

# Home Theatre System

Operating Instructions

## WARNING

### **To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.**

To reduce the risk of fire, do not cover the ventilation opening of the apparatus with newspapers, tablecloths, curtains, etc.

Do not place the naked flame sources such as lighted candles on the apparatus.

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

To reduce the risk of fire or electric shock, do not expose this apparatus to dripping or splashing, and do not place objects filled with liquids, such as vases, on the apparatus.

As the main plug is used to disconnect the unit from the mains, connect the unit to an easily accessible AC outlet. Should you notice an abnormality in the unit, disconnect the main plug from the AC outlet immediately.

Do not expose batteries or apparatus with battery-installed to excessive heat such as sunshine, fire or the like.

The unit is not disconnected from the mains as long as it is connected to the AC outlet, even if the unit itself has been turned off.



This symbol is intended to alert the user to the presence of the Hot Surface that may be hot if it is touched during the normal operation.

### **For customers in Europe**



**Disposal of Old Electrical & Electronic Equipment  
(Applicable in the European Union and other European countries with separate collection systems)**

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste

handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.



**Disposal of waste batteries  
(applicable in the European Union and other European countries with separate collection systems)**

This symbol on the battery or on the packaging indicates that the battery provided with this product shall not be treated as household waste.

On certain batteries this symbol might be used in combination with a chemical symbol. The chemical symbols for mercury (Hg) or lead (Pb) are added if the battery contains more than 0.0005% mercury or 0.004% lead.

By ensuring these batteries are disposed of correctly, you will help prevent potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling of the battery. The recycling of the materials will help to conserve natural resources.

In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only.

To ensure that the battery will be treated properly, hand over the product at end-of-life to the applicable collection point for the recycling of electrical and electronic equipment.

For all other batteries, please view the section on how to remove the battery from the product safely. Hand the battery over to the applicable collection point for the recycling of waste batteries.

For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

### **Notice for customers: The following information is only applicable to equipment sold in countries applying EU Directives.**

The manufacturer of this product is Sony Corporation, 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan. The Authorized Representative for EMC and product safety is Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany. For any service or guarantee matters please refer to the addresses given in separate service or guarantee documents.

## For customers in Australia



**Disposal of Old Electrical & Electronic Equipment  
(Applicable in the European Union and other European countries with separate collection systems)**

## About This Manual

- The instructions in this manual are for models HT-M7, HT-M5 and HT-M3. In this manual, the HT-M7 is used for illustration purposes unless stated otherwise.
- The instructions in this manual describe the operation of the receiver with the supplied remote control. You can also use the control buttons or knobs on the receiver if they have the same or similar names as those on the remote control.

### The HT-M7 consists of:

- Receiver STR-KM7
- Speaker system
  - Front speaker SS-MSP7M (2)
  - Center speaker SS-CNP7M (1)
  - Surround speaker SS-MSP3M (2)
  - Surround back speaker SS-SRP7M (2)
  - Subwoofer SS-WP7M (2)

### The HT-M5 consists of:

- Receiver STR-KM5
- Speaker system
  - Front speaker SS-MSP7M (2)
  - Center speaker SS-CNP7M (1)
  - Surround speaker SS-SRP7M (2)
  - Subwoofer SS-WP7M (2)

### The HT-M3 consists of:

- Receiver STR-KM3
- Speaker system
  - Front speaker SS-MSP3M (2)
  - Center speaker SS-CNP7M (1)
  - Surround speaker SS-SRP7M (2)
  - Subwoofer SS-WP3M (2)

## On Copyrights

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

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\*\* Manufactured under license under U.S. Patent Nos: 5,956,674; 5,974,380; 6,226,616; 6,487,535 & other U.S. and worldwide patents issued & pending. DTS, the Symbol, & DTS and the Symbol together are registered trademarks & DTS Digital Surround 196/24 is a trademark of DTS, Inc. Product includes software. © DTS, Inc. All Rights Reserved.

This receiver incorporates High-Definition Multimedia Interface (HDMI™) technology. 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.

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# Table of Contents

About This Manual .....	3
Supplied accessories .....	5
Description and location of parts .....	6
Getting started .....	14

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## Connections

1: Installing the speakers .....	15
2: Connecting the speakers .....	17
3: Connecting the TV .....	21
4a: Connecting the video equipment .....	22
4b: Connecting the audio equipment .....	27
5: Connecting the antennas (aerials) .....	28

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## Preparing the Receiver

Setting the voltage selector .....	29
Connecting the AC power cord (mains lead) .....	29
Initializing the receiver .....	29
Selecting surround speaker position .....	30
Adjusting the speaker levels and balance (TEST TONE) .....	30

---

## Basic Operations

Playing an input source equipment .....	31
Playing a USB device (Except for South Africa and Argentina models) .....	33
Viewing information on the display panel .....	35
Recording using the receiver .....	36

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## Tuner Operations

Listening to FM/AM radio .....	37
Presetting FM/AM radio stations .....	38

---

## Enjoying Surround Sound

Selecting the sound field .....	40
Resetting sound fields to the default settings .....	42

---

## “BRAVIA” Sync Features

What is “BRAVIA” Sync? .....	42
Preparing for the “BRAVIA” Sync .....	43
Playing back equipment with one-touch operation (One-Touch Play) .....	44
Enjoying the TV sound from the speakers connected to the receiver (System Audio Control) .....	44
Turning off the receiver with the TV (System Power-Off) .....	45
Enjoying optimum sound field for the selected scene (Scene Select) .....	45

---

## Advanced Operations

Switching between digital and analog audio (INPUT MODE) .....	46
Using the setting menu .....	46

---

## Additional Information

Precautions .....	53
Troubleshooting .....	54
Specifications .....	60
Index .....	Back cover

# Supplied accessories

- Operating Instructions (this manual)
- Quick Setup Guide (1)
- FM wire antenna (aerial) (1)
  - Mexico model only



- Other models



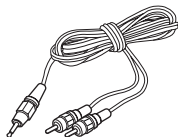
- AM loop antenna (aerial) (1)



- Speaker cords
  - HT-M7 (6, red/white/blue/grey/purple × 2)
  - HT-M5 (4, red/white/purple × 2)
  - HT-M3 (2, red/white)



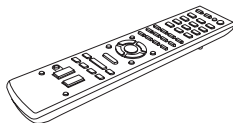
- Audio cord with stereo mini-plug (Australia model only) (1)



- Foot pads
  - Subwoofers (Big) (8)
  - Speakers (Small) (12)



- Remote control (1)
  - RM-AAU136 (South Africa and Argentina models only)
  - RM-AAU135 (Other models)

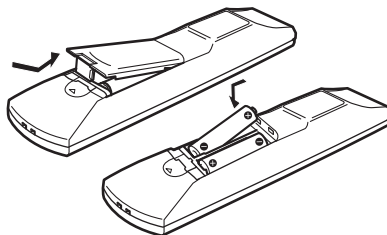


- R6 (size AA) batteries (2)



## Inserting batteries into the remote control

Insert two R6 (size AA) batteries (supplied) by matching  $\oplus$  and  $\ominus$  on the batteries to the diagram inside the battery compartment of the remote control.

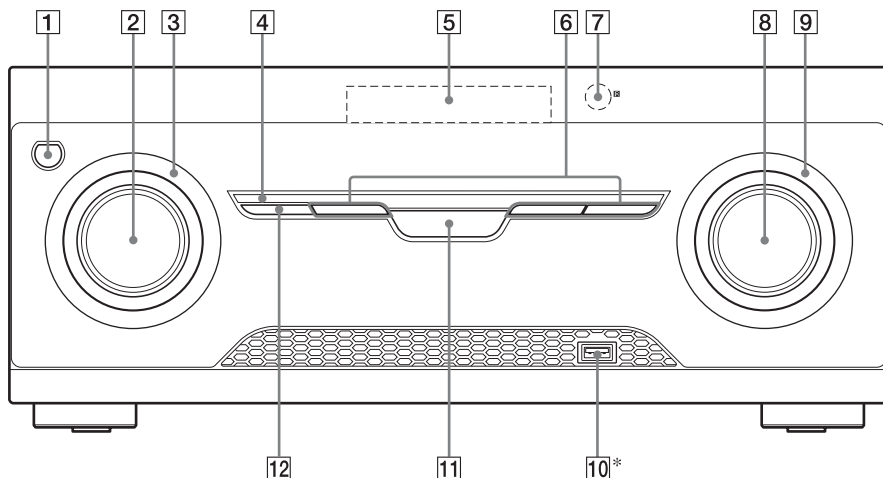


### Notes


- Do not leave the remote control in an extremely hot or humid place.
- Do not use a new battery with old ones.
- Do not mix manganese batteries and other kinds of batteries.
- Do not expose the remote control sensor to direct sunlight or lighting apparatuses. Doing so may cause a malfunction.
- If you do not intend to use the remote control for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.
- When the receiver no longer responds to the remote control, replace all the batteries with new ones.

# Description and location of parts

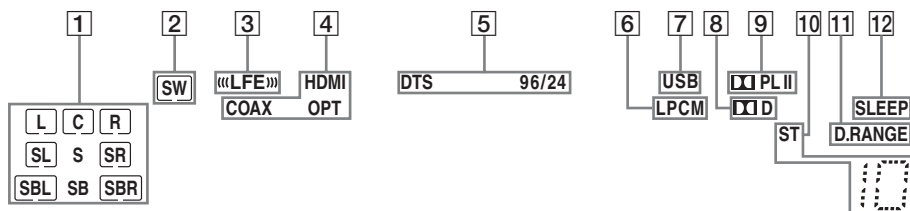
## Front panel



\* Except for South Africa and Argentina models.

