

**Pioneer**

**HTP-071** | HOME CINEMA PACKAGE  
家庭劇院套裝

**VSX-321-K-P** | AUDIO/VIDEO MULTI-CHANNEL RECEIVER  
多聲道影音接收器

Operating Instructions  
操作手冊

## IMPORTANT



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

### CAUTION

**RISK OF ELECTRIC SHOCK  
DO NOT OPEN**

**CAUTION:**  
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



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

D3-4-2-1-1\_A1\_En

This product is for general household purposes. Any failure due to use for other than household purposes (such as long-term use for business purposes in a restaurant or use in a car or ship) and which requires repair will be charged for even during the warranty period.

K041\_A1\_En

### VENTILATION CAUTION

When installing this unit, make sure to leave space around the unit for ventilation to improve heat radiation (at least 20 cm at top, 10 cm at rear, and 10 cm at each side).

### WARNING

This equipment is not waterproof. To prevent a fire or shock hazard, do not place any container filled with liquid near this equipment (such as a vase or flower pot) or expose it to dripping, splashing, rain or moisture.

D3-4-2-1-3\_A1\_En

### WARNING

*Before plugging in for the first time, read the following section carefully.*

**The voltage of the available power supply differs according to country or region. Be sure that the power supply voltage of the area where this unit will be used meets the required voltage (e.g., 230 V or 120 V) written on the rear panel.**

D3-4-2-1-4\*\_A1\_En

### WARNING

To prevent a fire hazard, do not place any naked flame sources (such as a lighted candle) on the equipment.

D3-4-2-1-7a\_A1\_En

### Operating Environment

Operating environment temperature and humidity:  
+5 °C to +35 °C (+41 °F to +95 °F); less than 85 %RH  
(cooling vents not blocked)

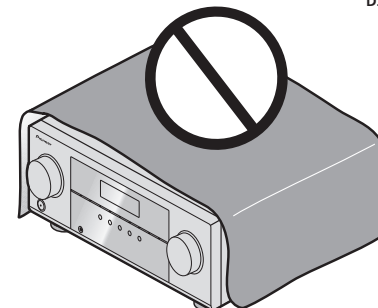
Do not install this unit in a poorly ventilated area, or in locations exposed to high humidity or direct sunlight (or strong artificial light)

D3-4-2-1-7c\*\_A1\_En

### WARNING

Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the product, and to protect it from overheating. To prevent fire hazard, the openings should never be blocked or covered with items (such as newspapers, table-cloths, curtains) or by operating the equipment on thick carpet or a bed.

D3-4-2-1-7b\*\_A1\_En



If the AC plug of this unit does not match the AC outlet you want to use, the plug must be removed and appropriate one fitted. Replacement and mounting of an AC plug on the power supply cord of this unit should be performed only by qualified service personnel. If connected to an AC outlet, the cut-off plug can cause severe electrical shock. Make sure it is properly disposed of after removal. The equipment should be disconnected by removing the mains plug from the wall socket when left unused for a long period of time (for example, when on vacation).

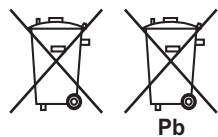
D3-4-2-2-1a\_A1\_En

**CAUTION**

The **⏻STANDBY/ON** switch on this unit will not completely shut off all power from the AC outlet. Since the power cord serves as the main disconnect device for the unit, you will need to unplug it from the AC outlet to shut down all power. Therefore, make sure the unit has been installed so that the power cord can be easily unplugged from the AC outlet in case of an accident. To avoid fire hazard, the power cord should also be unplugged from the AC outlet when left unused for a long period of time (for example, when on vacation).

D3-4-2-2-2a\*\_A1\_En

(Symbol examples for batteries)



These symbols are only valid in the European Union.

K058c\_A1\_En

Thank you for buying this Pioneer product. Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.

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# Before you start

## Checking what's in the box

Please check that you've received the following supplied accessories:

- Remote control
- AAA size IEC R03 dry cell batteries (to confirm system operation) x2
- AM loop antenna
- FM wire antenna
- Power cord
- These operating instructions

## Installing the receiver

- When installing this unit, make sure to put it on a level and stable surface.

Don't install it on the following places:

- on a color TV (the screen may distort)
- near a cassette deck (or close to a device that gives off a magnetic field). This may interfere with the sound.
- in direct sunlight
- in damp or wet areas
- in extremely hot or cold areas
- in places where there is vibration or other movement
- in places that are very dusty
- in places that have hot fumes or oils (such as a kitchen)

# Flow of settings on the receiver

The unit is a full-fledged AV receiver equipped with an abundance of functions and terminals. It can be used easily after following the procedure below to make the connections and settings.

*The colors of the steps indicate the following:*

### Required setting item

### Setting to be made as necessary

#### 1 Connecting the speakers

Where you place the speakers will have a big effect on the sound.

- Placing the speakers (page 10)
- Connecting the speakers (page 11)

#### 2 Connecting the components

For surround sound, you'll want to hook up using a digital connection from the Blu-ray Disc/DVD player to the receiver.

- About video outputs connection (page 13)
- Connecting a TV and playback components (page 14)
- Connecting antennas (page 15)
- Plugging in the receiver (page 16)

#### 3 Power On

Make sure you've set the video input on your TV to this receiver. Check the manual that came with the TV if you don't know how to do this.

#### 4 Making the initial settings according to the region and environment in which you live

- Changing the radio frequency step (page 19)

#### 5 The FL Demo Mode menu (page 26)

*(When you don't want the demo display to show on the front panel display.)*

#### Using the Audio Return Channel function (page 27)

*(When the connected TV supports the HDMI Audio Return Channel function.)*

#### 6 Playing a source (page 17)

- Selecting the audio input signal (page 17)
- Choosing the listening mode (page 21)

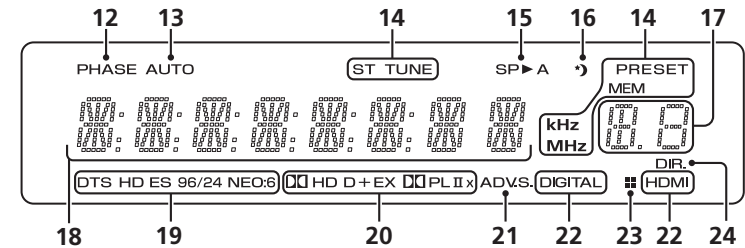
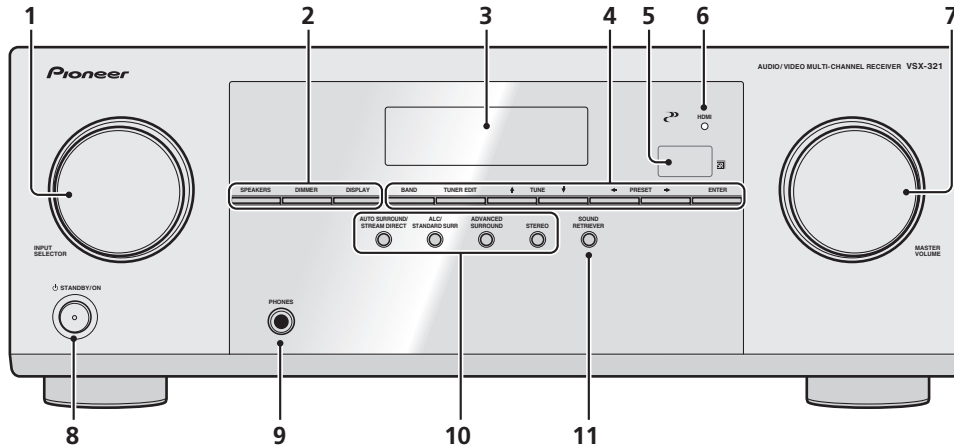
#### 7 Adjusting the sound as desired

- Using the Sound Retriever (page 22)
- Better sound using Phase Control (page 22)
- Using surround back channel processing (page 23)
- Setting the Up Mix function (page 23)
- Setting the Audio options (page 23)
- The Speaker Setup menu (page 25)

## Chapter 1:

## Controls and displays

## Front panel

**1 INPUT SELECTOR dial**

Selects an input source (page 17).

**2 Receiver control buttons**

**SPEAKERS** – Use to change the speaker system on or off. When the **SP OFF** is selected, no sound is output from the speakers connected to this receiver.

**DIMMER** – Dims or brightens the display. The brightness can be controlled in four steps.

**DISPLAY** – Switches the display of this unit. The listening mode, sound volume or input name can be checked by selecting an input source.

**3 Character display**

See *Display* on page 7.

**4 Tuner control buttons**

**BAND** – Switches between AM, FM ST (stereo) and FM MONO radio bands (page 18).

**TUNER EDIT** – Use with **TUNE**  $\uparrow/\downarrow$ , **PRESET**  $\leftarrow/\rightarrow$  and **ENTER** to memorize and name stations for recall (page 18).

**TUNE**  $\uparrow/\downarrow$  – Used to find radio frequencies (page 18).

**PRESET**  $\leftarrow/\rightarrow$  – Use to select preset radio stations (page 19).

**5 Remote sensor**

Receives the signals from the remote control (see *Operating range of remote control* on page 9).

**6 HDMI indicator**

Blinks when connecting an HDMI-equipped component; lights when the component is connected (page 14).

**7 MASTER VOLUME dial****8  $\odot$  STANDBY/ON****9 PHONES jack**

Use to connect headphones. When the headphones are connected, there is no sound output from the speakers. The listening mode when the sound is heard from the headphone can be selected only from **PHONES SURR**, **STEREO** or **STEREO ALC** mode.

**10 Listening mode buttons**

**AUTO SURROUND/STREAM DIRECT** – Switches between Auto surround mode (page 21) and Stream Direct playback (page 22).

**ALC/STANDARD SURR** – Press for standard decoding and to switch between the modes of  $\square\square$  Pro Logic II,  $\square\square$  Pro Logic IIx and NEO:6, and the Auto level control stereo mode (page 21).

**ADVANCED SURROUND** – Switches between the various surround modes (page 22).

**STEREO** – Press to select stereo playback (page 21).

## 11 SOUND RETRIEVER

Press to restore CD quality sound to compressed audio sources (page 22).

### Display

#### 12 PHASE

Lights when the Phase Control is switched on (page 22).

#### 13 AUTO

Lights when the Auto Surround feature is switched on (page 21).

#### 14 Tuner indicators

**ST** – Lights when a stereo FM broadcast is being received in auto stereo mode (page 18).

**TUNE** – Lights when a normal broadcast channel.

**PRESET** – Shows when a preset radio station is registered or called.

**MEM** – Blinks when a radio station is registered.

**kHz/MHz** – Lights when the character display is showing the currently received AM/FM broadcast frequency.

#### 15 Speaker indicators

Shows if the speaker system is on or not (page 6).

**SP▶A** means the speakers are switched on.

**SP▶** means the speakers are switched off.

#### 16 Sleep timer indicator

Lights when the receiver is in sleep mode (page 8).

#### 17 PRESET information or input signal indicator

Shows the preset number of the tuner or the input signal type, etc.

#### 18 Character display

Displays various system information.

#### 19 DTS indicators

**DTS** – Lights when a source with DTS encoded audio signals is detected.

**HD** – Lights when a source with DTS-EXPRESS or DTS-HD encoded audio signals is detected.

**ES** – Lights to indicate DTS-ES decoding.

**96/24** – Lights when a source with DTS 96/24 encoded audio signals is detected.

**NEO:6** – When one of the NEO:6 modes of the receiver is on, this lights to indicate NEO:6 processing (page 21).

#### 20 Dolby Digital indicators

**DD** – Lights when a Dolby Digital encoded signal is detected.

**DD+** – Lights when a source with Dolby Digital Plus encoded audio signals is detected.

**DDHD** – Lights when a source with Dolby TrueHD encoded audio signals is detected.

**EX** – Lights to indicate Dolby Digital EX decoding.

**DDPLII(x)** – Lights to indicate **DD** Pro Logic II/**DD** Pro Logic IIx decoding (see *Listening in surround sound* on page 21 for more on this).

#### 21 ADV.S.

Lights when one of the Advanced Surround modes has been selected (see *Using the Advanced surround* on page 22 for more on this).

#### 22 SIGNAL SELECT indicators

**DIGITAL** – Lights when a digital audio signal is selected. Blinks when a digital audio signal is selected and selected audio input is not provided.

**HDMI** – Lights when an HDMI signal is selected. Blinks when an HDMI signal is selected and selected HDMI input is not provided.

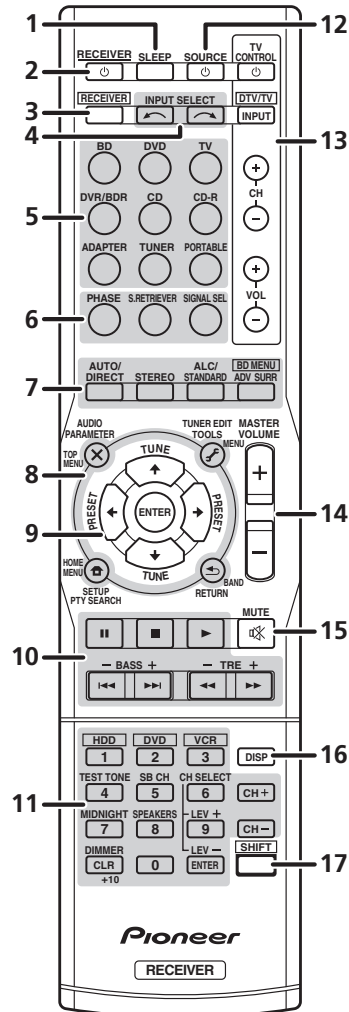
#### 23 Up Mix/DIMMER indicator

Lights when the Up Mix function is set to **ON** (page 23). Also, lights when DIMMER is set to off.

#### 24 DIR.

Lights when the **DIRECT** or **PURE DIRECT** mode is switched on (page 22).

## Remote control



As for operating other devices, the remote control codes for the Pioneer products are preset. The settings cannot be changed.

**1 SLEEP**

Press to change the amount of time before the receiver switches into standby (**30 min – 60 min – 90 min – Off**). You can check the remaining sleep time at any time by pressing **SLEEP** once.

**2 RECEIVER**

Switches the receiver between standby and on.

**3 RECEIVER**

Switches the remote to control the receiver (used to select the white commands above the number buttons (**MIDNIGHT**, etc)). Also use this button to set up surround sound (page 25) or Audio parameters (page 23).

**4 INPUT SELECT**

Use to select the input source (page 17).

**5 Input function buttons**

Use to select the input source to this receiver (page 17). This will enable you to control other Pioneer components with the remote control.

- **ADAPTER, PORTABLE** button is not used with this receiver.

**6 Receiver control buttons**

**PHASE** – Press to switch on/off Phase Control (page 22).

**S.RETRIEVER** – Press to restore CD quality sound to compressed audio sources (page 22).

**SIGNAL SEL** – Press to select the audio input signal of the component to play back (page 17).

**7 Listening mode buttons**

**AUTO/DIRECT** – Switches between Auto surround mode (page 21) and Stream Direct playback (page 22).

**STEREO** – Press to select stereo playback (page 21).

**ALC/STANDARD** – Press for standard decoding and to switch between the modes of **PRO LOGIC II**, **PRO LOGIC Ix** and **NEO:6**, and the Auto level control stereo mode (page 21).

**ADV SURR** – Switches between the various surround modes (page 22).

Press **BD** first to access:

**BD MENU\*** – Displays the disc menu of Blu-ray Discs.

**8 System Setup and component control buttons**

The following button controls can be accessed after you have selected the corresponding input function button (**BD, DVD, etc.**).

Press **RECEIVER** first to access:

**AUDIO PARAMETER** – Use to access the Audio options (page 23).

**SETUP** – Press to access the System Setup menu (page 25).

**RETURN** – Confirm and exit the current menu screen.

Press **BD, DVD** or **DVR/BDR** first to access:

**TOP MENU** – Displays the disc 'top' menu of a Blu-ray Disc/DVD.

**HOME MENU** – Displays the HOME MENU screen.

**RETURN** – Confirm and exit the current menu screen.

**MENU** – Displays the TOOLS menu of Blu-ray Disc player.

Press **TUNER** first to access:

**TUNER EDIT** – Memorizes stations for recall (page 18), also used to change the name (page 19).

**BAND** – Switches between AM, FM ST (stereo) and FM MONO radio bands (page 18).

**9 TUNE, PRESET, ENTER**

Use the arrow buttons when setting up your surround sound system (page 25). Also used to control Blu-ray Disc/DVD menus/options.

Use **TUNE** **UP/DOWN** can be used to find radio frequencies and **PRESET** **LEFT/RIGHT** can be used to select preset radio stations (page 19).

**10 Component control buttons**

The main buttons (**▶, ■, etc.**) are used to control a component after you have selected it using the input function buttons.

The controls above these buttons can be accessed after you have selected the corresponding input function button (**BD, DVD, DVR/BDR** and **CD**). These buttons also function as described below.



Press **RECEIVER** first to access:

**BASS +/-, TRE -/+** – Use to adjust Bass or Treble.

- These controls are disabled when the listening mode is set to **DIRECT** or **PURE DIRECT**.
- When the front speaker is set at **SMALL** in the Speaker Setting and the Crossover Network is set above 150 Hz, the subwoofer channel level will be adjusted by pressing **BASS +/-** (page 25).

### 11 Number buttons and other component controls

Use the number buttons to directly select a radio frequency (page 18) or the tracks on a CD, etc. There are other buttons that can be accessed after **RECEIVER** is pressed. (For example **MIDNIGHT**, etc.)

**HDD\*, DVD\*, VCR\*** – These buttons switch between the hard disk, DVD and VCR controls for HDD/DVD/VCR recorders.

**SB CH** – Press to select **ON**, **AUTO** or **OFF** the surround back channel (page 23).

**CH SELECT** – Press repeatedly to select a channel, then use **LEV +/-** to adjust the level (page 26).

**LEV +/-** – Use to adjust the channel level.

**MIDNIGHT** – Switches to Midnight or Loudness listening (page 23).

**SPEAKERS** – Use to change the speaker system on or off. When the **SP OFF** is selected, no sound is output from the speakers connected to this receiver.

**DIMMER** – Dims or brightens the display. The brightness can be controlled in four steps.

### 12 $\phi$ SOURCE

Turns on or off the power of the Pioneer DVD/DVR units when **BD**, **DVD**, **DVR/BDR** or **CD** is selected using the input function buttons.

### 13 TV CONTROL buttons

These buttons can control only be used with Pioneer TVs.

$\phi$  – Use to turn on/off the power of the TV.

**INPUT** – Use to select the TV input signal.

**CH +/-** – Use to select channels.

**VOL +/-** – Use to adjust the volume on your TV.

**DTV/TV\*** – Switches between the DTV and analog TV input modes for Pioneer TVs.

### 14 MASTER VOLUME +/-

Use to set the listening volume.

### 15 MUTE

Mutes/unmutes the sound.

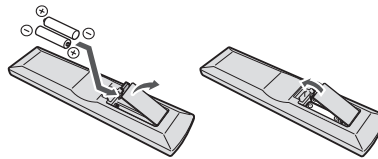
### 16 DISP

Switches the display of this unit. The listening mode, sound volume or input name can be checked by selecting an input source.

### 17 SHIFT

Press to access the 'boxed' commands (above the buttons) on the remote. These buttons are marked with an asterisk (\*) in this section.

## Loading the batteries



The batteries included with the unit are to check initial operations; they may not last over a long period. We recommend using alkaline batteries that have a longer life.

### **CAUTION**

- Incorrect use of batteries may result in such hazards as leakage and bursting. Observe the following precautions:
  - Never use new and old batteries together.
  - Insert the plus and minus sides of the batteries properly according to the marks in the battery case.
  - Batteries with the same shape may have different voltages. Do not use different batteries together.
  - When disposing of used batteries, please comply with governmental regulations or environmental public instruction's rules that apply in your country or area.
  - Do not use or store batteries in direct sunlight or other excessively hot place, such as inside a car or near a heater. This can cause batteries to leak, overheat, explode or catch fire. It can also reduce the life or performance of batteries.

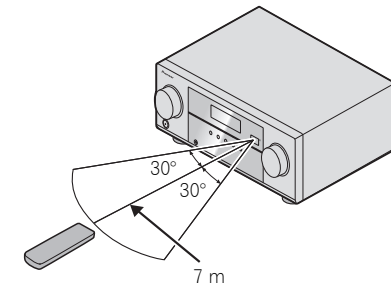
## WARNING

Store the batteries out of the reach of children and infants. If accidentally swallowed, contact a doctor immediately.

## Operating range of remote control

The remote control may not work properly if:

- There are obstacles between the remote control and the receiver's remote sensor.
- Direct sunlight or fluorescent light is shining onto the remote sensor.
- The receiver is located near a device that is emitting infrared rays.
- The receiver is operated simultaneously with another infrared remote control unit.



## Chapter 2:

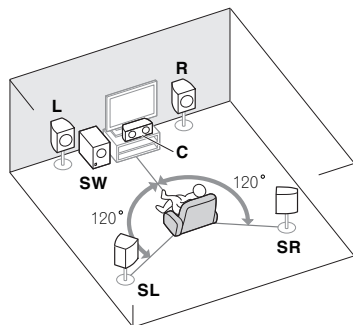
## Connecting your equipment

## Placing the speakers

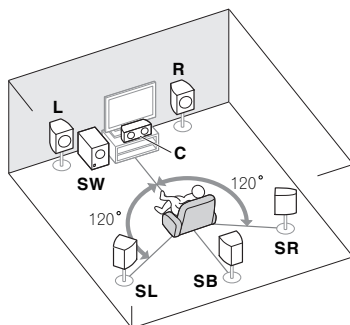
By connecting the left and right front speakers (**L/R**), the center speaker (**C**), the left and right surround speakers (**SL/SR**), and the subwoofer (**SW**), a 5.1 ch surround system can be enjoyed. Further, by using an external amplifier, you can connect the left and right surround back speakers (**SBL/SBR**) to boost your system up to a 7.1 ch surround system.

- You can also connect one surround back speaker (**SB**) and enjoy a 6.1 ch surround system. To achieve the best possible surround sound, install your speakers as shown below.

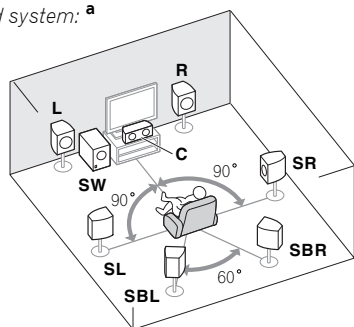
5.1 channel surround system:



6.1 channel surround system: <sup>a</sup>



7.1 channel surround system: <sup>a</sup>



- a. This layout is available only when the additional amplifier is connected to the unit and the surround back speakers are connected to the amplifier. For details, see *Connect the surround back speakers* on page 11.

## Hints on the speaker placement

Where you put your speakers in the room has a big effect on the quality of the sound. The following guidelines should help you to get the best sound from your system.

- The subwoofer can be placed on the floor. Ideally, the other speakers should be at about ear-level when you're listening to them. Putting the speakers on the floor (except the subwoofer), or mounting them very high on a wall is not recommended.
- For the best stereo effect, place the front speakers 2 m to 3 m apart, at equal distance from the TV.
- If you're going to place speakers around your CRT TV, use shielded speakers or place the speakers at a sufficient distance from your CRT TV.
- If you're using a center speaker, place the front speakers at a wider angle. If not, place them at a narrower angle.
- Place the center speaker above or below the TV so that the sound of the center channel is localized at the TV screen. Also, make sure the center speaker does not cross the line formed by the leading edge of the front left and right speakers.
- It is best to angle the speakers towards the listening position. The angle depends on the size of the room. Use less of an angle for bigger rooms.
- Surround and surround back speakers should be positioned 60 cm to 90 cm higher than your ears and tilted slight downward. Make sure the speakers don't face each other. For DVD-Audio, the speakers should be more directly behind the listener than for home theater playback.
- If the surround speakers cannot be set directly to the side of the listening position with a 7.1-channel system, the surround effect can be enhanced by turning off the Up Mix function (see *Setting the Up Mix function* on page 23).
- Try not to place the surround speakers farther away from the listening position than the front and center speakers. Doing so can weaken the surround sound effect.

**CAUTION**

- Make sure that all speakers are securely installed. This not only improves sound quality, but also reduces the risk of damage or injury resulting from speakers being knocked over or falling in the event of external shocks such as earthquakes.

**Important**

- To connect the surround back speakers, an additional amplifier is required. Connect the additional amplifier to the **SURR BACK PRE OUT** outputs of this unit and connect the surround back speakers to the additional amplifier (see *Connect the surround back speakers* on page 11).

## Connecting the speakers

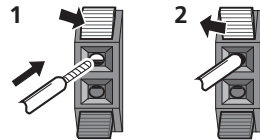
The receiver will work with just two stereo speakers (the front speakers in the diagram) but using at least three speakers is recommended, and a complete setup is best for surround sound.

Make sure you connect the speaker on the right to the right (R) terminal and the speaker on the left to the left (L) terminal. Also make sure the positive and negative (+/-) terminals on the receiver match those on the speakers.

