoy the sound of the DVD player's multi channel decoder. Alternatively, the multi channel input jacks can be used to connect an external multi channel decoder.

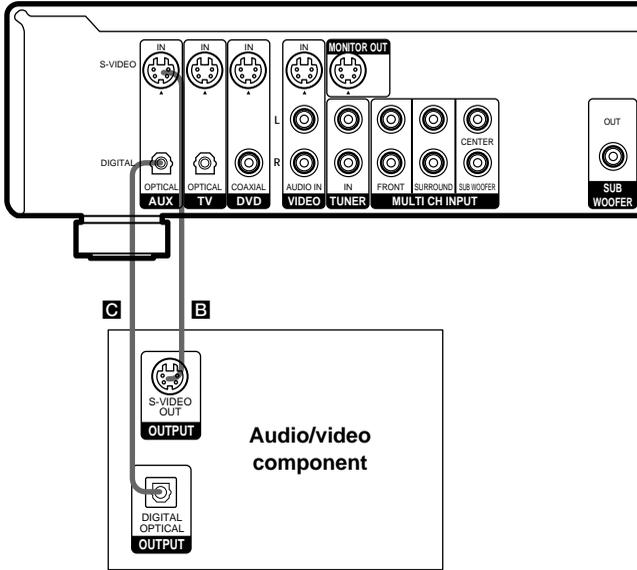
To fully enjoy multi channel surround sound, five speakers (two front speakers, two surround speakers, and a center speaker) and a sub woofer are required. Refer to the operating instructions supplied with your DVD player, multi channel decoder, etc., for details on the multi channel hookups.

- Tips**
- To specify the video input to be used with the audio signals from the MULTI CH INPUT jacks, set the MULTI CH IN visual input in the SET UP menu (page 24).
  - You can use cord **A** instead of 2 cords **E**.

- Notes**
- When using the connections described below, adjust the level of the surround speakers and sub woofer from the DVD player or multi channel decoder.
  - See page 11 for details on speaker system hookup.



## Other hookups



### AUX hookups

If you have an individual audio/video component

Use an optical digital cord (not supplied) to connect the optical output jack on the CD player, MD deck, or video game player to the AUX OPTICAL jack on the amplifier so that you can listen to stereo sources in surround sound.

Use the S-video cable (not supplied) to connect the S-video output jack on your video component to the AUX S-VIDEO IN jack on the amplifier.

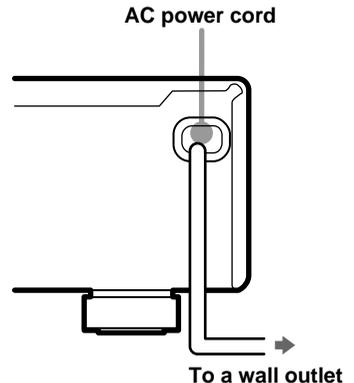
### Connecting the AC power cord

Before connecting the AC power cord of this amplifier to a wall outlet, connect the speaker system to the amplifier (see page 11).

Connect the AC power cord(s) of your audio/video components to a wall outlet.

#### Note

If the AC power cord is disconnected for about two weeks, the amplifier's entire memory will be cleared and the demonstration will start.



## Speaker system hookups

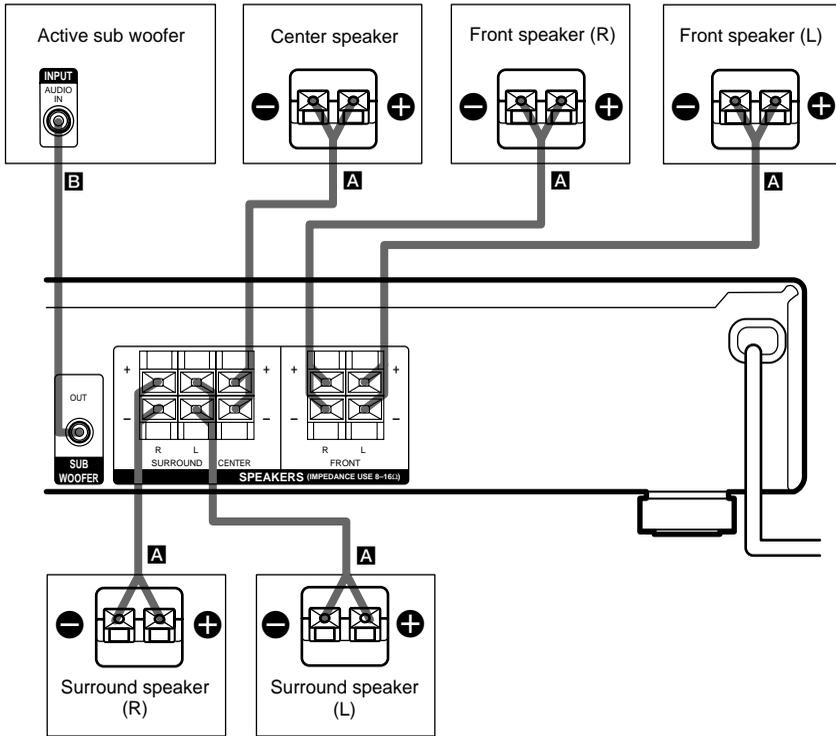
Before connecting speakers, be sure to turn off this unit.

Required cords

### A Speaker cords (supplied)

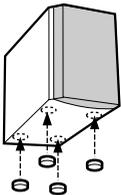


### B Monaural audio cord (supplied)



### Tip

To prevent speaker vibration or movement while listening, attach the supplied foot pads at the bottom of the speakers.



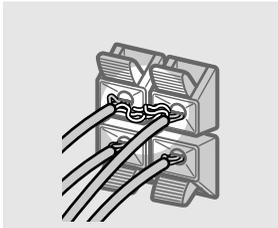
## **Speaker system hookups (continued)**

To avoid short-circuiting the speakers

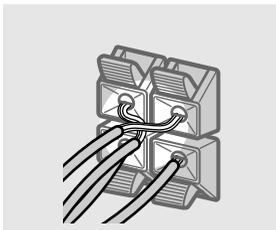
Short-circuiting of the speakers may damage the amplifier. To prevent this, make sure to take the following precautions when connecting the speakers.

**Make sure the stripped ends of each speaker cord does not touch another speaker terminal, the stripped end of another speaker cord, or the metal parts of the amplifier.**

Examples of poor conditions of the speaker cord



**Stripped speaker cord is touching another speaker terminal.**



**Stripped cords are touching each other due to excessive removal of insulation.**

After connecting all the components, speakers, and AC power cord, output a test tone to check that all the speakers are connected correctly. For details on outputting a test tone, see page 17.

If no sound is heard from a speaker while outputting a test tone or a test tone is output from a speaker other than the one whose name is currently displayed on the amplifier, the speaker may be short-circuited. If this happens, check the speaker connection again.

To avoid damaging your speakers

Make sure that you turn down the volume before you turn off the amplifier. When you turn on the amplifier, the volume remains at the level you turn off the amplifier.

## Performing initial setup operations

Once you have hooked up the speakers and turned on the power, clear the amplifier's memory. Then specify the speaker parameters (size, position, etc.) and perform any other initial setup operations necessary for your system.

### Tip

To check the audio output during settings (to set up while outputting the sound), check the connection (see page 18).

## Clearing the amplifier's memory

Before using your amplifier for the first time, or when you want to clear the amplifier's memory, do the following.

This procedure is not necessary if the demonstration activates when you turn on the power.

### 1 Turn off the amplifier.

### 2 Hold down I/⏻ for 5 seconds.

The demonstration starts (see page 2) and all of the following items are reset or cleared:

- All sound field parameters are reset to their factory settings.
- All SET UP parameters are reset to their factory settings.
- The sound fields memorized for each program source are cleared.
- The master volume is set to "MIN".

## Performing initial setup operations

Before using your amplifier for the first time, adjust SET UP parameters so that the amplifier correspond to your system. For the adjustable parameters, see the table on page 29. See pages 13–17 for speaker settings and page 24 for other settings.

## Multi channel surround setup

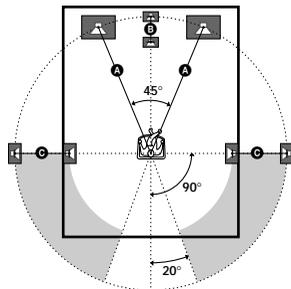
For the best possible surround sound, all speakers should be the same distance from the listening position (A).

However, the amplifier lets you to place the center speaker up to 1.5 meters closer (B) and the surround speakers up to 4.5 meters closer (C) to the listening position.

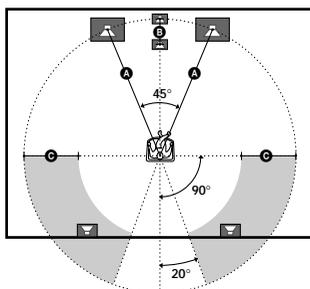
The front speakers can be placed from 1.0 to 12.0 meters from the listening position (A).

You can place the surround speakers either behind you or to the side, depending on the shape of your room (etc.).

When placing surround speakers to your side



When placing surround speakers behind you



### Note

Do not place the center speaker farther away from the listening position than the front speakers.

continued

## Multi channel surround setup (continued)

### Specifying the speaker parameters

- 1 Press **SET UP**.
- 2 Press the cursor buttons ( $\wedge$  or  $\vee$ ) to select the parameter you want to adjust.
- 3 Press **+** or **-** to select the setting you want.  
The setting is stored automatically.
- 4 Repeat steps 2 to 3 until you have set all of the parameters that follow.

#### Initial settings

Parameter	Initial setting
  (FRONT) XX.X m	DIST. 5.0 m
 (CENTER) XX.X m	DIST. 5.0 m
  (SURR) XX.X m	DIST. 3.5 m
  (SURR) PL. XXX	PL. BEHD.
  (SURR) HGT. XXX	HGT. LOW

#### ■ Front speaker distance ( )

Set the distance from your listening position to the front speakers (**A** on page 13).

#### ■ Center speaker distance ()

Set the distance from your listening position to the center speaker. Center speaker distance should be set from a distance equal to the front speaker distance (**A** on page 13) to a distance 1.5 meters closer to your listening position (**B** on page 13).

#### ■ Surround speaker distance ( )

Set the distance from your listening position to the surround speakers. Surround speaker distance should be set from a distance equal to the front speaker distance (**A** on page 13) to a distance 4.5 meters closer to your listening position (**C** on page 13).

#### Tip

The amplifier allows you to input the speaker position in terms of distance. However, it is not possible to set the center speaker further than the front speakers.

Also, the center speaker cannot be set more than 1.5 meters closer than the front speakers.

Likewise, the surround speakers can not be set farther away from the listening position than the front speakers. And they can be no more than 4.5 meters closer.

This is because incorrect speaker placement is not conducive to the enjoyment of surround sound.

Please note that, setting the speaker distance closer than the actual location of the speakers will cause a delay in the output of the sound from that speaker. In other words, the speaker will sound like it is farther away.

For example, setting the center speaker distance 1~2 m closer than the actual speaker position will create a fairly realistic sensation of being “inside” the screen. If you cannot obtain a satisfactory surround effect because the surround speakers are too close, setting the surround speaker distance closer (shorter) than the actual distance will create a larger sound stage.

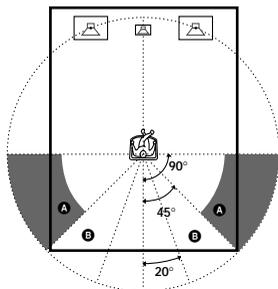
Adjusting these parameter while listening to the sound often results in much better surround sound. Give it a try!

■ **Surround speaker position** (   )\*

This parameter lets you specify the location of your surround speakers for proper implementation of the Digital Cinema Sound surround modes in the “VIRTUAL” sound fields. Refer to the illustration below.

- Select “PL. SIDE” if the location of your surround speakers corresponds to section **A**.
- Select “PL. BEHD.” if the location of your surround speakers corresponds to section **B**.

This setting only effects the surround modes in the “VIRTUAL” sound fields.

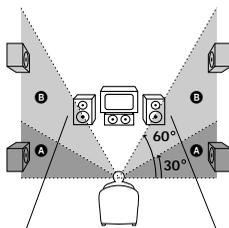


■ **Surround speaker height** (   )\*

This parameter lets you specify the height of your surround speakers for proper implementation of the Digital Cinema Sound surround modes in the “VIRTUAL” sound fields. Refer to the illustration below.

- Select “HGT. LOW” if the location of your surround speakers corresponds to section **A**.
- Select “HGT. HIGH” if the location of your surround speakers corresponds to section **B**.

This setting only effects the surround modes in the “VIRTUAL” sound fields.



\* These parameters are not available when “Surround speaker size” is set to “NO”.

Tip

The surround speaker position parameter is designed specifically for implementation of the Digital Cinema Sound modes in the “VIRTUAL” sound fields.

With the Digital Cinema Sound modes, speaker position is not as critical as other modes. All of the modes in the “VIRTUAL” sound fields were designed under the premise that the surround speaker would be located behind the listening position, but presentation remains fairly consistent even with the surround speakers positioned at a rather wide angle. However, if the speakers are pointing toward the listener from the immediate left and right of the listening position, the “VIRTUAL” sound fields will not be effective unless the surround speaker position parameter is set to “PL. SIDE”.

Nevertheless, each listening environment has many variables, like wall reflections, and you may obtain better results using “PL. BEHD.” if your speakers are located high above the listening position, even if they are to the immediate left and right.

Therefore, although it may result in a setting contrary to the “Surround speaker position” explanation, we recommend that you playback multi channel surround encoded software and listen to the effect each setting has on your listening environment. Choose the setting that provides a good sense of spaciousness and that best succeeds in forming a cohesive space between the surround sound from the surround speakers and the sound of the front speakers. If you are not sure which sounds best, select “PL. BEHD.” and then use the speaker distance parameter and speaker level adjustments to obtain proper balance.

continued

## Multi channel surround setup (continued)

**Only when you use the speaker system other than the supplied one, be sure to set the following parameters.**

The speaker size and sub woofer selection has been preset to MICRO SP. (Micro Satellite Speaker) according to the supplied speaker system. If you change the speaker system, choose NORM. SP. (Normal Speaker) to adjust the speaker size and sub woofer selection. To select NORM. SP., turn off the power, then turn on again while pressing the cursor button  $\Delta$ . (To reset to MICRO SP., do the same procedure.)

Parameter	Initial setting
  (FRONT)	LARGE
 (CENTER)	LARGE
  (SURR)	LARGE
 (SUB WOOFER)	S.W. YES

You cannot change the configuration if you choose MICRO SP.

### ■ Front speaker size ( )

- If you connect large speakers that will effectively reproduce bass frequencies, select “LARGE”.
- If the sound is distorted, or you feel a lack of surround effects when using multi channel surround sound, select “SMALL” to activate the bass redirection circuitry and output the front channel bass frequencies from the sub woofer.
- When the front speakers are set to “SMALL”, the center and surround speakers are also automatically set to “SMALL” (unless previously set to “NO”).