- 1** I/⏻ (on/standby) (page 29, 42)
- 2** INPUT SELECTOR (page 31, 32, 34, 36, 37, 38, 39, 46, 55)
- 3** INPUT SELECTOR indicator  
Flashes when you change the input source.
- 4** M-TURBO indicator  
Lights up when M-TURBO is activated.
- 5** Display panel (page 7)
- 6** MOVIE, MUSIC, GAMING (page 40)
- 7** Remote control sensor  
Receives signals from remote control.
- 8** MASTER VOLUME (page 31, 32, 34)
- 9** MASTER VOLUME indicator  
Flashes when you adjust the volume.
- 10**  (USB) port (page 28)
- 11** M-TURBO  
Turns the M-TURBO function on or off.  
M-TURBO function reinforces the bass and creates a more powerful sound.
- 12** SURROUND SPEAKER (page 30)

## Indicators on the display panel



### 1 Playback channel indicator

The letters (L, C, R, etc.) indicate the channels being played back. Based on the speaker settings, the box around the letter(s) vary to show how the receiver downmixes the source sound.

<b>L</b>	Front Left
<b>R</b>	Front Right
<b>C</b>	Center (monaural)
<b>SL</b>	Surround Left
<b>SR</b>	Surround Right
<b>S</b>	Surround (monaural or the surround equipment obtained by Pro Logic processing)
<b>SBL*</b>	Surround Back Left
<b>SBR*</b>	Surround Back Right
<b>SB*</b>	Surround Back (the surround back equipment obtained by 6.1 channel decoding)

### 2 SW

Lights up when the audio signal is output from the SUBWOOFER jack.

### 3 «LFE»

Lights up when the disc being played back contains an LFE (Low Frequency Effect) channel and the LFE channel signal is actually being reproduced.

### 4 Input indicator

Lights up to indicate the current input.

#### HDMI

- The INPUT MODE is set to “AUTO”, and when the receiver recognizes the equipment connected via an HDMI IN jack (page 46).
- The TV input detected Audio Return Channel (ARC) signals.

#### COAX

The INPUT MODE is set to “AUTO” or “COAX”, and when the source signal is a digital signal through the COAXIAL jack (page 46).

#### OPT

The INPUT MODE is set to “AUTO” or “OPT”, and when the source signal is a digital signal through the OPTICAL jack (page 46).

### 5 DTS indicator

Lights up the respective indicator when the receiver is decoding the corresponding DTS format signals.

#### DTS

DTS

#### DTS 96/24

DTS 96 kHz/24 bit

#### Note

When playing a DTS format disc, make sure that you have completed the digital connections and that INPUT MODE is not set to “ANALOG” (page 46).

### 6 LPCM

Lights up when the receiver is decoding the Linear PCM signals.

### 7 USB\*\*

Lights up when a USB device is being played.

**8 D**

Lights up when the receiver is decoding Dolby Digital signals.

**Note**

When playing a Dolby Digital format disc, make sure that you have completed the digital connections and that INPUT MODE is not set to "ANALOG" (page 46).

**9 Dolby Pro Logic indicator**

Lights up the respective indicator when the receiver performs Dolby Pro Logic processing. This matrix surround decoding technology can enhance input signals.

**D** **PL** Dolby Pro Logic  
**D** **PL II** Dolby Pro Logic II

**10 Tuning indicator**

Lights up when the receiver tunes to a radio station.

**ST**

Stereo broadcast



Preset station number (The number will change according to the preset station you select.)

**11 D.RANGE**

Lights up when dynamic range compression is activated (page 50).

**12 SLEEP**

Lights up when the Sleep Timer is activated (page 13).

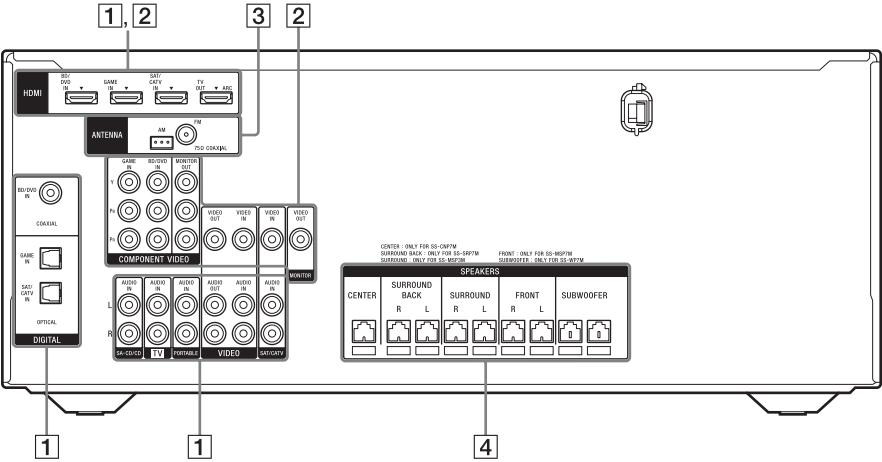
\* HT-M7 only.

\*\* Except for South Africa and Argentina models.

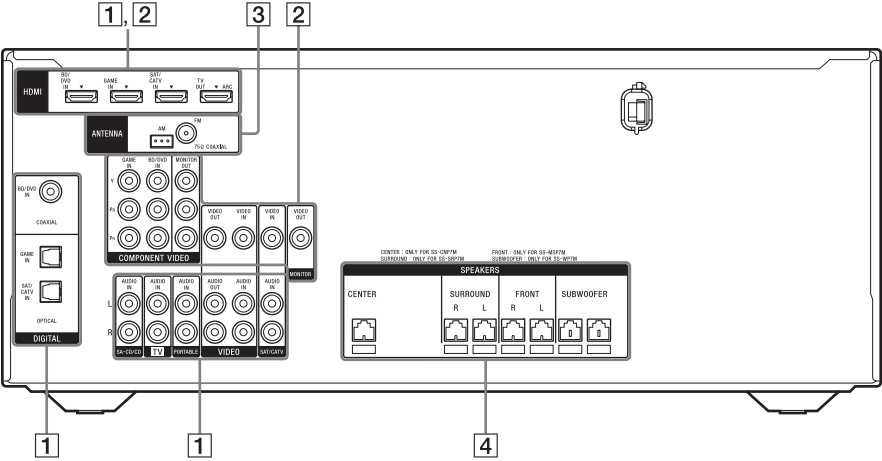


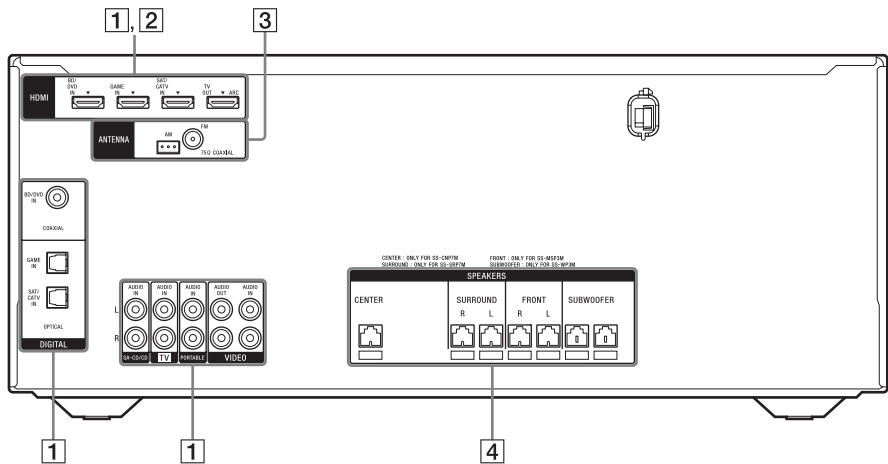
# Rear panel

## HT-M7



## HT-M5





**1 Audio signal section**

**DIGITAL INPUT/OUTPUT jacks (page 21, 24, 25, 26)**

 HDMI IN/OUT

 OPTICAL IN

 COAXIAL IN

**ANALOG INPUT/OUTPUT jacks (page 21, 25, 27)**

 White (L)

 Red (R) AUDIO IN/OUT

**2 Video signal section\***


The image quality depends on the connecting jack.

**DIGITAL INPUT/OUTPUT jacks (page 21, 24)**

 HDMI IN/OUT


**COMPONENT VIDEO INPUT/OUTPUT jacks\*\* (page 21, 25)**

 Green (Y)

 Blue (P<sub>B</sub>) Y, P<sub>B</sub>, P<sub>R</sub> IN/OUT

 Red (P<sub>R</sub>)

**COMPOSITE VIDEO INPUT/OUTPUT jacks\*\* (page 21, 25, 27)**

 Yellow VIDEO IN/OUT

\* You must connect the HDMI TV OUT or MONITOR OUT (HT-M7/HT-M5 only) jack to your TV to watch the selected input image (page 21).

\*\* HT-M7/HT-M5 only.