*Be sure to complete all connections before connecting this unit to the AC power source.*

## Bare wire connections

1 Push open the tabs and insert exposed wire.



2 Release the tabs.

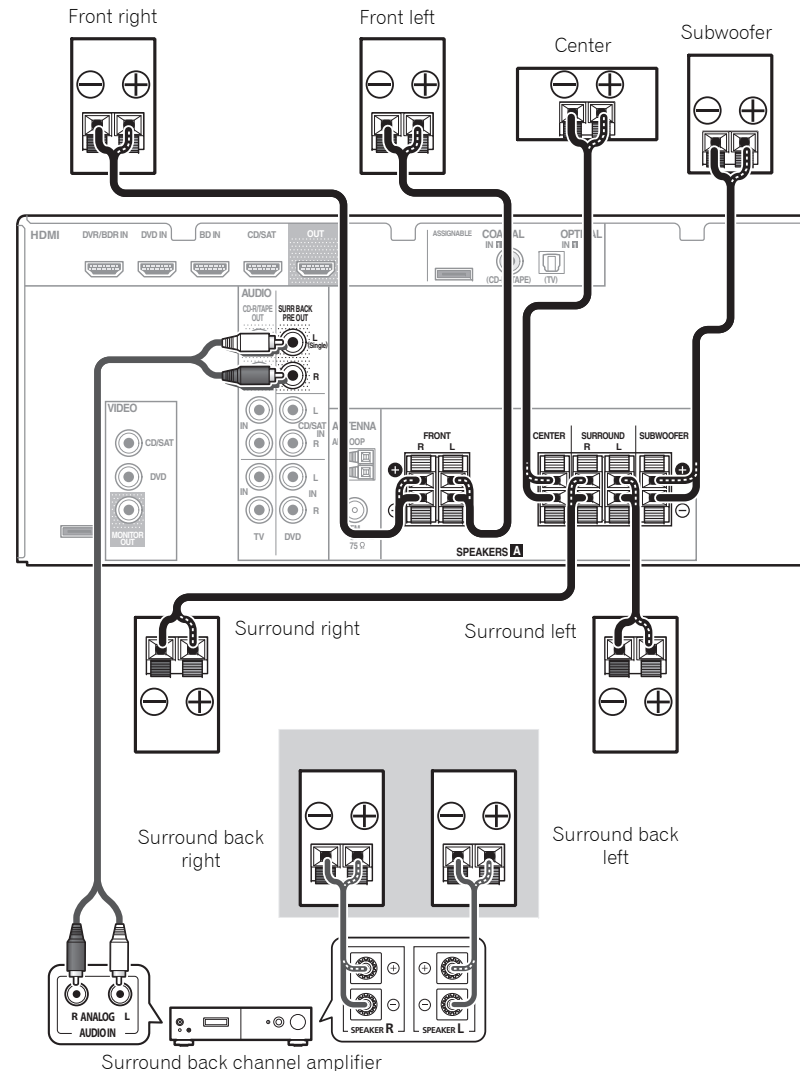
### CAUTION

- These speaker terminals carry **HAZARDOUS LIVE voltage**. To prevent the risk of electric shock when connecting or disconnecting the speaker cables, disconnect the power cord before touching any uninsulated parts.
- Make sure that all the bare speaker wire is inserted fully into the speaker terminal. If any of the bare speaker wire touches the back panel it may cause the power to cut off as a safety measure.

## Connect the surround back speakers

Connect the **SURR BACK PRE OUT** outputs of the unit and additional amplifier to add a surround back speaker.

- You can use the additional amplifier on the surround back channel pre-outs for a single speaker as well. In this case plug the amplifier into the left (L (Single)) terminal only.



## Making cable connections

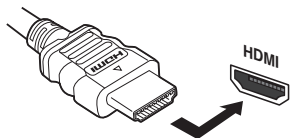
Make sure not to bend the cables over the top of this unit. If this happens, the magnetic field produced by the transformers in this unit may cause a humming noise from the speakers.

### Important

- Before making or changing connections, switch off the power and disconnect the power cord from the AC outlet.
- Before unplugging the power cord, switch the power into standby.

## HDMI cables

Both video and sound signals can be transmitted simultaneously with one cable. If connecting the player and the TV via this receiver, for both connections, use HDMI cables.



Be careful to connect the terminal in the proper direction.

### Note

- Set the HDMI parameter in *Setting the Audio options* on page 23 to **THRU** (THROUGH) and set the input signal in *Selecting the audio input signal* on page 17 to **HDMI**, if you want to hear HDMI audio output from your TV (no sound will be heard from this receiver).
- If the video signal does not appear on your TV, try adjusting the resolution settings on your component or display. Note that some components (such as video game units) have resolutions that may not be displayed. In this case, use a (analog) composite connection.
- When the video signal from the HDMI is 480i, 480p, 576i or 576p, Multi Ch PCM sound and HD sound cannot be received.

## About HDMI

The HDMI connection transfers uncompressed digital video, as well as almost every kind of digital audio that the connected component is compatible with, including DVD-Video, DVD-Audio, Dolby Digital Plus, Dolby TrueHD, DTS-HD Master Audio (see below for limitations), Video CD/Super VCD and CD.

This receiver incorporates High-Definition Multimedia Interface (HDMI<sup>®</sup>) technology.

This receiver supports the functions described below through HDMI connections.

- Digital transfer of uncompressed video (contents protected by HDCP (1080p/24, 1080p/60, etc.))
- 3D signal transfer
- Deep Color signal transfer
- x.v.Color signal transfer
- Audio Return Channel (see *ARC (Audio Return Channel) function* on page 27)
- Input of multi-channel linear PCM digital audio signals (192 kHz or less) for up to 8 channels
- Input of the following digital audio formats:
  - Dolby Digital, Dolby Digital Plus, DTS, High bitrate audio (Dolby TrueHD, DTS-HD Master Audio), DVD-Audio, CD, Video CD, Super VCD.

### Note

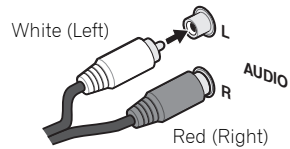
- Use a High Speed HDMI<sup>®</sup> cable. If HDMI cable other than a High Speed HDMI<sup>®</sup> cable is used, it may not work properly.
- When an HDMI cable with a built-in equalizer is connected, it may not operate properly.
- 3D, Deep Color, x.v.Color signal transfer and Audio Return Channel are only possible when connected to a compatible component.
- HDMI format digital audio transmissions require a longer time to be recognized. Due to this, interruption in the audio may occur when switching between audio formats or beginning playback.
- Turning on/off the device connected to this unit's HDMI OUT terminal during playback, or disconnecting/connecting the HDMI cable during playback, may cause noise or interrupted audio.

*HDMI, the HDMI Logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing, LLC in the United States and other countries.*

*"x.v.Color" and x.v.Color are trademarks of Sony Corporation.*

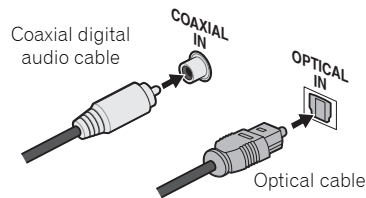
## Analog audio cables

Use stereo RCA phono cables to connect analog audio components. These cables are typically red and white, and you should connect the red plugs to R (right) terminals and white plugs to L (left) terminals.



## Digital audio cables

Commercially available coaxial digital audio cables or optical cables should be used to connect digital components to this receiver.



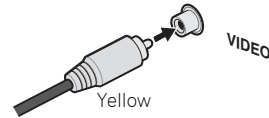
### Note

- When connecting optical cables, be careful when inserting the plug not to damage the shutter protecting the optical socket.
- When storing optical cable, coil loosely. The cable may be damaged if bent around sharp corners.
- You can also use a standard RCA video cable for coaxial digital connections.

## Video cables

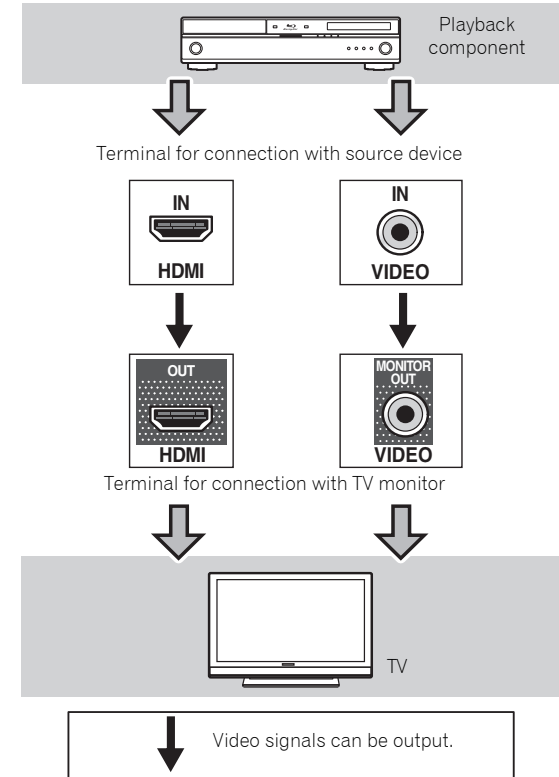
### Standard RCA video cables

These cables are the most common type of video connection and are used to connect to the composite video terminals. The yellow plugs distinguish them from cables for audio.



## About video outputs connection

This receiver is not loaded with a video converter. When you use HDMI cables for connecting to the input device, the same cables should be used for connecting to the TV. The signals input from the analog (composite) video inputs of this unit will not be output from the **HDMI OUT**.

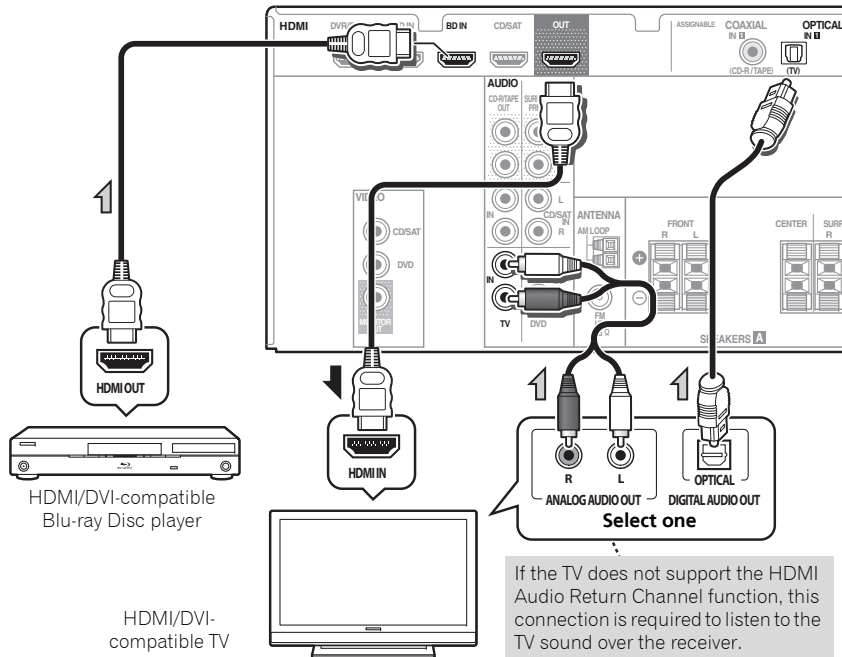


## Connecting a TV and playback components

### Connecting using HDMI

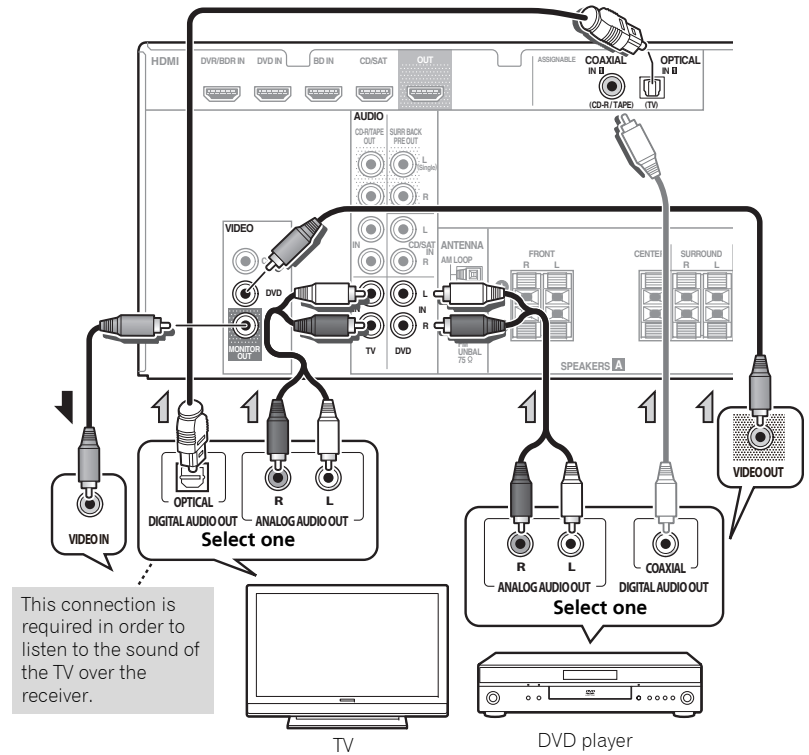
If you have an HDMI or DVI (with HDCP) equipped component (Blu-ray Disc player, etc.), you can connect it to this receiver using a commercially available HDMI cable.

- The following connection/setting is required to listen to the sound of the TV over this receiver.
  - If the TV does not support the HDMI Audio Return Channel function, connect the receiver and TV with audio cables (as shown).
  - If the TV supports the HDMI Audio Return Channel function, the sound of the TV is input to the receiver via the HDMI terminal, so there is no need to connect an audio cable. In this case, set **ARC** at **HDMI SET** to **ON** (see *ARC Setup* on page 27).



### Connecting your component with no HDMI terminal

This diagram shows connections of a TV and DVD player (or other playback component) with no HDMI terminal to the receiver.



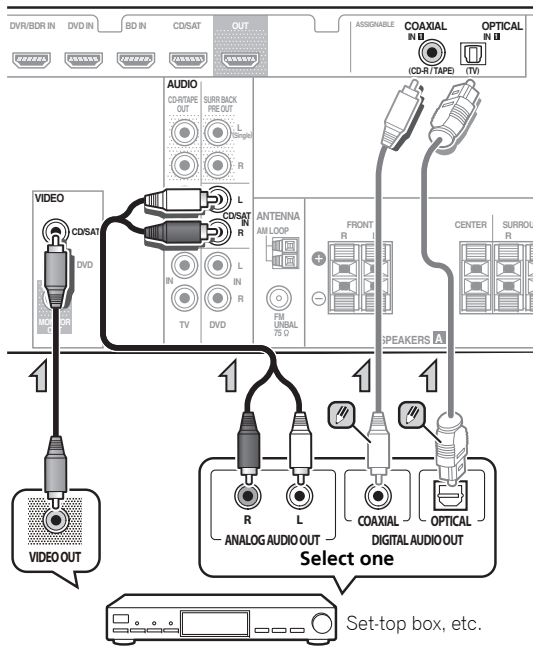
#### Note

- In order to listen to the audio from the DVD player that is connected to this receiver using a coaxial cable, first, switch to the **DVD** input, then press **SIGNAL SEL** to choose the audio signal **C1** (COAXIAL1) (see *Selecting the audio input signal* on page 17).

## Connecting a satellite receiver or other digital set-top box

Satellite and cable receivers, and terrestrial digital TV tuners are all examples of so-called 'set-top boxes'.

- If the set-top box or video component also has an HDMI output, you can connect this too. See *Connecting using HDMI* on page 14 for more on this.



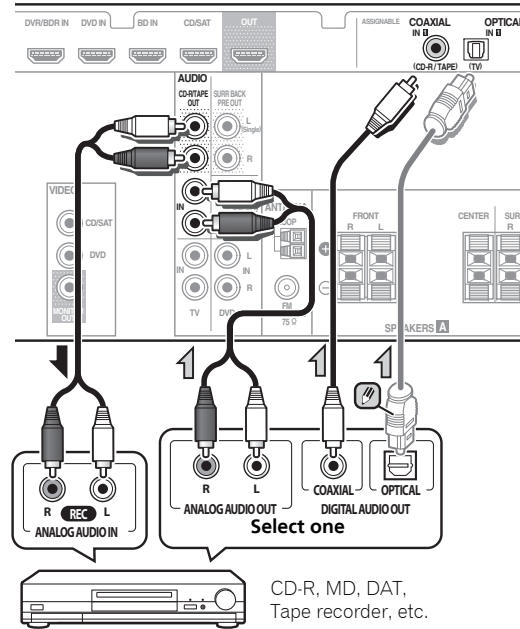
### Note

- In order to listen to the audio from the source component that is connected to this receiver using a coaxial cable or an optical cable, first, switch to the **CD/SAT**, then press **SIGNAL SEL** to choose the audio signal **S1** (COAXIAL1) or **O1** (OPTICAL1) (see *Selecting the audio input signal* on page 17).

## Connecting other audio components

The number and kind of connections depends on the kind of component you're connecting. Follow the steps below to connect a CD-R, MD, DAT, tape recorder or other audio component.

- Note that you must connect digital components to analog audio jacks if you want to record to/from digital components (like an MD) to/from analog components.

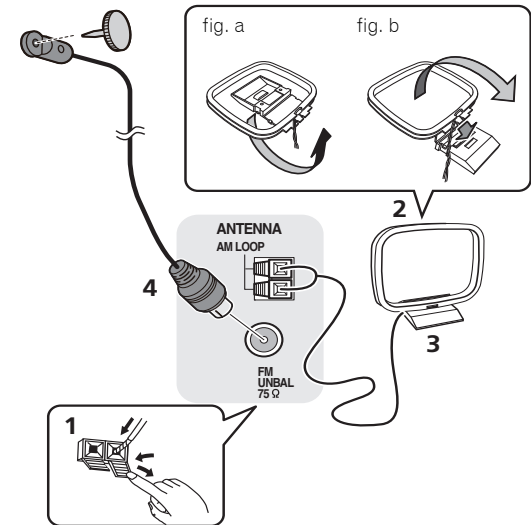


### Note

- In order to listen to the audio from the CD player that is connected to this receiver using an optical cable, first, switch to the **CD-R** input, then press **SIGNAL SEL** to choose the audio signal **O1** (OPTICAL1) (see *Selecting the audio input signal* on page 17).

## Connecting antennas

Connect the AM loop antenna and the FM wire antenna as shown below. To improve reception and sound quality, connect external antennas (see *Using external antennas* below).



**1** Push open the tabs, then insert one wire fully into each terminal, then release the tabs to secure the AM antenna wires.

**2** Fix the AM loop antenna to the attached stand. To fix the stand to the antenna, bend in the direction indicated by the arrow (fig. a) then clip the loop onto the stand (fig. b).

**3** Place the AM antenna on a flat surface and in a direction giving the best reception.

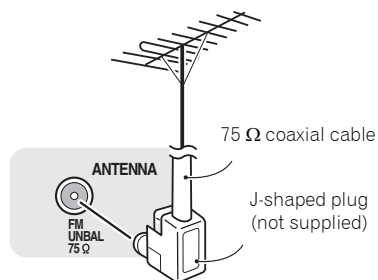
**4** Connect the FM wire antenna into the FM antenna socket.

For best results, extend the FM antenna fully and fix to a wall or door frame. Don't drape loosely or leave coiled up.

### Using external antennas

#### To improve FM reception

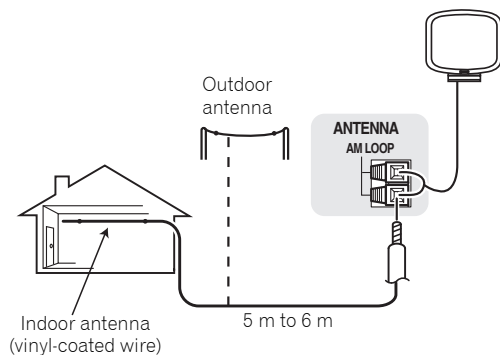
Use a PAL connector (not supplied) to connect an external FM antenna.



#### To improve AM reception

Connect a 5 m to 6 m length of vinyl-coated wire to the AM antenna terminal without disconnecting the supplied AM loop antenna.

For the best possible reception, suspend horizontally outdoors.



### Plugging in the receiver

Only plug in after you have connected all your components to this receiver, including the speakers.

#### ⚠ CAUTION

- Handle the power cord by the plug part. Do not pull out the plug by tugging the cord, and never touch the power cord when your hands are wet, as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, or other object on the power cord or pinch the cord in any other way. Never make a knot in the cord or tie it with other cables. The power cords should be routed so that they are not likely to be stepped on. A damaged power cord can cause a fire or give you an electric shock. Check the power cord once in a while. If you find it damaged, ask your nearest Pioneer authorized independent service company for a replacement.
- Do not use any power cord other than the one supplied with this unit.
- Do not use the supplied power cord for any purpose other than that described below.
- The receiver should be disconnected by removing the mains plug from the wall socket when not in regular use, e.g., when on vacation.

#### 📝 Note

- After this receiver is connected to an AC outlet, a 2 second to 10 second HDMI initialization process begins. You cannot carry out any operations during this process. The **HDMI** indicator in the front panel display blinks during this process, and you can turn on this receiver once it has stopped blinking. When you set **ARC** at HDMI setup to **OFF**, you can skip this process. For details, see *ARC (Audio Return Channel) function* on page 27.

- 1 **Plug the supplied power cord into the AC IN socket on the back of the receiver.**
- 2 **Plug the other end into a power outlet.**



## Chapter 3: Basic playback

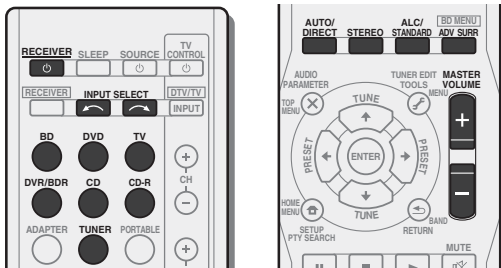
### Canceling the demo display

The display on the front panel shows various information (demo displays) when the receiver is not operating.

You can turn off the demo display. For details, see *The FL Demo Mode menu* on page 26.

### Playing a source

Here are the basic instructions for playing a source (such as a DVD disc) with your home theater system.



#### 1 Switch on your system components and receiver.

Start by switching on the playback component (for example a DVD player), your TV, then the receiver (press **RECEIVER**).

#### 2 Switch the TV input to the input that connects this receiver.

For example, if you connected this receiver to the **VIDEO** jacks on your TV, make sure that the **VIDEO** input is now selected.

#### 3 Press input function buttons to select the input function you want to play.

- The input of the receiver will switch over, and you will be able to operate other components using the remote control. To operate the receiver, first press **RECEIVER** on the remote control, then press the appropriate button to operate.

- The input source can also be selected by using **INPUT SELECT** buttons on the remote control, or by using the front panel **INPUT SELECTOR** dial. In this case, the remote control won't switch operational modes.

If you selected the proper input source and there is still no sound, select the audio input signal for playback (see *Selecting the audio input signal* below).

#### 4 Press **AUTO/DIRECT** to select 'AUTO SURROUND' and start playback of the source.

If you're playing a Dolby Digital or DTS surround sound DVD disc, with a digital audio connection, you should hear surround sound. If you're playing a stereo source or if the connection is an analog audio connection, you will only hear sound from the front left/right speakers in the default listening mode.

It is possible to check on the front panel display whether or not surround sound playback is being performed properly. When using a surround back speaker, **DOD+PLIIX** is displayed when playing Dolby Digital 5.1-channel signals, and **DTS+NEO:6** is displayed when playing DTS 5.1-channel signals.

When not using a surround back speaker, **DOD** is displayed when playing Dolby Digital signals.

If the display does not correspond to the input signal and listening mode, check the connections and settings.

#### Note

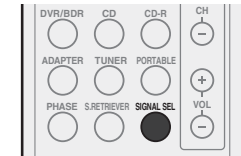
- You may need to check the digital audio output settings on your DVD player or digital satellite receiver. It should be set to output Dolby Digital, DTS and 88.2 kHz/96 kHz PCM (2 channel) audio, and if there is an MPEG audio option, set this to convert the MPEG audio to PCM.
- Depending on your DVD player or source discs, you may only get digital 2 channel stereo and analog sound. In this case, the receiver must be set to a multichannel listening mode if you want multichannel surround sound.

#### 5 Use **MASTER VOLUME** to adjust the volume level.

Turn down the volume of your TV so that all sound is coming from the speakers connected to this receiver.

### Selecting the audio input signal

The audio input signal can be selected for each input source. Once it is set, the audio input that was selected will be applied whenever you select the input source using the input function buttons.



#### ● Press **SIGNAL SEL** to select the audio input signal corresponding to the source component.

Each press cycles through the following:

- H** – Selects an HDMI signal. **H** can be selected for **BD**, **DVD**, **DVR/BDR** and **CD/SAT** input. For other inputs, **H** cannot be selected.
- When the **HDMI** option in *Setting the Audio options* on page 23 is set to **THRU**, the sound will be heard through your TV, not from this receiver.
- C1/O1** – Selects the digital input. The coaxial 1 input is selected for **C1**, and the optical 1 audio input is selected for **O1**.
- A** – Selects the analog inputs.

When **H** (HDMI) or **C1/O1** (digital) is selected and the selected audio input is not provided, **A** (analog) is automatically selected.

Except **BD**, **DVR/BDR** input.

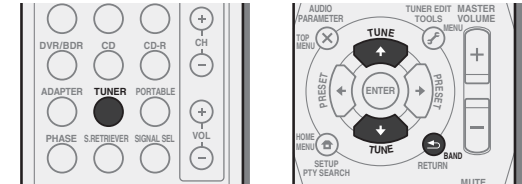
#### Note

- For the **TV** input, only **A** (analog) or **C1/O1** (digital) can be selected. However, if the **ARC at HDMI SET** is set to **ON**, the input is fixed to **H** (HDMI) and cannot be changed.
- When set to **H** (HDMI) or **C1/O1** (digital), **DOLBY** lights when a Dolby Digital signal is input, and **DTS** lights when a DTS signal is input.
- When the **H** (HDMI) is selected, the **A** and **DIGITAL** indicators are off (see page 7).

- When digital input (optical or coaxial) is selected, this receiver can only play back Dolby Digital, PCM (32 kHz to 96 kHz) and DTS (including DTS 96 kHz/24 bit) digital signal formats. The compatible signals via the HDMI terminals are: Dolby Digital, DTS, PCM (32 kHz to 192 kHz sampling frequencies), Dolby TrueHD, Dolby Digital Plus, DTS-EXPRESS, DTS-HD Master Audio and DVD Audio (including 192 kHz). With other digital signal formats, set to **A** (analog).
- You may get digital noise when a LD or CD player compatible with DTS is playing an analog signal. To prevent noise, make the proper digital connections (page 13) and set the signal input to **C1/O1** (digital).
- Some DVD players don't output DTS signals. For more details, refer to the instruction manual supplied with your DVD player.
- This product is not compatible with DSD decoding. Set the output setting on the player to PCM when playing SACD on a player compatible with SACD. See the player's instruction manual for details.