### ■ Center speaker size ()

- If you connect a large speaker that will effectively reproduce bass frequencies, select “LARGE”. However, if the front speakers are set to “SMALL”, you cannot set the center speaker to “LARGE”.
- If the sound is distorted, or you feel a lack of surround effects when using multi channel surround sound, select “SMALL” to activate the bass redirection circuitry and output the center channel bass frequencies from the front speakers (if set to “LARGE”) or sub woofer.\*<sup>1</sup>
- If you do not connect a center speaker, select “NO”. The sound of the center channel will be output from the front speakers.\*<sup>2</sup>

### ■ Surround speaker size ( )

- If you connect large speakers that will effectively reproduce bass frequencies, select “LARGE”. However, if the front speakers are set to “SMALL”, you cannot set the surround speakers to “LARGE”.
- If the sound is distorted, or you feel a lack of surround effects when using multi channel surround sound, select “SMALL” to activate the bass redirection circuitry and output the surround channel bass frequencies from the sub woofer or other “LARGE” speakers.
- If you do not connect surround speakers, select “NO”.\*<sup>3</sup>

Tip

\*1-\*3 correspond to the following Dolby Pro Logic modes

\*1 NORMAL

\*2 PHANTOM

\*3 3 STEREO

**Tip**

Internally, the LARGE and SMALL settings for each speaker determine whether or not the internal sound processor will cut the bass signal from that channel. When the bass is cut from a channel, the bass redirection circuitry sends the corresponding bass frequencies to the sub woofer or other “LARGE” speakers.

However, since bass sounds have a certain amount of directionality, it best not to cut them, if possible.

Therefore, even when using small speakers, you can set them to “LARGE” if you want to output the bass frequencies from that speaker. On the other hand, if you are using a large speaker, but prefer not to have bass frequencies output from that speaker, set it to “SMALL”.

If the overall sound level is lower than you prefer, set all speakers to “LARGE”.

### ■ Sub woofer selection ( )

- If you connect a sub woofer, select “S.W. YES”.
- If you do not connect a sub woofer, select “S.W. NO”. This activates the bass redirection circuitry and outputs the LFE signals from other speakers.
- In order to take full advantage of the Dolby Digital bass redirection circuitry, we recommend setting the sub woofer’s cut off frequency as high as possible.

## Adjusting the speaker level

Use the remote while seated in your listening position to adjust the level of each speaker.

**Note**

The amplifier incorporates a new test tone with a frequency centered at 800 Hz for easier speaker level adjustment.

**1 Press I/⏻ to turn on the amplifier.**

**2 Press TEST TONE.**

You will hear the test tone from each speaker in sequence.

**3 Adjust the level parameters so that the level of the test tone from each speaker sounds the same when you are in your main listening position.**

To adjust the balance and level of speakers, press MENU </> on the remote to select the level parameter you want to adjust (page 22). Then press MENU +/- to select the setting.

**4 Press TEST TONE again to turn off the test tone.**

**Tip**

You can adjust the level of all speakers at the same time. Turn MASTER VOLUME on the main unit or press MASTER VOL +/- on the remote.

**Notes**

- The adjusted value are shown in the display during adjustment.
- Although these adjustments can also be made via the front panel using the LEVEL menu (when the test tone is output, the amplifier switches to the LEVEL menu automatically), we recommend you follow the procedure described above and adjust the speaker levels from your listening position using the remote.

## Listening to the subwoofer



First, turn down the volume on the amplifier. The volume should be set to minimum before you begin playing the program source.

**1 Turn on the amplifier and select the program source.**

**2 Press POWER on the subwoofer.**

The POWER indicator on the subwoofer lights up in green.

**3 Play the program source.**

## Adjusting the sound

Slight adjustments to the system can enhance your sound enjoyment.

**1 Rotate LEVEL to adjust the volume.**

Set the volume level to best suit your preference according to the program source.

## Note

Do not turn the volume of the subwoofer to maximum. Doing so may weaken the bass sound. Moreover, extraneous noise may be heard.

## Checking the connections

After connecting all of your components to the amplifier, do the following to verify that the connections were made correctly.

**1 Press I/⏻ to turn on the amplifier.**

**2 Press a function button to select a component (program source) that you connected (e.g., DVD player).**

**3 Turn on the component and start playing it.**

**4 Rotate MASTER VOLUME to turn up the volume.**

If you do not obtain normal sound output after performing this procedure, see “Troubleshooting” on page 25 and take the appropriate measures to correct the problem.

## Selecting the component

### Function buttons

Press a function button to select the component you want to use.

To select	Press
VCR	VIDEO
DVD player	DVD
Digital satellite tuner (etc.)	TV
Tuner	TUNER
An audio/video component	AUX

After turning on the component you selected, select the component and play the program source.

### MULTI CH IN

Press MULTI CH IN to enjoy the audio source connected to the MULTI CH INPUT jacks with the video from the selected component.

- When the MULTI CH IN is selected, the sound field and surround parameters do not function.

### MUTING

Press MUTING to mute the sound. MUTING appears on the display when the sound is muted. The muting function is canceled when turning the power off, or disconnecting the power cord.

### PHONES

Use the PHONES jack to connect headphones.

- When the headphones are connected, speaker output is automatically cancelled.

You can take advantage of surround sound simply by selecting one of the amplifier's pre-programmed sound fields. They bring the exciting and powerful sound of movie theaters and concert halls into your home. You can also customize the sound fields to obtain the sound you want by changing the various surround parameters.

To fully enjoy surround sound, you must register the number and location of your speakers. See "Multi channel surround setup" starting from page 13 to set the speaker parameters before enjoying surround sound.

## Selecting a sound field

You can enjoy surround sound simply by selecting one of the pre-programmed sound fields according to the program you want to listen to.

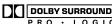
**Press SOUND FIELD +/- repeatedly to select the sound field you want.**

The current sound field is indicated in the display. See pages 19–20 for information on each sound field.

To turn the surround effect off  
Select A.F.D. or 2CH ST. (page 20).

### Tips

- The amplifier memorizes the last sound field selected for each program source (Sound Field Link). Whenever you select a program source, the sound field that was last applied is automatically applied again. For example, if you listen to DVD with HALL as the sound field, change to a different program source, then return to DVD, HALL will be applied again.
- You can identify the encoding format of program software by looking at its packaging.

Dolby Digital discs are labeled with the  logo, and Dolby Surround encoded programs are labeled with the  logo.

### About DCS (Digital Cinema Sound)

DCS is the concept name of the surround technology for home theater developed by Sony. DCS uses the DSP (Digital Signal Processor) technology to reproduce the sound characteristics of an actual cinema cutting studio in Hollywood.

When played at home, DCS will create a powerful theater effect that mimics the artistic combination of sound and action as envisioned by the movie director.

#### ■ NORM.SURR. (Normal Surround)

Software with multi channel surround audio signals is played back according to the way it was recorded. Software with 2 channel audio signals is decoded with Dolby Pro Logic to create surround effects.

#### ■ STUDIO A–C (Cinema Studio A–C) DCS

- CINEMA STUDIO A reproduces the sound characteristics of Sony Pictures Entertainment's classic editing studio.
- CINEMA STUDIO B reproduces the sound characteristics of Sony Pictures Entertainment's mixing studio which is one of the most up-to-date facilities in Hollywood.
- CINEMA STUDIO C reproduces the sound characteristics of Sony Pictures Entertainment's BGM recording studio.

**continued**

## **Selecting a sound field (continued)**

### ■ **V.M.DIMENS.\* (Virtual Multi Dimension)** **DCS**

Uses 3D sound imaging to create an array of virtual surround speakers positioned higher than the listener from a single pair of actual surround speakers. This mode creates 4 sets of virtual speakers surrounding the listener at approximately a 30° angle of elevation.

### ■ **V.SEMI M.D.\* (Virtual Semi Multi Dimension)** **DCS**

Uses 3D sound imaging to create virtual surround speakers from the sound of the front speakers without using actual surround speakers. This mode creates 5 sets of virtual speakers surrounding the listener at a 30° angle of elevation.

### ■ **HALL**

Reproduces the acoustics of a rectangular concert hall.

### ■ **JAZZ (Jazz Club)**

Reproduces the acoustics of a jazz club.

### ■ **L.HOUSE (Live House)**

Reproduces the acoustics of a 300-seat live house.

### ■ **GAME**

Obtains maximum audio impact from video game software.

\* “VIRTUAL” sound field: Sound field with virtual speakers.

#### Notes

- The effects provided by the virtual speakers may cause increased noise in the playback signal.
- When listening with sound fields that employ the virtual speakers, you will not be able to hear any sound coming directly from the surround speakers.

Use the buttons on the remote to operate the following modes.

### **A.F.D. (AUTO FORMAT DECODING)**

Automatically detects the type of audio signal being input (Dolby Digital, DTS, or standard 2 channel stereo) and performs the proper decoding if necessary. This mode presents the sound as it was recorded/encoded, without adding any effects (ex. reverberation).

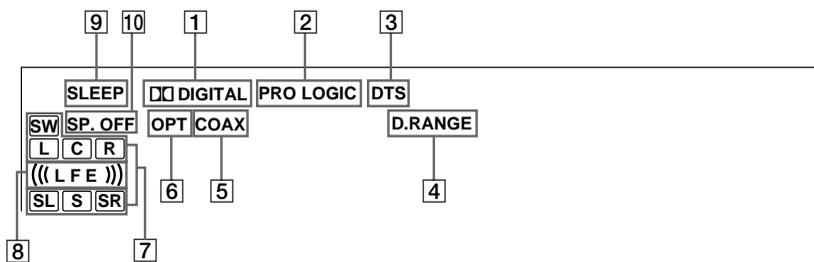
### **2CH ST. (2 CHANNEL)**

Outputs the sound from the front left and right speakers only. Standard 2 channel (stereo) sources completely bypass the sound field processing. Multi channel surround formats are downmixed to 2 channel.

#### Notes

- No sound is output from the sub woofer when you select NORM. SP. (page 16) and “2CH ST.” is selected. To listen to 2 channel (stereo) sources using the front left and right speakers and a sub woofer, select “A.F.D.”.
- When you select MICRO SP., internal sound processor will automatically redirect bass sound to subwoofer.

# Understanding the multi channel surround displays



- 1 DIGITAL:** Lights up when the amplifier is decoding signals recorded in the Dolby Digital format.
- 2 PRO LOGIC:** Lights up when the amplifier applies Pro Logic processing to 2 channel signals in order to output the center and surround channel signals. However, this indicator does not light if the center and surround speakers are set to “NO”, and “A.F.D.” or “NORMAL SURROUND” is selected.
- 3 DTS:** Lights up when DTS signals are input.
- 4 D.RANGE:** Lights up when dynamic range compression is activated. See page 23 to adjust the dynamic range compression.
- 5 COAX:** Lights up when the source signal is a digital signal being input through the COAXIAL terminal.
- 6 OPT:** Lights up when the source signal is a digital signal being input through the OPTICAL terminal.
- 7 Playback channel indicators:** The letters light up to indicate the channels being played back.  
L (Front Left), R (Front Right), C (Center (monaural)), SL (Surround Left), SR (Surround Right), S (Surround (monaural or the surround components obtained by Pro Logic processing)), SW (Sub woofer)  
The boxes around the letters light up to indicate the speakers used to playback the channels.
- 8 ((LFE )):** Lights up when the disc being played back contains the LFE (Low Frequency Effect) channel and when the sound of the LFE channel signal is actually being reproduced.
- 9 SLEEP:** Lights up when sleep timer is activated.
- 10 SP.OFF:** Lights up when headphones are inserted.

## Customizing sound fields

By adjusting the surround and level parameters of the front, center, and surround speakers, you can customize the sound fields to suit your particular listening situation.

Once you customize a sound field, the changes are stored in the memory indefinitely (unless the amplifier is unplugged for about two weeks). You can change a customized sound field any time by making new adjustments to the parameters.

See the tables on page 30 for the parameters available in each sound field.

### To get the most from multi channel surround sound

Position your speakers and do the procedures described in “Multi channel surround setup” starting from page 13 before you customize a sound field.

### Adjusting the level parameters

The LEVEL menu contains parameters that let you adjust the balance and volumes of each speaker. The settings are applied to all sound fields.

- 1 Start playing a program source encoded with multi channel surround sound.**
- 2 Press LEVEL.**  
The button lights up and the first parameter is displayed.
- 3 Press the cursor buttons (▲ or ▼) to select the parameter you want to adjust.**
- 4 Press + or – to select the setting you want.**  
The setting is stored automatically.

### Initial settings

Parameter	Initial setting
FRONT BALANCE*	BALANCE
SURR BALANCE*	BALANCE
CENTER LEVEL*	CTR 0 dB
SURR LEVEL*	SURR 0 dB
SUB WOOFER LEVEL*	S.W. 0 dB
LFE MIX LEVEL	L.F.E. 0 dB
DYNAMIC RANGE COMP	COMP. OFF

\* These parameters can be adjusted separately for MULTI CH IN.

#### Front balance (FRONT BALANCE)

Lets you adjust the balance between front left and right speakers.

#### Surround balance (SURR BALANCE)

Lets you adjust the balance between surround left and right speakers.

#### Center level (CTR LEVEL)

Lets you adjust the level of the center speaker.

#### Surround level (SURR LEVEL)

Lets you adjust the level of the surround left and right speakers.

#### Sub woofer level (S.W. LEVEL)

Lets you adjust the level of the sub woofer.

#### Low Frequency Effect (LFE)

Lets you attenuate the level of the LFE (Low Frequency Effect) channel output from the sub woofer without effecting the level of the bass frequencies sent to the sub woofer from the front, center or surround channels via the Dolby Digital or DTS bass redirection circuitry.

- “0 dB” outputs the full LFE signal at the mix level determined by the recording engineer.
- To mute the sound of the LFE channel from the sub woofer, select “OFF”. However, the low frequency sounds of the front, center, or surround speakers are output from the sub woofer according to the settings made for each speaker in the speaker setup (pages 16–17).

## Dynamic range compressor (D. RANGE)

Lets you compress the dynamic range of the sound track. This may be useful when you want to watch movies at low volumes late at night. We recommend using the “MAX” setting.

- To reproduce the sound track with no compression, select “COMP. OFF”.
- To reproduce the sound track with the dynamic range intended by the recording engineer, select “COMP. STD”.
- To compress the dynamic range in small steps to achieve the sound you desire, select “COMP. 0.1”–“COMP. 0.9”.
- To reproduce a dramatic compression of the dynamic range, select “COMP. MAX”.

### Note

Dynamic range compression is possible with Dolby Digital sources only.

## Adjusting the surround parameters

The SURR menu contains parameters that let you customize various aspects of the current sound field. The settings are stored individually for each sound field.

- 1 Start playing a program source encoded with multi channel surround sound.**
- 2 Press SURR.**  
The button lights up and the first parameter is displayed.
- 3 Press the cursor buttons (▲ or ▼) to select the parameter you want to adjust.**
- 4 Press + or – to select the setting you want.**  
The setting is stored automatically.

## Initial settings

Parameter	Initial setting
EFFECT LEVEL	(depends on the sound field)
WALL TYPE	WALL MID
REVERBERATION TIME	REVB. MID

### Effect level (EFFECT)

Lets you adjust the “presence” of the current surround effect.