High  
quality  
image

### **3 ANTENNA section (page 28)**



FM ANTENNA jack



AM ANTENNA terminal

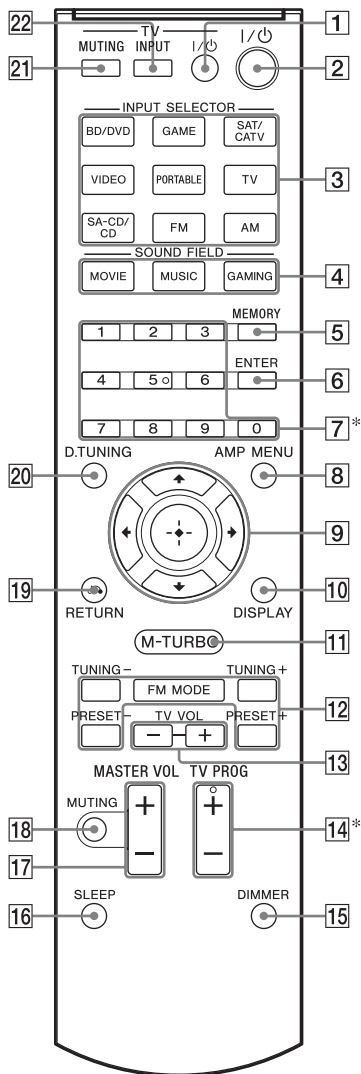
### **4 SPEAKERS section (page 17, 18, 19)**



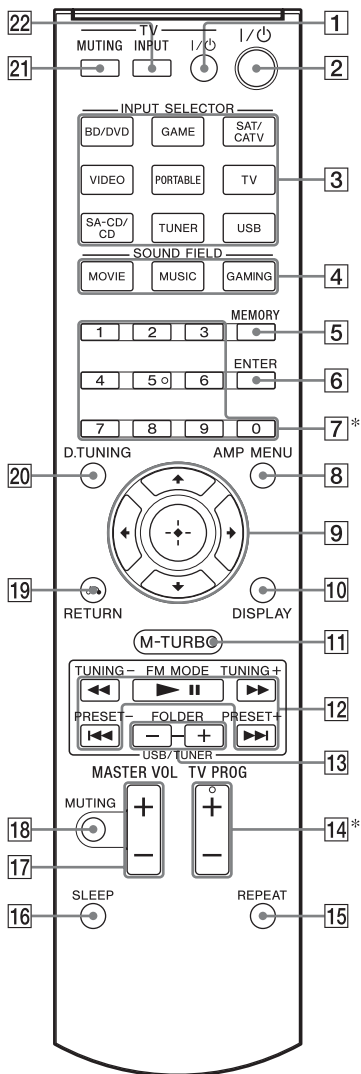
## Remote control

Use the supplied remote control to operate this receiver and Sony TV.

### • RM-AAU136 (South Africa and Argentina models only)


















### • RM-AAU135 (Other models)



\* The 5 and TV PROG + buttons have tactile dots. Use the tactile dots as references when operating the receiver.

## To control the receiver

- [2] I/⏻ (on/standby)**  
Turns the receiver on or sets it to standby mode.
- Saving the power in standby mode**  
When “CTRL.HDMI” is set to “CTRL OFF” (page 48).
- [3] Input buttons**  
Selects the equipment you want to use. When you press any of the input buttons, the receiver turns on.
- [4] MOVIE, MUSIC, GAMING (page 40)**
- [5] MEMORY**  
Stores a station during tuner operation.
- [6] ENTER**  
Enters the selections.
- [7] Numeric buttons**  
Presets or tunes to the preset stations (page 38).
- [8] AMP MENU**  
Displays the menu to operate the receiver.
- [9]  ,  /  /  / **  
Press  /  /  /  to select the settings, then press  to enter/confirm the selection.
- [10] DISPLAY**  
Views information on the display panel.
- [11] M-TURBO**  
Turns the M-TURBO function on or off. M-TURBO function reinforces the bass and creates a more powerful sound.
- [12]  /  ,  II,  / **  
(RM-AAU135 only)  
Operates the USB device: Backward/forward, play/pause, skip operation.
- TUNING +/-**  
Scans a station.
- FM MODE**  
Selects the FM reception mode (monaural or stereo).
- PRESET +/-**  
Selects preset stations.
- [13] FOLDER +/-**  
(RM-AAU135 only)  
Selects a folder of the USB device.
- [15] REPEAT**  
(RM-AAU135 only)  
Plays a track or a folder repeatedly of the USB device.
- DIMMER**  
(RM-AAU136 only)  
Adjusts the brightness of the display panel.

## **[16] SLEEP**

Sets the receiver to turn off automatically at a specified time.

The display changes cyclically as follows.

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

When Sleep Timer is being used, “SLEEP” indicator lights up on the display panel.

### **Tip**

To check the remaining time before the receiver turns off, press SLEEP. The remaining time appears on the display panel. If you press SLEEP again, the Sleep Timer will be canceled.

## **[17] MASTER VOL +/-**

Adjusts the volume level of all speakers at the same time.

## **[18] MUTING**

Turns off the sound temporarily.  
Press MUTING again to restore the sound.

## **[19] RETURN**

Returns to the previous menu.

## **[20] D.TUNING**

Enters direct tuning mode.

## To control a Sony TV

### **[1] TV I/⏻ (on/standby)**

Turns the TV on or off.

### **[13] TV VOL +/-**

(RM-AAU136 only)

Adjusts the TV volume.

### **[14] TV PROG +/-**

Scans for the preset TV channels.

### **[21] TV MUTING**

Activates the TV's muting function.

### **[22] TV INPUT**

Selects the input signal (TV or video).

### **Note**

The above explanation is intended to serve as examples.

# Getting started

You can enjoy your audio/video equipment connected to the receiver by following the simple steps below.

Before connecting cords, be sure to disconnect the AC power cord (mains lead).

**Installing and connecting the speakers (page 15, 17)**


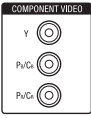

↓

**Checking the connection appropriate for your equipment**

**Connecting the TV and video equipment (page 21, 22)**

The image quality depends on the connecting jack. See the illustration below. Select the connection according to the jacks on your equipment.

We recommend that you connect your video equipment via HDMI connection if they have HDMI jacks.

		
Digital	Analog	

← High quality image

↓

**Connecting the audio equipment (page 27)**

**Preparing the receiver**

See “Setting the voltage selector” (page 29), “Connecting the AC power cord (mains lead)” (page 29) and “Initializing the receiver” (page 29).

↓

**Setting the speakers**

Select the surround speaker position (page 30), then check the speaker connection using “T. TONE” in LEVEL menu (page 30). If the sound is not output correctly, check the speaker connection.

↓

**Setting the audio output settings on the connected equipment**

To output multi channel digital audio, check the digital audio output setting on the connected equipment.

For a Sony Blu-ray Disc player, check that “Audio (HDMI)”, “Dolby Digital”, and “DTS” are set to “Auto”, “Dolby Digital” and “DTS” respectively (as of September 2011).

For a PlayStation 3, check that “BD/DVD Audio Output Format (HDMI)” and “BD Audio Output Format (Optical Digital)” are set to “Bitstream” (with system software version 3.70).

For details, refer to the operation instructions supplied with the connected equipment.

## Connections

# 1: Installing the speakers

### HT-M7

This receiver allows you to use a 7 channel speaker with 2 subwoofer system.

### HT-M5/HT-M3

This receiver allows you to use a 5 channel speaker with 2 subwoofer system.

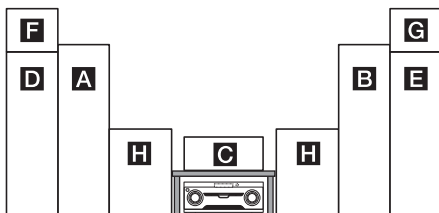
## Example of speaker system configuration

You can enjoy different sound effects from the system by placing the speakers as shown below.

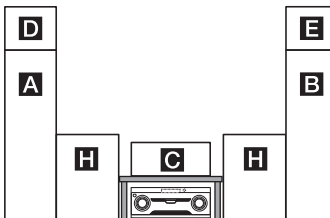
- A** Front speaker (left)
- B** Front speaker (right)
- C** Center speaker
- D** Surround speaker (left)
- E** Surround speaker (right)
- F** Surround back speaker (left)
- G** Surround back speaker (right)
- H** Subwoofer

## Installing all the speakers in front position

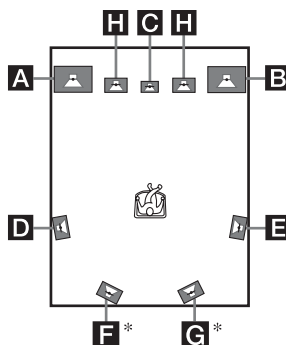
### – HT-M7



### – HT-M5/HT-M3



## Installing the surround/surround back speakers in rear position



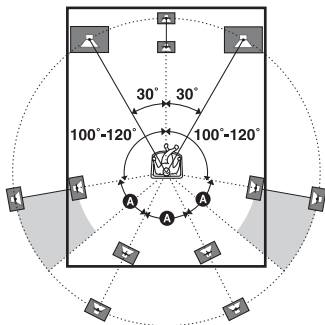
\* HT-M7 only.

### Notes

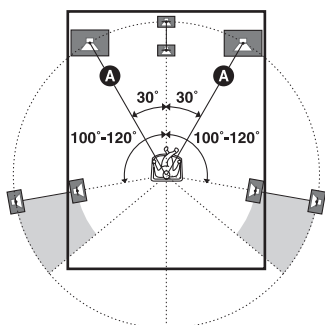
- Do not install the speakers on a wall.
- (HT-M7 only)  
We recommend that you place the surround back speakers on a speaker stand (not supplied).
- (HT-M5/HT-M3 only)  
We recommend that you place the surround speakers on a speaker stand (not supplied).
- For details about installing the speakers, please refer to the supplied Quick Setup Guide.

## Tips

- All the angles **A** should be the same.
  - HT-M7 only



- HT-M5/HT-M3 only



- Since the subwoofer does not emit highly directional signals, you can place it wherever you want.

## Installing the speakers on a flat surface

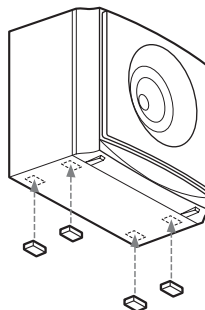
Attach the supplied foot pads to the bottom of the speakers and subwoofers to prevent vibration or movement.