## Listening to the radio

The following steps show you how to tune in to FM and AM radio broadcasts using the automatic (search) and manual (step) tuning functions. Once you are tuned to a station you can memorize the frequency for recall later—see *Saving station presets* below for more on how to do this.



- Press **TUNER** to select the tuner.
- Use **BAND** to change the band (FM or AM), if necessary. Each press switches the band between FM (stereo or mono) and AM.
- Tune to a station.

There are three ways to do this:

### Automatic tuning

To search for stations in the currently selected band, press and hold **TUNE**  $\uparrow/\downarrow$  for about a second. The receiver will start searching for the next station, stopping when it has found one. Repeat to search for other stations.

### Manual tuning

To change the frequency one step at a time, press **TUNE**  $\uparrow/\downarrow$ .

### High speed tuning

Press and hold **TUNE**  $\uparrow/\downarrow$  for high speed tuning. Release the button at the frequency you want.

## Improving FM sound

If the **TUNE** or **ST** indicators don't light when tuning to an FM station because the signal is weak, set the receiver to the mono reception mode.

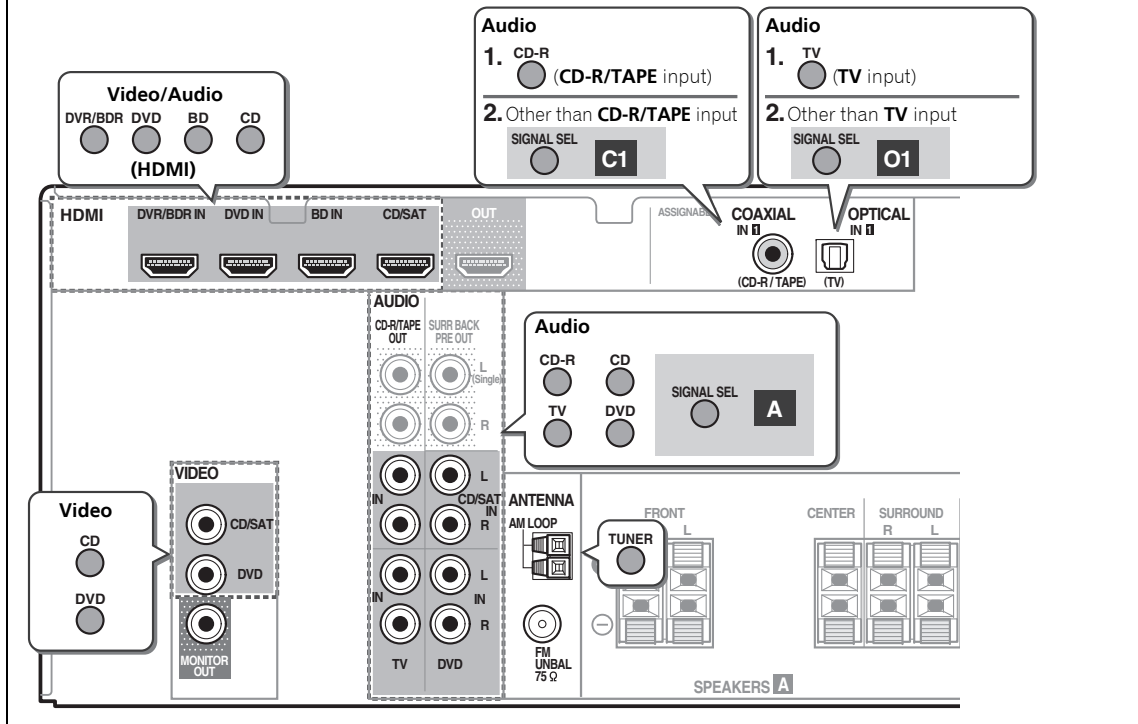
- Press **BAND** to select **FM MONO**.

This should improve the sound quality and allow you to enjoy the broadcast.



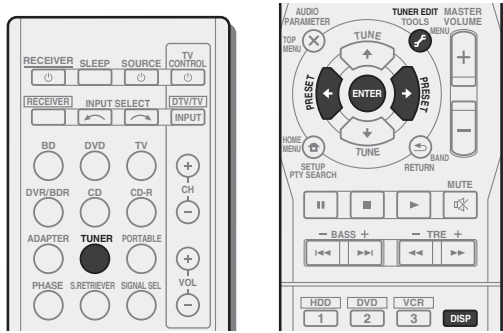
### Tip

- In order to enjoy the picture and/or sound from devices connected to each terminal, select the input by doing the following.



## Saving station presets

If you often listen to a particular radio station, it's convenient to have the receiver store the frequency for easy recall whenever you want to listen to that station. This saves the effort of manually tuning in each time. This unit can memorize up to 30 stations.



### 1 Tune to a station you want to memorize.

See *Listening to the radio* on page 18 for more on this.

### 2 Press TUNER EDIT.

The display shows **PRESET**, then a blinking **MEM** and station preset.

### 3 Press PRESET $\leftarrow/\rightarrow$ to select the station preset you want.

You can also use the number buttons.

### 4 Press ENTER.

The preset number stop blinking and the receiver stores the station.

#### Note

- If the receiver is left disconnected from the AC power outlet for over a month, the station memories will be lost and will have to be reprogrammed.
- Stations are stored in stereo. When the station is stored in the FM MONO mode, it shows as **ST** when recalled.

## Listening to station presets

You will need to have some presets stored to do this. See *Saving station presets* above if you haven't done this already.

- Press **PRESET**  $\leftarrow/\rightarrow$  to select the station preset you want.
  - You can also use the number buttons on the remote control to recall the station preset.

## Naming preset stations

For easier identification, you can name all of your preset stations.

### 1 Choose the station preset you want to name.

See *Listening to station presets* above for how to do this.

### 2 Press TUNER EDIT twice.

The cursor at the first character position is blinking on the display.

### 3 Input the name you want.

Choose a name up to eight characters long.

- Use **PRESET**  $\leftarrow/\rightarrow$  to select character position.
- Use **TUNE**  $\uparrow/\downarrow$  to select characters.
- The name is stored when **ENTER** is pressed.

#### Tip

- To erase a station name, follow steps 1 and 2, and press **ENTER** while the display is blank. Press **TUNER EDIT** while the display is blank, to keep the previous name.
- Once you have named a station preset, Press **DISP** to show the name. When you want to return to the frequency display, press **DISP** several times to show the frequency.

## Changing the radio frequency step

If you find that you can't tune into stations successfully, the frequency step may not be suitable for your country/region. Here's how to switch the setting:

### 1 Switch the receiver into standby.

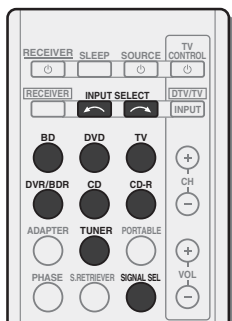
### 2 While holding down the TUNE $\downarrow$ button, press and hold the $\odot$ STANDBY/ON button for about two seconds.

- The channel tuning step alternates between **10K STEP** and **9K STEP** each time you do this.

## Making an audio recording



You can make an audio recording from the built-in tuner, or from an audio source connected to the receiver (such as a CD player).

Only audio signals that were input to this receiver through an analog audio inputs can be recorded. Signals that were input through an HDMI cable or digital audio cable (optical / coaxial) cannot be recorded (see *Connecting other audio components* on page 15 for more on connections).



### 1 Press input function buttons to select the input function you want to record.

The input of the receiver will switch over, and you will be able to operate other components using the remote control.

- The input source can also be selected by using **INPUT SELECT**   buttons on the remote control, or by using the front panel **INPUT SELECTOR** dial.

### 2 Select the audio input signal (if necessary).

Press **SIGNAL SEL** and select the analog inputs (**A**) for the source component of which you want to record (see page 17 for more on this).

### 3 Prepare the source you want to record.

Tune to the radio station, load the CD etc.

### 4 Prepare the recorder.

Insert a blank tape, MD etc. into the recording device and set the recording levels.

Refer to the instructions that came with the recorder if you are unsure how to do this.

### 5 Start recording, then start playback of the source component.

#### Note

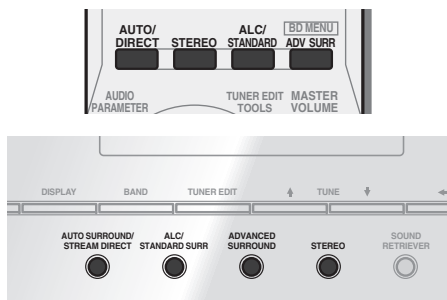
- The receiver's volume, balance, tone (bass, treble, loudness), and surround effects have no effect on the recorded signal.

## Chapter 4: Listening to your system

### Choosing the listening mode

This receiver offers a variety of listening modes to accommodate playback of various audio formats. Choose one according to your speaker environment or the source.

- While listening to a source, press the listening mode button repeatedly to select a listening mode you want.



- The listening mode is shown on the display on the front panel.

#### Important

- The listening modes and many features described in this section may not be available depending on the current source, settings and status of the receiver.

### Auto playback



The simplest, most direct listening option is the **AUTO SURROUND** feature. With this, the receiver automatically detects what kind of source you're playing and selects multichannel or stereo playback as necessary.

- Press **AUTO/DIRECT** repeatedly until **AUTO SURROUND** shows briefly in the display (it will then show the decoding or playback format). Check the digital format indicators in the display to see how the source is being processed.

#### Note

- Stereo surround (matrix) formats are decoded accordingly using **NEO:6 CINEMA** or **DOLBY PLIIX MOVIE** (see *Listening in surround sound* below for more on these decoding formats).

### Listening in surround sound



Using this receiver, you can listen to any source in surround sound. However, the options available will depend on your speaker setup and the type of source you're listening to.

- If the source is Dolby Digital, DTS, or Dolby Surround encoded, the proper decoding format will automatically be selected and shows in the display.

When you select **STEREO ALC** (Auto Level Control stereo mode), this unit equalizes playback sound levels if each sound level varies with the music source recorded in a portable audio player.

When you select **STEREO**, you will hear the source through just the front left and right speakers (and possibly your subwoofer depending on your speaker settings). Dolby Digital and DTS multichannel sources are downmixed to stereo.

The following modes provide basic surround sound for stereo and multichannel sources.

#### Explanatory notes

No: No connected / Yes: Connected / Two: Two speakers are connected / -: Whether connected or no

Type of surround modes	Suitable sources	Surround back speaker(s)
<b>Two channel sources</b>		
<b>STEREO ALC</b>	See above.	-
<b>DOLBY PLIIX MOVIE</b>	Movie	Yes <sup>a</sup>
<b>DOLBY PLII MOVIE</b>		No
<b>DOLBY PLIIX MUSIC<sup>b</sup></b>	Music	Yes <sup>a</sup>
<b>DOLBY PLII MUSIC<sup>b</sup></b>		No
<b>DOLBY PLIIX GAME</b>	Video games	Yes <sup>a</sup>
<b>DOLBY PLII GAME</b>		No

Type of surround modes	Suitable sources	Surround back speaker(s)
<b>NEO:6 CINEMA<sup>c</sup></b>	Movie	-
<b>NEO:6 MUSIC<sup>c</sup></b>	Music	-
<b>DOLBY PRO LOGIC</b>	Old movies	-
Straight Decode <sup>d</sup>	No additional effects	-
<b>STEREO<sup>e</sup></b>	See above.	-
<b>Multichannel sources</b>		
<b>STEREO ALC</b>	See above.	-
<b>DOLBY PLIIX MOVIE</b>	Movie	Two <sup>a</sup>
<b>DOLBY PLII MOVIE</b>		No
<b>DOLBY PLIIX MUSIC<sup>b</sup></b>	Music	Two <sup>a</sup>
<b>DOLBY PLII MUSIC<sup>b</sup></b>		No
<b>DOLBY DIGITAL EX</b>	Movie/Music	Yes
<b>DTS-E5</b>	Movie/Music	Yes
<b>DTS NEO:6</b>	Movie/Music	Yes
Straight Decode <sup>d</sup>	No additional effects	-
<b>STEREO<sup>e</sup></b>	See above.	-

- If surround back channel processing (page 23) is switched off, or the surround back speakers are set to **NO**, **DOLBY PLIIX** becomes **DOLBY PLII** (5.1 channel sound).
- You can also adjust the **C.WIDTH**, **DIMEN.**, and **PNRM.** effect (see *Setting the Audio options* on page 23).
- You can also adjust the **C.IMG** effect (see *Setting the Audio options* on page 23).
- This mode can only be selected when surround back channel processing (page 23) is switched off.
  - You can choose the **STEREO** mode by using **STEREO** button.
  - The audio is heard with your surround settings and you can still use the Midnight, Loudness, Phase Control, Sound Retriever and Tone functions.

#### Note

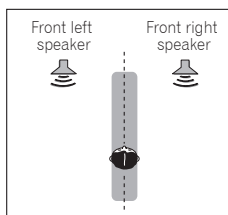
- In modes that give 6.1 channel sound, the same signal is heard from both surround back speakers.

### Using the Advanced surround



The Advanced surround feature creates a variety of surround effects. Try different modes with various soundtracks to see which you like.

<b>ACTION</b>	Designed for action movies with dynamic soundtracks.
<b>DRAMA</b>	Designed for movies with lots of dialog.
<b>ENT.SHOW</b>	Suitable for musical sources.
<b>ADVANCED GAME</b>	Suitable for video games.
<b>SPORTS</b>	Suitable for sports programs.
<b>CLASSICAL</b>	Gives a large concert hall-type sound
<b>ROCK/POP</b>	Creates a live concert sound for rock and/or pop music.
<b>UNPLUGGED</b>	Suitable for acoustic music sources.
<b>EXT.STEREO</b>	Gives multichannel sound to a stereo source, using all of your speakers
<b>F.S.S.ADVANCE</b> (Front Stage Surround ADVANCE)	Allows you to create natural surround sound effects using just the front speakers and the subwoofer. Use to provide a rich surround sound effect directed to the center of where the front left and right speakers sound projection area converges.
<b>PHONES SURR</b>	When listening through headphones, you can still get the effect of overall surround.



### Using Stream Direct

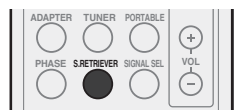


Use the Stream Direct modes when you want to hear the truest possible reproduction of a source. All unnecessary signal processing is bypassed.

<b>AUTO SURROUND</b>	See <i>Auto playback</i> on page 21.
<b>DIRECT</b>	Sources are heard according to the settings made in the Speaker Setup (speaker setting, channel level, speaker distance), as well as with dual mono settings. You will hear sources according to the number of channels in the signal. Phase Control, Sound Delay, Auto Delay, LFE Attenuate and Center image functions are available.
<b>PURE DIRECT</b>	Analog and PCM sources are heard without any digital processing.

### Using the Sound Retriever

When audio data is removed during the compression process, sound quality often suffers from an uneven sound image. The Sound Retriever feature employs new DSP technology that helps bring CD quality sound back to compressed 2-channel audio by restoring sound pressure and smoothing jagged artifacts left over after compression.



- Press **S.RETRIEVER** to switch the **S.RTV (Sound Retriever)** ON or OFF.

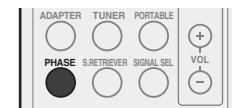
#### Note

- The Sound Retriever is only applicable to 2-channel sources.

### Better sound using Phase Control

This receiver's Phase Control feature uses phase correction measures to make sure your sound source arrives at the listening position in phase, preventing unwanted distortion and/or coloring of the sound.

Phase Control technology provides coherent sound reproduction through the use of phase matching for an optimal sound image at your listening position. The default setting is on and we recommend leaving Phase Control switched on for all sound sources.



- Press **PHASE** to switch the **P.CTL (Phase Control)** ON or OFF.

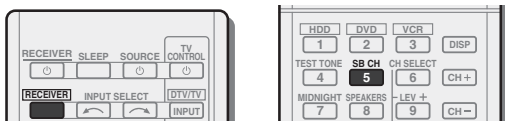
#### Note

- Phase matching is a very important factor in achieving proper sound reproduction. If two waveforms are 'in phase', they crest and trough together, resulting in increased amplitude, clarity and presence of the sound signal. If a crest of a wave meets a trough, then the sound will be 'out of phase' and an unreliable sound image will be produced.
- If the speaker distance is not properly set, you may not have a maximized Phase Control effect.
- The Phase Control mode cannot be set to **ON** in the following cases:
  - When the **PURE DIRECT** mode is switched on.
  - When the headphones are connected.

### Using surround back channel processing

You can have the receiver automatically use 6.1 or 7.1 decoding for 6.1 encoded sources (for example, Dolby Digital EX or DTS-ES), or you can choose to always use 6.1 or 7.1 decoding (for example, with 5.1 encoded material). With 5.1 encoded sources, a surround back channel will be generated, but the material may sound better in the 5.1 format for which it was originally encoded (in which case, you can simply switch surround back channel processing off).

- With a 7.1-channel surround system, audio signals that have undergone matrix decoding processing through surround back channel processing to which the Up Mix function is added are output from the surround back speakers.



- Press **RECEIVER**, then press **SB CH** repeatedly to cycle the surround back channel options.

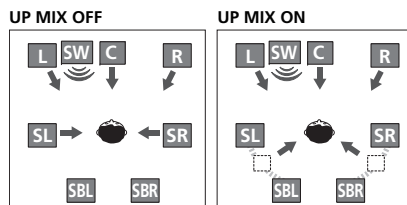
Each press cycles through the options as follows:

- **SB ON** – Matrix decoding processing for generating the surround back component from the surround component is turned on.
- **SB AUTO** – Matrix decoding processing for generating the surround back component from the surround component is switched automatically. Matrix decoding processing is only performed when surround back channel signals are detected in the input signals.
- **SB OFF** – Matrix decoding processing for generating the surround back component from the surround component is turned off.

### Setting the Up Mix function

In a 7.1-channel surround system with surround speakers placed directly at the sides of the listening position, the surround sound of 5.1-channel sources is heard from the side. The Up Mix function mixes the sound of the surround speakers with the surround back speakers so that the surround sound is heard from diagonally to the rear as it should be.

- Using the Up Mix function is effective when the speakers in the 7.1-channel surround system are set up as recommended in the example on page 10.
- Depending on the positions of the speakers and the sound source, in some cases it may not be possible to achieve good results. In this case, set the setting to **OFF**.



- 1 Switch the receiver into standby.
- 2 While holding down **PRESET** → on the front panel, and hold the **STANDBY/ON** for about two seconds.

**UP MIX: OFF** appears and the Up Mix function turns off. If you want to turn this function on, perform steps 1 and 2 again.

- When set to **ON**, the (Up Mix) indicator on the front panel lights.

#### Note

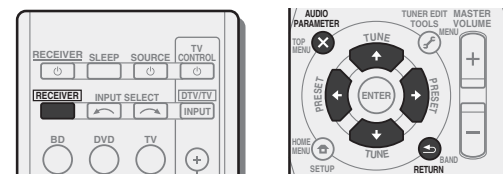
- Set to **ON** regardless of this setting when playing DTS-HD signals.
- May automatically be set to **OFF** even when set to **ON**, depending on the input signal and listening mode.

### Setting the Audio options

There are a number of additional sound settings you can make using the **AUDIO PARAMETER** menu. The defaults, if not stated, are listed in bold.

#### Important

- Note that if a setting doesn't appear in the **AUDIO PARAMETER** menu, it is unavailable due to the current source, settings and status of the receiver.



- 1 Press **RECEIVER**, then press **AUDIO PARAMETER** button.
- 2 Use **↑/↓** to select the setting you want to adjust. Depending on the current status/mode of the receiver, certain options may not be able to be selected. Check the table below for notes on this.
- 3 Use **←/→** to set it as necessary. See the table below for the options available for each setting.
- 4 Press **RETURN** to confirm and exit the menu.

Setting/What it does	Option(s)
<b>S.DELAY</b> (Sound Delay) Some monitors have a slight delay when showing video, so the soundtrack will be slightly out of sync with the picture. By adding a bit of delay, you can adjust the sound to match the presentation of the video.	0.0 to 9.0 (frames) 1 second = 25 frames (PAL)/30 frames (NTSC) Default: <b>0.0</b>
<b>MIDNIGHT/LOUDNESS</b> <sup>a</sup> The <b>MIDNIGHT</b> allows you to hear effective surround sound of movies at low volumes. The <b>LOUDNESS</b> is used to get good bass and treble from music sources at low volumes.	<b>M/L OFF</b> <i>MIDNIGHT</i> <i>LOUDNESS</i>

Setting/What it does	Option(s)
<b>S.RTV</b> (Sound Retriever) <sup>b</sup> When audio data is removed during the compression process, sound quality often suffers from an uneven sound image. The Sound Retriever feature employs new DSP technology that helps bring CD quality sound back to compressed 2-channel audio by restoring sound pressure and smoothing jagged artifacts left over after compression.	<b>OFF</b> <i>ON</i>
<b>DUAL MONO</b> <sup>c</sup> Specifies how dual mono encoded Dolby Digital soundtracks should be played.	<b>CH1</b> – Channel 1 is heard only <b>CH2</b> – Channel 2 is heard only <b>CH1 CH2</b> – Both channels heard from front speakers
<b>F.PCM</b> (Fixed PCM) This is useful if you find there is a slight delay before <b>OFF</b> recognizes the PCM signal on a CD, for instance. When <b>ON</b> is selected, noise may be output during playback of non-PCM sources. Please select another input signal if this is a problem.	<b>OFF</b> <i>ON</i>
<b>DRC</b> (Dynamic Range Control) Adjusts the level of dynamic range for movie soundtracks optimized for Dolby Digital, DTS, Dolby Digital Plus, Dolby TrueHD, DTS-HD and DTS-HD Master Audio (you may need to use this feature when listening to surround sound at low volumes).	<b>AUTO</b> <sup>d</sup> <i>MAX</i> <i>MID</i> <i>OFF</i>

Setting/What it does	Option(s)
<b>LFE ATT</b> (LFE Attenuate) Some Dolby Digital and DTS audio sources include ultra-low bass tones. Set the LFE attenuator as necessary to prevent the ultra-low bass tones from distorting the sound from the speakers. The LFE is not limited when set to 0 dB, which is the recommended value. When set to –15 dB, the LFE is limited by the respective degree. When <b>OFF</b> is selected, no sound is output from the LFE channel.	<b>0</b> (0 dB) <i>5</i> (–5 dB) <i>10</i> (–10 dB) <i>15</i> (–15 dB) <i>20</i> (–20 dB) <b>**</b> (OFF)
<b>HDMI</b> (HDMI Audio) Specifies the routing of the HDMI audio signal out of this receiver ( <b>AMP</b> ) or through to a TV ( <b>THRU</b> ). When <b>THRU</b> is selected, no sound is output from this receiver.	<b>AMP</b> <i>THRU</i>
<b>A.DLY</b> (Auto Delay) <sup>e</sup> This feature automatically corrects the audio-to-video delay between components connected with an HDMI cable. The audio delay time is set depending on the operational status of the display connected with an HDMI cable. The video delay time is automatically adjusted according to the audio delay time.	<b>OFF</b> <i>ON</i>
<b>C.WIDTH</b> (Center Width) <sup>f</sup> (Applicable only when using a center speaker) Spreads the center channel between the front right and left speakers, making it sound wider (higher settings) or narrower (lower settings).	0 to 7 Default: <b>3</b>
<b>DIMEN</b> (Dimension) <sup>f</sup> Adjusts the surround sound balance from front to back, making the sound more distant (minus settings), or more forward (positive settings).	–3 to +3 Default: <b>0</b>
<b>PNRM</b> . (Panorama) <sup>f</sup> Extends the front stereo image to include surround speakers for a 'wraparound' effect.	<b>OFF</b> <i>ON</i>

Setting/What it does	Option(s)
<b>C.IMG</b> (Center Image) <sup>g</sup> (Applicable only when using a center speaker) Adjust the center image to create a wider stereo effect with vocals. Adjust the effect from <b>0</b> (all center channel sent to front right and left speakers) to <b>10</b> (center channel sent to the center speaker only).	0 to 10 Default: <b>3</b> (NEO:6 MUSIC), <b>10</b> (NEO:6 CINEMA)

- You can change the **MIDNIGHT/LOUDNESS** options at any time by using **MIDNIGHT** button.
- You can change the Sound Retriever feature at any time by using **S.RETRIEVER** button.
- This setting works only with dual mono encoded Dolby Digital and DTS soundtracks.
- The initial set **AUTO** is only available for Dolby TrueHD signals. Select **MAX** or **MID** for signals other than Dolby TrueHD.
- This feature is only available when the connected display supports the automatic audio/video synchronizing capability ('lip-sync') for HDMI. If you find the automatically set delay time unsuitable, set **A.DLY** to **OFF** and adjust the delay time manually. For more details about the lip-sync feature of your display, contact the manufacturer directly.
- Only available with 2-channel sources in **DOLBY PLII MUSIC** mode.
- Only when listening to 2-channel sources in **NEO:6 CINEMA** and **NEO:6 MUSIC** mode.



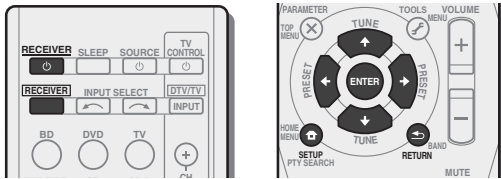
## Chapter 5: The System Setup menu

### Using the System Setup menu

The following section shows you how to make detailed settings to specify how you're using the receiver, and also explains how to fine-tune individual speaker system settings to your liking.

#### Important

- If headphones are connected to the receiver, disconnect them.



1 Press **RECEIVER** to switch the receiver on.

2 Press **RECEIVER**, then press **SETUP**.

The System Setup menu appears on the front panel display. Use **↑/↓/←/→** and **ENTER** on the remote control to navigate through the screens and select menu items. Press **RETURN** to confirm and exit the current menu.