### Wall type (WALL)

Lets you control the level of the high frequencies to alter the sonic character of your listening environment by simulating a softer (S) or harder (H) wall. The midpoint designates a neutral wall (made of wood).

### Reverberation (REVERB)

Lets you control the spacing of the early reflections to simulate a sonically longer (L) or shorter (S) room. The midpoint designates a standard room with no adjustment.

## Resetting customized sound fields to the factory settings

- 1 If the power is on, press I/⏻ to turn off the power.**
- 2 Hold down SOUND FIELD + and press I/⏻.**  
“S.F. CLR.” appears in the display and all sound fields are reset at once.

## Using the Sleep Timer

You can set the amplifier to turn off automatically at a specified time.

**Press SLEEP on the remote while the power is on.**

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

2-00-00 → 1-30-00 → 1-00-00 → 0-30-00  
→ OFF

The display dims after you have specified the time.

Tips

- You can freely specify the time. After pressing SLEEP, specify the time you want using the cursor buttons (Λ or V) on the amplifier. The sleep timer can be set with an interval of 1 minute between 1 minute and 5 hours, and with an interval of 1 second for less than 1 minute.
- To check the remaining time before the amplifier turns off, press SLEEP. The remaining time appears in the display.

## Adjustments using the SET UP button

The SET UP button allows you to make the following adjustments.

- 1 Press SET UP.**
- 2 Press the cursor buttons (Λ or V) to select the parameter you want to adjust.**  
When you select MULTI VI. or TUNER VI., M[XXX] or T[XXX] appears in the display after about 2 seconds.
- 3 Press + or – to select the setting you want.**  
The setting is stored automatically.
- 4 Repeat steps 2 to 3 until you have set all of the parameters that follow.**

Initial settings

Parameter	Initial setting
MULTI VI.	DVD
TUNER VI.	OFF

### ■ MULTI CH IN visual select

Lets you specify the video input to be used with the audio signals from the MULTI CH INPUT jacks.

### ■ TUNER visual select

Lets you specify the video input to be used with the audio signals from the TUNER jacks.

## Precautions

### On safety

Should any solid object or liquid fall into the cabinet, unplug the amplifier and have it checked by qualified personnel before operating it any further.

### On power sources

- Before operating the unit, check that the operating voltage is identical with your local power supply. The operating voltage is indicated on the nameplate at the rear of the amplifier.
- The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the amplifier itself has been turned off.
- If you are not going to use the amplifier for a long time, be sure to disconnect the amplifier from the wall outlet. To disconnect the AC power cord, grasp the plug itself; never pull the cord.
- AC power cord must be changed only at the qualified service shop.

### On heat buildup

Although the unit heats up during operation, this is not a malfunction. If you continuously use this unit at a large volume, the cabinet temperature of the top, side and bottom rises considerably. To avoid burning yourself, do not touch the cabinet.

### On placement

- Place the amplifier in a location with adequate ventilation to prevent heat buildup and prolong the life of the amplifier.
- Do not place the amplifier near heat sources, or in a place subject to direct sunlight, excessive dust or mechanical shock.
- Do not place anything on top of the cabinet that might block the ventilation holes and cause malfunctions.

### On operation

Before connecting other components, be sure to turn off and unplug the amplifier.

### On cleaning

Clean the cabinet, panel and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzene.

If you have any question or problem concerning your amplifier, please consult your nearest Sony dealer.

## Troubleshooting

If you experience any of the following difficulties while using the amplifier, use this troubleshooting guide to help you remedy the problem. Also, see “Checking the connections” on page 18 to verify that the connections are correct. Should any problem persist, consult your nearest Sony dealer.

---

### **There is no sound no matter which component is selected.**

- Check that both the amplifier and all components are turned on.
- Check that the MASTER VOLUME control is not set at “MIN”.
- Check that all speaker cords are connected correctly.
- Press MUTING to cancel the muting function.
- Check that the headphones are not connected to the PHONES jack. No sound will come from the speakers if the headphones are connected.
- Check that the amplifier is not in “Demonstration Mode” (see page 2).

---

### **There is no sound from a specific component.**

- Check that the component is connected correctly to the audio input jacks for that component.
- Check that the cord(s) used for the connection is (are) fully inserted into the jacks on both the amplifier and the component.

**continued**

## Troubleshooting (continued)

---

### There is no sound from one of the front speakers.

- Connect a pair of headphones to the PHONES jack to verify that sound is output from the headphones (see page 18).

If only one channel is output from the headphones, the component may not be connected to the amplifier correctly. Check that all the cords are fully inserted into the jacks on both the amplifier and the component.

If both channels are output from the headphones, the front speaker may not be connected to the amplifier correctly. Check the connection of the front speaker which is not outputting any sound.

---

### There is no sound or only a very low-level sound is heard.

- Check that the speakers and components are connected securely.
  - Check that you have selected the correct component on the amplifier.
  - Check that the headphones are not connected.
  - Press MUTING if muting function is activated.
  - The Thermal Protection has been activated because the amplifier is overheated (“OVERHEAT” flashes in the display). Turn off the amplifier, leave the amplifier for a while, then turn on the power again.
  - The Over Current Protection has been activated because of low impedance or short circuit (“PROTECT” flashes in the display). Turn off the amplifier, eliminate the short-circuit problem and turn on the power again after about 20 seconds.
- 

### The left and right sounds are unbalanced or reversed.

- Check that the speakers and components are connected correctly and securely.
  - Adjust balance parameters in the LEVEL menu.
- 

### There is severe hum or noise.

- Check that the speakers and components are connected securely.
  - Check that the connecting cords are away from a transformer or motor, and at least 3 meters away from a TV set or fluorescent light.
  - Move your TV away from the audio components.
  - The plugs and jacks are dirty. Wipe them with a cloth slightly moistened with alcohol.
- 

### There is no sound from the center speaker.

- Make sure the sound field function is on (press SOUND FIELD +/-).
  - Select a sound field containing the word “CINEMA” or “VIRTUAL” (see page 19–20).
  - Adjust the speaker level (see page 17).
  - Make sure the center speaker size parameter is set to either “SMALL” or “LARGE” (see page 16).
- 

### There is no sound or only a very low-level sound is heard from the surround speakers.

- Make sure the sound field function is on (press SOUND FIELD +/-).
  - Select a sound field containing the word “CINEMA” or “VIRTUAL” (see page 19–20).
  - Adjust the speaker level (see page 17).
  - Make sure the surround speaker size parameter is set to either “SMALL” or “LARGE” (see page 16).
- 

### There is no sound from the active sub woofer.

- When you select NORM. SP., make sure the sub woofer is set to “S.W. YES” (see page 17).
  - Check that “2CH ST.” is not selected (see page 20).
- 

### “PCM--kHz” appears on the display.

- The sampling frequency is more than 48 kHz. Change the input player setting to 48 kHz.
- 

### The surround effect cannot be obtained.

- Make sure the sound field function is on (press SOUND FIELD +/-).
- 

### There is no picture or an unclear picture appears on the TV screen or monitor.

- Select the appropriate function on the amplifier.
  - Set your TV to the appropriate input mode.
- 

### The remote does not function.

- Point the remote at the remote sensor  on the amplifier.
  - Remove any obstacles in the path between the remote and the amplifier.
  - Replace both batteries in the remote with new ones, if they are weak.
  - Make sure you select the correct function on the remote.
  - If the remote is set to operate the TV only, use the remote to select a source or component other than TV before operating the amplifier or other component.
-

Reference sections for clearing the amplifier's memory

To clear	See
All memorized settings	page 13
Customized sound fields	page 23

## Specifications

Amplifier section

### POWER OUTPUT

#### Rated Power Output at Stereo mode

(8 ohms 1 kHz, THD 0.3 %)

80 W + 80 W

#### Reference Power Output

(THD 0.3 %)

Front<sup>1)</sup>: 80 W/ch

Center<sup>1)</sup>: 80 W

Surround<sup>1)</sup>: 80 W/ch

1) Depending on the sound field settings and the source, there may be no sound output.

### Frequency response

MICRO SP.:

150 Hz – 20 kHz

0/–3 dB

150 Hz (6 dB/oct)

Low cut Filter ON

NORMAL SP.:

20 Hz – 20 kHz

+/-0.5 dB

### Inputs (Analog)

Sensitivity: 250 mV

Impedance: 50 kilohms

S/N<sup>2)</sup>: 80 dB

(A, 250 mV<sup>3)</sup>)

2) INPUT SHORT.

3) Weighted network, input level.

### Inputs (Digital)

DVD (Coaxial)

Sensitivity: –

Impedance: 75 ohms

S/N: 96 dB

(A, 20 kHz LPF)

TV, AUX (Optical)

Sensitivity: –

Impedance: –

S/N: 96 dB

(A, 20 kHz LPF)

### Outputs

FRONT L/R, CENTER, SURROUND L/R,

SUB WOOFER

Voltage: 2 V

Impedance: 1 kilohms

Video section

### Inputs

S-video:

Y: 1 Vp-p, 75 ohms

C: 0.286 Vp-p, 75 ohms

### Outputs

S-video:

Y: 1 Vp-p, 75 ohms

C: 0.286 Vp-p, 75 ohms

General

### Power requirements

220 V AC, 50/60 Hz

### Power consumption

98 W

### Power consumption (during standby mode)

1.9 W

### Dimensions (w/h/d)

430 × 83 × 289 mm  
including projecting parts  
and controls

### Mass (Approx.)

3.1 kg

Speaker Section

### SS-MSP1 Front, center and surround speakers

#### Speaker system

Full range, magnetically shielded

#### Speaker units

8 cm cone type

#### Enclosure type

Bass reflex

#### Rated impedance

8 ohms

### Power handling capacity (Maximum input power)

100 watts

#### Sensitivity level

85 dB (1 W, 1m)

#### Frequency range

160 Hz – 20,000 Hz

#### Dimensions (w/h/d)

Approx. 92 x 133 x 115 mm  
including front grille

#### Mass

Approx. 1 kg

continued

## **Specifications (continued)**

### **SA-WMSP1 subwoofer System Speaker system**

Active subwoofer,  
magnetically shielded

**Speaker unit** Woofer: 20 cm cone type

**Enclosure type** Acoustically Loaded Bass  
Reflex

**Continuous RMS power output  
(8 ohms, 20 – 250 Hz)** 50 W

**Reproduction frequency range**  
28 Hz – 200 Hz

**High frequency cut-off frequency**  
150 Hz

**Input** LINE IN (input pin jack)

**Power requirements** 220 V AC, 50/60 Hz

**Power consumption** 50 W

**Dimensions (w/h/d)** 270 × 325 × 385 mm  
including front panel

**Mass (Approx.)** 10 kg

### **Supplied accessories**

Remote commander (1)  
R6 (size-AA) batteries (2)

Speakers

- Front speakers (2)
- Center speaker (1)
- Surround speakers (2)
- Sub woofer (1)

Speaker cords (5)

Speaker foot pads (24)

Coaxial digital cord (1)

Monaural audio cord (1)

Design and specifications are subject to change  
without notice.

## Tables of settings using LEVEL, SURR, and SET UP buttons

You can make various settings using the LEVEL, SURR, SET UP buttons, cursor buttons, and +/- buttons. The tables below show each of the settings that these buttons can make.

Press	Press $\wedge$ or $\vee$ to select	Press + or - to select	Page	
LEVEL	FRONT BALANCE	L8 to R8 (1 increment steps)	22	
	SURR BALANCE	L8 to R8 (1 increment steps)		
	CENTER LEVEL	-10 dB to +10 dB (1 dB steps)		
	SURR LEVEL	-10 dB to +10 dB (1 dB steps)		
	SUB WOOFER LEVEL	-10 dB to +10 dB (1 dB steps)		
	LFE MIX LEVEL	OFF, -20 dB to 0 dB (1 dB steps)		
	DYNAMIC RANGE COMP	OFF, 0.1 to 0.9 (0.1 steps), STD, MAX		
SURR	EFFECT LEVEL	depends on the sound field (16 steps)	23	
	WALL TYPE	S (8 to 1), MID, H (1 to 8) (1 increment steps)		
	REVERBERATION TYPE	S (8 to 1), MID, L (1 to 8) (1 increment steps)		
SET UP	(FRONT)	LARGE, SMALL	14	
	(CENTER)	LARGE, SMALL, NO		
	(SURR)	LARGE, SMALL, NO		
	(SUB WOOFER)	S.W. YES, S.W. NO		
	(FRONT) XX.X m	1.0 meter to 12.0 meters (0.1 meter steps)		
	(CENTER) XX.X m	1.0 meter to 12.0 meters (0.1 meter steps)		
	(SURR) XX.X m	1.0 meter to 12.0 meters (0.1 meter steps)		
	(SURR) PL. XXX	PL. SIDE, PL. BEHD.		
	(SURR) HGT. XXX	HGT. LOW, HGT. HIGH		
	MULTI VI.	TV, DVD, VIDEO, AUX, OFF		24
	TUNER VI.	TV, DVD, VIDEO, AUX, OFF		

## Adjustable parameters for each sound field

The adjusted LEVEL parameters are applied to all the sound fields. The adjusted SURR parameters are stored in each sound field.

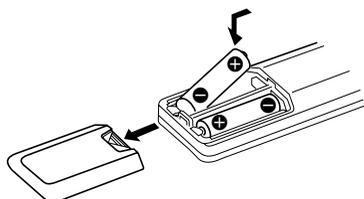
	LEVEL						
	FRONT BAL.	SURR BAL.	CENTER LEVEL	SURR LEVEL	SUB WOOFER LEVEL	LFE MIX	D.RANGE COMP.
2CH	●					●	●
A.F.D.	●	●	●	●	●	●	●
NORM.SURR.	●	●	●	●	●	●	●
STUDIO A	●	●	●	●	●	●	●
STUDIO B	●	●	●	●	●	●	●
STUDIO C	●	●	●	●	●	●	●
V.M.DIMENS.	●	●	●	●	●	●	●
V.SEMI M.D.	●		●		●	●	●
HALL	●	●	●	●	●	●	●
JAZZ	●	●	●	●	●	●	●
L.HOUSE	●	●	●	●	●	●	●
GAME	●	●	●	●	●	●	●
MULTI CH IN	●	●	●	●	●		

	SURR		
	EFFECT LEVEL	WALL TYPE	REVERB TIME
2CH			
A.F.D.			
NORM.SURR.			
STUDIO A	●		
STUDIO B	●		
STUDIO C	●		
V.M.DIMENS.			
V.SEMI M.D.			
HALL	●	●	●
JAZZ	●	●	●
L.HOUSE	●	●	●
GAME	●	●	●
MULTI CH IN			

## Before you use your remote

### Inserting batteries into the remote

Insert R6 (size-AA) batteries with the + and – properly oriented in the battery compartment. When using the remote, point it at the remote sensor  on the amplifier.



#### Tip

Under normal conditions, the batteries should last for about 6 months. When the remote no longer operates the amplifier, replace all batteries with new ones.

#### Notes

- Do not leave the remote in an extremely hot or humid place.
- Do not use a new battery with an old one.
- Do not expose the remote sensor to direct sunlight or lighting apparatuses. Doing so may cause a malfunction.
- If you don't use the remote for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

## Remote button description

You can use the remote to operate the components in your system. The tables below show the settings of each button.