HT-M7:

Center speaker, surround back speakers, subwoofers

HT-M5/HT-M3:

Center speaker, surround speakers, subwoofers



## Note

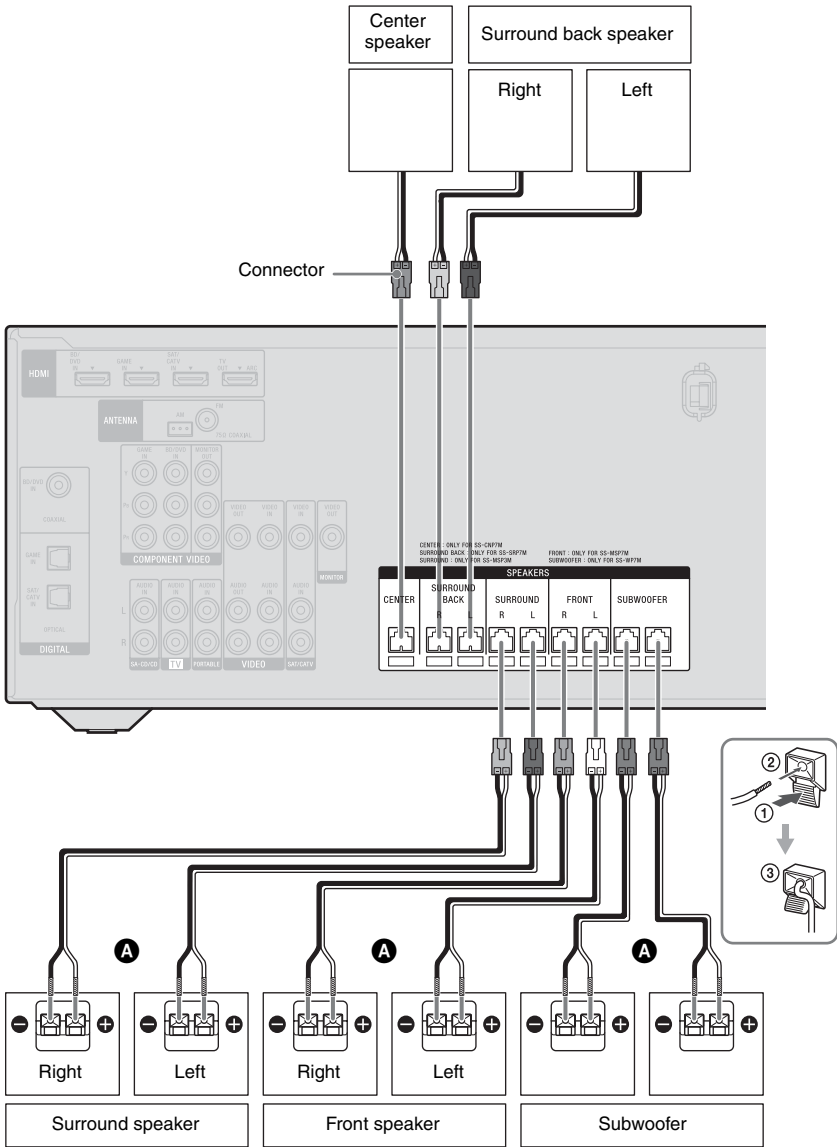
Attach the small foot pads to the center speaker, surround speakers and surround back speakers and the big foot pads to the subwoofers.



# 2: Connecting the speakers

Before connecting cords, be sure to disconnect the AC power cord (mains lead).

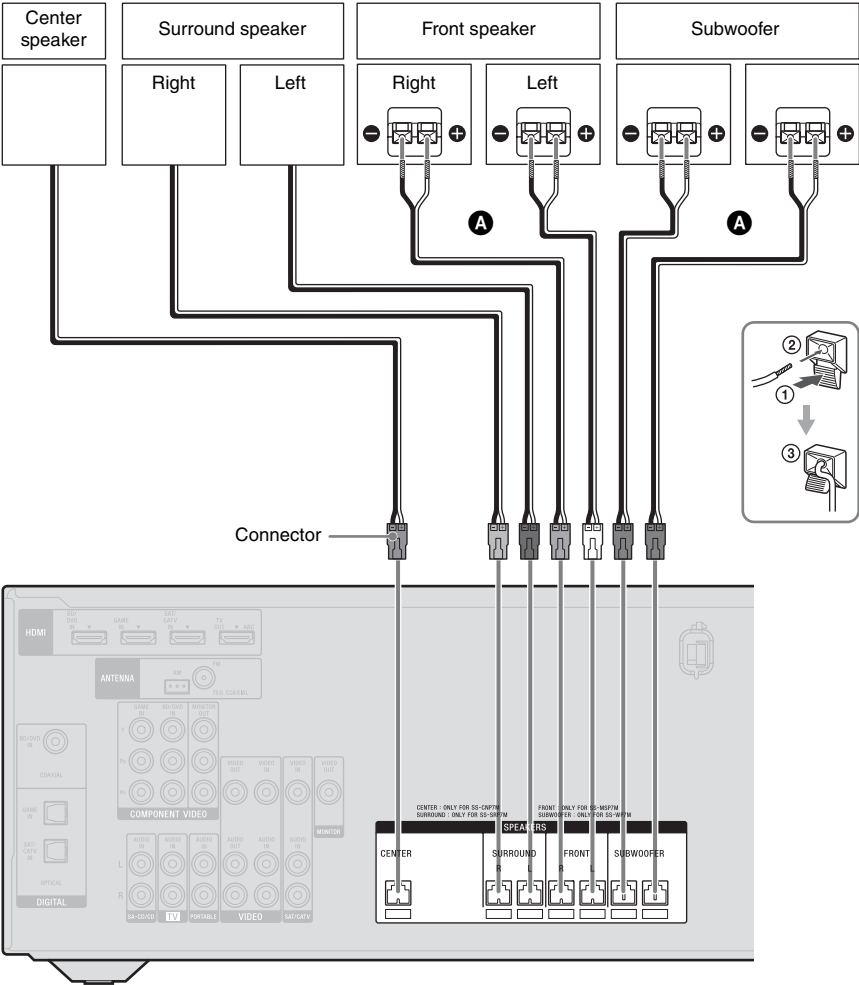
HT-M7



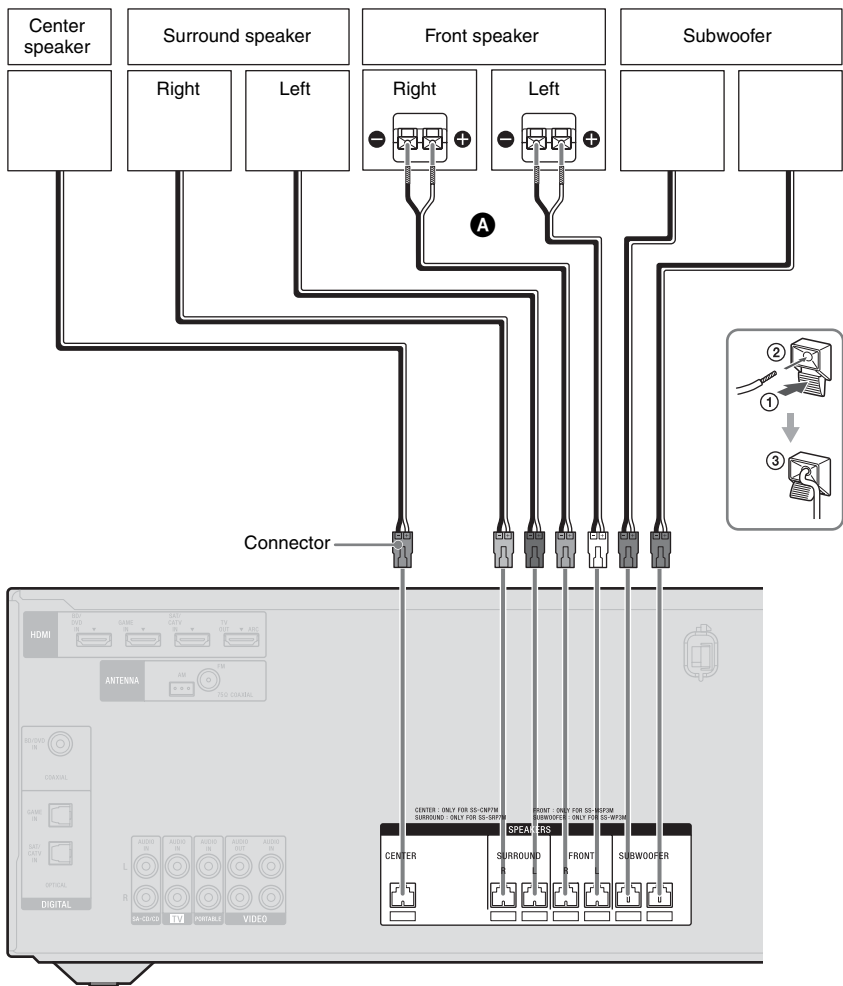
**A** Speaker cord (supplied)

continued

HT-M5



**A** Speaker cord (supplied)



**A** Speaker cord (supplied)

## Note on speaker cords

The connector of the speaker cords are color-coded based on the speaker type. When connecting a speaker cord, be sure to match the colored connector to the speaker terminal on the receiver.

Connector	Speaker terminal
Purple	SUBWOOFER
White	FRONT L
Red	FRONT R
Blue	SURROUND L
Grey	SURROUND R
Brown	SURROUND BACK L*
Tan	SURROUND BACK R*
Green	CENTER

\* HT-M7 only.

## To connect the speakers correctly

Check the speaker type by referring to the speaker label\* on the rear panel of the speakers.