- Press **SETUP** at any time to exit the System Setup menu.

3 Select the setting you want to adjust.

#### • **SP SETUP**

- **SP SET** – Specify the size and number of speakers you've connected (see below).
- **X.OVER** – Specify which frequencies will be sent to the subwoofer (see below).
- **CH LEVEL** – Adjust the overall balance of your speaker system (page 26).
- **SP DISTN** – Specify the distance of your speakers from the listening position (page 26).

- **HDMI SET** – Set when using the ARC function. (see *ARC Setup* on page 27).

- **APD** – Sets to automatically turn off the power when the receiver has not operated for several hours (see *The Auto Power Down menu* on page 26).
- **FL DEMO** – Sets the demo display on the front panel display (see *The FL Demo Mode menu* on page 26).

### The Speaker Setup menu

This receiver allows you to make detailed settings to optimize the surround sound performance. You only need to make these settings once (unless you change the placement of your current speaker system or add new speakers).

#### Speaker Setting

Use this setting to specify your speaker configuration (size, number of speakers).

1 Use **↑/↓** to select '**SP SETUP**' from the System Setup menu, then press **ENTER**.

2 Use **↑/↓** to select '**SP SET**' from the SP SETUP menu, then press **ENTER**.

3 Use **↑/↓** to select the set of speakers that you want to set then select a speaker size.

Use **←/→** to select the size (and number) of each of the following speakers:

- **F (Front)** – Do not change from **SMALL**.
- **C (Center)** – Select **SMALL** if you connect a center. If you didn't connect a center speaker, choose **NO** (the center channel is sent to the other speakers).
- **S (Surround)** – Select **SMALL** if you connect a surround speakers. If you didn't connect surround speakers choose **NO** (the sound of the surround channels is sent to the other speakers).
- **SB (Surround Back)** – Select the number of surround back speakers you have (one (**X1**), two (**X2**) or none). If you didn't connect surround back speakers choose **NO**.  
– If you select one surround back speaker only, make sure that additional amplifier is hooked up to the **PRE OUT L (Single)** terminal.
- **SW (Subwoofer)** – LFE signals and bass frequencies of channels set to **SMALL** are output from the subwoofer when **YES** is selected (see notes below). Choose the **PLUS** setting if you want the subwoofer to output bass sound

continuously or you want deeper bass (the bass frequencies that would normally come out the front and center speakers are also routed to the subwoofer). If you did not connect a subwoofer choose **NO** (the bass frequencies are output from other speakers).

4 **When you're finished, press RETURN.**

You return to the Speaker Setup menu.

#### Note

- If you select **SMALL** for the front speakers, the subwoofer will automatically be fixed to **YES**. Also, the center, surround and surround back speakers can't be set to **LARGE (L)** if the front speakers are set to **SMALL**. In this case, all bass frequencies are sent to the subwoofer.
- If the surround speakers are set to **NO**, the surround back speakers will automatically be set to **NO**.
- If you have a subwoofer and like lots of bass, it may seem logical to select **LARGE** for your front speakers and **PLUS** for the subwoofer. This may not, however, yield the best bass results. Depending on the speaker placement of your room you may actually experience a decrease in the amount of bass due to low frequency cancellations. In this case, try changing the position or direction of speakers. If you can't get good results, listen to the bass response with it set to **PLUS** and **YES** or the front speakers set to **LARGE** and **SMALL** alternatively and let your ears judge which sounds best. If you're having problems, the easiest option is to route all the bass sounds to the subwoofer by selecting **SMALL** for the front speakers.
- **LARGE** setting is not use with this system. If each speaker is connected, select the **SMALL** setting.
- Do not change the crossover frequency from 200 Hz.

#### Crossover Network

- Default setting: **200Hz**

This setting decides the cutoff between bass sounds playing back from the speakers selected as **LARGE**, or the subwoofer, and bass sounds playing back from those selected as **SMALL**. It also decides where the cutoff will be for bass sounds in the LFE channel.

- For more on selecting the speaker sizes, see *Speaker Setting* on page 25.

- 1 Use **↑/↓** to select 'SP SETUP' from the System Setup menu, then press **ENTER**.
- 2 Use **↑/↓** to select 'X.OVER' from the SP SETUP menu, then press **ENTER**.
- 3 Use **←/→** to select the frequency cutoff point. Frequencies below the cutoff point will be sent to the subwoofer (or **LARGE** speakers).
- 4 **When you're finished, press RETURN.**  
You return to the Speaker Setup menu.

### Channel Level

Using the channel level settings, you can adjust the overall balance of your speaker system, an important factor when setting up a home theater system.

#### CAUTION

- The test tones used in the System Setup are output at high volume.

- 1 Use **↑/↓** to select 'SP SETUP' from the System Setup menu, then press **ENTER**.
- 2 Use **↑/↓** to select 'CH LEVEL' from the SP SETUP menu, then press **ENTER**.
- 3 Use **←/→** to select a setup option.
  - **T. TONE M** – Move the test tone manually from speaker to speaker and adjust individual channel levels.
  - **T. TONE A** – Adjust channel levels as the test tone moves from speaker to speaker automatically.
- 4 **Confirm your selected setup option.**  
The test tones will start after you press **ENTER**. After the volume increases to the reference level, test tones will be output.
- 5 Use **←/→** to adjust the level of each channel.  
If you selected **T. TONE M**, use **↑/↓** to switch speakers. The **T. TONE A** setup outputs test tones in the following order (depends on speaker settings):  
**L → C → R → SR → SBR → SBL → SL → SW**  
Adjust the level of each speaker as the test tone is emitted.

#### Note

- If you are using a Sound Pressure Level (SPL) meter, take the readings from your main listening position and adjust the level of each speaker to 75 dB SPL (C-weighting/slow reading).
  - The subwoofer test tone is output at low volumes. You may need to adjust the level after testing with an actual soundtrack.
- 6 **When you're finished, press RETURN.**  
You return to the Speaker Setup menu.

#### Tip

- You can change the channel levels at any time by press **RECEIVER**, then press **CH SELECT** and **LEV +/-** on the remote control. You can also press **CH SELECT** and use **↑/↓** to select the channel, and then use **←/→** to adjust the channel levels.

### Speaker Distance

For good sound depth and separation from your system, you need to specify the distance of your speakers from the listening position. The receiver can then add the proper delay needed for effective surround sound.

- 1 Use **↑/↓** to select 'SP SETUP' from the System Setup menu, then press **ENTER**.
- 2 Use **↑/↓** to select 'SP DISTN' from the SP SETUP menu, then press **ENTER**.
- 3 Use **↑/↓** to choose the speaker that you want then set the distance.  
Use **←/→** to adjust the distance of each speaker in 0.03 m increments.
- 4 **When you're finished, press RETURN.**  
You return to the Speaker Setup menu.

### The Auto Power Down menu

Set to automatically turn off the receiver after a specified time has passed (when the power has been on with no operation for several hours).

- Default setting: **OFF**

- 1 Use **↑/↓** to select 'APD' from the System Setup menu, then press **ENTER**.
- 2 **Specify the amount of time to allow before the power is turned off (when there has been no operation).**
  - Use **←/→** to select 2, 4 or 6 hours, or **OFF** (if no automatic shutoff is desired).
- 3 **When you're finished, press RETURN.**  
You return to the System Setup menu.

### The FL Demo Mode menu

Set whether or not various demos are to be shown on the front panel display.

- Default setting: **ON**
- 1 Use **↑/↓** to select 'FL DEMO' from the System Setup menu, then press **ENTER**.
  - 2 Use **←/→** to choose **ON** or **OFF** for the demo display.
  - 3 **When you're finished, press RETURN.**  
You return to the System Setup menu.

## Chapter 6:

# ARC (Audio Return Channel) function

If your TV supports an audio return channel function, connect your TV and this unit with an HDMI cable and the TV audio will be inputted into this unit via the HDMI terminal without the need for an audio cable to be connected. Turn ON the "ARC" in the HDMI SETUP when using this function.

## Important

- Use a High Speed HDMI® Cable when using the ARC function. The ARC function may not operate properly with other HDMI cables.

## ARC Setup

**1 Press  RECEIVER to switch the receiver on.**

**2 Press **RECEIVER**, then press **SETUP**.**

The System Setup menu appears on the front panel display. Use **↑/↓/←/→** and **ENTER** on the remote control to navigate through the screens and select menu items. Press **RETURN** to confirm and exit the current menu.

- Press **SETUP** at any time to exit the System Setup menu.

**3 Use **↑/↓** to select 'HDMI SET' from the System Setup menu, then press **ENTER**.**

**4 Use **←/→** to choose the 'ARC' setting you want.**

When a TV supporting the HDMI Audio Return Channel function is connected to the receiver, the sound of the TV can be input via the HDMI terminal.

- **ON** – The TV's sound is input via the HDMI terminal.
- **OFF** – The TV's sound is input from the audio input terminals other than HDMI inputs.

**5 When you're finished, press **RETURN**.**

You return to the System Setup menu.

## Before starting ARC operation

When starting ARC operation, put the TV and this unit in STANDBY mode after connecting this unit with the TV. Next, turn ON the power of this unit and then the TV, in this order. In order to start ARC operation, after connecting this unit to a TV with an HDMI cable, you will need to switch the input on the TV to the input mode required to connect to this unit. Then, you can select a TV program.

## Important

- The ARC function may not operate even if the above conditions are met. If this is the case, listen to the TV audio after connecting this unit and the TV with an audio cable.
- The CEC (Consumer Electronic Control) function may activate when the ARC function is turned ON, causing power to turn ON and OFF and the input to switch from one to another. Since this unit does not guarantee synchronized operation based on the CEC function, we recommend that you turn OFF the HDMI CONTROL setting on the connected player. This unit may not operate properly if the HDMI CONTROL on the player is ON. Refer to the relevant device's instruction manual for details. If this does not work, turn OFF the ARC function. If this is the case, listen to the TV audio after connecting this unit and the TV with an audio cable. In addition, this unit does not guarantee synchronized operation that allows the TV remote control to operate the volume (including mute). Use this unit to operate the volume (including mute).
- Turn OFF the power and remove the power cord from the wall socket when connecting other devices or making connection changes to this unit. After all connections are completed, insert the power cord into the wall socket.
- If the power cord is connected when the ARC function is ON, the HDMI will take 2 to 10 seconds to initialize. This unit cannot be operated during the initialization. During initialization, the HDMI indicator on the display will blink. Turn ON the unit after blinking stops.

## Chapter 7: Additional information

### Troubleshooting

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Take a look at the other components and electrical appliances being used, because sometimes the problem may lie there. If the trouble isn't sorted out even after going through the checks below, ask your nearest Pioneer authorized independent service company to carry out repair work.

- If the unit does not operate normally due to external effects such as static electricity disconnect the power plug from the outlet and insert again to return to normal operating conditions.

### General

#### The power does not turn on.

- Disconnect the power plug from the outlet, and insert again.
- Make sure there are no loose strands of speaker wire touching the rear panel. This could cause the receiver to shut off automatically.

#### The receiver suddenly switches off.

- When the Auto Power Down function is working, the power will automatically turn off if the receiver has not operated for several hours. Check the setting for the Auto Power Down function (see *The Auto Power Down menu* on page 26).
- After about a minute (you won't be able to switch the unit on during this time), switch the receiver back on. If the message persists, call a Pioneer authorized independent service company.

#### Power automatically turns ON/OFF and the input switches from one to another. (When the ARC function is ON)

- The CEC (Consumer Electronic Control) function may activate when the ARC function is turned ON, causing power to turn ON and OFF and the input to switch from one to another. Since this unit does not guarantee synchronized operation based on the CEC function, turn OFF the HDMI CONTROL setting on the connected player. Refer to the relevant device's instruction manual for details. If this does not work, turn OFF the ARC function. If this is the

case, listen to the TV audio after connecting this unit and the TV with an audio cable.

#### No sound is output when an input function is selected.

- Use **MASTER VOLUME** to turn up the volume.
- Press **MUTE** on the remote control to turn muting off.
- Set the **SIGNAL SEL** to **H** (HDMI), **C1/O1** (digital) or **A** (analog) according to the type of connections made (refer to page 17).
- Make sure the component is connected correctly (refer to *Connecting your equipment* on page 10).
- Check the audio output settings of the source component.
- Refer to the instruction manual supplied with the source component.

#### No image is output when an input function is selected.

- Make sure the component is connected correctly (refer to *Connecting your equipment* on page 10).
- Use the same type of video cables for the source component and TV to connect to this receiver (see *About video outputs connection* on page 13).
- The video input selected on the TV monitor is incorrect. Refer to the instruction manual supplied with the TV.

#### No sound from subwoofer.

- The Dolby Digital or DTS source you are listening to may not have an LFE channel.
- Switch the subwoofer setting in *Speaker Setting* on page 25 to **YES** or **PLUS**.
- Switch the **LFE ATT (LFE Attenuate)** on page 24 to **LFEATT 0** or **LFEATT 5**.

#### No sound from surround or center speakers.

- Connect the speakers properly (refer to page 11).
- Refer to *Speaker Setting* on page 25 to check the speaker settings.
- Refer to *Channel Level* on page 26 to check the speaker levels.

#### The Phase Control feature doesn't seem to have an audible effect.

- Make sure the speaker distance setting is correct for all speakers (see *Speaker Distance* on page 26).

#### Considerable noise in radio broadcasts.

- Connect the antenna (page 15) and adjust the position for best reception.
- Route any loose cables away from the antenna terminals and wires.
- Fully extend the FM wire antenna, position for best reception, and secure to a wall (or connect an outdoor FM antenna).
- Connect an additional internal or external AM antenna (page 16).

- Turn off equipment causing interference or move it away from the receiver (or move antennas farther away from equipment causing noise).

#### Broadcast stations cannot be selected automatically.

- Connect an outdoor antenna (refer to page 16).

#### Noise during playback of a cassette deck.

- Move the cassette deck away from your receiver, until the noise disappears.

#### No sound is output or a noise is output when software with DTS is played back.

- Make sure the player's settings are correct and/or the DTS signal out is on. Refer to the instruction manual supplied with the DVD player.

#### Can't operate the remote control.

- Replace the batteries (refer to page 9).
- Operate within 7 m, 30° of the remote sensor (refer to page 9).
- Remove the obstacle or operate from another position.
- Avoid exposing the remote sensor on the front panel to direct light.

#### The display is dark or off.

- Press **DIMMER** on the remote control repeatedly to return to the default.

#### The front panel display switches over for no apparent reason to various different displays.

- This happens because the demo display is in operation. To turn off the demo display, press any button to go back to the original display, or set the **FL DEMO** to **OFF** (see *The FL Demo Mode menu* on page 26).

#### TEMP shows in the display and the volume level drops.

- The temperature within the unit has exceeded the allowable value. Try moving the unit for better ventilation (see page 2).
- Lower the volume level.

## HDMI

### No picture or sound.

→ If the problem still persists when connecting your HDMI component directly to your monitor, please consult the component or monitor manual or contact the manufacturer for support.

### No picture.

→ Video signals that are input from the analog video terminal will not output from the HDMI terminal. Signals that are input from the HDMI terminal will not output from the analog video terminal. Be consistent with the type of cable between input and output.

→ Depending in the output settings of the source component, it may be outputting a video format that can't be displayed. Change the output settings of the source, or connect using the composite jacks.

→ This receiver is HDCP-compatible. Check that the components you are connecting are also HDCP-compatible. If they are not, please connect them using the composite video jacks.

→ Depending on the connected source component, it's possible that it will not work with this receiver (even if it is HDCP-compatible). In this case, connect using the composite video jacks between source and receiver.

→ If video images do not appear on your TV, try adjusting the resolution, Deep Color or other setting for your component.

→ To output signals in Deep Color, use an HDMI cable (High Speed HDMI® Cable) to connect this receiver to a component or TV with the Deep Color feature.

### No sound, or sound suddenly ceases.

→ Check that the Audio Parameter setting is set to **HDMI AMP/THRU** (refer to page 23).

→ If the component is a DVI device, use a separate connection for the audio.

→ HDMI format digital audio transmissions require a longer time to be recognized. Due to this, interruption in the audio may occur when switching between audio formats or beginning playback.

→ Turning on/off the device connected to this unit's HDMI OUT terminal during playback, or disconnecting/connecting the HDMI cable during playback, may cause noise or interrupted audio.

## Important information regarding the HDMI connection

There are cases where you may not be able to route HDMI signals through this receiver (this depends on the HDMI equipped component you are connecting-check with the manufacturer for HDMI compatibility information).

If you aren't receiving HDMI signals properly through this receiver (from your component), please try the following configuration when connecting up.

### Configuration


Connect your HDMI-equipped component directly to the display using an HDMI cable. Then use the most convenient connection (digital is recommended) for sending audio to the receiver. See the operating instructions for more on audio connections. Set the display volume to minimum when using this configuration.

### Note

- Depending on the component, audio output may be limited to the number of channels available from the connected display unit (for example audio output is reduced to 2 channels for a monitor with stereo audio limitations).
- If you want to switch the input source, you'll have to switch functions on both the receiver and your display unit.
- Since the sound is muted on the display when using the HDMI connection, you must adjust the volume on the display every time you switch input sources.

## Resetting the main unit

Use this procedure to reset all the receiver's settings to the factory default. Use the front panel controls to do this.

- 1 **Switch the receiver into standby.**
- 2 **While holding down BAND, press and hold  STANDBY/ON for about two seconds.**
- 3 **When you see RESET? appear in the display, press AUTO SURROUND/STREAM DIRECT.**  
**OK?** shows in the display.
- 4 **Press ALC/STANDARD SURR to confirm.**

**OK** appears in the display to indicate that the receiver has been reset to the factory default settings.

### Important

- If the ARC function is ON, you may not be able to initialize the unit. If this happens, turn OFF the ARC function or turn OFF all the connected device before turning OFF (STANDBY) the power for this unit, and initialize after the HDMI indicator goes out.

## Cleaning the unit

- Use a polishing cloth or dry cloth to wipe off dust and dirt.
- When the surface is dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water, and wrung out well, and then wipe again with a dry cloth. Do not use furniture wax or cleansers.
- Never use thinners, benzene, insecticide sprays or other chemicals on or near this unit, since these will corrode the surface.

## Specifications

### Audio section

Rated power output	
Front, Center, Surround	100 W per channel (1 kHz, 6 $\Omega$ , 0.7 %)
Maximum power output (Front, Center, Surround)	120 W per channel (1 kHz, 6 $\Omega$ , 10 %)
Total Harmonic Distortion	0.06 % (20 Hz to 20 kHz, 8 $\Omega$ , 50 W/ch)
Guaranteed speaker impedance	6 $\Omega$ to 16 $\Omega$
Input (Sensitivity/Impedance)	
LINE	200 mV/47 k $\Omega$
Output (Level/Impedance)	
REC	200 mV/2.2 k $\Omega$
Signal-to-Noise Ratio (IHF, short circuited, A network)	
LINE	98 dB

### Video section

Signal level	
Composite	1 Vp-p (75 $\Omega$ )

### Tuner section

Frequency Range (FM)	87.5 MHz to 108 MHz
Antenna Input (FM)	75 $\Omega$ unbalanced
Frequency Range (AM)	
9 kHz step	531 kHz to 1602 kHz
10 kHz step	530 kHz to 1700 kHz
Antenna (AM)	Loop antenna

### Digital In/Out section

HDMI terminal	Type A (19-pin)
HDMI output type	.5 V, 100 mA

### Miscellaneous

Power Requirements	.AC 220 V to 240 V, 50 Hz/60 Hz
Power Consumption	175 W
In standby	0.45 W
	(ARC function: OFF)
Dimensions	435 mm (W) x 168 mm (H) x 362.5 mm (D)
Weight (without package)	7.6 kg

### Furnished Parts

Remote control	1
Dry cell batteries (AAA size IEC R03)	2
AM loop antenna	1
FM wire antenna	1
Power cord	
These operating instructions	

#### Note

- The specifications are applicable when the power supply is 230 V.
- Specifications and the design are subject to possible modifications without notice, due to improvements.

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*Manufactured under license under U.S. Patent Nos: 5,956,674; 5,974,380; 6,226,616; 6,487,535; 7,212,872; 7,333,929; 7,392,195; 7,272,567 & other U.S. and worldwide patents issued & pending. DTS-HD, the Symbol, & DTS-HD and the Symbol together are registered trademarks & DTS-HD Master Audio is a trademark of DTS, Inc. Product includes software. © DTS, Inc. All Rights Reserved.*



## 重要



等邊三角形內帶有箭頭的閃電符號，其目的為警告使用者，注意本產品機殼內未絕緣的「危險電壓」，避免造成觸電的危險。

### 注意

為避免觸電危險，請勿拆卸上下蓋（或背面板），以避免觸電或受傷，機內無任何可供維修使用的零件，若需維修服務請聯絡專業維修人員。

D3-4-2-1-1\_A1\_Zhtw

## 小心

有觸電的危險  
請勿打開



等邊三角形內的驚嘆號，旨在提醒使用者注意本機所附帶之操作及維護等相關重要說明。

本產品只適宜一般家庭用途。如果是由於應用在其他非家庭用途(如做為商業用途而長期使用於餐廳中，或者使用於汽車或船中)而導致發生故障並需要修理，在保用期間必須承擔修理費用。

K041\_A1\_Zhtw

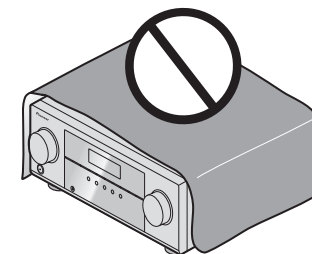
## 通風注意事項

安裝本機時，請確定在本機四周預留足夠的空間以利通風（頂部20 cm、背面10 cm、及兩側10 cm以上）。

## 警告

機殼上具有之縫隙及開口用於通風，以確保本產品之正常操作並防止過熱。為避免火災，請勿堵塞開口或用物品（如報紙、桌布、簾幕）將其覆蓋，也請勿在厚毯或床上操作本機。

D3-4-2-1-7b\*\_A1\_Zhtw



## 警告

本機不防水。為防止起火或觸電事故，請勿將本機置放於任何盛裝液體的容器（如花瓶或花盆）附近或將其暴露於漏水、濺水、雨中或潮濕環境中。

D3-4-2-1-3\_A1\_Zhtw

## 警告

為防止火災，請勿將明火源（如點燃的蠟燭）放置於本機上。

D3-4-2-1-7a\_A1\_Zhtw

## 警告

第一次插置電源前，請仔細閱讀下列部分：

電源供給的電壓因國家或地區而異。請確認本機使用之地區的電源供給電壓符合本機後面板上所寫之電壓〔例如230 V或120 V〕要求。

D3-4-2-1-4\*\_A2\_Zhtw

## 操作環境

操作環境溫度與溼度：

+5 °C 至 +35 °C (+41 °F 至 +95 °F)；小於85 %RH（勿堵塞冷卻孔）

請勿在通風不良處、暴露於高溼度或陽光直射（或強烈的人造光源）的場所安裝本機。


D3-4-2-1-7c\*\_A1\_Zhtw



若本機之交流電源插頭與您欲使用的交流電源插座不符，請拆下插頭並換上合適的。僅可由專業技術人員於本機的電源供給電纜上更換及安裝交流電源插頭。若在連接至交流電插座上時切斷插頭，可能導致觸電。請確認插頭於移除後已予妥善處理。  
當本機處於長時間未使用之情形（如假期中）時，請將主電源插頭自牆上插座拔除以切斷電源。

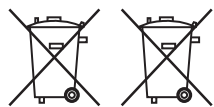
D3-4-2-2-1a\_A1\_Zhtw

#### 注意

本機  **STANDBY/ON** 開關不完全將電源自交流電插座切斷。因電源線為本機主要電源切斷裝置，您需要將插頭拔除以切斷所有電力。因此，請確認本機安裝時電源線可輕易自交流電插座拔除以防止意外。為防止火災，當本機處於長時間未使用之情形（如假期中）時，請將主電源插頭自牆上插座拔除以切斷電源。

D3-4-2-2-2a\*\_A1\_Zhtw

（電池的範例符號）



這些符號僅在歐盟中有效。

Pb

K058c\_A1\_Zhtw

感謝您購買本先鋒產品。請徹底閱讀此份操作手冊，以便知道如何正確操作您的機器。手冊閱讀完後，請妥善保管以供未來參考之用。

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# 使用前

## 清點包裝內容物

請清點是否收到以下隨附配件：

- 遙控器
- AAA/IEC R03 乾電池（以確保系統運作）x2
- AM 環型天線
- FM 線型天線
- 電源線
- 本操作手冊

## 安裝接收器

- 在安裝本機時，請確實將其安放在水平且平穩的表面上。

切勿安裝在以下地方：

- 彩色電視機上（畫面可能失真）
- 卡式錄音座附近（或靠近會產生磁場的設備）。這會對聲音造成干擾。
- 陽光直射的地方
- 濕氣重或潮濕的地方
- 極熱或極冷的場所
- 有振動或其他動作的場所
- 灰塵多的場所
- 有熱霧或油氣的場所（如廚房）