Remote Button	Operations	Function
SLEEP	Amplifier	Activates the sleep function and the duration which the amplifier turns off automatically.
AV I/⏻	TV/VCR/ CD player/ DVD player/ MD deck/ VCD player/ LD player/ DAT deck	Turns the audio and video components on or off.
I/⏻	Amplifier	Turns the amplifier on or off.
VIDEO	Amplifier	To watch VCR.
DVD	Amplifier	To watch DVD.
TV	Amplifier	To watch TV programs or satellite receiver.
AUX	Amplifier	To listen to an audio equipment.
TUNER	Amplifier	To listen to radio programs.
MULTI CH	Amplifier	To listen to the sound from MULTI CH INPUT jacks.
0-9	Tuner	Use with "SHIFT" button to select tuner preset station numeric input during DIRECT TUNING or MEMORY mode.
	CD player/ MD deck/ VCD player/ LD player/ DAT deck	Selects track numbers. 0 selects track 10.
	TV/VCR/SAT	Selects channel numbers.
>10	CD player/ MD deck/ Tape deck/ LD player/ VCD player	Selects tracks numbers over 10.

**continued**

## Remote button description (continued)

Remote Button	Operations	Function
ENTER	TV/VCR/SAT/ Tape deck/ LD player/ VCD player/ MD deck/ DAT deck	After selecting a channel, disc or track using the numeric buttons, press to enter the value.
SHIFT	Tuner	Press repeatedly to select a memory page for presetting radio stations or tuning to preset stations.
-/--	TV	Selects the channel entry mode, either one or two digit.
D.TUNING	Tuner	Tuner station direct key-in mode.
⏮/⏭	CD player/ MD deck/ DVD player/ LD player/ VCD player/ Tape deck/VCR/ DAT deck	Skips tracks.
⏪/⏩	CD player/ DVD player/ VCD player/ MD deck/ LD player/ Tape deck/ VCR/ DAT deck	Searches tracks (forward or backward).  Fastforwards or rewinds. Searches tracks when pressed during playback.
◀	Tape deck	Starts play on the reverse side.
▶	CD player/ MD deck/Tape deck/VCR/ DVD player/ VCD player/ LD player/ DAT deck	Starts play.

Remote Button	Operations	Function
⏸	CD player/ MD deck/Tape deck/VCR/ DVD player/ VCD player/ LD player/ DAT deck	Pauses play or record. (Also starts recording with components in record standby.)
■	CD player/ MD deck/Tape deck/VCR/ DVD player/ VCD player/ LD player/ DAT deck	Stops play.
POSITION*	TV	Changes the position of the small picture.
SWAP*	TV	Swaps the small and the large picture.
DISC	CD player	Select discs (Mega storage CD player only).
SUB CH +/-*	TV	Selects preset channels for the small picture.
D. SKIP/CH/ PRESET +/-	Tuner	Scans and selects preset stations.
	TV/VCR/SAT	Selects preset channels.
	CD player/ MD deck/ DVD player/ VCD player	Skips discs (multi-disc changer only).
DISPLAY	TV/VCR/ LD player/ DVD player/ VCD player	Selects information displayed on the TV screen.
P IN P*	TV	Activates the picture-in-picture function.
JUMP	TV	Toggles between the previous and the current channels.
WIDE	TV	Selects the wide picture mode.

Remote Button	Operations	Function
ANT TV/VTR	VCR	Selects output signal from the aerial terminal: TV signal or VCR program.
TV/VIDEO	TV	Selects the input of TV.
FM/AM	Tuner	Select the band.
A.F.D.	Amplifier	Auto Format Decoding.
2CH/OFF	Amplifier	Turns off sound field or selects 2CH mode.
MODE +/-	Amplifier	Selects sound field mode.
MUTING	Amplifier	Mutes the sound from the amplifier.
TEST TONE	Amplifier	Press to output test tone.
MAIN MENU	Amplifier	Selects the set up mode of the amplifier.
MASTER VOL +/-	Amplifier	Adjusts the master volume of the amplifier.
MENU </>	Amplifier	Selects a menu item.
MENU +/-	Amplifier	Makes adjustment or change the setting.
MENU	DVD player	Displays DVD menu.
⇄/⇅/⇆/⇇	DVD player	Selects a menu item.
ENTER	DVD player	Enters the selection.
RETURN	DVD player	Returns to the previous menu or exits the menu.
TITLE	DVD player	Displays DVD title.

\* Only for Sony TVs with the picture-in-picture function.

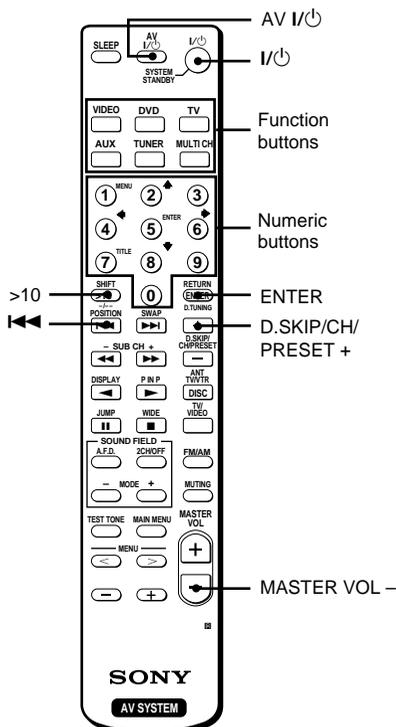
#### Notes

- Some functions explained in this section may not work depending on the model of the amplifier.
- The above explanation is intended to serve as an example only.

Therefore, depending on the component the above operation may not be possible or may operate differently than described.

## Changing the factory setting of a function button

If the factory settings of the function buttons do not match your system components, you can change them. For example, if you have an MD player and a tape deck and you do not have a DVD player, you can assign the DVD button to your tape deck.



- 1 Hold down the Function button whose function you want to change (for example, DVD).
- 2 Press the corresponding button of the component you want to assign to the Function button (for example, 4 – Tape deck).

The following buttons are assigned to select the functions:

To operate	Press
CD player	1
DAT deck	2
MD deck	3
Tape deck A	4
Tape deck B	5
LD player	6
VCR (command mode VTR 1*)	7
VCR (command mode VTR 2*)	8
VCR (command mode VTR 3*)	9
TV	0
DSS (Digital Satellite Receiver)	>10
DVD player	ENTER
VCD player	⏮
Tuner	D.SKIP/CH/PRESET +

\* Sony VCRs are operated with a VTR 1, 2 or 3 setting. These correspond to Beta, 8mm and VHS respectively.

Now you can use the DVD button to control the tape deck.

To reset a button to its factory setting  
Repeat the above procedure.

To reset all the function buttons to their factory setting  
Press I/⏻, AV I/⏻ and MASTER VOL – at the same time.



## 警告

为防发生火灾或触电危险，请勿让本装置淋雨或受潮。

为防火灾，请勿让装置的通风孔盖住报纸，桌布，窗帘等。也不可在装置上点放蜡烛。

为防火灾或触电危险，不可在装置上摆饰花瓶等装满液体的物体。



本装置属于一类激光 (CLASS 1 LASER) 产品。在装置的外侧有一类激光产品的标记 (CLASS 1 LASER PRODUCT)。



不可随便抛弃废旧电池，必须把它当作有害垃圾处置。

不要把机器安装在诸如书橱或壁橱等狭隘不通风的地方。

本放大器含有杜比\*数字，专业逻辑环绕声和 DTS\*\* 数字环绕声系统。

\* 由杜比研究所授权制造。

“Dolby”，“Pro Logic”和双 D 标志是杜比研究所的注册商标。

\*\* “DTS”和“DTS Digital Surround”是数字电影院系统股份有限公司的注册商标。

上海索广电子有限公司  
上海市 闵行区 剑川路 930 号

## 要领

本说明书说明放大器的控制器。也可利用所附带遥控器上的和本放大器上具有相同或类似名称的控制器。有关遥控器的用法详细，请参考第 31-34 页。

### 示范模式

第 1 次打开放大器电源时，即可激活 (打开) 示范模式。当示范模式启动时，显示器中将出现两次下列提示：

“NOW DEMONSTRATION MODE IF YOU FINISH DEMONSTRATION PLEASE PRESS POWER KEY WHILE THIS MESSAGE APPEARS IN THE DISPLAY THANK YOU”

(现在是示范模式，如果已结束示范即请在显示器还显示著此提示当中按电源键。谢谢。)

### 要解除示范模式时

请在显示著上列提示当中按 **I/⏻** 以关掉放大器电源。则，下次打开放大器电源时，便不出现示范模式了。

### 要查看示范说明时

请按 **SET UP** 并按 **I/⏻** 以打开电源。

### 注

- 运转示范模式将会清除掉放大器的存储。有关清除详细，请参看第 13 页的“清除放大器的存储”。
- 当激活了示范模式时，将听不到声音。
- 当显示著上面提示时，如果不按 **I/⏻**，便不能解除示范模式。如果要在出现了上面提示之后，解除示范模式，就请按两次 **I/⏻** 以再激活示范模式。然后，在显示著上面提示当中按 **I/⏻**。

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## 附加资讯

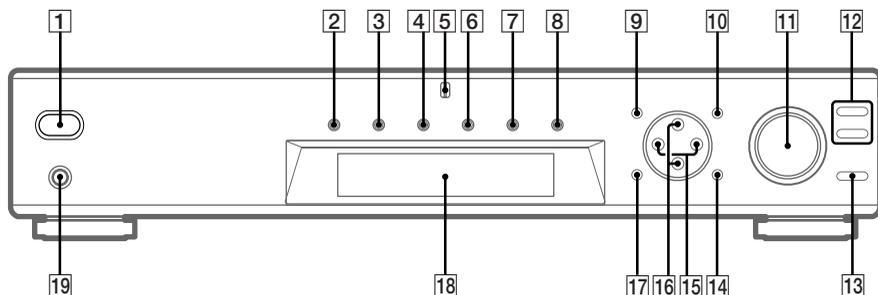
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CS

项目是按字母顺序排列。

详细请参阅括弧 ( ) 内所指页次。

## 主机



- AUX **6** (18)
- 游标按钮 (▲/▼) **16** (14, 22-24)
- 显示器 **18** (21)
- DVD **3** (18)
- LEVEL **17** (22)
- MASTER VOLUME **11** (17, 18)
- MULTI CH IN **8** (18)
- MULTI CHANNEL  
DECODING 指示灯 **5**
- MUTING **13** (18)
- PHONES 插孔 **19** (18)
- SET UP **10** (14, 24)
- SOUND FIELD +/- **12** (19, 23)
- SURR **9** (23)
- TEST TONE **14** (17)
- TUNER **7** (18)
- TV **4** (18)
- VIDEO **2** (18)
- I/O (电源) **1** (13, 17, 18, 23)
- +/- **15** (14, 22-24)

## 所需用导线

### 要联结以前

- 要作任何联结以前，必须先关掉所有组成机的电源开关。
- 必须等所有的连接工作都作完了之后，最后才连接 AC 电源导线。
- 接线必须确实接稳固以免引起交流哼声和噪声。
- 连接光频数字导线时，请卸下连接器的盖罩，笔直地插入导线插头至卡入定位。
- 光频数字导线不可弯折或打结。

#### A 音频导线（无附带）



#### B S 视频导线（无附带）



#### C 光频数字导线（无附带）



#### D 同轴数字导线（附带）

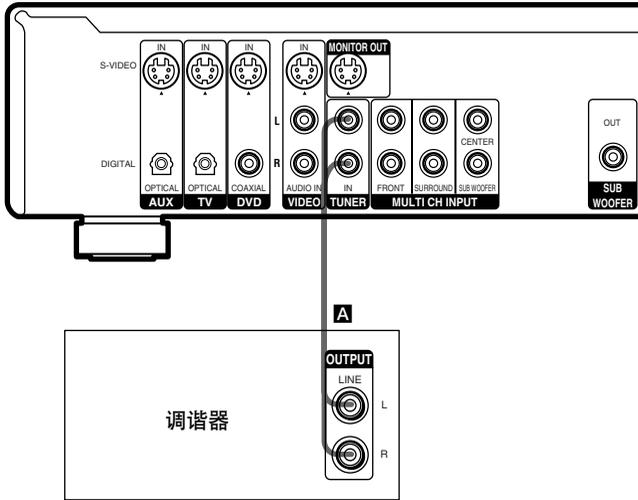


#### E 单耳声声频导线（无附带）



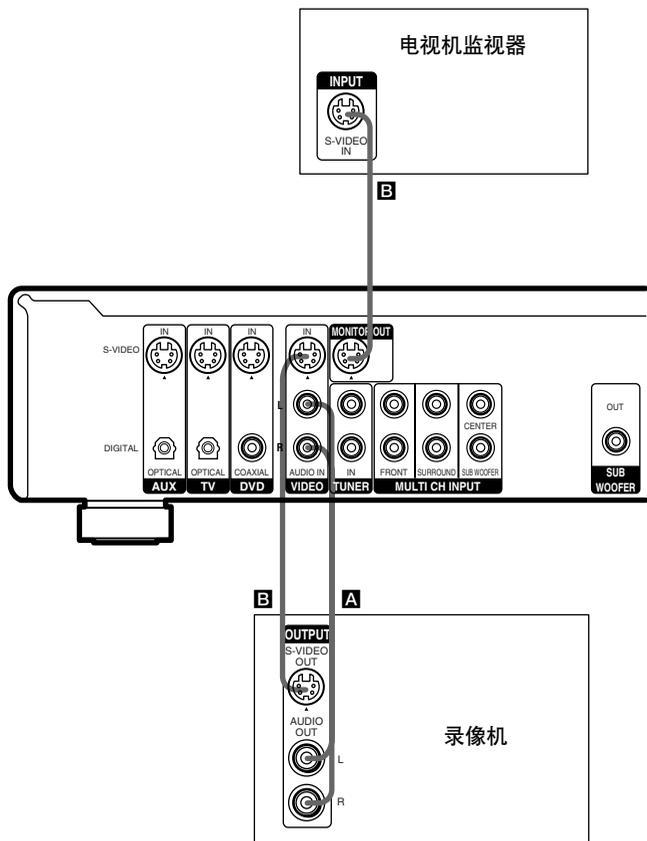
## 音频组成机的联结

须用导线 (A-E) 有关详细, 请参看第 5 页。



### 要领

要指定所要来自 TUNER (调谐器) 插孔的带音频信号的视觉输入时, 请在 SET UP (调定) 菜单中设定 TUNER 视觉输入 (第 24 页)。



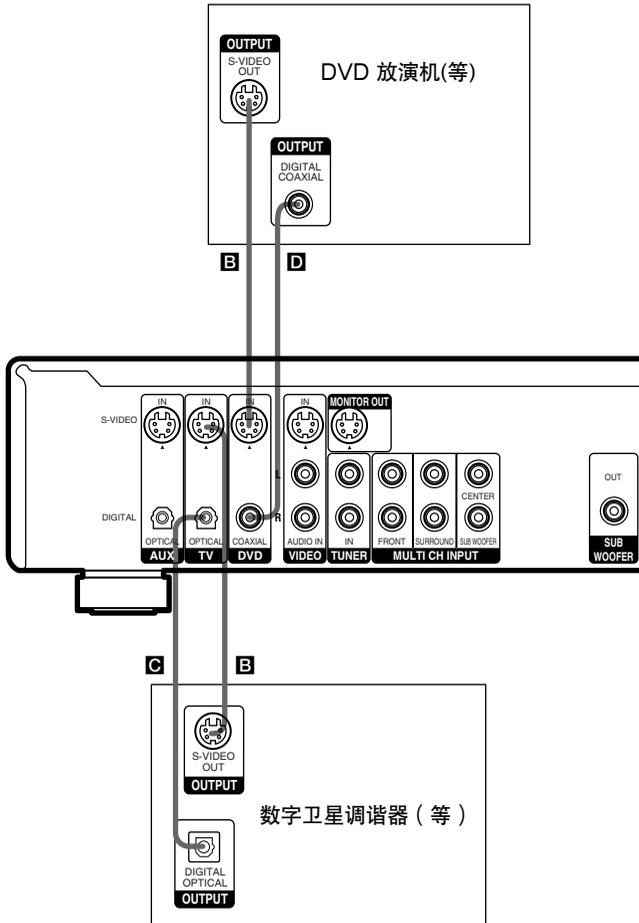
## 要给来自电视机的声频提供声音效果时

可将电视机的声频输出插孔连接到放大器的 VIDEO AUDIO IN 插孔，以便给电视机的声频提供声效果。此时，请注意不要把电视机的视频输出插孔连接到放大器上的 VIDEO IN 插孔。