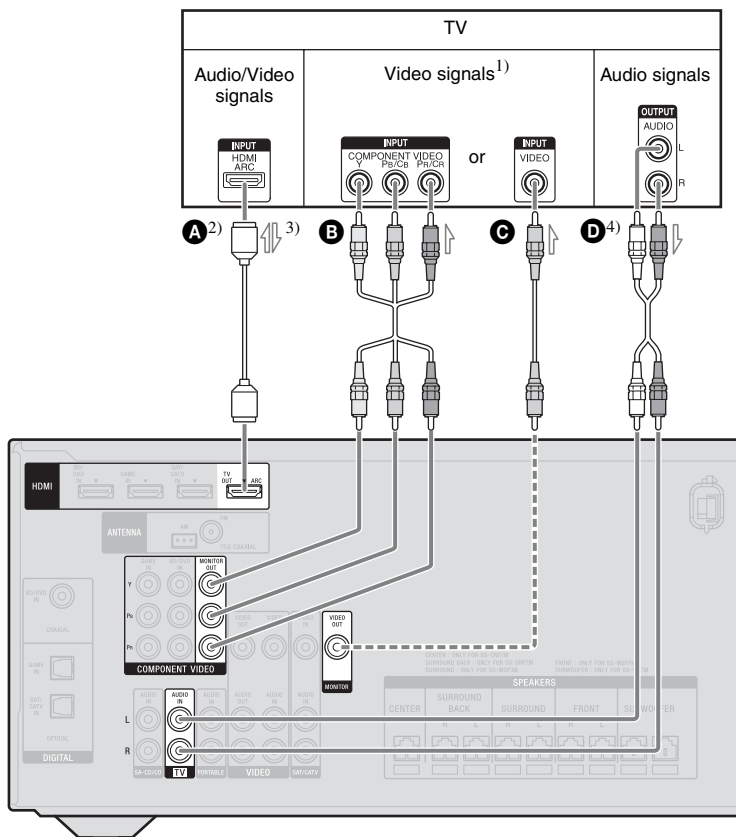
Character on speaker label	Speaker type
<b>L</b>	Front left
<b>R</b>	Front right
<b>SL</b>	Surround left
<b>SR</b>	Surround right
<b>SBL**</b>	Surround back left
<b>SBR**</b>	Surround back right

\* The center speaker and subwoofers do not have any character on the speaker label. For details on the speaker type, see page 3.

\*\* HT-M7 only.

### 3: Connecting the TV

Before connecting cords, be sure to disconnect the AC power cord (mains lead).



- A** HDMI cable (not supplied)  
Sony recommends that you use an **HDMI-authorized cable** or **Sony HDMI cable**.
- B** Component video cord (not supplied)
- C** Video cord (not supplied)
- D** Audio cord (not supplied)

— Recommended connection  
----- Alternative connection

<sup>1)</sup>HT-M7/HT-M5 only.

<sup>2)</sup>If your TV is compatible with the Audio Return Channel (ARC) function, connect **A** to enjoy the TV broadcast in multi channel surround sound from the speakers connected to the receiver.

Be sure to turn off the TV's volume or activate the TV's muting function.

<sup>3)</sup>If you connect the receiver to the Audio Return Channel (ARC) compatible TV, the TV sound will output from the speakers connected to the receiver via the HDMI TV OUT jack.

Be sure to set the "CTRL.HDMI" to "CTRL ON" in the HDMI menu (page 51).

<sup>4)</sup>If your TV is not compatible with the Audio Return Channel (ARC) function, connect **B** to output the sound of the TV from the speakers connected to the receiver.

Be sure to turn off the TV's volume or activate the TV's muting function.

## Notes

- Connect a TV monitor or a projector to the HDMI TV OUT or MONITOR OUT (HT-M7/HT-M5 only) jack on the receiver. You may not be able to record even if you connect recording equipment.
- Depending on the status of the connection between the TV and the antenna (aerial), the image on the TV screen may be distorted. If this is the case, place the antenna (aerial) farther away from the receiver.

## Tip

When you connect the audio output jack of the TV to the TV IN jacks of the receiver to output the TV sound from the speakers connected to the receiver, set the sound output jack of the TV to "Fixed" if it can be switched between either "Fixed" or "Variable".

## To listen to the sound from the TV

If your TV does not support System Audio Control function, set the "AUDIO.OUT" to "TV+AMP" in the HDMI menu (page 52).

# 4a: Connecting the video equipment

## Using HDMI connection

High-Definition Multimedia Interface (HDMI) is an interface which transmits video and audio signals in digital format.

By connecting Sony "BRAVIA" Sync-compatible equipment using HDMI cables, operations can be simplified. See "BRAVIA Sync Features" (page 42).

## HDMI features

- A digital audio signals transmitted by HDMI can be output from the speakers connected to the receiver. This signal supports Dolby Digital, DTS, and Linear PCM. For details, see "Digital audio formats supported by the receiver" (page 41).
- The receiver can receive Multi Channel Linear PCM (up to 8 channels) with a sampling frequency of 192 kHz or less with an HDMI connection.
- This receiver supports Deep Color (Deep Colour), x.v.Colour (x.v.Colour) and 3D transmission.
- To enjoy 3D images, connect 3D-compatible TV and video equipment (Blu-ray Disc player, Blu-ray Disc recorder, PlayStation 3, etc.) to the receiver using High Speed HDMI cables, put on 3D glasses, and then play back a 3D-compatible content.

## Notes on HDMI connections

- DSD signals of Super Audio CD are not input and output.
- Depending on the TV or the video equipment, 3D images may not be displayed.
- Refer to the operating instructions of each connected equipment for details.

## When connecting cords

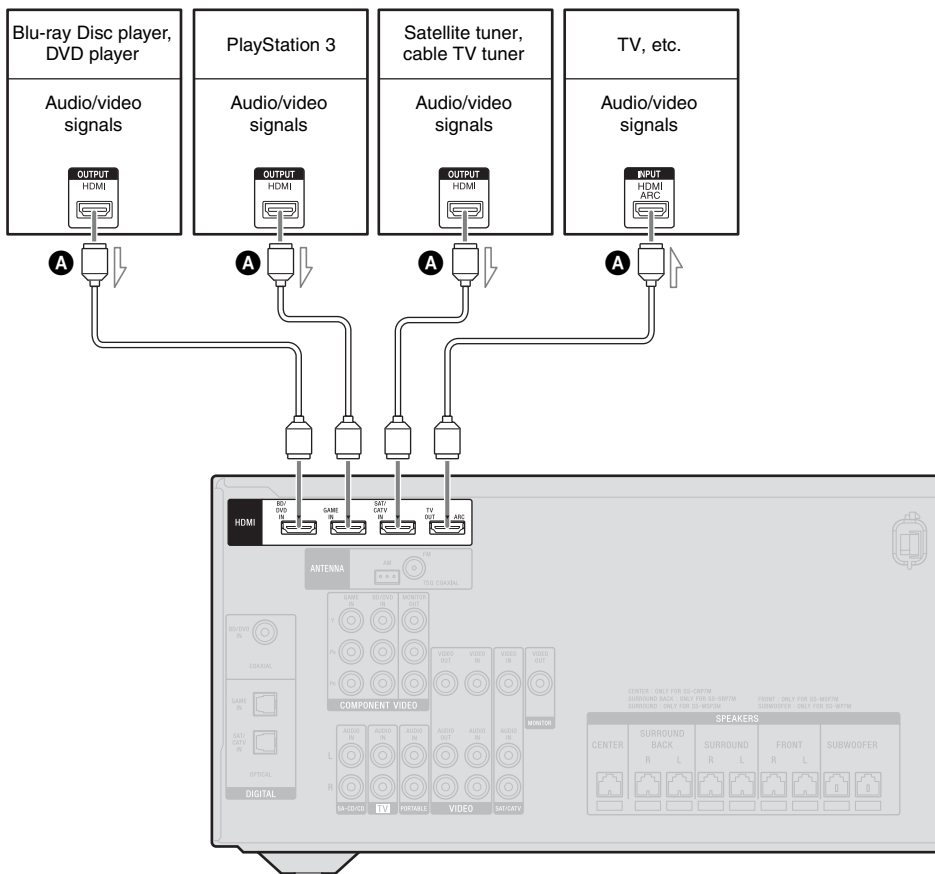
- Before connecting cords, be sure to disconnect the AC power cord (mains lead).
- It is not necessary to connect all the cords. Connect according to the availability of jacks on the connected equipment.
- Use a High Speed HDMI cable. If you use a Standard HDMI cable, 1080p, Deep Color (Deep Colour) or 3D images may not be displayed properly.
- We do not recommend using an HDMI-DVI conversion cable. When you connect an HDMI-DVI conversion cable to a DVI-D equipment, the sound and/or the image may be lost.
- When connecting optical digital cords, insert the plugs straight until they click into place.
- Do not bend or tie optical digital cords.

### Tip

All the digital audio jacks are compatible with 32 kHz, 44.1 kHz, 48 kHz, and 96 kHz sampling frequencies.

## Connecting equipment with HDMI jacks

If your equipment does not have an HDMI jack, see page 25.