# 接收器的設定流程

本機是配備多種功能和端子的全方位影音接收器。依下列程序連接和設定後，就可以輕易使用。

步驟的顏色指示下列事項：

### 需設定項目

### 視需要設定

#### 1 連接揚聲器

揚聲器的位置對音效產生極大的影響。

- 揚聲器之擺設（第 10 頁）
- 連接揚聲器（第 11 頁）

#### 2 連接設備

要產生環繞音效，需將 Blu-ray Disc 播放機 /DVD 播放器利用數位接線連接至接收器上。

- 關於連接視訊輸出（第 13 頁）
- 連接電視機及播放設備（第 14 頁）
- 連接天線（第 15 頁）
- 插上接收器電源（第 16 頁）

#### 3 開啟電源

確定已設定好電視機的視訊輸入。若不知如何設定，請參閱電視機隨附手冊。

#### 4 請根據您居住的地區及環境進行初始設定

- 切換無線電頻率間隔（第 19 頁）

#### 5 FL 示範模式選單（第 26 頁）

（不想要在前面板顯示幕上展示示範顯示時。）

#### 使用音訊返回通道功能（第 27 頁）

（連接的電視支援 HDMI 音訊返回通道功能時。）

#### 6 播放來源（第 17 頁）

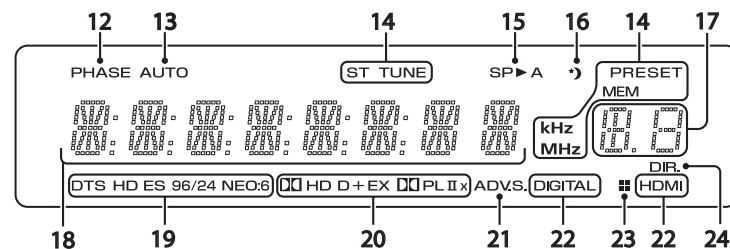
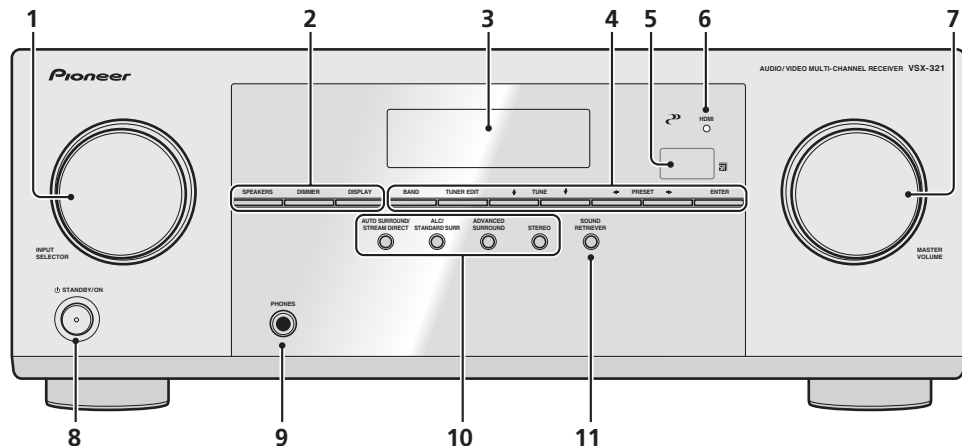
- 選擇音訊輸入訊號（第 17 頁）
- 選擇聆聽模式（第 21 頁）

#### 7 調整所需要的聲音

- 使用聲音修正器功能（第 22 頁）
- 使用相位控制獲得更佳音效（第 22 頁）
- 使用後環繞聲道處理模式（第 23 頁）
- 設定 Up Mix 功能（第 23 頁）
- 設定音訊選項（第 23 頁）
- 揚聲器設定選單（第 25 頁）

## 第 1 章： 控制與顯示

### 前面板



#### 1 INPUT SELECTOR 旋鈕

可選取一輸入來源（第 17 頁）。

#### 2 接收器控制按鍵

**SPEAKERS** – 用於開啟或關閉揚聲器系統。選取 **SP OFF** 時，連接此接收器的揚聲器不輸出任何聲音。

**DIMMER** – 可調暗或調亮顯示幕的亮度。控制亮度的步驟有四個。

**DISPLAY** – 切換本機顯示幕。選擇輸入來源可檢查聆聽模式、音量或輸入名稱。

#### 3 字元顯示幕

請參閱第 7 頁的顯示乙節。

#### 4 調諧器控制按鍵

**BAND** – 切換 AM、FM ST（立體聲）和 FM MONO 廣播頻段（第 18 頁）。

**TUNER EDIT** – 搭配 **TUNE** ↑/↓、**PRESET** ←/→ 和 **ENTER** 來記憶並命名方便找出收聽的電台（第 18 頁）。

**TUNE** ↑/↓ – 用於尋找廣播頻道（第 18 頁）。

**PRESET** ←/→ – 用於選取預設電台（第 19 頁）。

#### 5 遙控感應器

可接收來自遙控器的訊號（請參閱第 9 頁的遙控器的操作範圍乙節）。

#### 6 HDMI 指示燈

此燈在連接一 HDMI 設備時會閃爍，在設備接上後則會亮起（第 14 頁）。

#### 7 MASTER VOLUME 旋鈕

#### 8 ⏻ STANDBY/ON

#### 9 PHONES 插孔

用於連接耳機。耳機接上時，不會有聲音從揚聲器輸出。在從耳機聽到聲音時，只能使用 **PHONES SURR**、**STEREO** 或 **STEREO ALC** 模式選擇聆聽模式。

#### 10 聆聽模式按鍵

**AUTO SURROUND/STREAM DIRECT** – 在自動環繞聲模式（第 21 頁）與直流播放（第 22 頁）之間切換。

**ALC/STANDARD SURR** – 按下可進行標準解碼，並能在 **PL II** Pro Logic II、**PL II x** Pro Logic IIx 和 **NEO:6** 模式，以及自動音量控制立體聲模式（第 21 頁）間切換。

**ADVANCED SURROUND** – 可於各種環繞模式中進行切換（第 22 頁）。

**STEREO** – 按下可選擇立體聲播放（第 21 頁）。

## 11 SOUND RETRIEVER

按下可將 CD 品質的聲音恢復成壓縮音源  
(第 22 頁)。

## 顯示

### 12 PHASE

相位控制開啟時會亮起 (第 22 頁)。

### 13 AUTO

自動環繞聲功能開啟時會亮起 (第 21 頁)。

### 14 調諧器指示燈

**ST** – 以自動立體聲模式接收立體聲 FM 廣播時會亮起 (第 18 頁)。

**TUNE** – 調頻至正常廣播頻道時亮起。

**PRESET** – 在註冊或呼叫預設廣播電台時顯示。

**MEM** – 在註冊廣播電台時閃爍。

**kHz/MHz** – 字元顯示幕顯示目前接收的 AM/FM 廣播頻率時亮起。

### 15 揚聲器指示燈

顯示目前的揚聲器系統狀態 (第 6 頁)。

**SP▶A** 表示揚聲器為開啟狀態。

**SP▶** 表示揚聲器為關閉狀態。

### 16 睡眠定時器指示燈

接收器進入睡眠模式時會亮起 (第 8 頁)。

### 17 PRESET 資訊或輸入訊號指示燈

顯示調諧器的預設號碼或輸入訊號類型等。

### 18 字元顯示幕

顯示各種系統資訊。

### 19 DTS 指示燈

**DTS** – 偵測到有 DTS 編碼音訊訊號的來源時會亮起。

**HD** – 偵測到含 DTS-EXPRESS 或 DTS-HD 解碼音訊訊號時會亮起。

**ES** – 亮起表示 DTS-ES 解碼中。

**96/24** – 偵測到含 DTS 96/24 解碼音訊訊號時會亮起。

**NEO:6** – 當接收器其中一種 NEO:6 模式啟用，亮起表示正在進行 NEO:6 處理 (第 21 頁)。

### 20 Dolby Digital 指示燈

**DD** – 偵測到 Dolby Digital 編碼訊號時會亮起。

**DD+** – 偵測到含 Dolby Digital Plus 解碼音訊訊號時會亮起。

**DDHD** – 偵測到含 Dolby TrueHD 解碼音訊訊號時會亮起。

**EX** – 亮起表示 Dolby Digital EX 解碼中。

**DDPLII(x)** – 在指示 **DD** Pro Logic II/**DD** Pro Logic IIx 解碼中時亮起 (如需有關本功能的詳細資訊，請參閱第 21 頁的 *使用環繞音效聆聽* 乙節)。

### 21 ADV.S.

已選取其中一種先進環繞聲模式時會亮起 (詳情請參閱第 22 頁的 *使用先進環繞聲* 乙節)。

### 22 SIGNAL SELECT 指示燈

**DIGITAL** – 選取數位音訊訊號時會亮起。選擇數位音訊訊號且未選擇音訊輸入時會閃爍。

**HDMI** – 選取 HDMI 訊號時會亮起。選擇 HDMI 訊號且未選擇 HDMI 輸入時會閃爍。

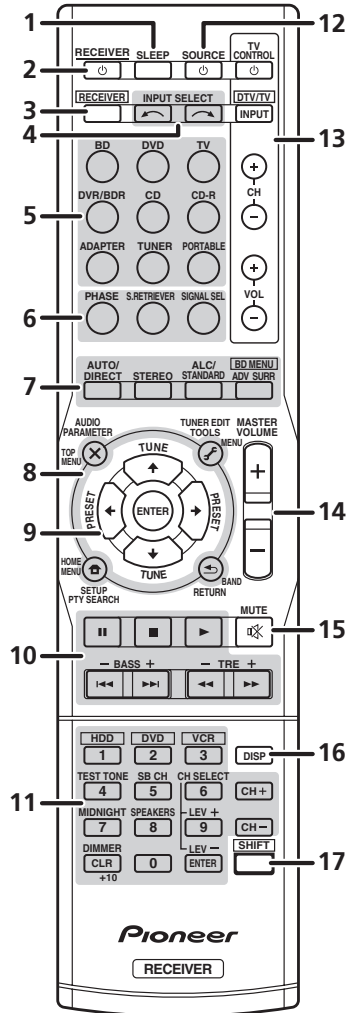
### 23 Up Mix/DIMMER 指示燈

Up Mix 功能設為 **ON** (第 23 頁) 時亮起。此外，DIMMER 設為關閉時也會亮起。

### 24 DIR.

在 **DIRECT** 或 **PURE DIRECT** 模式啟用時會亮起 (第 22 頁)。

## 遙控器



關於操作其他裝置，則預設先鋒產品的遙控代碼。無法變更設定。

**1 SLEEP**

按下可變更改收器進入待機前的時間（30 min – 60 min – 90 min – Off）。只要按下 SLEEP 按鍵一次便可查看剩餘的休眠時間。

**2 RECEIVER**

此按鍵可用以切換接收器的待機與開機。

**3 RECEIVER**

可將遙控器切換以控制接收器（用以選取數字鍵上方的白色命令（MIDNIGHT 等））。另外，使用此按鍵可設定環繞音效（第 25 頁）或音訊參數（第 23 頁）。

**4 INPUT SELECT**

用以選取輸入來源（第 17 頁）。

**5 輸入功能按鍵**

用以選取此接收器的輸入來源（第 17 頁）。此時您可使用遙控器控制其他先鋒設備。

- 此接收器不使用 ADAPTER、PORTABLE 按鍵。

**6 接收器控制按鍵**

**PHASE** – 按下以開啟/關閉相位控制（第 22 頁）。

**S.RETRIEVER** – 按下可將 CD 品質的聲音恢復成壓縮音源（第 22 頁）。

**SIGNAL SEL** – 按下即可選取設備的音訊輸入訊號進行播放（第 17 頁）。

**7 聆聽模式按鍵**

**AUTO/DIRECT** – 在自動環繞聲模式（第 21 頁）與直流播放（第 22 頁）之間切換。

**STEREO** – 按下可選擇立體聲播放（第 21 頁）。

**ALC/STANDARD** – 按下可進行標準解碼，並能在 Pro Logic II、Pro Logic IIx 和 NEO:6 模式，以及自動音量控制立體聲模式（第 21 頁）間切換。

**ADV SURR** – 可於各種環繞模式中進行切換（第 22 頁）。

首先按下 **BD** 以選取：

**BD MENU\*** – 可顯示 Blu-ray Disc 的光碟選單。

**8 系統設定以及設備控制按鍵**

下列控制鍵在選取相對的輸入功能按鍵（BD、DVD 等）後即可使用。

首先按下 **RECEIVER** 以選取：

**AUDIO PARAMETER** – 用以選取音訊選項（第 23 頁）。

**SETUP** – 按下可以進入系統設定選單（第 25 頁）。

**RETURN** – 確認並退出目前的選單畫面。

首先按下 **BD**、**DVD** 或 **DVR/BDR** 以選取：

**TOP MENU** – 可顯示 Blu-ray Disc/DVD 的「頂層」選單。

**HOME MENU** – 顯示 HOME MENU 畫面。

**RETURN** – 確認並退出目前的選單畫面。

**MENU** – 可顯示 Blu-ray Disc 播放機的 TOOLS 選單。

首先按下 **TUNER** 以選取：

**TUNER EDIT** – 記憶喚回的電台（第 18 頁），也可用於變更名稱（第 19 頁）。

**BAND** – 切換 AM、FM ST（立體聲）和 FM MONO 廣播頻段（第 18 頁）。

**9 ↑/↓/←/→ (TUNE ↑/↓, PRESET ←/→), ENTER**

可使用箭頭按鍵進行環繞音效系統的設定（第 25 頁）。亦用於控制 Blu-ray Disc/DVD 選單/選項。

使用 **TUNE ↑/↓** 可用於搜尋無線電頻率，而

**PRESET ←/→** 可用於選擇預設無線電電台（第 19 頁）。

**10 設備控制按鍵**

這些主要按鍵（▶、■ 等）用以控制使用輸入功能按鍵選取後的設備。

這些按鍵上方的控制可在選取相對的輸入功能按鍵（BD、DVD、DVR/BDR 或 CD）後即可存取。這些按鍵還有以下所述之功能。

首先按下 **RECEIVER** 以選取：

**BASS +/-**、**TRE +/-** – 用於調整低音或高音。

- 聆聽模式設定為 **DIRECT** 或 **PURE DIRECT** 時，會停用這些控制鍵。
- 前置揚聲器在揚聲器設定中設為 **SMALL** 且分頻器設定為 150 Hz 以上時，按下 **BASS +/-** 即可調整重低音聲道音量（第 25 頁）。

#### 11 數字鍵及其他設備控制

使用數字鍵可直接選擇無線電頻率（第 18 頁）或 CD 的曲目等。按下 **RECEIVER** 後也可使用其他按鍵。（例如 **MIDNIGHT** 等）

**HDD\***、**DVD\***、**VCR\*** – 這些按鍵可切換硬碟式 / DVD/CR 錄影機的硬碟、DVD 及 VCR 控制。

**SB CH** – 按下可選擇 **ON**、**AUTO** 或 **OFF** 後環繞聲道（第 23 頁）。

**CH SELECT** – 連續按可選取一聲道，再使用

**LEV +/-** 按鍵調整位準（第 26 頁）。

**LEV +/-** – 用於調整聲道位準。

**MIDNIGHT** – 可在午夜或響度聆聽模式間進行切換（第 23 頁）。

**SPEAKERS** – 用於開啟或關閉揚聲器系統。選取 **SP OFF** 時，連接此接收器的揚聲器不輸出任何聲音。

**DIMMER** – 可調暗或調亮顯示幕的亮度。控制亮度的步驟有四個。

#### 12 SOURCE

使用輸入功能按鍵選取 **BD**、**DVD**、**DVR/BDR** 或 **CD** 時，請開啟或關閉先鋒 DVD/DVR 裝置電源。

#### 13 TV CONTROL 按鍵

這些按鍵僅可使用先鋒電視控制。

⏻ – 可用以開啟 / 關閉電視機電源。

**INPUT** – 可用以選擇電視機輸入訊號。

**CH +/-** – 可用以選擇聲道。

**VOL +/-** – 可用以調整電視機音量。

**DTV/TV\*** – 在先鋒電視的數位電視與類比電視輸入模式之間切換。

#### 14 MASTER VOLUME +/-

用以設定聆聽的音量大小。

#### 15 MUTE

可進行靜音 / 取消靜音。

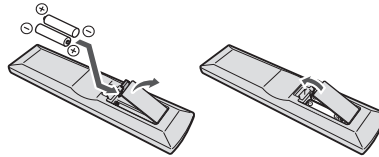
#### 16 DISP

切換本機的顯示幕。選擇輸入來源可檢查聆聽模式、音量或輸入名稱。

#### 17 SHIFT

按下可使用遙控器上的「方形」指令（位於按鍵上方）。這些按鍵在本節中皆有星號標示（\*）。

#### 裝入電池



本機內附的電池可用於檢查初始操作；電池電量可能不夠長時間使用。建議使用壽命較長的鹼性電池。

#### ⚠ 注意

- 電池使用不當會導致滲漏及爆炸等危險。請遵守下列安全注意事項：
  - 新舊電池切勿混合使用。
  - 裝入電池時，請正確對照電池匣內的正負極標示。
  - 電池形狀雖然相同，電壓可能不盡相同。不同電壓的電池切勿混合使用。
  - 處理廢舊電池時，請遵守政府條例或適用於貴國或地區的環境公共指令規則。
  - 切勿在車內或加熱設備附近等受到陽光直射或其他過熱的場合中使用或存放電池。否則不僅會導致電池漏液、過熱、爆炸或起火，還會減少電池的使用壽命或效能。

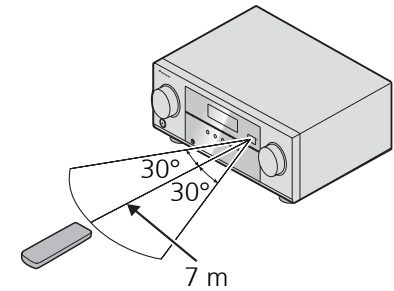
#### 警告

將電池存放在孩童及幼兒無法伸手可及之處。若不慎吞入，請立即就醫。

#### 遙控器的操作範圍

在以下狀況下，遙控器可能無法正常運作：

- 遙控器與接收器的遙控感應器之間有障礙物。
- 日光或螢光燈直射遙控感應器。
- 接收器距離會發射紅外線的設備太近。
- 接收器與其他紅外線遙控器設備同時操作。



## 第 2 章：

## 連接您的設備

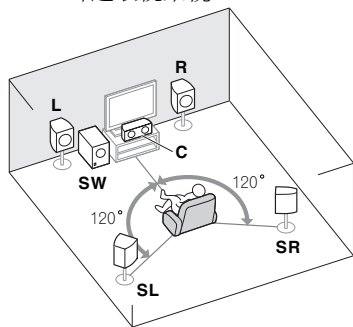
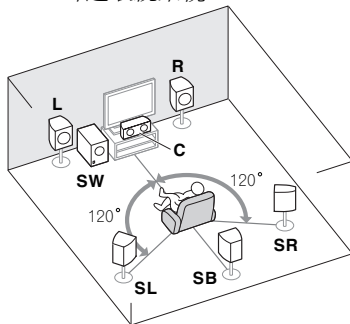
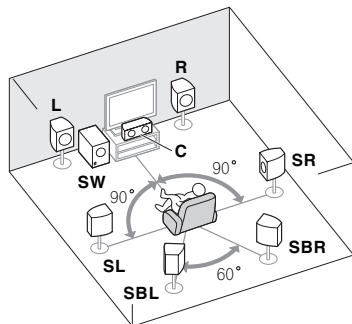
## 揚聲器之擺設

連接左右前置揚聲器（L/R），中置揚聲器（C）、左右環繞揚聲器（SL/SR）及重低音（SW）後，就能享受 5.1 聲道的環繞系統。

此外，使用外接擴大機後，您即可連接左右後環繞揚聲器（SBL/SBR），將系統提升至多達 7.1 聲道的環繞系統。

• 您也可連接一部後環繞揚聲器（SB）並享受 6.1 聲道的環繞系統。為了能獲得最佳的環繞音效，請按照下圖方式安裝所有揚聲器。

5.1 聲道環繞系統：

6.1 聲道環繞系統：<sup>a</sup>7.1 聲道環繞系統：<sup>a</sup>

- a. 這種配置僅能使用於另外的擴大機與本機連接且後環繞揚聲器與擴大機連接時。詳情請參閱第 11 頁的**連接後環繞揚聲器**乙節。

## 揚聲器擺設的提示

對於音效的品質來說，您所擺放揚聲器的地方會有極大的影響。以下的指南將會協助您自系統中得到最佳的音效。

- 重低音可以擺放在地上。在理想的方式上，最好是將其他揚聲器擺放在您聆聽時接近耳朵的高度。不建議將揚聲器置於地板上（重低音除外），或將它們安裝在牆上很高的位置。
- 要想得到最好的立體聲效果，請將前置揚聲器擺在分開 2 m 至 3 m 遠、與電視機同等距離的位置上。
- 若您要將揚聲器放在 CRT 電視附近，請使用遮蔽式揚聲器或將揚聲器放置在離 CRT 電視一定距離的位置。
- 若有使用中置揚聲器，請將前置揚聲器擺在較寬的角度上。若沒使用，則擺在較窄的角度上。
- 請將中置揚聲器擺在電視機上方或下方，以使用中置聲道如同座落在電視機螢幕上一樣。另外，請確定中置揚聲器並未超過左、右前置揚聲器前緣的連線。
- 揚聲器面對聆聽位置為最佳角度。此角度取決於房間的大小。房間越大，所使用的角度越小。
- 環繞及後環繞揚聲器應擺在高出您耳朵 60 cm 至 90 cm 的位置，並向下微傾。揚聲器請不要面向彼此擺放。對於 DVD-Audio，揚聲器要比家庭劇院播放時更直接放在聆聽者身後。
- 如果環繞揚聲器無法直接設定為 7.1 聲道系統的聆聽位置，關閉 Up Mix 功能可以增強環繞聲效果（請參閱第 23 頁的**設定 Up Mix 功能**乙節）。
- 請不要將環繞揚聲器擺在比前置及中置揚聲器距離聆聽位置更遠的地方。以免減弱環繞聲的效果。

## ▲ 注意

- 請確定所有揚聲器均已牢牢安裝。這不僅有助於改善音質，更可減少因地震等外力導致揚聲器翻倒或掉落而造成損壞或使人受傷的危險。

## 🔔 重要

- 若要連接後環繞揚聲器，您需要另外的擴大機。將另外的擴大機連接至本機的 **SURR BACK PRE OUT** 輸出，然後將後環繞揚聲器連接至另外的擴大機（請參閱第 11 頁的**連接後環繞揚聲器**乙節）。



### 連接揚聲器

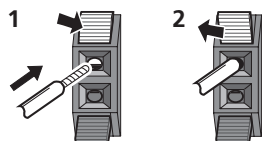
本接收器僅需兩只立體聲揚聲器就可運作（如圖中的前置揚聲器），但建議請至少使用三只揚聲器，再加上完整的設定為環繞音效最好的組合。

請確實將右置的揚聲器接至右側（R）端子，左置的揚聲器接至左側（L）端子。另請將本接收器的正、負（+/-）端對應至揚聲器上相符的端子。

將裝置接上 AC 電源前，請務必完成所有的接線工作。

#### 裸露金屬線之連接方式

- 1 推開端子，插入裸露的導線。
- 2 鬆開端子。



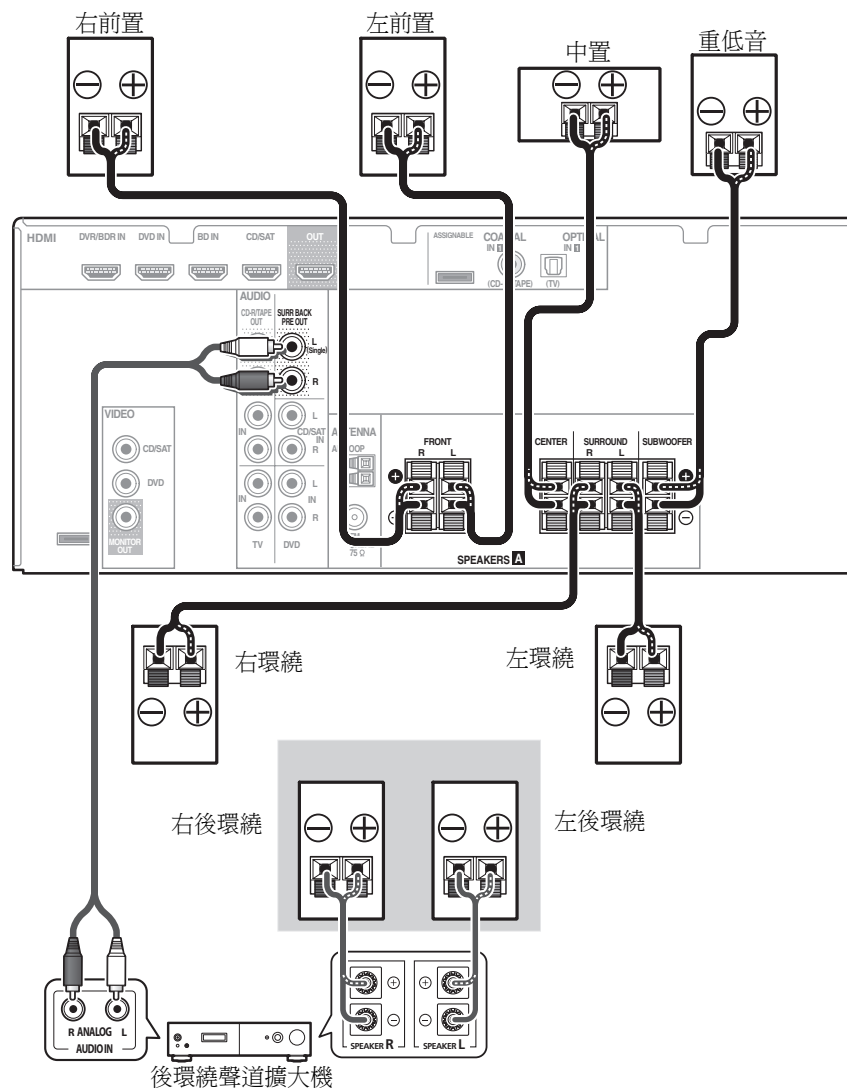
#### 注意

- 這些揚聲器端子均帶有**危險電壓**。為避免在連接或脫離揚聲器線時發生電擊危險，在觸摸任何未絕緣部分之前，請先將電源線插頭拔離。
- 請確定所有裸露的揚聲器導線都已完全插入揚聲器端子中。若有任何裸露的揚聲器金屬線接觸到背面面板，則可能導致電源切斷以策安全。