要用遥控器切换电视机频道时，请指定 VIDEO 按钮为 TV（第 34 页）。

## 数字组成机的联结

将 DVD 放演机（等）的数字输出插孔连接到本放大器的数字输入插孔，便可将电影院才有的多频道环绕声带进您家里。为了能充分享受多频道环绕声效果，须装 5 个扬声器（2 个前扬声器，2 个环绕声扬声器，和 1 个中央扬声器）和 1 个副低音扬声器。



注

- OPTICAL 输入插孔兼容 48 kHz, 44.1 kHz, 和 32 kHz 取样频率。
- COAXIAL 输入插孔兼容 96 kHz, 48 kHz, 44.1 kHz 和 32 kHz 取样频率。

## 多声道输入的联结

本放大器虽含有多声道解码器，也还需要配备多声道输入插孔。此般连接可享受杜比数字（Dolby Digital）和 DTS 以外格式编码的多频道软体。您的 DVD 放演机如果配备有多声道输出插孔，便可将它们直接连接到放大器，享受 DVD 放演机的多声道解码器的音响。另外，多声道输入插孔还可用于连接一外部多声道解码器。

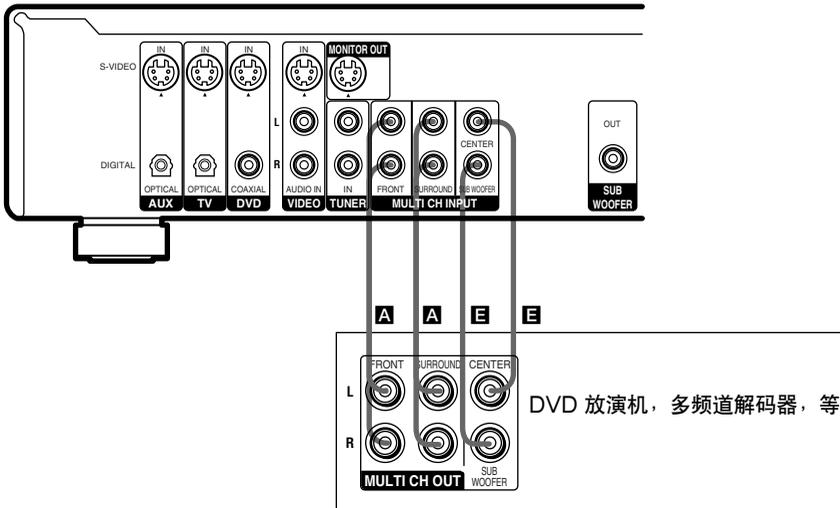
为了能充分享受多声道环绕声效果，须装 5 个扬声器（2 个前扬声器，2 个环绕声扬声器，和 1 个中央扬声器）和 1 个副低音扬声器。有关多声道联结的详细内容，请参考 DVD 放演机，多声道解码器等附带的使用说明书。

### 要领

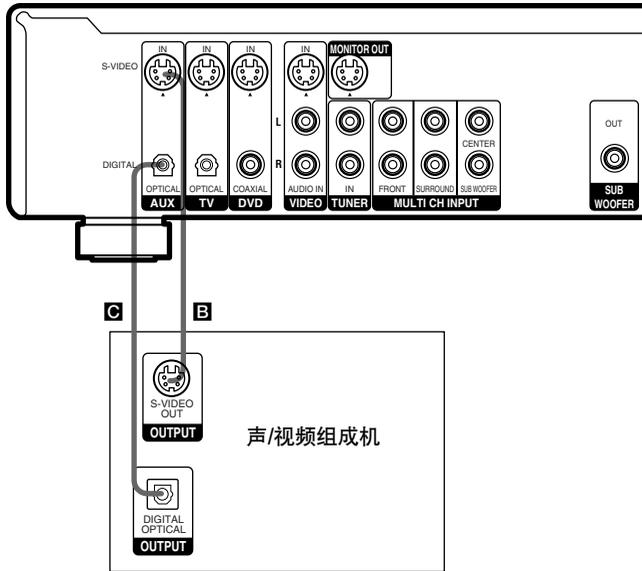
- 要指定所要来自 MULTI CH INPUT（多声频输入）插孔的带声频信号的视频输入时，请在 SET UP（调定）菜单中设定 MULTI CH IN 视觉输入（第 24 页）。
- 可用导线 **A** 代替 2 条导线 **E**。

### 注

- 当利用下述连接时，请在 DVD 放演机或多声道解码器上调整环绕声扬声器和副低音扬声器的电平。
- 有关扬声器系统的联结的详细内容，请参看第 11 页。



## 其他联结



### AUX 联结

您如果有单独的声/视频组成机

可用光频数字导线（无附带）将 CD 唱机，MD 座，或电视游戏机上的光频输出插孔连接到放大器上的 AUX OPTICAL（辅助光频）插孔以便能听到立体声源的环绕声效果。

利用 S 视频电缆（无附带）将您的视频组成机上的 S 视频输出插孔连接到放大器上的 AUX S-VIDEO IN 插孔。

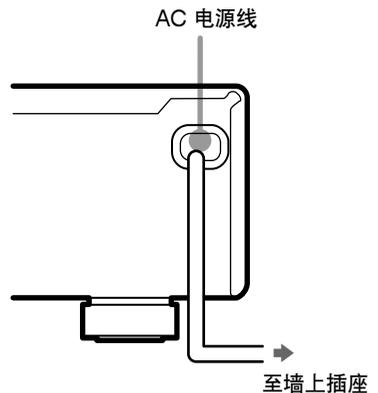
### 连接 AC 电源线

在把本放大器的 AC 电源线接插到墙上插座之前，请先把扬声器系统连接到放大器（参看第 11 页）。

将声/视频组成机的 AC 电源线接插到墙上插座。

注

您如果拔下了 AC 电源线大约两星期之久，则放大器的所有存储都将被清除而开始示范。



## 联结扬声器系统

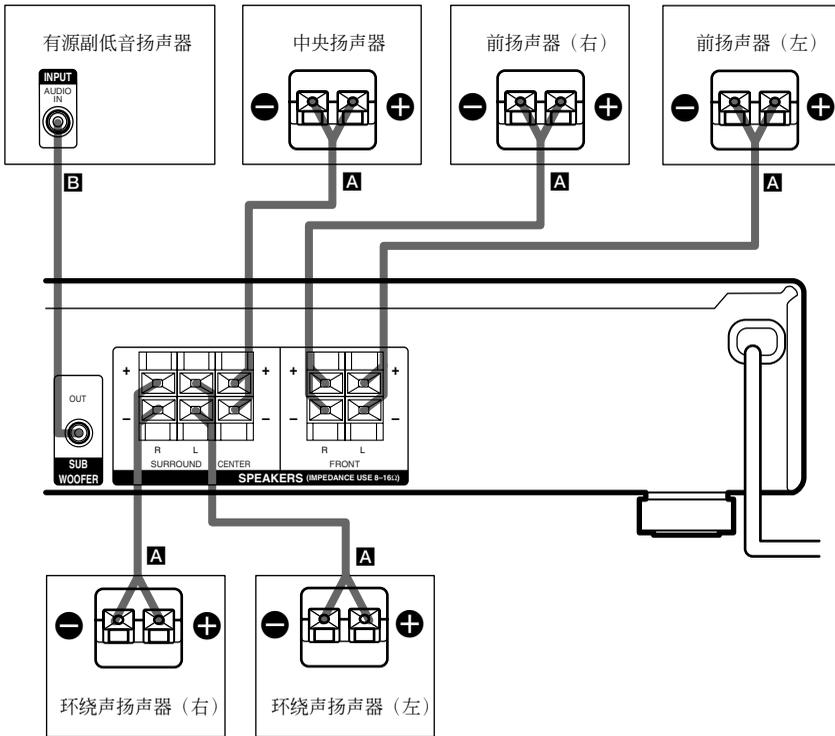
连接扬声器以前，一定请先关掉本机电源。

须用导线

### A 扬声器导线 (附带)

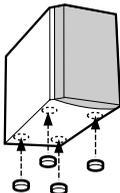


### B 单耳声音频导线 (附带)



### 要领

收听时，为防扬声器的振动，请在扬声器底边装上附带的脚垫。



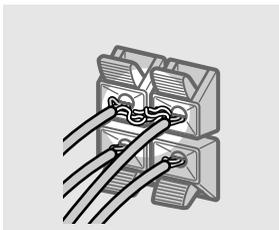
## 联结扬声器系统 (续)

### 为免使扬声器发生短路

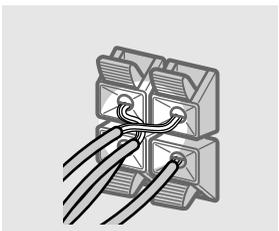
扬声器发生短路可能因而损坏放大器。为防此事故，当连接扬声器时，必须注意如下事项。

确认剥除了绝缘皮的各扬声器的线头不碰到别的扬声器端子，其他扬声器导线剥除了绝缘皮的线头，或放大器的金属部分。

#### 扬声器导线的不良条件例



剥除了绝缘皮的扬声器导线接触到别的扬声器端子。



剥除了绝缘皮的导线互相碰触，因为过分剥除了绝缘皮部分。

连接完所有组成机，扬声器，和 AC 电源线之后，可输出测试音以检查一下所有扬声器是否都正确地连接妥当。有关输出测试音的详细，请参看第 17 页。

输出测试音时，如果没有声音，或自非现在播放中的放大器所指扬声器发出测试声音时，即可能是扬声器发生短路。此时，请再检查一下扬声器的连接。

### 为免损坏扬声器

要关掉放大器电源之前，一定请先转小音量。在您再打开放大器时，将呈现您上次关掉放大器时的音量。

## 实施初始调定操作

每凡联结了扬声器并打开了电源时，即将清除掉放大器的存储。然后，请指定扬声器参数（大小，位置，等）并实施操作您的系统所需的任何别的初始调定。

### 要领

设定中查听声频输出（输出着声音同时进行调定），检查连接状态（参看第 18 页）。

### 清除放大器的存储

首次使用放大器，或当要清除掉放大器的存储时，可按照下列程序作。

当打开本产品电源时，如果激活了示范说明，便无须作此操作。

#### 1 关掉放大器电源。

#### 2 按下 I/⏻ 5 秒。

即开始示范（参看第 2 页）而所有下列各项都将被重调或被清除：

- 所有声场参数都被重调为工厂设定。
- 全部的 SET UP 参数都被重调为工厂设定。
- 各节目信号源用的存储声场都被清除。
- 主音量被设定为“MIN”（最小）。

## 实施初始调定操作

第一次使用您的放大器之前，须先调整 SET UP 参数，使放大器能适合您的系统。有关可调整参数，请参看第 29 页的表。扬声器的设定，请参看第 13-17 页。其他设定，则请参看第 24 页。

## 多声道环绕声的调定

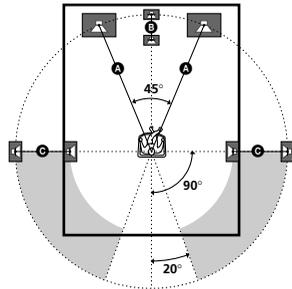
为获得最佳的环绕声效果，必须使所有的扬声器都距听者位置相等距离 (A)。

但，本放大器可让中央扬声器最多接近听者位置 1.5 米 (B)，让环绕声扬声器最多可接近 4.5 米 (C)。

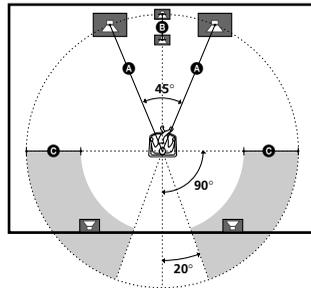
前扬声器能放置在距离听者位置 1.0 到 12.0 米处 (A)。

环绕声扬声器，可以根据您房间的形状（等）而放置在您（听者位置）的后面或两侧。

环绕声扬声器放置在您的两侧时



环绕声扬声器放置在您的后面时



### 注

中央扬声器不要放置在比较前扬声器距离听者位置更远处。

[接下页](#)

## 多声道环绕声的调定 (续)

### 指定扬声器参数

- 1 按 SET UP (调定)。
- 2 按游标按钮 (∧ 或 ∨) 以选择要调整的参数。
- 3 按 + 或 - 以选择所要设定。  
设定内容即自动地输入。
- 4 反复步骤 2 和 3 至设定好所有下列参数。

#### 初始设定

参数	初始设定
  (FRONT) XX.X m	DIST. 5.0 m
 (CENTER) XX.X m	DIST. 5.0 m
  (SURR) XX.X m	DIST. 3.5 m
  (SURR) PL. XXX	PL. BEHD.
  (SURR) HGT. XXX	HGT. LOW

#### ■ 前扬声器距离 (前 前)

设定从您的听者位置到前扬声器的距离 (第 13 页的 **A**)。

#### ■ 中央扬声器的距离 (中)

设定从您的听者位置到中央扬声器的距离。中央扬声器距离必须设定为从相等於前扬声器距离 (第 13 页的 **A**) 到靠近您收听位置 (第 13 页的 **B**) 1.5 米的距离。

#### ■ 环绕声扬声器的距离 (后 后)

设定从您的听者位置到环绕声扬声器的距离。环绕声扬声器距离必须设定为从相等於前扬声器距离 (第 13 页的 **A**) 到靠近您收听位置 (第 13 页的 **C**) 4.5 米的距离。

#### 要领

放大器可让您按照距离输入扬声器的位置。但, 不能把中央扬声器设定得更远於前扬声器。中央扬声器也不能设定更接近前扬声器 1.5 米以上。同样的, 环绕声扬声器和听者位置的距离也不能设定得比前扬声器更远。它们都不能近於 4.5 米。

扬声器如果配置得不正确, 便不能享受环绕声效果。

请注意, 扬声器的距离设定, 如果近於扬声器的实际位置, 则来自扬声器的输出声将会延迟。换言之, 扬声器听起来会好象远一些。

例如, 把中央扬声器距离设定得比实际的扬声器位置近 1~2 米时, 便将造成相当逼真的“在银幕里面”的感觉。如果因为环绕声扬声器太靠近而得不到满意的环绕声效果, 可以把环绕声扬声器距离设定为比实际距离接近 (较短), 如此, 即可产生较大声级。

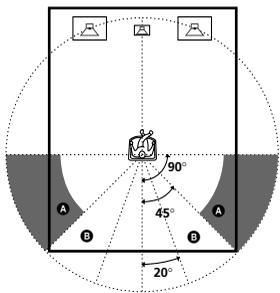
您可一边听著声音一边调整这些参数, 即可获得较好的环绕声。不妨试试!