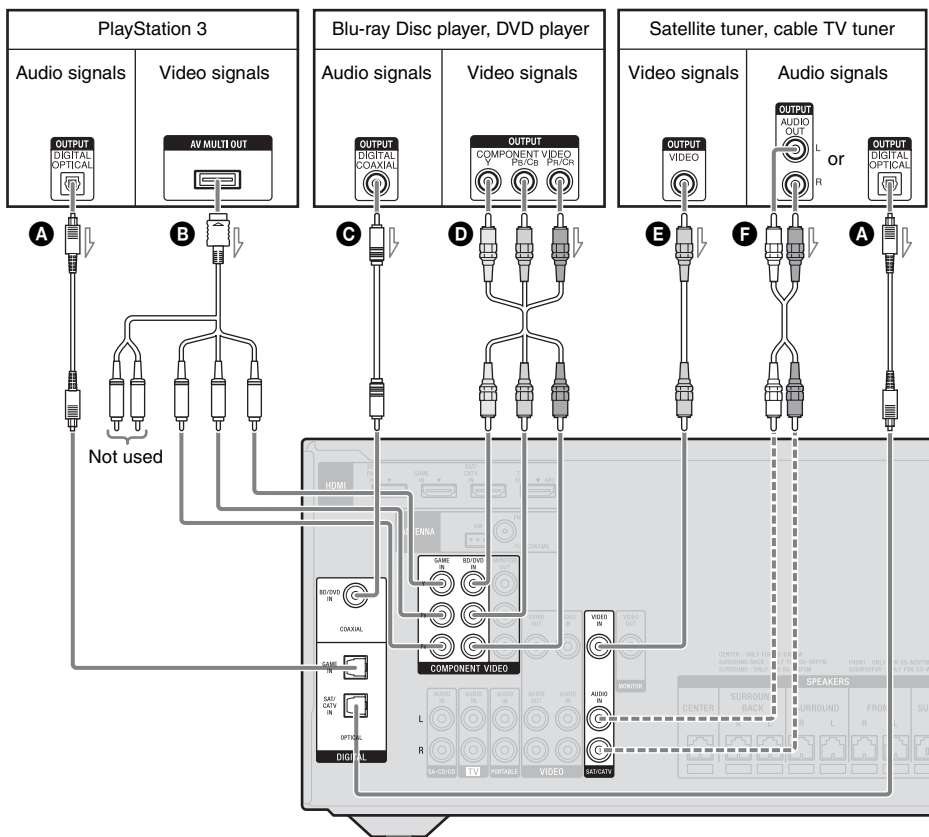


- A** HDMI cable (not supplied)  
 Sony recommends that you use an HDMI-authorized cable or Sony HDMI cable.



# Connecting equipment with jacks other than HDMI jacks

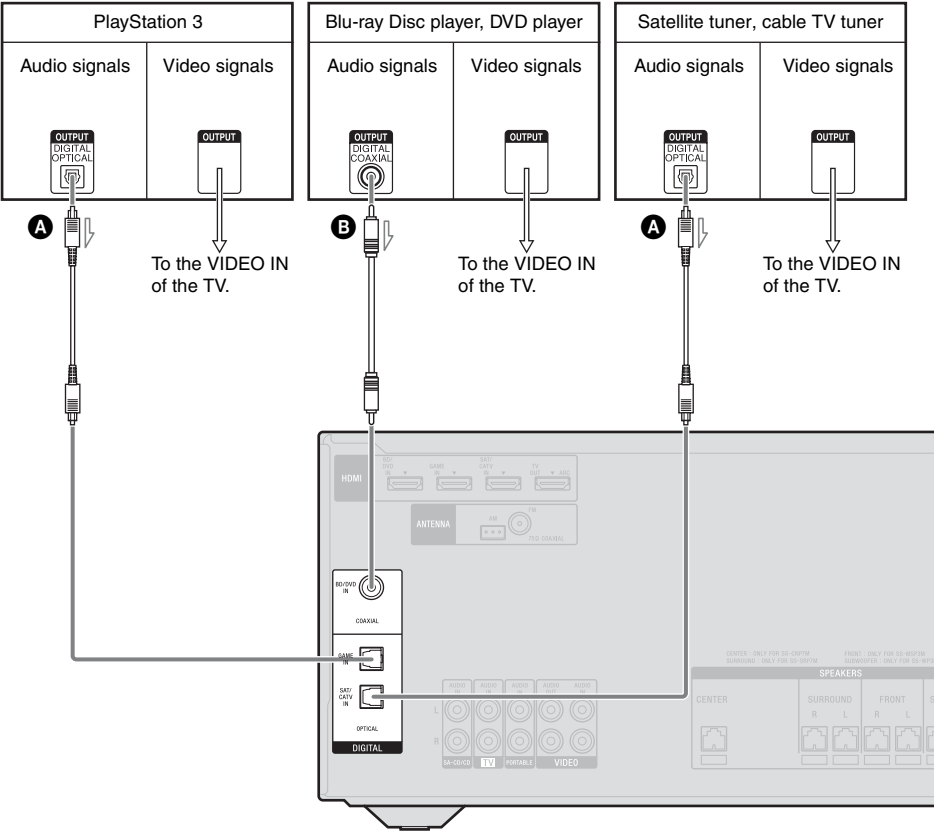
## HT-M7/HT-M5



- A** Optical digital cord (not supplied)
- B** Component AV cable (not supplied)
- C** Coaxial digital cord (not supplied)
- D** Component video cord (not supplied)
- E** Video cord (not supplied)
- F** Audio cord (not supplied)

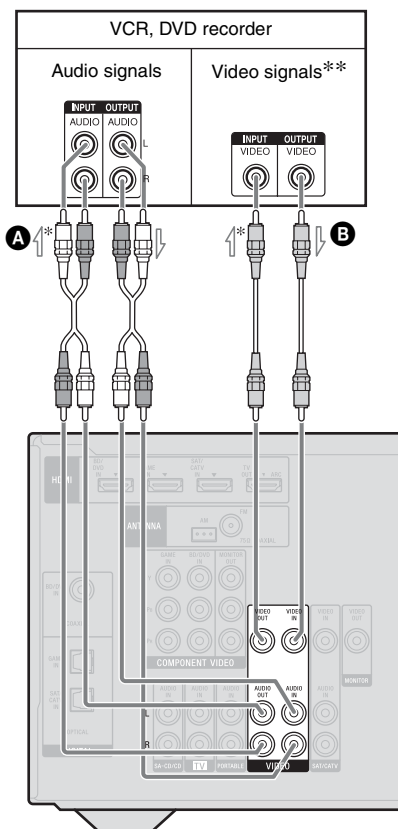
— Recommended connection  
 ----- Alternative connection

# HT-M3



- A** Optical digital cord (not supplied)
- B** Coaxial digital cord (not supplied)

## Connecting a VCR, DVD recorder



**A** Audio cord (not supplied)

**B** Video cord (not supplied)

\* If you want to record, you must make this connection (page 36).

\*\* HT-M7/HT-M5 only.

### Note

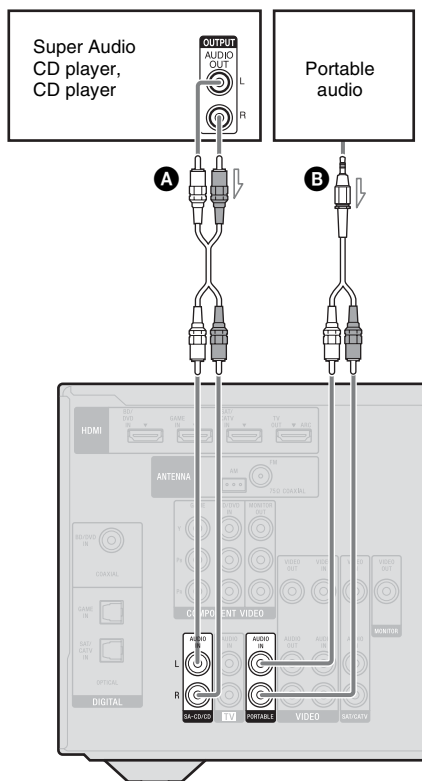
(HT-M3 only)

Be sure to connect the video output of the VCR or DVD recorder to the TV, so that the image is displayed on the TV. For details, refer to the operating instructions of the connecting equipment.

## 4b: Connecting the audio equipment

### Connecting a Super Audio CD player, CD player, portable audio

Before connecting cords, be sure to disconnect the AC power cord (mains lead).

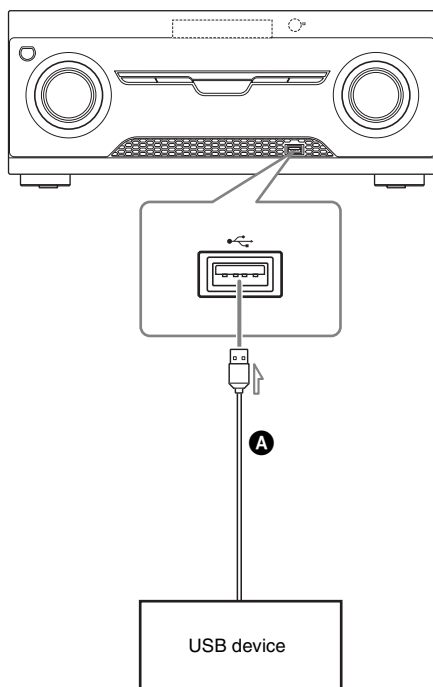


**A** Audio cord (not supplied)

**B** Audio cord with stereo mini-plug (supplied for Australia model only)

## Connecting a USB device

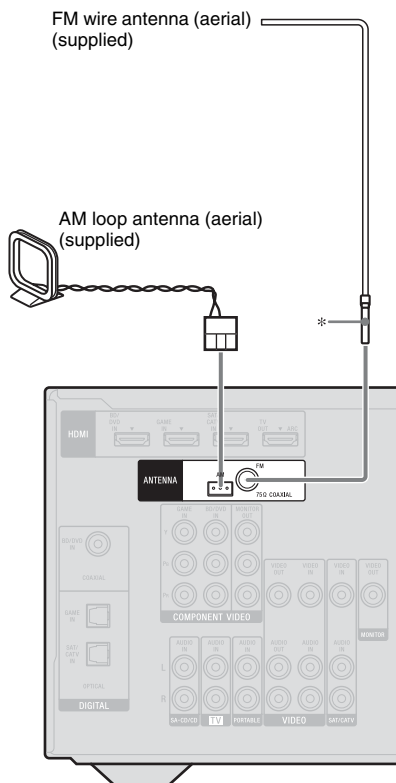
(Except for South Africa and Argentina models)



**A** USB cable (not supplied)

## 5: Connecting the antennas (aerials)

Before connecting antennas (aerials), be sure to disconnect the AC power cord (mains lead).



\* The shape of the connector varies depending on the area of this receiver.

### Notes

- To prevent noise pickup, keep the AM loop antenna (aerial) away from the receiver and other equipment.
- Be sure to fully extend the FM wire antenna (aerial).
- After connecting the FM wire antenna (aerial), keep it as horizontal as possible.