### 連接後環繞揚聲器

連接本機的 **SURR BACK PRE OUT** 輸出和另外的擴大機以增加後環繞揚聲器。

- 您也可以在后環繞聲道前置輸出上連接另外的擴大機供單體揚聲器使用。此時，僅將擴大機入左聲道（L (Single)）端子。



## 連接線

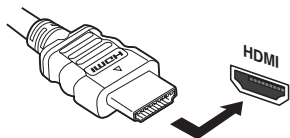
請勿將連接線折彎繞過本機上方。否則本機內部變壓器所產生的磁場可能會使揚聲器產生嗡嗡的雜音。

### 重要

- 在接線或更動接線前，請關閉電源並將電源線插頭從 AC 電源插座上拔掉。
- 在拔掉電源線之前，請將電源切換成待機。

## HDMI 連接線

使用一條連接線可同時傳輸視訊及聲音訊號。若透過此接收器連接播放器與電視，則兩部設備的連接可使用 HDMI 連接線。



請小心以正確方向連接端子。

### 附註

- 若是您經由您電視機聽到 HDMI 聲音輸出的話（聲音不會從本機中輸出），請將第 23 頁的設定音訊選項中的 HDMI 參數設定成 **THRU**（通過）並將第 17 頁的選擇音訊輸入訊號中的輸入訊號設定成 **HDMI**。
- 若您的電視機未顯示視訊訊號，請試著調整設備或顯示器的解析度設定。請注意，某些設備（如電玩遊樂器）的解析度無法顯示。在這個情況中，請使用（類比）視訊連接。
- 來自 HDMI 的視訊訊號是 480i、480p、576i 或 576p 時，無法接收 Multi Ch PCM 聲和 HD 聲。

## 關於 HDMI

HDMI 連接可傳輸未壓縮的數位視訊，以及與所有連接設備相容的數位音訊，包括：DVD-Video、DVD-Audio、Dolby Digital Plus、Dolby TrueHD、DTS-HD Master Audio（請參閱接下來說明中的各種限制）、VCD/ 超級 VCD 及 CD。

本接收器整合高傳真多媒體介面（HDMI<sup>®</sup>）技術。本接收器支援以下描述的透過 HDMI 連接的功能。

- 數位傳送未壓縮的視訊（內容受到 HDCP 的保護（1080p/24、1080p/60 等））
- 3D 訊號傳送
- Deep Color 訊號傳送
- x.v.Color 訊號傳送
- 音訊返回通道（請參閱第 27 頁的使用 ARC（音訊返回通道）功能乙節）
- 輸入最多 8 個頻道的多頻道線性 PCM 數位音訊訊號（192 kHz 或以下）
- 輸入下列數位音訊格式：
  - Dolby Digital、Dolby Digital Plus、DTS、高位元率音訊（Dolby TrueHD、DTS-HD Master Audio）、DVD-Audio、CD、VCD、超級 VCD。

### 附註

- 使用 High Speed HDMI<sup>®</sup> Cable。若使用除 High Speed HDMI<sup>®</sup> Cable 以外的 HDMI 連接線，則可能無法正常發揮作用。
- 連接有內建等化器的 HDMI 連接線時，可能無法正常操作。
- 只有在連接至相容裝置時才能使用 3D、Deep Color、x.v.Color 訊號傳輸及音訊返回通道。
- HDMI 格式數位音訊傳輸需要更長的確認時間。正因為如此，在切換音訊格式或開始播放時，可能會發生音訊中斷。
- 播放時開啟／關閉連接本機的 HDMI OUT 端子的裝置電源，或在播放時脫離／連接 HDMI 連接線，都可能造成雜訊或音訊中斷。

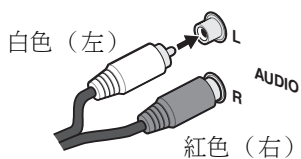
HDMI、HDMI 標誌及 High-Definition Multimedia Interface 均為 HDMI Licensing, LLC 在美國和其他國家的商標或註冊商標。

「x.v.Color」和 **x.v.Color** 是 Sony Corporation 的商標。

## 連接您的設備

### 類比音訊線

請使用立體聲 RCA 音源線連接類比音訊設備。此種連接線一般分為紅色和白色，紅色插頭應插至 R（右聲道）端子，而白色插頭則插至 L（左聲道）端子。



### 視訊線

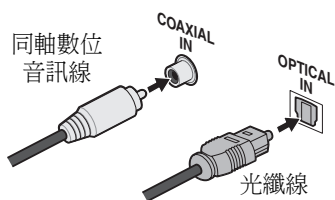
#### 標準 RCA 視訊線

此種連接線為最常用類型的視訊接線，主要是用來連接複合視訊端子。黃色插頭則是用來區別視訊線與音訊線。



### 數位音訊線

請使用一般市面上的同軸數位音訊線或光纖線，將數位設備連接至本接收器上。

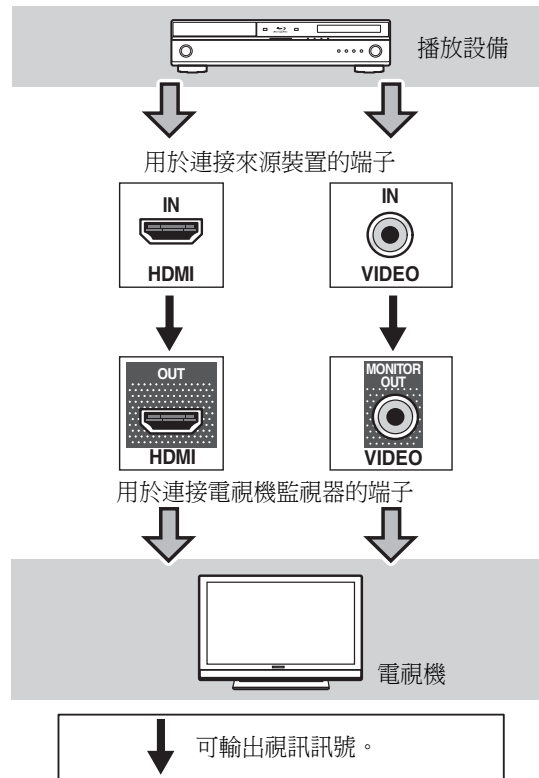


#### 附註

- 連接光纖連接線時，在插入插頭時小心不要損壞到保護光纖插座的護蓋。
- 存放光纖連接線時，請鬆鬆地捲起來放好。若將連接線折彎繞過尖角，可能會造成損壞。
- 標準 RCA 視訊線也可用於同軸數位連接。

### 關於連接視訊輸出

本接收器未搭載視訊轉換器。當您使用 HDMI 連接線來連接至輸入裝置時，應使用相同的連接線連接至電視機。來自本機類比（複合）視訊輸入的訊號將不會從 HDMI OUT。

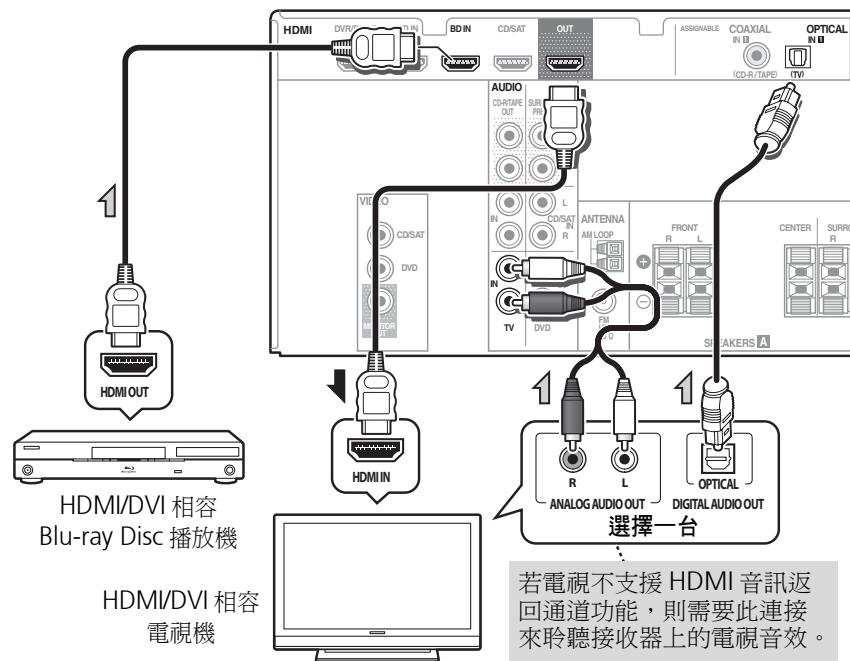


## 連接電視機及播放設備

### 使用 HDMI 連接

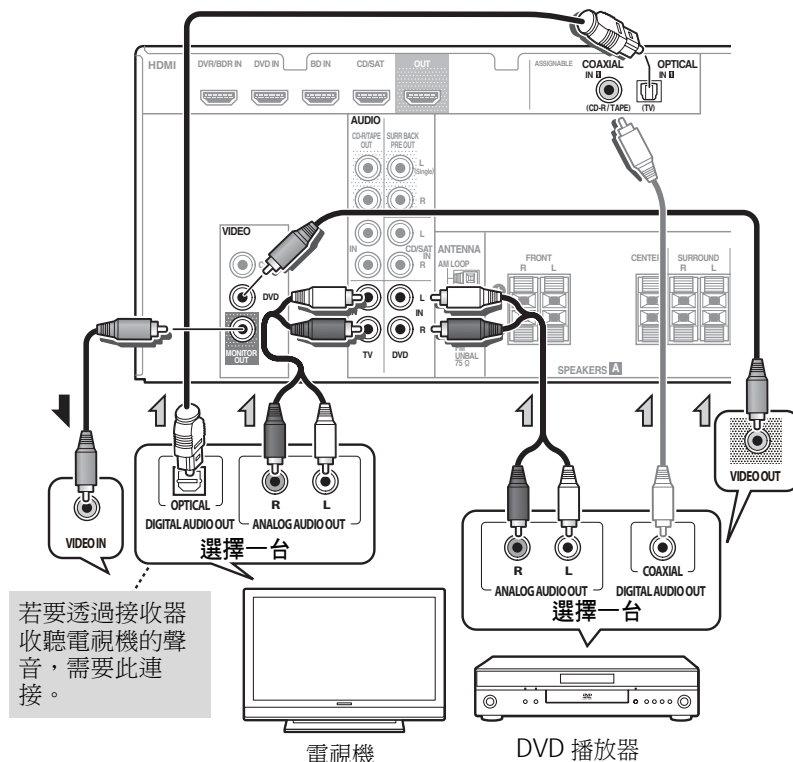
如果您有 HDMI 或 DVI (附 HDCP) 型設備 (Blu-ray Disc 播放機等)，您便可使用市售的 HDMI 連接線，將其連接至接收器。

- 需要下列連接/設定才能在本接收器上聆聽電視音效。
  - 若電視不支援 HDMI 音訊返回通道功能，請用音訊線連接接收器與電視 (如圖所示)。
  - 若電視支援 HDMI 音訊返回通道功能，電視音效會透過 HDMI 端子輸入至接收器，因此不需要連接音訊線。這時，請於 **HDMI SET** 將 **ARC** 設為 **ON** (請參閱第 27 頁的 **ARC 設定** 乙節)。



### 連接沒有 HDMI 端子的設備

本圖顯示沒有 HDMI 端子的電視與 DVD 播放器 (或其他播放設備) 和接收器的連接方式。



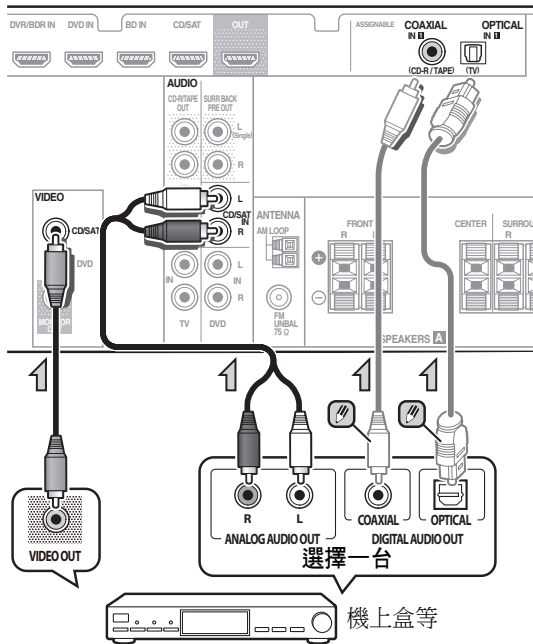
#### 附註

- 若要聆聽使用同軸纜線連接此接收器的 DVD 播放器音訊，請先切換至 **DVD** 輸入，然後按 **SIGNAL SEL** 以選擇音訊訊號 **C1 (COAXIAL1)** (請參閱第 17 頁的 **選擇音訊輸入訊號** 乙節)。

### 連接衛星接收器或其他數位機上盒

衛星、有線接收器及地面數位電視調諧器，均稱為「機上盒」設備。

- 若機上盒或視訊設備也有 HDMI 輸出，您也可連接此端子。詳情請參閱第 14 頁的 *使用 HDMI 連接* 乙節。



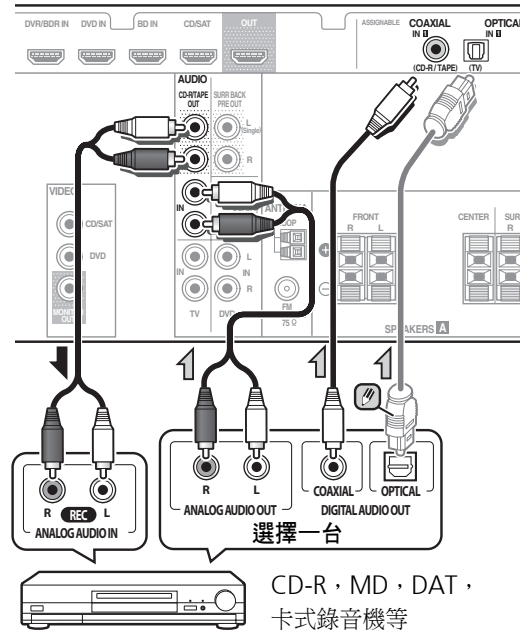
#### 附註

- 若要聆聽使用光纖或同軸纜線連接此接收器的來源設備音訊，請先切換至 **CD/SAT**，然後按 **SIGNAL SEL** 以選擇音訊訊號 **C1** (COAXIAL1) 或 **O1** (OPTICAL1) (請參閱第 17 頁的 *選擇音訊輸入訊號* 乙節)。

### 連接其他音訊設備

接線的數量及種類需視連接的設備類型而定。請按照以下步驟連接 CD-R、MD、DAT、卡式錄音機或其他音訊設備。

- 請注意，若想在數位設備（如 MD）與類比設備之間來回錄製，則必須將數位設備連接至類比音訊插孔上。

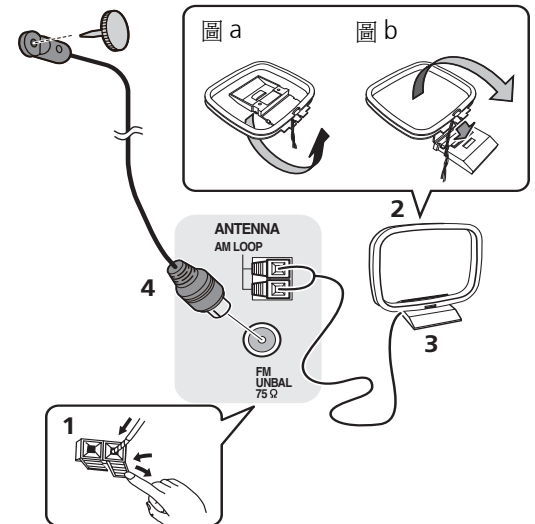


#### 附註

- 若要聆聽使用光纖纜線連接此接收器的 CD 播放器音訊，請先切換至 **CD-R** 輸入，然後按 **SIGNAL SEL** 以選擇音訊訊號 **O1** (OPTICAL1) (請參閱第 17 頁的 *選擇音訊輸入訊號* 乙節)。

### 連接天線

請依下圖方式連接 AM 環型天線及 FM 線型天線。要改善接收效果及聲音品質，可連接外部天線（請參閱以下的 *使用外部天線* 乙節）。

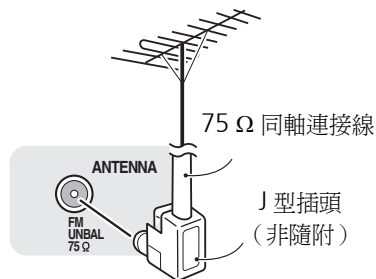


- 1 按開固定片，然後將每條導線插入各個端子，接著放開固定片將 AM 天線固定。
- 2 將 AM 環型天線固定在附送腳架上。將腳架固定到天線上，請依箭頭指示方向折彎（圖 a），再將環圈夾到腳架上（圖 b）。
- 3 將 AM 天線置於平坦的表面上，並面向能提供最佳接收效果的方向。
- 4 將 FM 線型天線連接至 FM 天線插座。為了能獲得最佳的接收效果，請將 FM 天線完全展開並固定到牆上或門框上。切勿將線鬆弛地垂掛或捲起。

## 使用外部天線

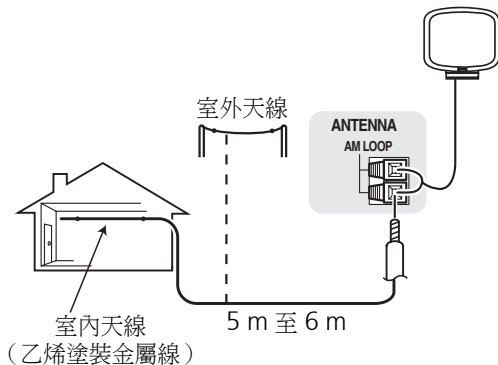
### 改善 FM 接收效果

使用 PAL 接頭（未隨附）來連接外部 FM 天線。



### 改善 AM 接收效果

可連接一條 5 m 至 6 m 長的乙稀塗裝金屬線連接至 AM 天線端子，無須將隨附的 AM 環型天線拆離。為了能獲得最佳的接收效果，請水平懸掛於室外。



## 插上接收器電源

只有在將所有設備連接至本接收器（包括揚聲器）時，才能插入接收器電源。

### ⚠ 注意

- 手拿電源線時請握住插頭部分。切勿拖著線將插頭拔出，並不可在您手濕的時候觸摸電線，因為這樣會造成短路或受到電擊。請勿將本機、傢俱或其他物體放在電源線上或有任何擠壓到電線的情形發生。絕不可將線打結或與其他連接線纏繞在一起。電源線在佈置上不可會有腳踩到的情形。破損的電源線會引起火災或讓您遭受電擊。請每隔一段時間檢查一次電源線。若您發現到有破損，請洽最近的先鋒授權服務公司尋求更換。
- 請勿使用不是本機隨附的其他電源線。
- 請勿將電源線用於非下列所述之範圍。
- 不常使用時（例如，休假時），本機應把主電源插頭從牆上插座拔掉將電源切斷。

### 🔧 附註

- 連接此接收器至 AC 電源插座後，開始 2 秒至 10 秒的 HDMI 初始化程序。在此程序期間無法執行任何操作。在此程序期間，前面板顯示幕的 HDMI 指示燈閃爍，您可以在它一停止閃爍時即開啟此接收器的電源。將 HDMI 設定 ARC 設定為 OFF 時，您可略過此程序。詳情請參閱第 27 頁的使用 ARC（音訊返回通道）功能乙節。

- 1 將隨附的電源線插入接收器背面的 AC IN 插座內。
- 2 將另一端插入電源輸出插座內。

## 第 3 章： 基本播放功能

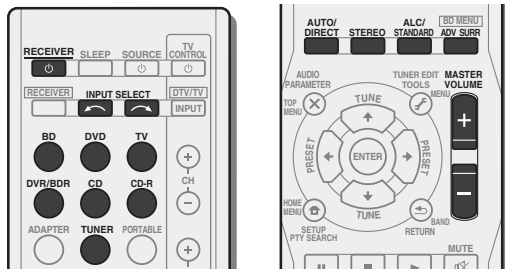
### 取消示範顯示

不使用接收器時，前面板上的顯示幕會顯示各種資訊（示範顯示）。

您可以關閉示範顯示。詳情請參閱第 26 頁的 *FL 示範模式選單* 乙節。

### 播放來源

在此提供一些利用您的家庭劇院系統在播放來源（如 DVD 碟片）時的基本操作方式。



#### 1 打開您的系統設備及接收器。

先打開播放設備（例如 DVD 播放器）、您的電視機，再來是接收器（按下 **RECEIVER**）。

#### 2 切換電視輸入為連接此接收器的輸入。

例如，若是您將本接收器接至電視機的 **VIDEO** 插孔，則請確定現在所選取的輸入是 **VIDEO**。

#### 3 按下輸入功能按鍵可選擇您要播放的輸入功能。

- 接收器的輸入將轉換，且您將能夠使用遙控器操作其他設備。若要操作接收器，請先按下遙控器上的 **RECEIVER**，然後再按適當的按鍵進行操作。

- 也可使用遙控器上的 **INPUT SELECT** 按鍵，或前面板的 **INPUT SELECTOR** 旋鈕來選擇輸入來源。此時，遙控器不會切換操作模式。

若您已選擇適當的輸入來源且仍無聲音，請選擇音訊輸入訊號進行播放（請參閱以下的 *選擇音訊輸入訊號*）。

#### 4 按下 **AUTO/DIRECT** 選擇「**AUTO SURROUND**」並開始播放來源。

若您正在播放使用數位音訊連接的 Dolby Digital 或 DTS 環繞音效的 DVD 碟片，那麼您應可聽到環繞音效。若您是在播放立體聲來源，或者以類比音訊連接，那麼您只能在預設的聆聽模式下聽到來自左／右前置揚聲器的音效。

您可以在顯示幕前面板上查看環繞音效播放是否正常執行。

使用後環繞揚聲器時，在播放 Dolby Digital 5.1 聲道訊號時顯示 **DOD+PLIIX**，而在播放 DTS 5.1 聲道訊號時，顯示 **DTS+NEO:6**。

未使用後環繞揚聲器時，播放 Dolby Digital 訊號時顯示 **DOD**。

如果顯示未對應輸入訊號和收聽模式，請檢查連接和設定。

#### 附註

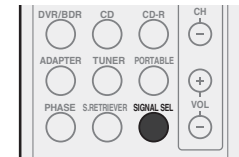
- 您可能需要檢查 DVD 播放器或數位衛星接收器上的數位音訊輸出設定值。以確定是否設定為輸出 Dolby Digital、DTS 及 88.2 kHz/96 kHz PCM（雙聲道）音訊；若有 MPEG 音訊選項，請設定此選項將 MPEG 音訊轉換成 PCM。
- 因 DVD 播放器或碟片的不同，您可能只能取得數位雙聲道立體聲和類比音效。此時若您想要聆聽多聲道環繞音效，接收器必須設為多聲道聆聽模式。

#### 5 使用 **MASTER VOLUME** 可調整音量。

轉低您電視機的音量，如此才能讓所有音效能直接來自連接本接收器的揚聲器。

### 選擇音訊輸入訊號

可選擇各輸入來源使用的音訊輸入訊號。完成設定後，每當您使用輸入功能按鍵選擇輸入來源時，就會套用已選擇的音訊輸入。



#### ● 按下 **SIGNAL SEL** 按鍵選取相對於來源設備的音訊輸入訊號。

每次按下時可選取以下選項：

- H** – 選擇 HDMI 訊號。**H** 可選擇用於 **BD**、**DVD**、**DVR/BDR** 及 **CD/SAT** 輸入。至於其他輸入，則無法選用 **H**。
  - 當第 23 頁的 *設定音訊選項* 中的 **HDMI** 選項設定為 **THRU** 時，將會透過電視機而非本接收器聽到聲音。
  - C1/O1** – 選取數位輸入。選擇同軸 1 輸入以用於 **C1**，選擇光纖 1 音訊輸入以用於 **O1**。
  - A** – 選取類比輸入。
- 選擇 **H** (HDMI) 或 **C1/O1** (數位) 且未提供選擇的音訊輸入時，將自動選擇 **A** (類比)。
- 除 **BD**、**DVR/BDR** 以外的輸入。

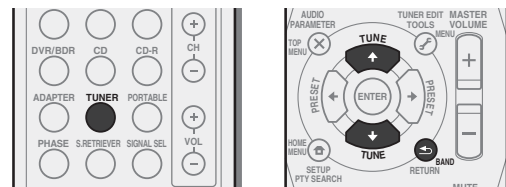
#### 附註

- 若為 **TV** 輸入，則只能選擇 **A** (類比) 或 **C1/O1** (數位)。不過，若 **HDMI SET** 的 **ARC** 設為 **ON** 時，輸入會固定為 **H** (HDMI) 且無法變更。
- 設定為 **H** (HDMI) 或 **C1/O1** (數位) 時，**DOD** 在 Dolby Digital 訊號輸入時會亮起，**DTS** 則會在 DTS 訊號輸入時亮起。
- 選取 **H** (HDMI) 時，**A** 及 **DIGITAL** 指示燈會關閉（請參閱第 7 頁）。

- 選取數位輸入（光纖或同軸）時，本機僅能播放 Dolby Digital、PCM（32 kHz 至 96 kHz）及 DTS（包括 DTS 96 kHz/24 位元）數位訊號格式。經過 HDMI 端子的相容訊號包括：Dolby Digital、DTS、PCM（32 kHz 至 192 kHz 取樣頻率）、Dolby TrueHD、Dolby Digital Plus、DTS-EXPRESS、DTS-HD Master Audio 和 DVD Audio（包括 192 kHz）。若要使用其他數位訊號格式，請設定成 **A**（類比）。
- 與 DTS 相容的 LD 或 CD 播放器播放類比訊號時，播放時可能會產生雜訊。若要避免產生雜訊，請進行適當的數位連接（第 13 頁）並將訊號輸入設定成 **C1/O1**（數位）。
- 部分 DVD 播放器無法輸出 DTS 訊號。更多細節，請參閱 DVD 播放器隨附之操作手冊。
- 本產品不相容於 DSD 解碼。在相容於 SACD 的播放機上播放 SACD 時，將播放機上的輸出設定設為 PCM。有關詳細資訊，請參閱播放器的操作手冊。