### ■ 环绕扬声器位置 (環繞揚聲器)\*

本参数可让您指定环绕扬声器的位置，用於适当地实行在“VIRTUAL”（虚拟）声场中的数字影院声（Digital Cinema Sound）环绕声模式。请参看下图。

- 如果环绕扬声器的位置符合 **A** 区部分，即请选“PL. SIDE”。
- 如果环绕扬声器的位置符合 **B** 区部分，即请选“PL. BEHD.”。

本设定只在“VIRTUAL”（虚拟）声场中的环绕声模式有效。

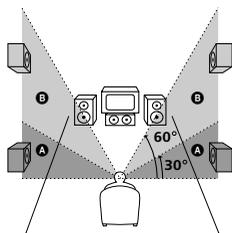


### ■ 环绕扬声器高度 (環繞揚聲器)\*

本参数可让您指定环绕扬声器的高度，用於适当地实行在“VIRTUAL”（虚拟）声场中的数字影院声（Digital Cinema Sound）环绕声模式。请参阅下图。

- 如果环绕扬声器的位置符合 **A** 区部分，即请选“HGT. LOW”。
- 如果环绕扬声器的位置符合 **B** 区部分，即请选“HGT. HIGH”。

本设定只在“VIRTUAL”（虚拟）声场中的环绕声模式有效。



\* 当“环绕扬声器尺寸”被设定於“NO”时，这些参数都无效。

### 要领

环绕扬声器位置参数专用於在“VIRTUAL”（虚拟）声场中实行数字影院声（Digital Cinema Sound）模式用的。

用数字影院声模式时，扬声器的位置并不比别的模式要求严格。所有在“VIRTUAL”声场中的模式虽都是在环绕扬声器须位於听者位置后面的前提下设计的，但即使环绕扬声器位於相当广大角度范围内，仍能保留相当的效果。但是，如果扬声器位於紧接着听者位置左和右边而对着听者配置时，除非把环绕扬声器的位置参数设定於“PL. SIDE”，否则，“VIRTUAL”声场便将变成没什么效果。

不过，因为听赏环境变化很大，例如墙壁的反射，如果扬声器是配置在高於听者位置的地方，即使紧接於左和右，还是用“PL. BEHD.”可获得较好效果。

因此，所设定的结果虽可能相反於正规说明的“环绕扬声器位置”，您仍不妨实际播放多频道环绕声编码软体，试听赏根据实际环境的设定效果。选择能在来自环绕扬声器的环绕声和前置扬声器声音之间形成紧密空间，提供最佳空间感的设定。如果仍然不易决定最佳声音，可选“PL. BEHD.”，然后用扬声器距离参数和扬声器电平进行调整以获得最适当的平衡。

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## 多声道环绕声的调定 (续)

限于当使用所附带以外的扬声器时，一定请设定下列参数。

扬声器尺寸和副低音扬声器选择已按照所提供扬声器系统预调到 MICRO SP. (微型卫星扬声器)。您如果改变扬声器系统，即请选 NORM.SP. (普通扬声器) 以调整扬声器尺寸和副低音扬声器选择。要选择 NORM.SP. 时，请关掉电源。然后按着游标按钮  $\wedge$  同时再打开电源 (要重调为 MICRO SP. 时，请作同样程序的操作)。

参数	初始设定
$\text{FRONT}$ (FRONT)	LARGE
$\text{CENTER}$ (CENTER)	LARGE
$\text{SURR}$ (SURR)	LARGE
$\text{SUB WOOFER}$ (SUB WOOFER)	S.W. YES

您如果是选择 MICRO SP. 便不能改变配置。

### ■ 前扬声器尺寸 ( $\text{FRONT}$ )

- 如果连接了可有效地再现低音频音响的大型扬声器，即选择“LARGE” (大型)。
- 当使用多声道环绕声时，如果声音失真，或觉得缺乏环绕声效果，即请选择“SMALL” (小型) 以激活低音改向电路而从副低音扬声器输出前频道低频音。
- 当前扬声器被设定为“SMALL”时，中央，环绕声扬声器也都自动地设定为“SMALL” (除非预先设定於“NO”)。

### ■ 中央扬声器尺寸 ( $\text{CENTER}$ )

- 如果是连接了能有效地再现低频率的大型扬声器时，即请选择“LARGE”。但是，如果前扬声器是设定於“SMALL”，您便不能把中央扬声器设定於“LARGE”了。
- 当使用多声道环绕声时，如果声音失真，或觉得缺乏环绕声效果，即请选择“SMALL”以激活低音改向电路而从前扬声器 (如果是设定於“LARGE”) 或副低音扬声器输出中央频道低频音。<sup>\*1</sup>
- 如果不连接使用中央扬声器，就请选择“NO”。中央频道声即将从前扬声器输出。<sup>\*2</sup>

### ■ 环绕声扬声器尺寸 ( $\text{SURR}$ )

- 如果是连接了能有效地再现低频率的大型扬声器时，即请选择“LARGE”。但是，如果前扬声器是设定於“SMALL”，您便不能把环绕声扬声器设定於“LARGE”了。
- 当使用多声道环绕声时，如果声音失真，或觉得缺乏环绕声效果，即请选择“SMALL”以激活低音改向电路而从副低音扬声器或别的“LARGE”扬声器输出环绕声频道低频音。
- 如果不连接环绕声扬声器，即请选择“NO”。<sup>\*3</sup>

### 要领

\*1-3 相当於下列杜比专业逻辑 (Dolby Pro Logic) 模式

\*1 NORMAL (正常)

\*2 PHANTOM (幻像)

\*3 3 STEREO (3 立体声)

## 要领

在内部的，各扬声器的 LARGE（大型）和 SMALL（小型）设定，将取决于内部声处理机是否截断了来自该频道的低音信号。当截断了来自频道的低音时，低音改向电路便把相应的低频音送到副低音扬声器或别的“LARGE”扬声器。但，因为低音有些定向性，最好还是尽可能不截断它们。因此，即使当使用小型扬声器时，如果要从扬声器输出低音也能把它们设定於“LARGE”。一方面，如果是用了大型扬声器，但并不想从扬声器输出低频音时，可以把它设定於“SMALL”。

如果总声音电平仍低於您所要求水准，便请把所有的扬声器都设定於“LARGE”。

## ■ 副低音扬声器选择 (S.W.)

- 如果连接有副低音扬声器，就选“S.W. YES”。
- 如果没连接副低音扬声器，就选“S.W. NO”。如此便将激活低音改向电路并从别的扬声器输出 LFE 信号。
- 为了充分利用杜比数字 (Dolby Digital) 低音改向电路，您最好把副低音扬声器的截断频率尽可能设定於较高频。

## 调整扬声器的电平

坐在您的听者位置，用遥控器调整各扬声器的电平。

### 注

放大器含有一新型测试音，频率中心是 800 Hz，可以简便地调整扬声器的电平。

**1** 按 I/⏻ 以打开放大器电源。

**2** 按 TEST TONE (测试音)。

将逐一地从各个扬声器听到测试音。

**3** 坐在您的收听位置调整电平参数，使来自各个扬声器的测试音听起来都相同。

要调整扬声器的平衡和电平时，请按遥控器上的 MENU </> 以选择要调整的点平参数 (第 22 页)，然后按 MENU +/- 以选择设定。

**4** 再按一次 TEST TONE 以关掉测试音。

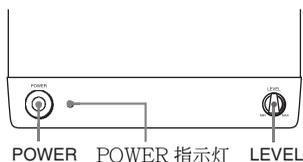
### 要领

可以同时调整所有扬声器的电平。旋转主机上的 MASTER VOLUME 或按遥控器上的 MASTER VOL +/-。

### 注

- 调整中，将在显示器上显示调整值。
- 虽然这些调整也可用前面板上的 LEVEL 菜单作 (当输出测试音时，放大器将自动地切换为 LEVEL 菜单)，但，最好还是按照上面的说明，从听者位置用遥控器调整扬声器的电平。

## 聆听重低音扬声器



首先，请调小放大器的音量。播放节目声源之前，音量应该设定为最小。

- 1** 打开放大器并选择节目源。
- 2** 按下重低音扬声器的 POWER。  
重低音扬声器的 POWER 指示灯即亮起绿灯。
- 3** 播放节目源。

## 调整音响

稍微调校系统可增强您的音响听觉享受。

- 1** 转动 LEVEL 以调整音量。  
根据节目源把音量设定为您所喜好的电平。

## 注

切勿将重低音扬声器的音量调至最大。否则，会减弱低音音响。此外，还可能听到额外的噪音。

## 检查连接

把所有的组成机都连接到放大器之后，请作下列操作以确认是否连接得正确。

- 1** 按 I/⏻ 以打开放大器电源。
- 2** 按功能按钮以选择所要连接的组成机（节目信号源）（例如 DVD 放演机）。
- 3** 打开组成机的电源而开始播放。
- 4** 旋转 MASTER VOLUME 以调大音量。

作了这些操作，如果不能获得正常音响，即请参看第 25 页的“故障探寻”作适当的测定以校正问题。

## 选择组成机

## FUNCTION（功能）控制

旋转 FUNCTION 控制以选择要用的组成机。

要选	请按
录像机	VIDEO
DVD 放演机	DVD
数字卫星调谐器（等）	TV
调谐器	TUNER
声/视频组成器	AUX

打开所选组成机电源之后，选择组成机并播放节目信号源。

## MULTI CH IN（多声道输入）

按 MULTI CH IN 以欣赏连接在 MULTI CH INPUT 插孔而带有来自所选组成机的视频的声源。

- 当选择了 MULTI CH IN 时，声场和环绕声参数是不起作用的。

## MUTING（静调）

按 MUTING 以静调（消去）声音。当声音被静调时，显示器上将出现 MUTING。当关掉了机器电源或拔下了电源线时，静调功能便被解除。

## PHONES（耳机插孔）

请用 PHONES 插孔连接头戴耳机。

- 当连接了头戴耳机时，从扬声器的声输出将自动地被解除。

只要选择放大器的预编程声场之一，便可简单地利用环绕声效果。这些效果能将电影院和音乐厅的魄力十足而感人的音响带进您家。可以改变各种各样环绕声参数定制自己的声场以便获得自己喜欢的音响。

为能充分享受环绕声效果，必须先登记好扬声器的数量和位置。欣赏环绕声之前，请参看从 13 页起的“多声道环绕声的调定”说明以设定好扬声器参数。

## 选择声场

根据您要听的节目，只要选择预编程声场之一，便可轻而易举地享受环绕声。

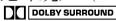
反复按 **SOUND FIELD +/-** 以选择所要的声场。

现在声场即指示在显示器中。各种声场的有关信息，请参看第 19-20 页。

### 要关掉环绕声效果时

请选择 **A.F.D.** 或 **2CH ST.** (第 20 页)。

### 要领

- 放大器将存储下各节目信号源所选的最后声场（声场连锁）。每当选择节目信号源时，即可自动地再出现上次最后用的声场。例如您用 HALL 声场听 DVD 而途中转换到其他不同的节目信号源，然后又恢复听 DVD 时，便自动地供给 HALL 声场。
- 查看一下包装，便可识别程序软体的编码格式。  
杜比数字 (Dolby Digital) 光盘贴有  洛格字标标签，杜比环绕声 (Dolby Surround) 编码程序则贴有  洛格字标的标签。

## 關於 DCS (数字影院声)

DCS 是环绕声技术的一个观念名称，是 Sony 研制成功用于家庭影院的技术。DCS 利用 DSP (数字信号处理机) 的技术能再现好莱坞实际影片剪辑室的声特性。

在家里播放时，DCS 便可创造一强有力的电影院效果。即能模拟音乐家的组音和电影导演的想象动作。

### ■ **NORM.SURR.** (标准环绕声)

带有多声道环绕声频信号的软体将根据其记录方式播放。带 2 声道声的声频信号利用杜比专业逻辑解码，造成环绕声效果。

### ■ **STUDIO A-C (摄影棚 A-C) DCS**

- **CINEMA STUDIO A** 能再现 Sony Pictures Entertainment (Sony 影像娱乐) 典型编辑演播室的声音特性。
- **CINEMA STUDIO B** 能再现 Sony Pictures Entertainment (Sony 影像娱乐) 的好莱坞最现代化机构之一的混合演播室的声音特性。
- **CINEMA STUDIO C** 能再现 Sony Pictures Entertainment (Sony 影像娱乐) 的 BGM 记录演播室的声音特性。

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## 选择声场 (续)

### ■ V.M.DIMENS.\* (虚拟多维) **DCS**

利用三维 (3D) 声像, 只从一对实存的环绕扬声器创造出一整列高出听者位置的虚拟扬声器。此模式创造出 4 套虚拟扬声器以大约 30 度的仰角围绕着听者。

### ■ V.SEMI M.D.\* (虚拟半多维) **DCS**

利用三维 (3D) 声像, 只从前扬声器便能创造出虚拟的环绕扬声器而不必实存的环绕扬声器。此模式创造出 5 套虚拟环绕扬声器以大约 30 度的仰角围绕着听者。

### ■ HALL

再现一的矩形音乐厅音响。

### ■ JAZZ (夜总会)

能再现夜总会的音响。

### ■ L.HOUSE (实况演奏厅)

能再现 300 座位的实况演奏厅的音响。

### ■ GAME (电视游戏)

能从电视游戏软件获得最大声音冲击性的音响。

\* “VIRTUAL” 声场: 带虚拟扬声器的声场。

#### 注

- 虚拟扬声器提供的音响效果, 可能会在播放信号里增加一点噪声。
- 当在听用于虚拟扬声器的声场时, 是不能直接听到环绕扬声器声的。

下列模式, 请用前面板上的按钮操作。

### A.F.D. (自动格式解码)

能自动检测输入的音频信号型式 (Dolby Digital, DTS, 或标准 2 声道立体声), 必要时可实施适当的解码。本模式呈现的音响, 就如不加任何效果 (例如, 交混回响) 而录得/编码得似的。