## Preparing the Receiver

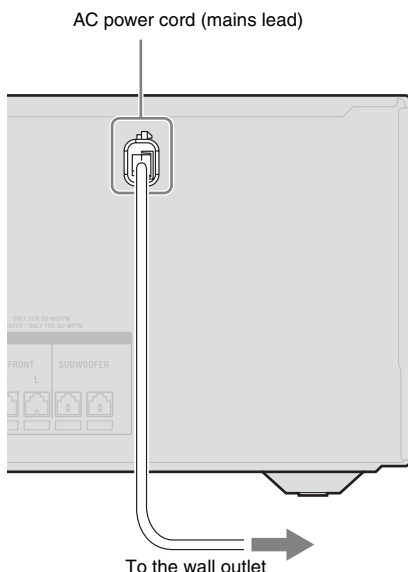
### Setting the voltage selector

If your receiver has a voltage selector on the rear panel, check that the voltage selector is set to the local power supply voltage. If not, use a screwdriver to set the selector to the correct position before connecting the AC power cord to a wall outlet.

Depending on the area, the VOLTAGE SELECTOR may differ.

### Connecting the AC power cord (mains lead)

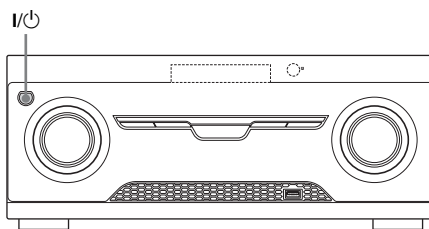
Connect the AC power cord (mains lead) to a wall outlet.



## Initializing the receiver

Before using the receiver for the first time, initialize the receiver by performing the following procedure. This procedure can also be used to revert back to the factory default settings.

Be sure to use the button on the receiver to perform this operation.



**1 Press I/⏻ to turn off the receiver.**

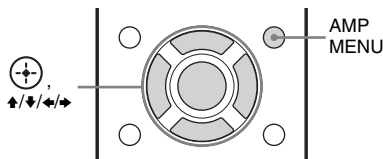
**2 Hold down I/⏻ for 5 seconds.**

The “CLEARING” appears on the display panel for a while, then changes to “CLEARED”.

Changes or adjustments made to the settings are now reset to the defaults.

## Selecting surround speaker position

Select the surround speaker position according to the speaker configuration.



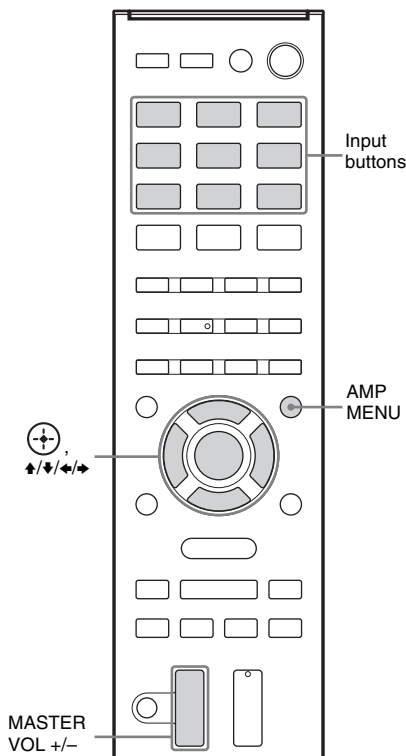
- 1 Press AMP MENU.**
- 2 Press  $\uparrow/\downarrow$  repeatedly to select “SPKR”, then press  $\odot$  or  $\rightarrow$ .**
- 3 Press  $\uparrow/\downarrow$  repeatedly to select “SUR SPK”, then press  $\odot$  or  $\rightarrow$ .**
- 4 Press  $\uparrow/\downarrow$  repeatedly to select the speaker position you want.**
  - FRONT: If you install all the speakers in front position, select “FRONT”.
  - REAR: If you install the surround/surround back speakers at rear position, select “REAR” to enjoy multi channel surround sound.

### Tip

You can also press SURROUND SPEAKER repeatedly on the receiver to select the surround speaker position.

## Adjusting the speaker levels and balance (TEST TONE)

You can adjust the speaker levels and balance while listening to the test tone from your seating position.



- 1 Press AMP MENU.**
- 2 Press  $\uparrow/\downarrow$  repeatedly to select “LEVEL”, then press  $\odot$  or  $\rightarrow$ .**
- 3 Press  $\uparrow/\downarrow$  repeatedly to select “T. TONE”, then press  $\odot$  or  $\rightarrow$ .**

#### 4 Press **▲/▼** repeatedly to select “**AUTO ■■■■\***”.

The test tone is output from each speaker in sequence.

\* ■■■■ represent a speaker channel.

#### 5 Adjust the speaker levels and balance.

Use the LEVEL menu (page 50) to adjust the speakers to have the same sounding test tone level for each speaker.

##### Tips

- To adjust the level of all speakers at the same time, press MASTER VOL +/- . You can also use MASTER VOLUME on the receiver.
- The adjusted value are shown on the display panel during adjustment.

#### 6 Exit test tone.

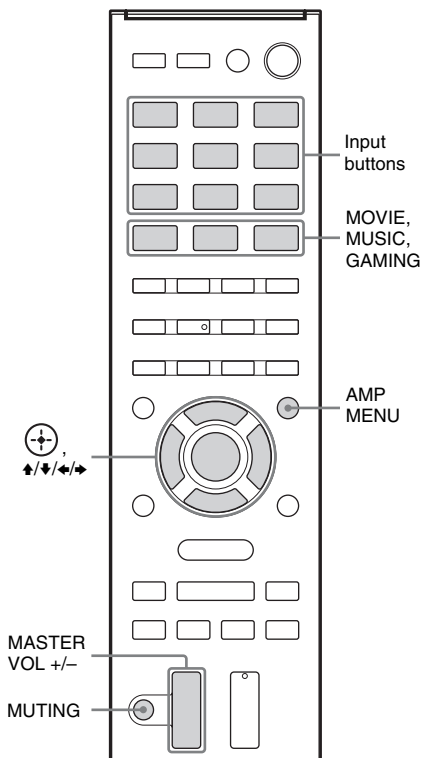
Press any input buttons or select “OFF” under step 4.

#### When a test tone is not output from the speakers

- The speaker cords may not be connected securely.
- The speaker cords may have the short-circuit problem.
- The MASTER VOLUME may has set to “VOL MIN”.

## Basic Operations

### Playing an input source equipment



#### 1 Press the input button which corresponds to the equipment you want.

You can also use INPUT SELECTOR on the receiver.

The selected input appears on the display panel.

#### 2 Turn on the equipment and start playback.

*continued*

### 3 Press MASTER VOL +/- to adjust the volume.

You can also use MASTER VOLUME on the receiver.

### 4 Press MOVIE, MUSIC or GAMING to enjoy the surround sound.

For details, see page 40.

### To activate the muting function

Press MUTING on the remote control.

The muting function will be canceled when you do the following.

- Press the button again.
- Increase the volume.
- Turn off the receiver.

### To avoid damaging your speakers

Before you turn off the receiver, be sure to turn down the volume level.

## Naming inputs

You can enter a name of up to 8 characters for inputs (except TUNER) to appear on the display panel.

It is more recognizable having the equipment named on the display than the jacks.

### 1 Press the corresponding input button which you want to create an index name.

You can also use INPUT SELECTOR on the receiver.

### 2 Press AMP MENU.

### 3 Press $\uparrow/\downarrow$ repeatedly to select "SYSTEM", then press $\leftarrow$ or $\rightarrow$ .

### 4 Press $\uparrow/\downarrow$ repeatedly to select "NAME IN", then press $\leftarrow$ or $\rightarrow$ .

The cursor flashes and you can enter a character.

### 5 Press $\uparrow/\downarrow$ to select a character, then press $\leftarrow/\rightarrow$ to move the input position backward and forward.

#### Tips

- You can select the character type as follows by pressing  $\uparrow/\downarrow$ .  
Alphabet (upper case)  $\rightarrow$  Numbers  $\rightarrow$  Symbols
- To enter a blank space, press  $\rightarrow$  without selecting a character.

#### If you made a mistake

Press  $\leftarrow/\rightarrow$  until the character you want to change flashes, then press  $\uparrow/\downarrow$  to select the correct character.


### 6 Press $\leftarrow$ .

The name you entered is registered.



# Playing a USB device

## (Except for South Africa and Argentina models)

You can enjoy music from the USB device by connecting it to the  (USB) port on the receiver.

For details on connecting a USB device, see “Connecting a USB device” (page 28).

The music file formats that can be played back by this receiver are as follows:

File format	Extensions
MP3 (MPEG-1 Audio Layer III)	“.mp3”
AAC*	“.m4a”, “.3gp”, “.mp4”
WMA9 Standard*	“.wma”

\* The receiver does not play files encoded with DRM.

## Compatible USB devices

You can use the following Sony USB devices on this receiver. Other USB devices cannot be used on this receiver.