## 收聽收音機

以下步驟為說明如何利用自動（搜索）及手動（間隔）調諧功能調選 FM 及 AM 廣播節目的方法。在完成選台後，可記憶頻率便於叫出收聽 — 更多關於此項操作的說明，請參閱以下的**儲存預設電台**乙節。



1 按下 **TUNER** 以選取調諧器。

2 如有必要，使用 **BAND** 按鍵切換波段（FM 或 AM）。

每次按下可切換 FM（立體聲或單聲道）及 AM 兩者之間的波段。

3 調選電台。

共有三種調選方式：

### 自動調諧

要在目前所選的波段中搜索電台，請按住 **TUNE** ↑/↓ 按鍵大約一秒鐘。接收器便會往下一個電台開始搜索，直至搜索到電台為止。要搜索其他電台，請重複上述步驟。

### 手動調諧

要逐步變更頻率，請按下 **TUNE** ↑/↓ 按鍵。

### 高速調諧

持續按住 **TUNE** ↑/↓ 按鍵可進行高速調諧。搜索到所需頻率時請放開按鍵。

## 改善 FM 音質

若在調選到一 FM 電台時因訊號微弱而導致 **TUNE** 或 **ST** 指示燈未亮，請將接收器切換至單聲道接收模式。

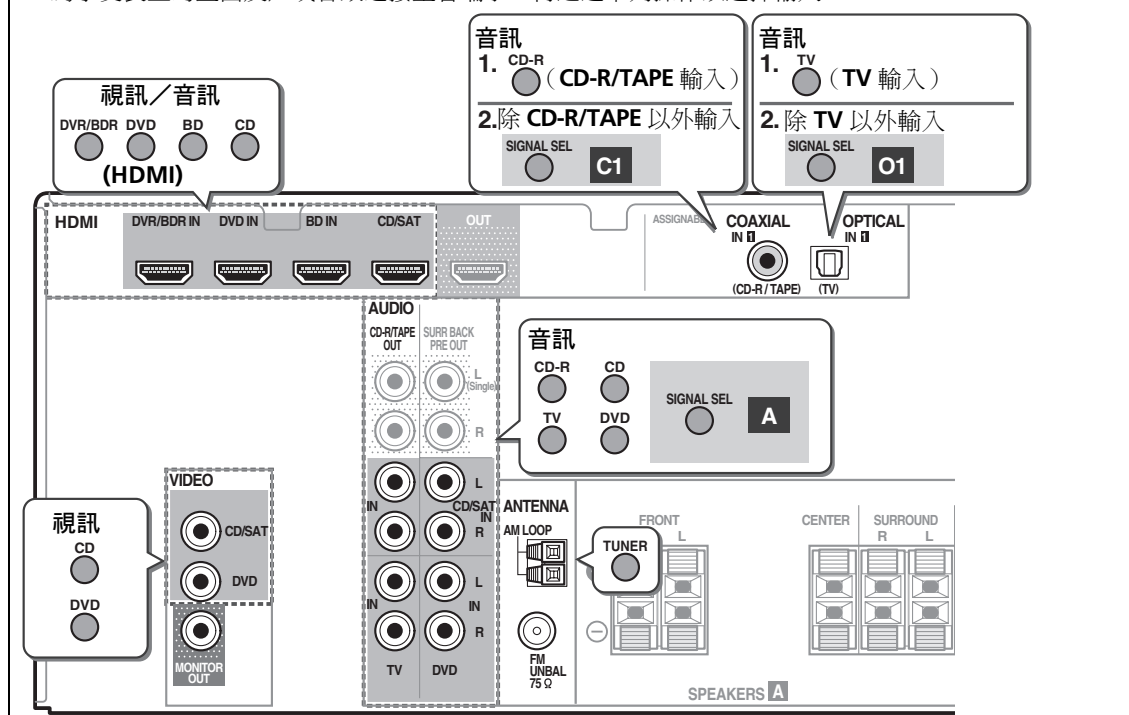
- 按下 **BAND** 以選取 **FM MONO**。

如此應可有效改善音質，進而享受廣播的樂趣。



### 提示

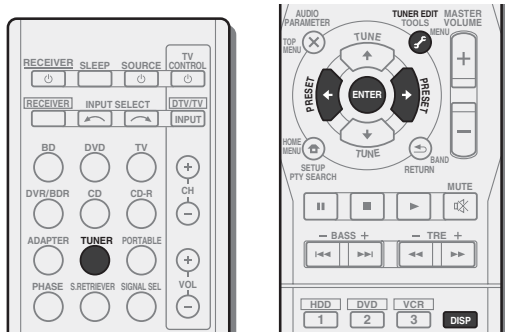
- 為享受裝置的畫面及／或音效連接至各端子，再透過下列操作以選擇輸入。





## 儲存預設電台

若經常固定收聽一個電台，最方便的方式是讓接收器將頻率儲存起來，日後隨時想聽節目時就可叫出來收聽。如此便無須每次手動微調。本機最多可記憶 30 個電台。



### 1 調至想要記憶的電台。

詳情請參閱第 18 頁的*收聽收音機*乙節。

### 2 按下 TUNER EDIT 按鍵。

顯示幕顯示 **PRESET**，然後閃爍 **MEM** 和預設電台。

### 3 按下 PRESET ←/→ 選取所要的預設電台。

您也可以利用數字鍵。

### 4 按下 ENTER 按鍵。

在按下後，預設數字會停止閃爍，同時接收器會儲存電台。

## 附註

- 如果接收器超過一個月未接上 AC 電源，則電台記憶將會消失，您必須重新編排。
- 電台會以立體聲儲存。以 FM MONO 模式儲存電台後，在喚回時會顯示為 **ST**。

## 收聽預設電台

必須已儲存一些電台才可進行此項操作。若尚未儲存，則請參閱上文的*儲存預設電台*乙節。

- 按下 **PRESET ←/→** 選取所要的預設電台。
- 預設電台亦可使用遙控器的數字鍵叫出收聽。

## 命名預設電台

為了能更容易識別，您可以將所有預設電台命名。

### 1 選擇要命名的預設電台。

請參閱上文的*收聽預設電台*乙節以便進行連接。

### 2 按兩下 TUNER EDIT 按鍵。

第一個字元位置上的游標在顯示幕上閃爍。

### 3 輸入想要的名稱。

選擇最多八個字元長度的名稱。

- 可用 **PRESET ←/→** 以選擇字元位置。
- 可用 **TUNE ↑/↓** 以選擇字元。
- 按下 **ENTER** 時會儲存名稱。

## 提示

- 若要刪除電台名稱，請依照步驟 1 與 2，然後在顯示幕空白時按下 **ENTER**。在顯示幕空白時按下 **TUNER EDIT** 以保留之前的名稱。
- 將預設電台命名後，請按 **DISP** 以顯示名稱。要返回頻率顯示時，按數次 **DISP** 以顯示頻率。

## 切換無線電頻率間隔

若發現無法成功調選到電台，則表示該頻率間隔不適用於所在的國家/地區。以下為切換設定值的方式：

### 1 將接收器切換成待機。

### 2 在按住 TUNE ↓ 按鍵時，同時按住 ⏻ STANDBY/ON 按鍵約兩秒鐘。

- 每次操作時，可輪流切換 **10K STEP** 與 **9K STEP** 的聲道調諧間隔。

## 錄音

您可經由內建調諧器或連接至本接收器的音訊進行錄音（如 CD 播放器）。

只能錄製透過類比音訊輸入輸入至本接收器的音訊訊號。透過 HDMI 連接線或數位音訊線（光纖／同軸）輸入的訊號無法錄製（有關連接的詳細資料請參閱第 15 頁的 [連接其他音訊設備](#) 乙節）。



### 1 按下輸入功能按鍵可選擇您要錄製的輸入功能。

接收器的輸入將轉換，且您將能夠使用遙控器操作其他設備。

- 也可使用遙控器上的 **INPUT SELECT** 按鍵，或前面板的 **INPUT SELECTOR** 旋鈕來選擇輸入來源。

### 2 選擇音訊輸入訊號（如有必要）。

若要錄製來源設備，請按下 **SIGNAL SEL** 鍵並選擇類比輸入（**A**）（有關詳細資料請參閱第 17 頁）。

### 3 準備好要錄製的來源。

請調選電台、置入 CD 等。

### 4 準備好錄製設備。

將空白的錄音帶、MD 等置入錄製設備並設定錄製音量。

若不確定如何進行，請參閱錄製設備隨附操作手冊。

### 5 開始錄製，然後開始播放來源設備。

#### 附註

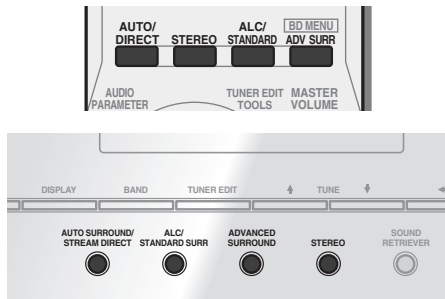
- 接收器的音量、平衡、音調（低音、高音、響度）及環繞音效不會對錄製訊號造成影響。

## 第 4 章： 聆聽您的系統

### 選擇聆聽模式

此接收器擁有多種聆聽模式，可容納各種音訊格式進行播放。請依您的揚聲器環境或來源選擇一種聆聽模式。

- 聆聽來源時，請重複按下聆聽模式按鍵以選擇所需的聆聽模式。



- 聆聽模式會顯示在前面板上的顯示幕上。

### 重要

- 本章節中所說明的聆聽模式及許多功能會視目前來源、設定值及接收器的狀態而可能無法適用。

### 自動播放



最簡單、直接的聆聽選擇就是使用 **AUTO SURROUND** 功能。藉由此項功能，接收器便可自動偵測播放來源的種類，並依需要選擇多聲道或立體聲播放。

- 持續按 **AUTO/DIRECT**，直到顯示幕出現 **AUTO SURROUND**（之後便會顯示解碼或播放格式）。查看顯示幕中的數位格式指示燈，確認正在處理的來源。

### 附註

- 立體環繞聲（矩陣）格式是使用 **NEO:6 CINEMA** 或 **DOLBY PLIIX MOVIE** 解碼（更多與此類解碼格式相關的資訊，請參閱以下的 *使用環繞音效聆聽* 乙節）。

### 使用環繞音效聆聽



使用本接收器，可聆聽環繞音效任何來源。但此選項需視揚聲器設定及收聽來源類型而定。

- 若為 Dolby Digital、DTS 或 Dolby Surround 編碼來源，接收器會自動偵測正確的解碼格式並顯示在顯示幕中。

選取 **STEREO ALC**（自動音量控制立體聲模式）時，若各個聲音位準與以可攜式音訊播放器錄製的音樂來源不同，本機將等化播放聲音位準。

選取 **STEREO** 時，只要透過左、右前置揚聲器（以及重低音揚聲器，不過需視揚聲器設定而定）便能聆聽來源。Dolby Digital 和 DTS 多聲道來源均會縮混成立體聲。

以下模式可適用於立體聲及多聲道來源，提供基本的環繞聲效果。

### 備註說明

否：未連接 / 是：已連接 / 二：已連接兩部揚聲器 / -：是否連接

環繞模式類型	適用來源	後環繞揚聲器
<b>雙聲道來源</b>		
<b>STEREO ALC</b>	請參閱上文。	-
<b>DOLBY PLIIX MOVIE</b>	電影	是 <sup>a</sup>
<b>DOLBY PLII MOVIE</b>		否
<b>DOLBY PLIIX MUSIC<sup>b</sup></b>	音樂	是 <sup>a</sup>
<b>DOLBY PLII MUSIC<sup>b</sup></b>		否
<b>DOLBY PLIIX GAME</b>	電玩遊戲	是 <sup>a</sup>
<b>DOLBY PLII GAME</b>		否
<b>NEO:6 CINEMA<sup>c</sup></b>	電影	-

環繞模式類型	適用來源	後環繞揚聲器
<b>NEO:6 MUSIC<sup>c</sup></b>	音樂	-
<b>DOLBY PRO LOGIC</b>	老電影	-
直接解碼 <sup>d</sup>	無其他效果	-
<b>STEREO<sup>e</sup></b>	請參閱上文。	-
<b>多聲道來源</b>		
<b>STEREO ALC</b>	請參閱上文。	-
<b>DOLBY PLIIX MOVIE</b>	電影	二 <sup>a</sup>
<b>DOLBY PLII MOVIE</b>		否
<b>DOLBY PLIIX MUSIC<sup>b</sup></b>	音樂	二 <sup>a</sup>
<b>DOLBY PLII MUSIC<sup>b</sup></b>		否
<b>DOLBY DIGITAL EX</b>	電影 / 音樂	是
<b>DTS-ES</b>	電影 / 音樂	是
<b>DTS NEO:6</b>	電影 / 音樂	是
直接解碼 <sup>d</sup>	無其他效果	-
<b>STEREO<sup>e</sup></b>	請參閱上文。	-

- 若將後環繞聲道處理功能（第 23 頁）切換至關閉，或將後環繞揚聲器設定為 **NO**，則 **DOLBY PLIIX** 會轉為 **DOLBY PLII**（5.1 聲道音效）。
- 您也可調整 **C.WIDTH**、**DIMEN.** 及 **PNRM.** 音效（請參閱第 23 頁的 *設定音訊選項* 乙節）。
- 您也可調整 **C.IMG** 音效（請參閱第 23 頁的 *設定音訊選項* 乙節）。
- 本模式只能在關閉後環繞揚聲器聲道處理（第 23 頁）後選擇。
- 您可使用 **STEREO** 按鍵來選擇 **STEREO** 模式。
  - 聲音可配合環繞音效設定聆聽，同時還可使用午夜、響度、相位控制、聲音修正器及音調等功能。

### 附註

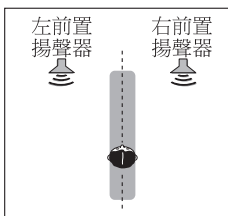
- 在各項能提供 6.1 聲道音效的模式中，相同的訊號會從兩個後環繞揚聲器聽到。

### 使用先進環繞聲



先進環繞聲效果可產生各種其他的環繞聲效果。請配合個人喜好在各種音效上嘗試不同的設定。

<b>ACTION</b>	專為帶有動態音效音軌的動作片使用。
<b>DRAMA</b>	專為帶有大量對話內容的影片使用。
<b>ENT.SHOW</b>	適用於歌舞劇來源。
<b>ADVANCED GAME</b>	適用於電玩遊戲。
<b>SPORTS</b>	適用於體育節目。
<b>CLASSICAL</b>	可提供大型音樂廳類型的音效。
<b>ROCK/POP</b>	針對搖滾及／或流行音樂建立現場演唱會音效。
<b>UNPLUGGED</b>	適用於音場音樂來源。
<b>EXT.STEREO</b>	能利用所有揚聲器為立體聲來源提供更多聲道音效。
<b>F.S.S.ADVANCE (前場前環繞聲)</b>	可讓您僅使用前置揚聲器及重低音來建立自然環繞音效。用於提供豐富的環繞音效，該音效指向左、右前置揚聲器音效投射區域匯集的中央部分。



**PHONES SURR** 在透過耳機聆聽時，仍然可以享受到整體環繞的效果。

### 使用直流

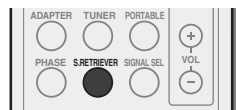


當您想要聆聽最真實重現的聲音來源時，請使用直流模式。將省略所有不必要的訊號處理。

<b>AUTO SURROUND</b>	請參閱第 21 頁的 <i>自動播放</i> 乙節。
<b>DIRECT</b>	依照在揚聲器設定（揚聲器設定、聲道位準、揚聲器距離）中的設定，以及雙單聲道等設定，聆聽聲音來源。您將聽到根據訊號中聲道數量的聲音來源。您可以使用相位控制、聲音延遲、自動延遲、LFE 衰減和中央聲像功能。
<b>PURE DIRECT</b>	所聽到的類比和 PCM 來源均未經過任何的數位處理。

### 使用聲音修正器功能

壓縮處理期間將音訊資料移除時，聲音品質通常會出現不均勻的音像。而聲音修正器功能便是採用創新的 DSP 技術，藉由恢復聲壓及修整壓縮後所留下的人工缺陷，將 CD 品質的聲音恢復成壓縮的雙聲道音訊。



● 按下 **S.RETRIEVER** 以開啟或關閉 **S.RTV**（聲音修正器）功能。

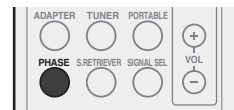
#### 附註

- 聲音修正器僅適用於雙聲道來源。

### 使用相位控制獲得更佳音效

本接收器的相位控制功能使用相位修正測量值，來確定您的音效來源進入相位的聆聽位置，可避免音效失真及／或音色變質。

相位控制技術透過使用相位匹配提供一致的音效重現，以最佳化聆聽位置的音像。預設值為開啟，同時建議您保持所有音效來源的相位控制呈開啟狀態。



● 按下 **PHASE** 開啟或關閉 **P.CTL**（相位控制）功能。

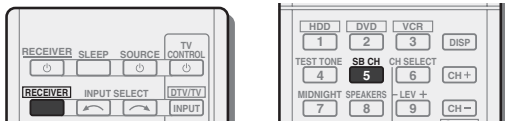
#### 附註

- 若要達到正確的聲音重現，相位匹配是非常重要的因素。如果兩個波形為「正相」，它們會使波峰和波峰相會，振幅、清晰度和音訊的呈現達到強化的效果。如果波峰與波谷相會，則聲音將「超出相位」，而且將產生不可靠的音像。
- 如果未適當設定揚聲器距離，可能無法得到最好的相位控制效果。
- 在下列情況中，相位控制模式無法設定為 **ON**：
  - 開啟 **PURE DIRECT** 模式時。
  - 連接耳機時。

## 使用後環繞聲道處理模式

您可以使接收器自動運用 6.1 或 7.1 解碼功能用於 6.1 編碼來源（例如，Dolby Digital EX 或 DTS-ES），或者您可以選擇保持運用 6.1 或 7.1 解碼功能（例如，對於 5.1 編碼媒體內容）。對於 5.1 編碼來源，雖可產生後環繞聲道，但該媒體內容如以原始編碼的 5.1 格式來播放，音效則會更佳（在該種情形下，您只須將後環繞聲道處理功能關閉即可）。

- 使用 7.1 聲道環繞系統時，透過後環繞聲道處理至新增 Up Mix 功能時，從後環繞揚聲器輸出經過矩陣編碼處理的音訊。



- 按下 **RECEIVER**，再重複按 **SB CH** 可輪流切換後環繞聲道選項。

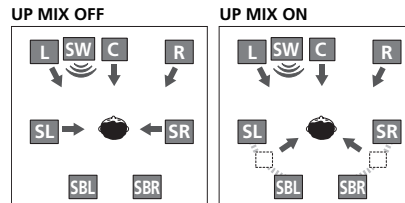
每次按下時可選取以下選項：

- **SB ON** – 開啟用於自環繞設備產生後環繞設備的矩陣編碼處理。
- **SB AUTO** – 自動切換自環繞設備產生後環繞設備的矩陣編碼處理。矩陣編碼處理僅在輸入訊號中偵測到後環繞聲道訊號時執行。
- **SB OFF** – 關閉用於自環繞設備產生後環繞設備的矩陣編碼處理。

## 設定 Up Mix 功能

在環繞揚聲器直接放在聆聽位置旁邊的 7.1 聲道環繞系統中，從側面聽到 5.1 聲道來源的環繞聲。Up Mix 功能混合環繞揚聲器與後環繞揚聲器的聲音，因此應從對角到後面聽到環繞聲。

- 如第 10 頁範例中的建議，設定 7.1 聲道環繞系統中的揚聲器時，使用 Up Mix 功能仍然有效。
- 視揚聲器和音源的位置而定，有時可能無法得到好結果。這時，請將設定值設定為 **OFF**。



- 1 將接收器切換成待機。
- 2 按住前面板的 **PRESET** → **按鍵**的同時，按住 **STANDBY/ON** 按鍵大約兩秒鐘。顯示 **UP MIX: OFF** 且 Up Mix 功能關閉。如果您要開啟此功能，請重新執行步驟 1 和 2。
  - 當設定為 **ON** 時，前面板上的 **■** (Up Mix) 指示燈亮起。

### 附註

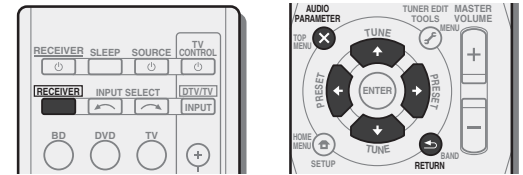
- 無論此設定為何，播放 DTS-HD 訊號時設為 **ON**。
- 即使設定為 **ON** 時也可以自動設定為 **OFF**，視輸入訊號和聆聽模式而定。

## 設定音訊選項

在此有許多額外的聲音設定值，讓您可以利用 **AUDIO PARAMETER** 選單來完成。如未說明，預設值均以粗黑體字。

### 重要

- 注意，若是有一設定值沒有在 **AUDIO PARAMETER** 選單中出現，則表示其不適用於目前的來源、設定值以及接收器的狀態。



- 1 按下 **RECEIVER**，然後按下 **AUDIO PARAMETER** 按鍵。
- 2 使用 **↑/↓** 以選取您要調整的設定值。視接收器目前的狀態／模式而定，某些選項可能會無法選取。請參照下表與此相關的備註。
- 3 使用 **←/→** 依所需設定。請參照下表各項設定值可供使用的選項。
- 4 按下 **RETURN** 確認並退出選單。

設定／功能	選項
<b>S.DELAY</b> (聲音延遲)	0.0 至 9.0 (訊框)
某些顯示器在顯示影像時會有一些延遲，因此音效會稍微無法與影像同步。但藉由增加一個位元的延遲，您便能將音效調整至與影像同步呈現。	<b>1 秒 = 25 格 (PAL) / 30 格 (NTSC)</b>
	預設值： <b>0.0</b>
<b>MIDNIGHT/LOUDNESS<sup>a</sup></b>	<b>M/L OFF</b>
<b>MIDNIGHT</b> 可讓您在低音量下聽到強而有力的電影環繞音效。	<b>MIDNIGHT</b>
<b>LOUDNESS</b> 用於在低音量下自音樂來源取得良好的低音和高音。	<b>LOUDNESS</b>

設定／功能	選項
<b>S.RTV</b> (聲音修正器) <sup>b</sup>	<b>OFF</b>
壓縮處理期間將音訊資料移除時，聲音品質通常會出現不均勻的音像。而聲音修正器功能便是採用創新的 DSP 技術，藉由恢復聲壓及修整壓縮後所留下的人工缺陷，將 CD 品質的聲音恢復成壓縮的雙聲道音訊。	<b>ON</b>
<b>DUAL MONO</b> <sup>c</sup>	<b>CH1</b> – 只能聽到聲道 1
可指定雙單聲道編碼的 Dolby Digital 音效播放的方式。	<b>CH2</b> – 只能聽到聲道 2
	<b>CH1 CH2</b> – 兩個都能從前置揚聲器聽到
<b>F.PCM</b> (固定 PCM)	<b>OFF</b>
此選項對於在 <b>OFF</b> 功能辨識 CD 上的 PCM 訊號之前即發現有些延遲的現象時相當有用。	<b>ON</b>
當已選取 <b>ON</b> 時，在播放非 PCM 來源期間即可能有雜訊輸出。在有問題時，請選取另外的輸入訊號。	
<b>DRC</b> (動態範圍控制)	<b>AUTO</b> <sup>d</sup>
調整為 Dolby Digital、DTS、Dolby Digital Plus、Dolby TrueHD、DTS-HD 和 DTS-HD Master Audio	<b>MAX</b>
最佳化之電影原聲配樂的動態範圍位準 (小聲聆聽環繞音效時，可能需要用到此功能)。	<b>MID</b>
	<b>OFF</b>

設定／功能	選項
<b>LFE ATT</b> (LFE 衰減)	<b>0</b> (0 dB)
有些 Dolby Digital 及 DTS 音源中含有超低頻低音音調。請依需要設定 LFE 衰減器，以免超低頻低音音調造成揚聲器的聲音失真。	<b>5</b> (-5 dB)
當設定至 0 dB 時不限制 LFE，此為建議值。當設定至 -15 dB 時，LFE 則有其各別限制的程度。選擇 OFF 時，不會從 LFE 聲道輸出音效。	<b>10</b> (-10 dB)
	<b>15</b> (-15 dB)
	<b>20</b> (-20 dB)
	<b>**</b> (OFF)
<b>HDMI</b> (HDMI 音訊)	<b>AMP</b>
可指定 HDMI 音訊訊號由本接收器傳出 ( <b>AMP</b> ) 或通過至電視機的路徑 ( <b>THRU</b> )。選取 <b>THRU</b> 時，此接收器不輸出任何聲音。	<b>THRU</b>
<b>A.DLY</b> (自動延遲) <sup>e</sup>	<b>OFF</b>
此功能將自動修正以 HDMI 連接線連接之設備間的音訊至視訊延遲。將視用 HDMI 連接線連接之顯示幕的操作狀態而定，設定音訊延遲時間。而視訊延遲時間則根據音訊延遲時間自動調整。	<b>ON</b>
<b>C.WIDTH</b> (中置寬度) <sup>f</sup>	<b>0</b> 至 <b>7</b>
(僅適用於有使用中置揚聲器時) 可將中置聲道在右、左前置揚聲器之間展開，使其聽起來更寬廣 (高設定值) 或更集中 (低設定值)。	預設值： <b>3</b>
<b>DIMEN</b> (範圍) <sup>f</sup>	<b>-3</b> 至 <b>+3</b>
可調整由前到後的環繞音效平衡，使其聽起來更深遠 (負設定值) 或更靠近 (正設定值)。	預設值： <b>0</b>