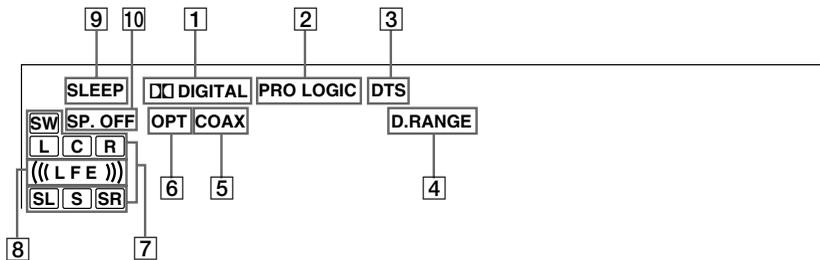
### 2CH ST. (2 声道立体声)

只从前左和右扬声器输出声音。标准 2 声道 (立体声) 信号源完全旁通声场处理。多声道环绕声格式将下降混频为 2 声道。

#### 注

- 当您选择 NORM. SP. (第 16 页) 并选择了 “2CH ST.” 时, 副低音扬声器是不发声的。如果要用前左, 前右扬声器和副低音扬声器听 2 声道 (立体声) 声源时, 请选 “A.F.D.”。
- 当选择 MICRO SP. 时, 内部声处理器将自动地重新安排低音于副低音扬声器。

# 多声道环绕声显示说明



- 1** **DIGITAL**: 放大器正给杜比数字格式录音的信号解码时，点亮。
- 2** **PRO LOGIC**: 当放大器为了输出中央和环绕声频道信号而提供专业逻辑处理给 2 频道信号时，点亮。但，如果把中央和环绕声扬声器设定於“NO”，而选择了“A.F.D.”或“NORMAL SURROUND”时，此指示灯便不点亮。
- 3** **DTS**: 当输入 DTS 信号时，点亮。
- 4** **D.RANGE**: 当激活了动态范围压缩功能时，点亮。请参看第 23 页说明调整动态范围压缩。
- 5** **COAX**: 当声源信号是通过 COAXIAL 端子输入的数字信号时，点亮。
- 6** **OPT**: 当声源信号是通过 OPTICAL 端子输入的数字信号时，点亮。
- 7** **播放声道指示灯**: 字母点亮以示正在播放的声道。  
L (前左)，R (前右)，C (中央 (单耳声))，SL (环绕声左)，SR (环绕声右)，S (环绕声 (单耳声或由专业逻辑处理获得的环绕声成分))，SW (副低音扬声器)  
字母周围箱点亮以示用於播放该声道的扬声器。
- 8** **((LFE))**: 当播放含有 LFE (低频效果) 频道的光盘时，点亮以及当实际再现 LFE 频道信号声时，文字下面带条点亮以指示电平。因为 LFE 信号并不录在输入信号的所有部分，故在播放中，指示将有起伏 (也可能关掉)。
- 9** **SLEEP (睡眠)**: 当激活了睡眠定时器时，点亮。
- 10** **SP.OFF (扬声器关掉)**: 当接插了头戴耳机时，点亮。

## 定制声场

利用调整环绕声和电平参数和前，中央和环绕声扬声器的电平，便能定制一个适合您欣赏环境条件的声场。

一旦定制成的声场，即被一直存储於指定的存储器中（除非放大器的电源线被拔下大约经两星期）。但，只要给参数新作一个调整，便可随时改变定制声场。

关于各声场中可利用的参数，请参看第 30 页的表。

### 为获得最佳的多频道环绕声效果

要定制声场之前，请根据从第 13 页起的“多声道环绕声的调定”所说明方法定位好扬声器并作好各项调定操作。

### 调整电平参数

LEVEL 菜单含有可用于调整各扬声器的平衡和音量的参数。设定内容将应用于所有的声场。

- 1** 开始播放用多声道环绕声编码的节目信号源。
- 2** 按 LEVEL。  
按钮即点亮并显示第一个参数。
- 3** 按游标按钮（ $\wedge$  或  $\vee$ ）以选择所要调整的参数。
- 4** 按 + 或 - 以选择所要设定项。  
即自动地存入设定。

### 初始设定

参数	初始设定
FRONT BALANCE*	BALANCE
SURR BALANCE*	BALANCE
CENTER LEVEL*	CTR 0 dB
SURR LEVEL*	SURR 0 dB
SUB WOOFER LEVEL*	S.W. 0 dB
LFE MIX LEVEL	L.F.E. 0 dB
DYNAMIC RANGE COMP	COMP. OFF

\* 这些参数能分别调整用於 MULTI CH IN。

#### 前平衡 (◀ ▶)

用於调整前左和前右扬声器间的平衡。

#### 环绕声平衡 (↻ ↻)

用於调整环绕声左和环绕声右扬声器间的平衡。

#### 中央电平 (◀ ▶)

用於调整中央扬声器的电平。

#### 环绕声电平 (↻ ↻)

用於调整环绕声左和环绕声右扬声器的电平。

#### 副低音扬声器电平 (↻ ↻)

用於调整副低音扬声器的电平。

#### 低频效果 (◀ ▶)

用於衰减从副低音扬声器输出的 LFE（低频效果）频道的电平，而不影响从前，中央或环绕声频道通过杜比数字（Dolby Digital）或 DTS 低音改向电路送到副低音扬声器的低频音的电平。

- “0 dB” 输出录音技师所决定混频电平的全 LFE 信号。
- 要静调（消音）来自副低音扬声器的 LFE 频道声时，请选“OFF”。但是，前，中央，或环绕声扬声器的低频音将根据在扬声器的调定中（第 16-17 页）所作各扬声器的设定而从副低音扬声器输出。

## 动态范围压缩 (D. RANGE)

用於压缩声迹的动态范围。在深夜里用小音量观赏电影片时，这项功能可能很有用处。最好利用“MAX”设定。

- 要再现无压缩声迹时，请选择“COMP. OFF”。
- 要再现录影技师指定动态范围的声迹时，请选择“COMP. STD”。
- 要用小步进压缩动态范围以完成所要的声音时，请选择“COMP. 0.1” – “COMP. 0.9”。
- 要再现动态范围的极显著的压缩效果时，请选择“COMP. MAX”。

### 注

动态范围压缩，只限於杜比数字的信号源才可能实施。

## 调整环绕声参数

SURR 菜单中含有可用于定制各种各样方式的现在声场的参数。设定内容能分别独立存储於各声场。

- 1** 开始播放用多声道环绕声编码的节目信号源。
- 2** 按 SURR。  
按钮点亮并显示第一个参数。
- 3** 按游标按钮 ( ^ 或 v ) 以选择要调整的参数。
- 4** 按 + 或 - 以选择所要设定项。  
即自动地存入设定。

## 初始设定

参数	初始设定
EFFECT LEVEL	(因声场而异)
WALL TYPE	WALL MID
REVERBERATION TIME	REVB. MID

### 效果电平 (EFFECT)

用於调整现在环绕声效果的“在场感”。

### 墙壁型 (WALL)

用於控制高频音电平。利用模拟软 (S) 或硬 (H) 墙以改造您的听赏环境的声音特性。中点表示中性墙 (木造的)。

### 交混回响 (REVERB)

用於控制厄雷反射的空间。模拟声学的较深 (L) 或较浅 (S) 房间。中点表示无调整的标准房间。

## 把定制的声场重调为工厂设定

- 1** 如果打开着电源，即请按 I/⏻ 以关掉电源。
- 2** 按下 SOUND FIELD + 并按 I/⏻。  
“S.F. CLR.” 即出现於显示器而所有声场都即被重调为原工厂设定。

## 使用睡眠定时器

可以设定放大器在指定的时刻自动地关掉电源。

在打开着电源时，按遥控器上的 SLEEP。

每次按了按钮，显示即循环改变如下：

2-00-00 → 1-30-00 → 1-00-00 →

0-30-00 → OFF（关掉）

指定了时间之后，显示即变暗淡。

### 要领

- 可以自由指定时间。按了 SLEEP 之后，可用放大器上的游标按钮（ $\wedge$  或  $\vee$ ）指定时间。睡眠定时器能在 1 分钟到 5 小时之间以 1 分钟间隔改变。1 分钟以下是以 1 秒为间隔。
- 要在放大器关掉电源之前检查剩余时间时，请按 SLEEP。剩余时间即出现於显示器。

## 利用 SET UP 按钮的调整

SET UP（调定）按钮可用於作如下的调整。

**1** 按 SET UP。

**2** 按游标按钮（ $\wedge$  或  $\vee$ ）以选择要调整的参数。

当您选择了 MULTI VI. 或 TUNER VI. 时，大约 2 秒后即显示器中出现 M (XXX) 或 T (XXX)。

**3** 按 + 或 - 以选择所要设定。

设定项即自动地被输入。

**4** 反复步骤 2 和 3 至全设定完如下参数。

### 初始设定

参数	初始设定
MULTI VI.	DVD
TUNER VI.	OFF

### ■ MULTI CH IN 视觉选择

用於指定和来自 MULTI CH INPUT 插孔的音频信号一起使用的视频输入。

### ■ TUNER 视觉选择

用於指定和来自 TUNER（调谐器）插孔的音频信号一起使用的视频输入。

# 使用前须注意

### 安全须知

万一有杂物或液体掉进机壳内时，须即拔下放大器电源线插头并找持有资格的人检查过以后才可以再操作使用。

### 电源须知

- 要操作机器之前，请先检查一下操作电压是否符合当地的电源电压。放大器的操作电压标示在背后的铭板上。
- 放大器只要保持接插在墙上电源插座，则即使关掉了机器的电源开关，仍然并未完全拆离 AC 电源（主电源）的。
- 如果长时间不要使用放大器时，一定请从墙上插座拔下放大器的电源线。要拔下 AC 电源线时，必须抓住插头拔下，不可拉著导线拔。
- 当必须更换 AC 电源线时，限找持有资格的维修店。

### 内积热须知

操作中，机器会生热，这不是故障。如果连续用大音量使用机器，机壳顶部，侧面和底面的温度都会升得相当高。为免於被烫伤，请不要接触机壳。

### 安置须知

- 放大器必须安装在具有适当通风的地方，防积热并能延长放大器的使用寿命。
- 不要把放大器放在靠近热源，或可直接照射到太阳，多尘或有机械性冲击的地方。
- 别在机壳顶上堆放任何东西以免堵住机器通风孔而引起故障。

### 操作须知

要连接别的组成机之前，一定请先关掉放大器电源并拔下电源插头。

### 清洁须知

请用软布微蘸湿温和的洗涤剂溶液擦拭清洁机壳，控制板和控制器。切不可使用任何类型的砂布，磨粉或如酒精，汽油等溶剂。

關於您的放大器如果仍有任何疑问或问题，就请洽问附近的 Sony 销售店。

## 故障探寻

使用放大器时，如果碰到如下困难，就请用此故障探寻指南试解决问题。也请参看第 18 页的“检查连接”以确认接线是否正确。如果仍不能解决问题，便请洽问附近的 Sony 销售店。

### 无论选那个组成机都无声音。

- 检查一下放大器和所有的组成机是否都打开了电源。
- 检查 MASTER VOLUME 控制是否被设定在“MIN”。
- 确认所有扬声器的导线都连接正确。
- 按 MUTE 以解除静调功能。
- 检查头戴耳机须不接插在 PHONES 插孔。如果接插着头戴耳机，扬声器便无声音。
- 检查放大器须不呈“示范模式”（参看第 2 页）。

### 指定的某组成机没有声音。

- 确认组成机是正确地连接在该组成机用的音频输入插孔。
- 确认连接用导线都完全插妥在放大器和组成机的插孔上。

[接下页](#)

## 故障探寻 (续)

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### 前扬声器的一个没有声音。

- 在 PHONES 插孔上连接一对头戴耳机以确认头戴耳机的输出声 (参看第 18 页)。如果头戴耳机也只有一个频道有声音, 便可能是组成机没有正确地连接到放大器上。请确认所有的导线都完全而正确地接插到放大器和组成机的插孔。如果头戴耳机的两频道都有声音, 便可能是前扬声器没正确地连接到放大器。请检查没有声音的一个前扬声器的连接。

---

### 没有声音或只听到极小的声音。

- 确认扬声器和组成机是否连接得稳固。
- 检查是否选对了放大器上的组成机。
- 确认没有连接着头戴耳机。
- 按 MUTING 以解除静音功能。
- 因为放大器过热, 致使热防护系统激活了 (显示器中将闪烁“OVERHEAT”)。请关掉放大器电源, 放置片刻, 然后再打开它的电源。
- 因为低阻抗或发生了短路, 而激活了过大电流防护系统, (显示器中将闪烁着“PROTECT”)。请关掉放大器的电源, 解决了短路问题并在大约 20 秒钟后, 再打开它的电源。

---

### 左, 右声音不平衡或相反。

- 检查扬声器和组成机是否连接得正确而稳固。
- 调整 LEVEL 菜单中的平衡参数。

---

### 有严重的哼声或噪声。

- 检查扬声器是否连接得稳固。
- 检查连接导线是否远离变压器或电动机, 并且至少离开电视机或荧光灯 3 米。
- 把电视机移离声频组成机。
- 插头和插孔都脏了。请用清洁布微蘸湿酒精擦拭。

---

### 中央扬声器没有声音。

- 确认是否打开了声场功能 (按 SOUND FIELD +/-)。
- 选择含有“CINEMA”或“VIRTUAL”文字的声场 (参看第 19-20 页)。
- 调整扬声器的电平 (参看第 17 页)。
- 确认中央扬声器的尺寸参数是否设定於“SMALL”或“LARGE” (参看第 16 页)。

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### 环绕声扬声器没有声音或声音极小。

- 确认是否打开了声场功能 (按 SOUND FIELD +/-)。
- 选择含有“CINEMA”或“VIRTUAL”文字的声场 (参看第 19-20 页)。
- 调整扬声器的电平 (参看第 17 页)。
- 确认环绕声扬声器的尺寸参数是否设定於“SMALL”或“LARGE” (参看第 16 页)。

---

### 有源复低音扬声器没有声音。

- 当选择 NORM. SP. 时, 一定请确认一下副低音扬声器是否设定於“S.W. YES” (第 17 页)。
- 检查须不是选择“2CH ST.” (参看第 20 页)。

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### 显示器中出现“PCM-kHz”。

- 取样频率大於 48 kHz。改变输入唱机设定为 48 kHz。

---

### 不能获得环绕声效果。

- 确认是否打开了声场功能 (按 SOUND FIELD +/-)。

---

### 电视机屏幕或监视器上的图像不清晰或没有图像。

- 在放大器上选择适当的功能。
- 把电视机设定於适当的输入模式。

---

### 遥控器不起作用。

- 遥控器必须指向放大器上的遥控传感器 。
  - 排除遥控器和放大器之间遥控通道上的任何障碍物。
  - 遥控器的电池如果变弱了就请两个都换新。
  - 确认遥控器上所选功能是否正确。
  - 遥控器是否设定为只能操作电视机。如果要操作放大器或别的组成机, 便须在使用前, 先用遥控器选择电视机以外的信号源或组成机。
-

## 清除放大器的存储器用的参考部分

要清除	请参看
全部所存储的设定	第 13 页
定制声场	第 23 页

## 规格

### 放大器部分

#### 功率输出

##### 立体声模式时的额定功率输出

(8 欧 1 kHz, 总谐波失真 0.3 %)

80 W + 80 W

#### 基准功率输出

(总谐波失真 0.3 %)