設定／功能	選項
<b>P.NRM.</b> (全景) <sup>f</sup>	<b>OFF</b>
可將前置立體聲像無限延伸而使環繞揚聲器一併容納進來，產生有如環抱般的效果。	<b>ON</b>
<b>C.IMG</b> (中央聲像) <sup>g</sup>	<b>0</b> 至 <b>10</b>
(僅適用於有使用中置揚聲器時) 可調整中央聲像，為歌聲製造出更寬廣的立體聲效果。效果調整可從 <b>0</b>	預設值： <b>3</b>
(所有中置聲道均送至右、左前置揚聲器) 至 <b>10</b> (中置聲道僅送至中置揚聲器)。	( <b>NEO:6 MUSIC</b> )， <b>10</b> ( <b>NEO:6 CINEMA</b> )
<b>a.</b> 您可使用 <b>MIDNIGHT</b> 按鍵隨時變更 <b>MIDNIGHT/LOUDNESS</b> 選項。	
<b>b.</b> 您可使用 <b>S.RETRIEVER</b> 按鍵隨時變更聲音修正器功能。	
<b>c.</b> 此設定僅可用於以雙單聲道解碼的 Dolby Digital 以及 DTS 音軌。	
<b>d.</b> 初始設定 <b>AUTO</b> 僅適用於 Dolby TrueHD 訊號。若非 Dolby TrueHD 訊號，請選擇 <b>MAX</b> 或 <b>MID</b> 。	
<b>e.</b> 只有當已連接的顯示幕支援 HDMI 的自動音訊/視訊同步功能 (「唇形同步分析」「lip-sync」) 時，才可以使用此功能。若發現自動設定的延遲時間不適合，請將 <b>A.DLY</b> 設定至 <b>OFF</b> ，並手動調整延遲時間。如需更多有關顯示幕之唇形同步分析「lip-sync」功能的詳細資訊，請直接洽詢製造商。	
<b>f.</b> 僅適用於 <b>DOLBY PLII MUSIC</b> 模式下的雙聲道來源。	
<b>g.</b> 僅限聆聽 <b>NEO:6 CINEMA</b> 與 <b>NEO:6 MUSIC</b> 模式的雙聲道來源時。	

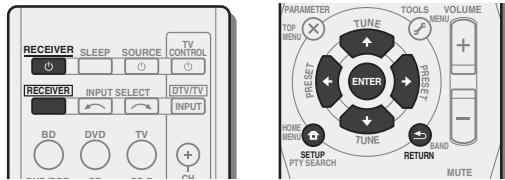
## 第 5 章： 系統設定選單

### 使用系統設定選單

以下除會說明如何完成接收器使用方式的詳細設定，還會說明如何依個人喜好細部調整各項揚聲器系統的設定值。

#### 重要

- 若已將耳機接到接收器上，則請將耳機拆離。



- 1 按下 **RECEIVER** 以開啟接收器。

- 2 按下 **RECEIVER**，然後按下 **SETUP**。

系統設定選單會出現在前面板顯示幕上。使用 **↑/↓/←/→** 按鍵及 **ENTER** 導覽所有畫面及選擇選單項目。按下 **RETURN** 確認並退出目前選單。

- 可隨時按下 **SETUP** 按鍵退出 System Setup 選單。

- 3 選取要調整的設定值。

#### • SP SETUP

- **SP SET** – 可指定您所連接揚聲器的大小及數量（請參閱下文）。

- **X.OVER** – 可指定要傳送至重低音的頻率（請參閱下文）。

- **CH LEVEL** – 可調整揚聲器系統的整體平衡（第 26 頁）。

- **SP DISTN** – 可指定揚聲器與聆聽位置之間的距離（第 26 頁）。

- **HDMI SET** – 使用 ARC 功能時設定。（請參閱第 27 頁的 ARC 設定乙節）。

- **APD** – 設定數小時未操作接收器後自動關閉電源（請參閱第 26 頁的自動電源關閉選單乙節）。
- **FL DEMO** – 設定前面板顯示幕上的示範顯示（請參閱第 26 頁的 FL 示範模式選單乙節）。

### 揚聲器設定選單

本接收器可進行細部設定產生最佳的環繞聲效能。所有設定只需進行一次（除非目前揚聲器系統的擺設有變動或加入新的揚聲器）。

### 揚聲器設定

使用此項設定可指定揚聲器的配置方式（揚聲器的大小、數量）。

- 1 使用 **↑/↓** 按鍵從 System Setup 選單中選取「SP SETUP」設定，然後按 **ENTER**。

- 2 使用 **↑/↓** 按鍵從 SP SETUP 選單中選取「SP SET」設定，然後按 **ENTER**。

- 3 使用 **↑/↓** 選擇要設定的揚聲器組，然後再選擇一揚聲器大小。

使用 **←/→** 按鍵選取以下各揚聲器的大小（及數量）：

- **F**（前置）– 請勿變更 **SMALL**。
- **C**（中置）– 若連接中置揚聲器請選擇 **SMALL**。若未連接中置揚聲器，請選擇 **NO**（中置聲道會傳送至其他揚聲器）。
- **S**（環繞）– 若連接環繞揚聲器請選擇 **SMALL**。若未連接環繞揚聲器，請選擇 **NO**（環繞聲道的音效會傳送至其他揚聲器）。
- **SB**（後環繞）– 選擇您擁有的後環繞揚聲器數量（一部（**X1**）、二部（**X2**）或無）。若是您沒有連接後環繞揚聲器，請選擇 **NO**。  
- 若只選取一個後環繞揚聲器，則請確定該額外揚聲器已接至 **PRE OUT L (Single)** 端子上。

- **SW**（重低音）– 設定為 **SMALL** 的聲道的 LFE 訊號及低音頻率，在選取 **YES** 時會經由重低音輸出（請參閱以下的附註說明）。若希望重低音能持續輸出低音音效或想要更深沉的低音，可選擇 **PLUS** 設定值（一般經由前置及中置揚聲器輸出的低音頻率也會傳送至重低音上）。若未連接重低音，請選擇 **NO**（低音頻率會經由其他揚聲器輸出）。

- 4 操作完成，按下 **RETURN**。  
此時會回到 Speaker Setup 選單。

#### 附註

- 若前置揚聲器的設定選取 **SMALL**，重低音揚聲器便會固定設定為 **YES**。另外，若是前置揚聲器設定為 **SMALL**，中置、環繞及後環繞揚聲器便不能設定為 **LARGE**（L）。此時，所有的低音頻率會全部傳送至重低音上。
- 若將環繞揚聲器設定為 **NO**，則後環繞揚聲器便會自動設定為 **NO**。
- 若使用重低音又希望享受更多的低音，在邏輯上最好將前置揚聲器設定為 **LARGE**，重低音設定為 **PLUS**。然而，這並不一定會產生最佳的低音效果。視房間內的揚聲器擺設方式而定，或許會因為低頻相互抵消的作用而實際感到低音有大量減少的情況。此時，可嘗試調整揚聲器的位置或方向。若無法得到很好的效果，則將其設定為 **PLUS** 及 **YES**，或改而將前置揚聲器設定為 **LARGE** 及 **SMALL**，讓耳朵自行判斷何種方式所產生的音效最佳。若有任何問題，最簡單的方法就是將前置揚聲器選取為 **SMALL**，使所有低音從重低音輸出。
- 此系統不使用 **LARGE** 設定。若連接各揚聲器，請選擇 **SMALL** 設定。
- 請勿變更 200 Hz 的分頻頻率。

### 分頻器

- 預設值：200Hz

此設定值可決定選取 **LARGE** 的揚聲器、或重低音所播放的低音音效，以及選取 **SMALL** 的揚聲器所播放的低音音效之間的切斷值。同時，可決定 LFE 聲道中低音音效的分頻點。

- 更多關於揚聲器大小的資訊，請參閱第 25 頁的揚聲器設定乙節。

- 1 使用 **↑/↓** 按鍵從 **System Setup** 選單中選取「**SP SETUP**」設定，然後按 **ENTER**。
- 2 使用 **↑/↓** 按鍵從 **SP SETUP** 選單中選取「**X.OVER**」設定，然後按 **ENTER**。
- 3 使用 **←/→** 選擇分頻點的頻率。  
低於分頻點的頻率將會傳送至重低音上（或 **LARGE** 揚聲器）。
- 4 操作完成，按下 **RETURN**。  
此時會回到 **Speaker Setup** 選單。

### 聲道位準

使用聲道位準設定值，可調整揚聲器系統的整體平衡。這是一項在設定家庭劇院時相當重要的設定值。

#### ⚠ 注意

- 系統設定中所用到的測試音都是以高音量輸出。

- 1 使用 **↑/↓** 按鍵從 **System Setup** 選單中選取「**SP SETUP**」設定，然後按 **ENTER**。
- 2 使用 **↑/↓** 按鍵從 **SP SETUP** 選單中選取「**CH LEVEL**」設定，然後按 **ENTER**。
- 3 使用 **←/→** 選擇設定選項。
  - **T. TONE M** – 可手動將測試音從一揚聲器移動至另一揚聲器並調整個別聲道位準。
  - **T. TONE A** – 可在測試音從一揚聲器移動至另一揚聲器時，自動調整聲道位準。
- 4 確認所選設定選項。  
此時測試音在按下 **ENTER** 後會開始運作。將音量提高至參考等級，便會輸出測試音。
- 5 使用 **←/→** 來調整各聲道的位準。  
若選擇 **T. TONE M**，請使用 **↑/↓** 按鍵切換揚聲器。  
**T. TONE A** 設定會按螢幕操作畫面所示依序輸出測試音（視揚聲器設定而定）：

**L → C → R → SR → SBR → SBL → SL → SW**

測試音輸出時調整各揚聲器的聲道位準。

#### 🔧 附註

- 若使用聲壓位準計（SPL），請從主要聆聽位置擷取讀數，並將每只揚聲器的位準調至 75 dB SPL（C 加權/慢速讀取）。
- 重低音測試音以低音音量輸出。使用實際音軌測試後，可能需要再調整音量等級。

- 6 操作完成，按下 **RETURN**。  
此時會回到 **Speaker Setup** 選單。

#### ⚙ 提示

- 您可以隨時按下 **RECEIVER**，然後按遙控器上的 **CH SELECT** 和 **LEV +/-** 來變更聲道位準。您也可以按 **CH SELECT** 及使用 **↑/↓** 選擇聲道，然後使用 **←/→** 調整聲道位準。

### 揚聲器距離

為使系統的聲音能有正確的深度及分離度，因此必須在指定揚聲器與聆聽位置間的距離。本接收器隨後便可加入正確的延遲以產生強而有力的環繞音效。

- 1 使用 **↑/↓** 按鍵從 **System Setup** 選單中選取「**SP SETUP**」設定，然後按 **ENTER**。
- 2 使用 **↑/↓** 按鍵從 **SP SETUP** 選單中選取「**SP DISTN**」設定，然後按 **ENTER**。
- 3 使用 **↑/↓** 選擇要設定距離的揚聲器。  
使用 **←/→** 至調整每只揚聲器的距離每次 0.03 m。
- 4 操作完成，按下 **RETURN**。  
此時會回到 **Speaker Setup** 選單。

### 自動電源關閉選單

設定在經過指定時間後自動關閉接收器電源（當電源在數小時未操作的情況下仍開啟時）。

- 預設值：**OFF**

- 1 使用 **↑/↓** 按鍵從 **System Setup** 選單中選取「**APD**」設定，然後按 **ENTER**。
- 2 指定在關閉電源前允許的時間長度（在未操作的情況下）。
  - 使用 **←/→** 來選擇 2、4 或 6 小時，或 **OFF**（若不需要自動關機）。
- 3 操作完成，按下 **RETURN**。  
此時會回到 **System Setup** 選單。

### FL 示範模式選單

設定是否要在前面板顯示幕上顯示各種示範。

- 預設值：**ON**
- 1 使用 **↑/↓** 按鍵從 **System Setup** 選單中選取「**FL DEMO**」設定，然後按 **ENTER**。
  - 2 使用 **←/→** 來選擇示範顯示為 **ON** 或 **OFF**。
  - 3 操作完成，按下 **RETURN**。  
此時會回到 **System Setup** 選單。



## 第 6 章： 使用 ARC（音訊返回通道） 功能

若您的電視支援音訊返回通道功能，請使用 HDMI 纜線連接電視與本機，而電視音訊將透過 HDMI 端子輸入至本機，且不需要連接音訊纜線。使用本功能時，請開啟 HDMI SETUP 中的「ARC」。

### 重要

- 使用 ARC 功能時，請使用 High Speed HDMI® Cable。ARC 功能可能無法與其他 HDMI 纜線正確搭配操作。

### ARC 設定

- 1 按下 **RECEIVER** 以開啟接收器。
- 2 按下 **RECEIVER**，然後按下 **SETUP**。  
系統設定選單會出現在前面板顯示幕上。使用 **↑/↓/←/→** 按鍵及 **ENTER** 導覽所有畫面及選擇選單項目。按下 **RETURN** 確認並退出目前選單。
  - 可隨時按下 **SETUP** 按鍵退出 System Setup 選單。
- 3 使用 **↑/↓** 按鍵從 **System Setup** 選單中選取「**HDMI SET**」設定，然後按 **ENTER**。
- 4 使用 **←/→** 來選擇所需的「**ARC**」設定。  
當支援 HDMI 音訊返回通道功能的電視連接接收器時，電視音效可透過 HDMI 端子輸入。
  - **ON** – 電視音效透過 HDMI 端子輸入。
  - **OFF** – 電視音效從 HDMI 輸入以外的音訊輸入端子輸入。
- 5 操作完成，按下 **RETURN**。  
此時會回到 System Setup 選單。

### 啟動 ARC 操作前

開始 ARC 操作前，連接本機與電視後，讓電視與本機進入待機模式。接著，依此順序開啟本機電源然後再開啟電視電源。為啟動 ARC 操作，在以 HDMI 纜線連接本機與電視後，您需要切換電視輸入為連接本機所需的輸入模式。然後您即可選擇電視節目。

### 重要

- 即使符合以上條件，也有可能無法操作 ARC 功能。若真是如此，請在連接本機與音訊纜線後聆聽電視音訊。
- 當 ARC 功能為開啟時，CEC（消費電子控制）功能即會啟動，並造成電源開啟與關閉且輸入切換。因本機不保證採 CEC 功能架構的同步操作，所以建議您關閉連接播放器上的 HDMI CONTROL 設定。若播放器上的 HDMI CONTROL 為開啟，則本機可能無法正確操作。有關詳細資訊，請參閱相關裝置的操作手冊。若沒有作用，請關閉 ARC 功能。  
若真是如此，請在連接本機與音訊纜線後聆聽電視音訊。  
另外，本機不保證同步操作可讓電視遙控器操作音量（包括靜音）。使用本機來操作音量（包括靜音）。
- 連接其他裝置或改變本機連線時，請關閉電源並取下牆壁插座的電源線。完成所有連線後，請將電源線插入牆壁插座。
- 若在 ARC 功能開啟時連接電源線，HDMI 會花費 2 至 10 秒進行初始化。在初始化期間無法操作本機。在初始化期間，顯示幕上的 HDMI 指示燈會閃爍。在閃爍停止後開啟本機電源。

## 第 7 章： 其他資訊

### 疑難排解

錯誤的操作經常被誤以為故障及功能異常。若認為設備出現問題，可按以下要點進行檢查。請留意所使用的其他設備及電氣用品，有時便是問題所在。若按照以下要點檢查後仍無法找出問題，請洽當地先鋒所授權的獨立服務公司進行維修。

- 若本機是因為靜電等外力導致無法正常操作，請拔掉插座上的電源插頭再重新插回，以回復正常的操作狀態。

### 一般

#### 電源無法打開。

- 將電源插頭從插座上拔掉，然後再插上。
- 確定沒有鬆脫的揚聲器線碰觸到後面板。否則會造成接收器自動關機。

#### 接收器突然關機。

- 啟用自動關閉電源功能時，若已數小時未操作接收器，接收器電源將自動關閉。檢查自動關閉電源功能的設定（請參閱第 26 頁的*自動電源關閉*選單乙節）。
- 大約一分鐘後（請勿在這段時間內開機），將接收器重新開機。若訊息仍在，請洽先鋒所授權的獨立服務公司。

#### 自動開啟／關閉電源及切換輸入。（ARC 功能為開啟時）

- 當 ARC 功能為開啟時，CEC（消費電子控制）功能即會啟動，並造成電源開啟與關閉且輸入切換。因本機不保證採 CEC 功能架構的同步操作，所以必須關閉連接播放機上的 HDMI CONTROL 設定。有關詳細資訊，請參閱相關裝置的操作手冊。

若沒有作用，請關閉 ARC 功能。若真是如此，請在連接本機與音訊纜線後聆聽電視音訊。

#### 選取一輸入功能時沒有聲音傳出。

- 使用 **MASTER VOLUME** 調高音量。
- 按下遙控器上的 **MUTE** 按鍵將靜音功能關閉。
- 根據所用接線類型將 **SIGNAL SEL** 設定為 **H** (HDMI)、**C1/O1** (數位) 或 **A** (類比)（請參閱第 17 頁）。
- 請確定設備連接正確（請參閱第 10 頁的*連接您的設備*乙節）。
- 檢查來源設備的音訊輸出設定。
- 請參閱來源設備隨附操作手冊。

#### 選取輸入功能時沒有影像輸出。

- 請確定設備連接正確（請參閱第 10 頁的*連接您的設備*乙節）。
- 請使用適用於來源設備與電視的相同類型視訊連接線，以連接此接收器（請參閱第 13 頁的*關於連接視訊輸出*乙節）。
- 電視機選取的視訊輸入錯誤。請參閱電視機隨附的操作手冊。

#### 重低音沒有聲音。

- 所聆聽的 Dolby Digital 或 DTS 來源可能不含 LFE 聲道。
- 在第 25 頁的*揚聲器設定* 中將重低音設定切換為 **YES** 或 **PLUS**。
- 在第 24 頁上將 **LFE ATT** (*LFE 衰減*) 切換為 **LFEATT 0** 或 **LFEATT 5**。

#### 環繞或中置揚聲器沒有聲音。

- 正確連接揚聲器（請參閱第 11 頁）。
- 請參閱第 25 頁的*揚聲器設定* 乙節，檢查揚聲器設定。
- 請參閱第 26 頁的*聲道位準* 乙節，檢查揚聲器音壓。

#### 相位控制功能似乎沒有提供音效。

- 確定已正確設定所有揚聲器的揚聲器距離（請參閱第 26 頁的*揚聲器距離* 乙節）。

#### 廣播節目中有明顯雜音。

- 接上天線（第 15 頁）並調整至最佳接收的方位。
- 將鬆散的連接線排放在遠離天線端子及導線的地方。
- 將 FM 線型天線完全展開，調整最佳接收的方位，並固定於牆上（或接上室外 FM 天線）。
- 連接另一條內部或外部 AM 天線（第 16 頁）。
- 關閉造成干擾的設備或將其移離接收器（或將天線移離產生雜訊的設備遠一些）。

#### 無法自動選台。

- 連接室外天線（請參閱第 16 頁）。

#### 卡式錄音座播放期間有雜音。

- 將卡式錄音座移離接收器，直到雜音消失。

#### 播放含有 DTS 的軟體時，沒有聲音輸出或有雜音。

- 確定播放器的設定值正確及／或 DTS 訊號輸出已開啟。請參閱 DVD 播放器隨附操作手冊。

#### 遙控器無法操作。

- 更換電池（請參閱第 9 頁）。
- 請在遙控感應器的 7 m、30° 範圍內操作（請參閱第 9 頁）。
- 移除阻擋物或從其他位置操作。
- 避免陽光直接照射到前面板上的遙控感應器。

#### 顯示幕黑暗或關閉。

- 連續按遙控器的 **DIMMER** 回復預設值。

#### 前面板顯示幕不知什麼原因便切換為各種不同的顯示幕。

- 這是因為正在使用示範顯示功能。若要關閉示範顯示功能，按下任意按鍵即可返回原始顯示幕，或將 **FL DEMO** 設為 **OFF**（請參閱第 26 頁的*FL 示範模式選單* 乙節）。

#### TEMP 顯示幕中顯示，且音量降低。

- 本機內的溫度已超過允許值。請試著將本機移至通風良好的地方（請參閱第 2 頁）。
- 降低音量。

## HDMI

### 無畫面或音效。

→若直接將 HDMI 設備連接至顯示器後仍然出現此問題，請查閱設備或監視器手冊，或聯絡製造商以獲得支援。

### 無畫面。

→從類比視訊端子輸入的視訊訊號將不會從 HDMI 端子輸出。從 HDMI 端子輸入的訊號將不會從類比視訊端子輸出。輸入與輸出的連接線類型請維持一致。

→視來源設備的輸出設定而異，該設備可能是輸出無法顯示的視訊格式。變更來源的輸出設定，或使用複合插孔連接。

→本機為 HDCP 相容。確認所連接的設備亦是 HDCP 相容。若不是，則請利用複合視訊插孔將這些設備接上。

→視接上的來源設備而定，有可能對本接收器並不適用（即使是 HDCP 相容）。此時，請使用複合視訊插孔將來源及接收器連接上。

→若您的電視機上未出現視訊影像，請嘗試調整解析度、Deep Color 或設備的其他設定。

→若要在 Deep Color 中輸出訊號，請使用 HDMI 連接線（High Speed HDMI® Cable）將接收器連接至提供 Deep Color 功能的設備或電視機。

### 無音效，或音效突然中止。

→確定音訊選項是設定為 **HDMI AMP/THRU**（請參閱第 23 頁）。

→若設備是 DVI 裝置，則請將音訊連接至另外的端子上。

→HDMI 格式數位音訊傳輸需要更長的確認時間。正因為如此，在切換音訊格式或開始播放時，可能會發生音訊中斷。

→播放時開啟／關閉連接本機的 HDMI OUT 端子的裝置電源，或在播放時脫離／連接 HDMI 連接線，都可能造成雜訊或音訊中斷。

## 關於 HDMI 連接線的重要資訊

以下為您可能無法透過本接收器傳送 HDMI 訊號的範例（此取決於您連接的 HDMI 設備 — 關於 HDMI 相容資訊，請洽詢設備製造商）。

若無法透過本接收器從您的設備正確接收 HDMI 訊號，請在連接時嘗試使用以下配置方式。

### 配置

使用 HDMI 連接線直接將 HDMI 設備接上顯示器。然後最便利的連接方式（建議使用數位連接）來傳送音訊至接收器。關於音訊連接的更多資訊，請參閱操作說明。使用此配置時，請將顯示裝置的音量設定為最小。

### 附註

- 視設備而定，音訊輸出可能會受到連接顯示裝置可用聲道數的限制（例如，如使用有立體聲音訊限制的監視器，音訊輸出將減至雙聲道）。
- 若要切換輸入來源，您必須切換接收器與顯示裝置上的功能。
- 使用 HDMI 連接線時，由於顯示裝置的聲音會關閉，因此您必須在每次切換輸入來源時調整顯示器的音量。

## 重新設定主機

使用以下程序可將接收器的所有設定值重新設回原廠預設值。請使用前面板控制進行此項操作。

- 1 將接收器切換成待機。
- 2 按住 **BAND** 按鍵約兩秒鐘 **⏻** **STANDBY/ON**。
- 3 在見到顯示幕出現 **RESET?** 時，按下 **AUTO SURROUND/STREAM DIRECT**。

此時顯示幕中會顯示 **OK?**。

- 4 按下 **ALC/STANDARD SURR** 確認。

此時顯示幕中會顯示 **OK**，表示接收器已重新設回原廠預設值。

### 重要

- 若 ARC 功能為開啟，您將無法初始化本機。若出現此情形，請於關閉（待機）本機電源前關閉 ARC 功能或關閉所有連接裝置的電源，並在 HDMI 指示燈熄滅後進行初始化。

## 清潔主機

- 請使用亮光布或乾布將灰塵擦拭乾淨。
- 表面髒汙時，以清水將中性清潔劑稀釋五至六倍，將軟布沾濕擰乾後再擦拭。切勿使用傢俱蠟或清潔劑。
- 嚴禁在本機或附近使用稀釋劑、乙醚、殺蟲劑或其他化學藥劑，以免造成表面腐蝕。

## 規格

### 音訊部分

#### 額定功率輸出

前置、中置、環繞

..... 每聲道 100 W (1 kHz, 6 Ω, 0.7 %)

#### 最大功率輸出 (前置、中置和環繞)

..... 每聲道 120 W (1 kHz, 6 Ω, 10 %)

總諧波失真..... 0.06 %

(20 Hz 至 20 kHz, 8 Ω, 每聲道 50 W)

保證揚聲器阻抗..... 6 Ω 至 16 Ω

#### 輸入 (靈敏度/阻抗)

LINE..... 200 mV/47 kΩ

#### 輸出 (位準/阻抗)

REC..... 200 mV/2.2 kΩ

#### 訊噪比 (IHF、短路、A 型網路)

LINE..... 98 dB

### 視訊部分

#### 訊號位準

複合..... 1 Vp-p (75 Ω)

### 調諧器部分

頻率範圍 (FM)..... 87.5 MHz 至 108 MHz

天線輸入 (FM)..... 75 Ω 非平衡

#### 頻率範圍 (AM)

9 kHz 間隔..... 531 kHz 至 1602 kHz

10 kHz 間隔..... 530 kHz 至 1700 kHz

天線 (AM)..... 環型天線

### 數位輸入/輸出部分

HDMI 端子..... 類型 A (19 針)

HDMI 輸出類型..... 5 V, 100 mA

### 其他資訊

電源需求..... AC 220 V 至 240 V, 50 Hz/60 Hz

消耗功率..... 175 W

待機時..... 0.45 W

(ARC 功能: OFF)

### 尺寸

... 435 mm (寬) x 168 mm (高) x 362.5 mm (深)

重量 (不含包裝)..... 7.6 kg

### 隨附配件

遙控器..... 1

乾電池 (AAA IEC R03)..... 2

AM 環型天線..... 1

FM 線型天線..... 1

### 電源線

本操作手冊

### 附註

- 規格僅在電源為 230 V 時才適用。
- 如因改良以致規格及設計有所變更，恕不另行通知。

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