前<sup>1)</sup>: 80 W/每声道

中央<sup>1)</sup>: 80 W

环绕声<sup>1)</sup>: 80 W/每声道

1) 因声场设定和信号源的关系, 可能不输出声音。

#### 频率响应

MICRO SP.:

150 Hz – 20 kHz

0/-3 dB

150 Hz (6 dB/oct)

低频截止滤波器打开

(ON)

NORMAL SP.:

20 Hz – 20 kHz

+/-0.5 dB

#### 输入 (模拟)

灵敏度: 250 mV

阻抗: 50 千欧

信噪比<sup>2)</sup>: 80 dB

(A, 250 mV<sup>3)</sup>)

2) INPUT SHORT (输入短路)。

3) 权重网络, 输入电平。

#### 输入 (数字)

DVD (同轴)

灵敏度: -

阻抗: 75 欧

信噪比: 96 dB

(A, 20 kHz LPF)

TV, AUX (光频)

灵敏度: -

阻抗: -

信噪比: 96 dB

(A, 20 kHz LPF)

### 输出

FRONT L/R, CENTER, SURROUND L/R,

SUB WOOFER

电压: 2 V

阻抗: 1 千欧

### 视频 (录像) 部分

#### 输入

S 视频:

Y: 1 V<sub>p-p</sub>, 75 欧

C: 0.286 V<sub>p-p</sub>, 75 欧

#### 输出

S 视频:

Y: 1 V<sub>p-p</sub>, 75 欧

C: 0.286 V<sub>p-p</sub>, 75 欧

### 一般规格

#### 电源

220 V AC, 50/60 Hz

#### 电力消耗

98 W

#### 电力消耗 (备用模式中)

1.9 W

#### 尺寸

大约宽 430 × 高 83 × 纵

深 289 mm

含突起部分和控制器

#### 质量 (大约值)

3.1 kg

### 扬声器部分

#### SS-MSP1前, 中央和环绕声扬声器

#### 扬声器系统

全音频范围, 磁屏蔽

#### 扬声器单元

8 cm 锥型

#### 盒型

低音反射

#### 额定阻抗

8 欧

#### 功率使用容量

#### (最大输入功率)

100 W

#### 灵敏度电平

85 dB (1 W, 1 m)

#### 频率范围

160 Hz – 20,000 Hz

#### 尺寸

大约宽 92 × 高 133 × 纵

深 115 mm, 含前格栅

#### 质量

大约 1 kg

[接下页](#)

## 故障探寻 (续)

### SA-WMSP1 副低音扬声器

扬声器系统	有源副低音扬声器， 磁屏蔽
扬声器单元	低音扬声器：20 cm 锥形
盒型	声加载低音反射
连续 RMS 功率输出 (8 欧, 20 – 250 Hz)	50 W
再现频率范围	28 Hz – 200 Hz
高频截止频率	150 Hz
输入	LINE IN (输入管脚插 孔)
电源	220 V AC, 50/60 Hz
电力消耗	50 W
尺寸	大约宽 270 × 高 325 × 纵深 385 mm, 含前格 栅
质量	大约 10 kg

### 附带附件

- 遥控器 (1)
- R6 (AA, 3 号) 电池 (2)
- 扬声器
  - 前扬声器 (2)
  - 中央扬声器 (1)
  - 环绕扬声器 (2)
  - 副低音扬声器 (1)
- 扬声器导线 (5)
- 扬声器脚垫 (24)
- 同轴数字导线 (1)
- 单耳声声频导线 (1)

设计和规格有所变更时，恕不另行奉告。

## 使用 LEVEL, SURR 和 SET UP 按钮的设定一览表

可以利用 LEVEL, SURR 和 SET UP 按钮, 游标按钮和 +/- 按钮作各种各样的设定。下表表示这些按钮可作的设定。

按	按 $\wedge$ 或 $\vee$ 以选择	按 + 或 - 以选择	页次
LEVEL	FRONT BALANCE	L8 到 R8 (1 增量步进)	22
	SURR BALANCE	L8 到 R8 (1 增量步进)	
	CENTER LEVEL	-10 dB 到 +10 dB (1 dB 步进)	
	SURR LEVEL	-10 dB 到 +10 dB (1 dB 步进)	
	SUB WOOFER LEVEL	-10 dB 到 +10 dB (1 dB 步进)	
	LFE MIX LEVEL	OFF, -20 dB 到 0 dB (1 dB 步进)	
	DYNAMIC RANGE COMP	OFF, 0.1 到 0.9 (0.1 步进), STD, MAX	
SURR	EFFECT LEVEL	因声场而异 (16 段)	23
	WALL TYPE	S (8 到 1), MID, H (1 到 8) (1 增量步进)	
	REVERBERATION TYPE	S (8 到 1), MID, L (1 到 8) (1 增量步进)	
SET UP	  (FRONT)	LARGE, SMALL	14
	 (CENTER)	LARGE, SMALL, NO	
	  (SURR)	LARGE, SMALL, NO	
	 (SUB WOOFER)	S.W. YES, S.W. NO	
	  (FRONT) XX.X m	1.0 米 到 12.0 米 (0.1 米 步进)	
	 (CENTER) XX.X m	1.0 米 到 12.0 米 (0.1 米 步进)	
	  (SURR) XX.X m	1.0 米 到 12.0 米 (0.1 米 步进)	
	  (SURR) PL. XXX	PL. SIDE, PL. BEHD.	
	  (SURR) HGT. XXX	HGT. LOW, HGT. HIGH	
	MULTI VI.	TV, DVD, VIDEO, AUX, OFF	
TUNER VI.	TV, DVD, VIDEO, AUX, OFF		

## 各声场用可调整参数

所调整的 LEVEL 参数即提供给所有的声场。调整好的 SURR 参数即被存储於各声场中。

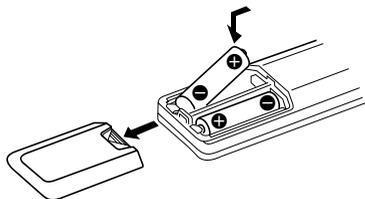
	LEVEL						
	FRONT BAL.	SURR BAL.	CENTER LEVEL	SURR LEVEL	SUB WOOFER LEVEL	LFE MIX	D.RANGE COMP.
2CH	●					●	●
A.F.D.	●	●	●	●	●	●	●
NORM.SURR.	●	●	●	●	●	●	●
STUDIO A	●	●	●	●	●	●	●
STUDIO B	●	●	●	●	●	●	●
STUDIO C	●	●	●	●	●	●	●
V.M.DIMENS.	●	●	●	●	●	●	●
V.SEMI M.D.	●		●		●	●	●
HALL	●	●	●	●	●	●	●
JAZZ	●	●	●	●	●	●	●
L.HOUSE	●	●	●	●	●	●	●
GAME	●	●	●	●	●	●	●
MULTI CH IN	●	●	●	●	●		

	SURR		
	EFFECT LEVEL	WALL TYPE	REVERB TIME
2CH			
A.F.D.			
NORM.SURR.			
STUDIO A	●		
STUDIO B	●		
STUDIO C	●		
V.M.DIMENS.			
V.SEMI M.D.			
HALL	●	●	●
JAZZ	●	●	●
L.HOUSE	●	●	●
GAME	●	●	●
MULTI CH IN			

## 使用您的遥控器之前

### 遥控器要装好电池

装入 R6 (AA, 3 号) 电池, 请注意电池的 + 和 - 极要对准电池室。当使用遥控器时, 须让它对准放大器上的遥控传感器 。



#### 要领

在普通使用条件下, 电池大约耐用6个月。当遥控器不再能控制放大器时, 即请换新全部电池。

#### 注

- 别把遥控器放置在太热或太潮湿的地方。
- 不要混用新旧电池。
- 别让遥控传感器直接照射到太阳或灯光装置。因为可能会发生故障。
- 如果长期不要用遥控器, 一定请取出里面电池以防因电池漏液而腐蚀损坏机器。

## 遥控器按钮说明

能用遥控器控制您系统中的各种组成机。下表表示各按钮的设定对象。

遥控器按钮	操作项	功能
SLEEP	放大器	激活 (打开) 睡眠功能和到自动关掉放大器电源的期间。
AV I/O	电视机/ 录像机/ CD 唱机/ DVD 放演机/ MD 座/ VCD 放演机/ LD 放演机/ DAT 座	打开或关掉声/视频组成机的电源。
I/O	放大器	打开或关掉放大器的电源。
VIDEO	放大器	看录像机。
DVD	放大器	看 DVD。
TV	放大器	看电视节目或卫星接收机。
AUX	放大器	听声频设备。
TUNER	放大器	听收音机节目。
MULTI CH	放大器	能听来自 MULTI CH INPUT 插孔的声音。
0-9	调谐器	在 DIRECT TUNING 或 MEMORY 模式当中, 利用 “SHIFT” 按钮选择调谐器预约电台数字输入。  CD 唱机/ MD 座/ VCD 放演机/ LD 放演机/ DAT 座  电视机/ 录像机/ 卫星接收机
>10	CD 唱机/ MD 座/ 磁带座/ LD 放演机/ VCD 放演机	选择超过 10 的曲号。

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## 遥控器按钮说明 (续)

遥控器按钮	操作项	功能
ENTER	电视机/ 录像机/ 卫星接收机/ 磁带座/ LD 放演机/ VCD 放演机/ MD 座/ DAT 座	用数字按钮选择了频道, 光盘或曲子之后, 按此按钮以输入数值。
SHIFT	调谐器	反复按此按钮以选择预约电台或调入预约电台用的存储页。
-/--	电视机	选择频道输入模式, 一位或两位数的。
D.TUNING	调谐器	模式中调谐器电台直接选键。
⏮/⏭	CD 唱机/ MD 座/ DVD 放演机/ LD 放演机/ VCD 放演机/ 磁带座/ 录像机/ DAT 座	跳越曲子。
⏪/⏩	CD 唱机/ DVD 放演机/ VCD 放演机/ MD 座/ LD 放演机/ 磁带座/ 录像机/ DAT 座	寻找曲子 (前进或后退)。
⏮	磁带座	快进绕或重绕。播放中, 当按了此按钮, 即将寻找径迹。
▶	CD 唱机/ MD 座/ 磁带座/ 录像机/ DVD 放演机/ VCD 放演机/ LD 放演机/ DAT 座	开始播放。

遥控器按钮	操作项	功能
⏸	CD 唱机/ MD 座/ 磁带座/ 录像机/ DVD 放演机/ VCD 放演机/ LD 放演机/ DAT 座	暂停播放或录音/像。(组成机呈录音/像备用模式时, 则开始录音/像。)
■	CD 唱机/ MD 座/ 磁带座/ 录像机/ DVD 放演机/ VCD 放演机/ LD 放演机/ DAT 座	停止播放。
POSITION*	电视机	改变小图像的位置。
SWAP*	电视机	调换大, 小图像。
DISC	CD 唱机	选择光盘 (大存储量的 CD 唱机为限)。
SUB CH +/-*	电视机	选择小图像的预约频道。
D.SKIP/CH/ PRESET +/-	调谐器 电视机/ 录像机/ 卫星接收机	扫描和选择预约电台。 选择预约频道。
	CD 唱机/ MD 座/ DVD 放演机/ VCD 放演机	跳越光盘 (多盘式换盘器为限)。
DISPLAY	电视机/ 录像机/ LD 放演机/ DVD 放演机/ VCD 放演机	选择显示于电视屏幕上的信息。
P IN P*	电视机	激活画中画功能。
JUMP	电视机	以前和现在频道的跳动开关。
WIDE	电视机	选择宽图像模式。

遥控器按钮	操作项	功能
ANT TV/VTR	录像机	选择来自天线端子的输出信号：电视信号或录像机节目。
TV/VIDEO	电视机	选择电视机的输入。
FM/AM	调谐器	选择波段。
A.F.D.	放大器	自动格式解码。
2CH/OFF	放大器	关掉声场或选择 2CH 模式。
MODE +/-	放大器	选择声场模式。
MUTING	放大器	静调来自放大器的声音。
TEST TONE	放大器	按此按钮以输出测试音。
MAIN MENU	放大器	选择放大器的调定模式。
MASTER VOL +/-	放大器	调整放大器的主音量。
MENU </>	放大器	选择菜单项目。
MENU +/-	放大器	调整或变更设定。
MENU	DVD 放演机	显示 DVD 菜单。
⇐/⇨/⇩/⇧	DVD 放演机	选择菜单项目。
ENTER	DVD 放演机	输入选择项。
RETURN	DVD 放演机	回到以前菜单或退出菜单。
TITLE	DVD 放演机	显示 DVD 标题。

\* 拥有画中画功能的 Sony 电视机为限。

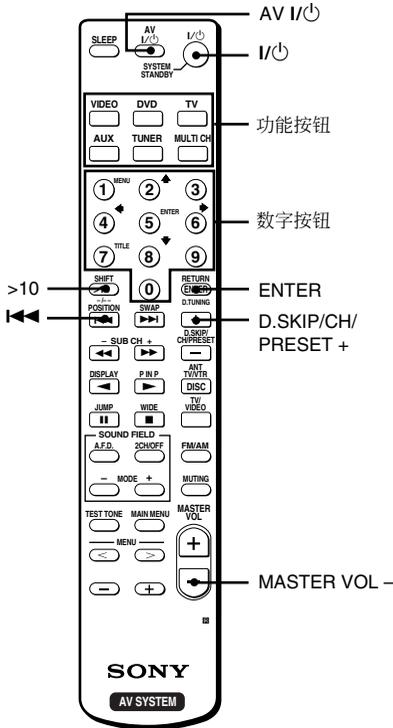
#### 注

- 根据放大器的型号，在本节里所述一部分功能，可能不起作用。
- 上面所述只为举例。

因此根据组成机，上述操作也可能不能实施的，或可能与所述的操作有异。

# 改变功能按钮的工厂设定

如果功能按钮的工厂设定不符合您的系统组成机，即可加以变更。例如，您有 MD 唱机和磁带座而没有 DVD 放演机便可以把 DVD 按钮指定为您的磁带座。



- 1 按下您要改变功能的功能按钮（例如，DVD）。
- 2 按您要指定於某功能按钮的组成机上的相当的按钮（例如，4 -磁带座）。指定下列按钮以选择功能：

要操作	请按
CD 唱机	1
DAT 座	2
MD 座	3
磁带座 A	4
磁带座 B	5
LD 放演机	6
录像机 (遥控器模式 VTR 1*)	7
录像机 (遥控器模式 VTR 2*)	8
录像机 (遥控器模式 VTR 3*)	9
电视机	0
DSS (信号卫星接收机)	>10
DVD 放演机	ENTER
VCD 放演机	◀◀
调谐器	D.SKIP/CH/PRESET +

\* Sony 录像机是用 VTR 1, 2 或 3 的设定操作的。这些设定分别适用於 Beta, 8mm 和 VHS。

现在您便可用 DVD 按钮去控制磁带座了。

要重调按钮为其工厂设定时  
请反复上述操作程序。

要把所有的功能按钮都重调为它们的工厂设定时  
请同时按 I/⏻, AV I/⏻ 和 MASTER VOL -。