## Verified Sony USB device

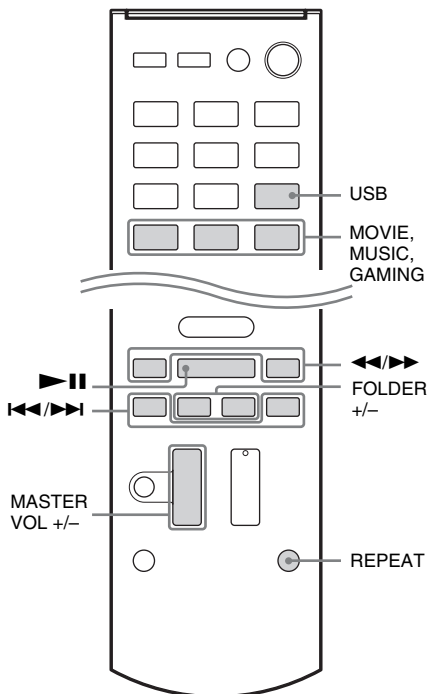
Product name	Model name
Walkman®	NWZ-S754 / S755
	NWZ-E453 / E454 / E455
	NWZ-E353 / E354 / E355
	NWZ-B133 / B135 / B133F / B135F
	NWZ-B142 / B143 / B142F / B143F
	NWD-E023F / E025F
	NWZ-E435F / E436F / E438F
	NWZ-E343 / E344 / E345
	NWZ-S636F / S638F / S639F
	NWZ-S736F / S738F / S739F
	NWZ-A726 / A728 / A729 / A726B / A728B
	NWZ-A826 / A828 / A829

Product name	Model name
	NWZ-W202
	NWZ-X1050 / X1060
	NWZ-S744 / S745
	NWZ-E443 / E444 / E445
	NWZ-S543 / S544 / S545
	NWZ-A844 / A845 / A846 / A847
	NWZ-W252 / W253
	NWZ-B152 / B153 / B152F / B153F
MICROVAULT	USM1GL / 2GL / 4GL / 8GL / 16GL
	USM1GLX / 2GLX / 4GLX / 8GLX / 16GLX

## Notes

- The receiver is unable to read data in NTFS format.
- The receiver is unable to read data other than that saved in the first partition of a hard disk drive.
- Do not use USB devices other than these USB devices. Operation of models not listed here is not guaranteed.
- Operation may not always be ensured even when using these USB devices.
- Some of these USB devices may not be available for purchase in certain areas.
- When formatting the above models, be sure to format using the model itself or the dedicated formatting software for that model.
- When connecting a USB device to the receiver, be sure to connect after the display “Creating Library” or “Creating Database” on the USB device has disappeared.

## Operating the USB device



### 1 Press USB.

You can also use INPUT SELECTOR on the receiver.

When the USB device is connected, “USB” indicator appears on the display panel.

### 2 Press ►|| to start playback.

### 3 Press MASTER VOL +/- to adjust the volume.

You can also use MASTER VOLUME on the receiver.

### 4 Press MOVIE, MUSIC or GAMING to enjoy the surround sound.

For details, see page 40.

## Other operations

Press	Operation
►	Starts/pauses play.
◀◀/▶▶	Fast reverses or forwards.
◀◀/▶▶	Goes to the previous/next file.
FOLDER +/-	Goes to the previous/next folder.
REPEAT	Enters repeat mode. <ul style="list-style-type: none"> <li>• RPT. OFF/RPT. ONE/ RPT. ALL/RPT. FLD</li> </ul>

## Notes on the USB device

- Do not remove the USB device during operation. To avoid data corruption or damage to the USB device, turn the receiver off when removing the USB device.
  - When USB cable connection is necessary, connect the USB cable supplied with the USB device to be connected. Refer to the operating instructions supplied with the USB device to be connected for details on the operation method.
  - Do not connect the receiver and the USB device through a USB hub.
  - When the USB device is connected, “READING” appears.
  - It may take about 10 seconds before “READING” appears depending on the type of USB device connected.
  - When the USB device is connected, the receiver reads all the files on the USB device. If there are many folders or files on the USB device, it may take a long time to finish reading the USB device.
  - The receiver can recognize up to
    - 100 folders (including “ROOT” folder).
    - 100 audio files for each folder.
    - 8 folder levels (tree structure of files, including “ROOT” folder).
- The maximum number of audio files and folders may vary depending on the file and folder structure.
- Do not save other types of files or unnecessary folders on a USB device.

- Compatibility with all encoding/writing softwares, recording devices, and recording media cannot be guaranteed. Incompatible USB device may produce noise or interrupted audio or may not play at all.
- Some time may be needed to start playback when:
  - the folder structure is complex.
  - the memory capacity is excessive.
- This receiver does not necessarily support all the functions provided in a connected USB device.
- The playback order for the receiver may differ from the playback order of the connected USB device.
- Folders that have no audio files are skipped.
- When playing a very long track, some operations may cause playback delay.

## USB message list

### Message and explanation

#### READING

The receiver is recognizing and reading information of the USB device.

#### DEVICE ERROR

The memory of the USB device could not be recognized (page 33).

#### NO SUPPORT

An unsupported USB device is connected, an unknown device is connected, or the USB device is connected through a USB hub (page 33).

#### NO DEVICE

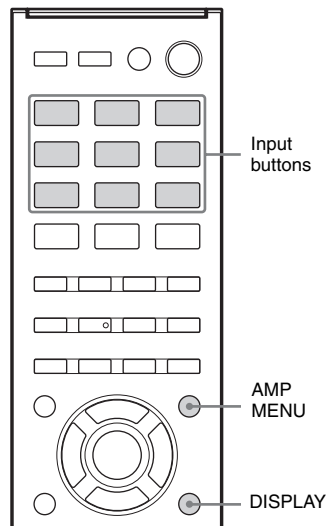
No USB device is connected or the connected USB device is not recognized.

#### NO TRACK

No track was found.

## Viewing information on the display panel

The display panel provides various information of the receiver status such as sound field.



**1 Press the corresponding input button which you want to check the information.**

**2 Press DISPLAY repeatedly.**

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

Index name of the input\* → Selected input → Sound field currently applied → Volume level → Stream info\*\*

### When listening to FM and AM radio

Preset station name\* → Frequency → Sound field currently applied → Volume level

\* Index name appears only when you have assigned one to the input or preset station (page 32, 39). Index name does not appear when only blank spaces have been entered, or it is the same as the input name.

\*\* Stream information may not be displayed.

*continued*

## Note

Character or marks may not be displayed for some languages.

- (HT-M3 only)
  - You can only record audio signals using this receiver.
  - Audio input signals via HDMI IN and DIGITAL IN jacks cannot be recorded.

# Recording using the receiver

You can record from an audio/video equipment using the receiver. Refer to the operating instructions supplied with your recording equipment.

## 1 Prepare the source for playing.

Press the input button to select the source. You can also use INPUT SELECTOR on the receiver.

Example 1 (audio recording):

Press SA-CD/CD.

Example 2 (video recording – HT-M7/HT-M5 only):

Press SAT/CATV.

## 2 Prepare the recording equipment.

Insert a blank video tape, etc. into the recording equipment (connected to VIDEO OUT jacks).

## 3 Start recording on the recording equipment, then start the playback equipment.

### Notes

- Some sources contain copyright protection to prevent recording. In this case, you may not be able to record from the source.
- While the source is being recorded, the auto standby function of the receiver may start up and interrupt the recording. In this case, set the “AUTO.STBY” to “STBY OFF” (page 52).
- (HT-M7/HT-M5 only)  
Audio input signals via HDMI IN, DIGITAL IN and COMPONENT VIDEO IN jacks cannot be recorded.

## Tuner Operations

### Listening to FM/AM radio

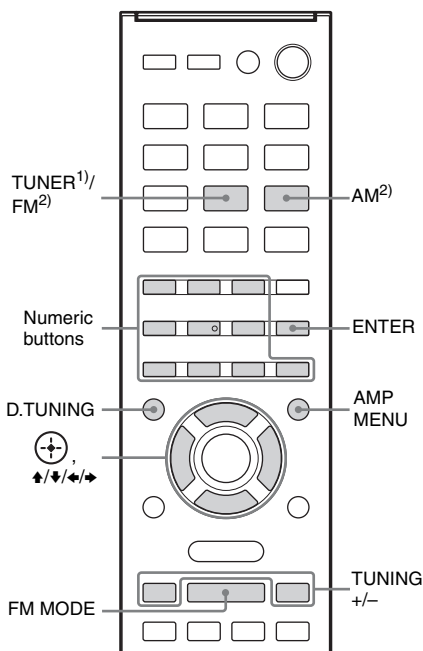
You can listen to FM and AM broadcasts through the built-in tuner. Before operation, make sure you have connected the FM and AM antennas (aerials) to the receiver (page 28).

#### Tip

The tuning scale for direct tuning is shown below.

Area	FM	AM
Latin America, Argentina and Mexico	50 kHz	10 kHz*
Australia, South Africa, Middle East, India, Thailand, Singapore and Europe	50 kHz	9 kHz

\* The AM tuning scale can be changed (page 38).



¹)RM-AAU135 only.

²)RM-AAU136 only.

### Tuning to a station automatically (Automatic Tuning)

- 1 Press **TUNER** repeatedly (or press **FM** or **AM**) to select the **FM** or **AM** band.

You can also use **INPUT SELECTOR** on the receiver.

- 2 Press **TUNING +** or **TUNING -**.

**TUNING +** scans from lower to higher frequency stations and **TUNING -** for scanning higher to lower.

The receiver stops scanning whenever a station is received.

### In case of poor FM stereo reception

If the FM stereo reception is poor and “ST” flashes on the display panel, select monaural audio to lessen the sound distortion. Press **FM MODE** repeatedly to select “MONO”.

To return to stereo mode, press **FM MODE** repeatedly to select “STEREO”.

### Tuning to a station directly (Direct Tuning)

You can enter the frequency of a station directly by using the numeric buttons.

- 1 Press **TUNER** repeatedly (or press **FM** or **AM**) to select the **FM** or **AM** band.

You can also use **INPUT SELECTOR** on the receiver.

- 2 Press **D.TUNING**.

### 3 Press the numeric buttons to enter the frequency.

Example 1: FM 102.50 MHz

Select 1 ➡ 0 ➡ 2 ➡ 5 ➡ 0

Example 2: AM 1,350 kHz

Select 1 ➡ 3 ➡ 5 ➡ 0

#### Tip

Adjust the direction of the AM loop antenna (aerial) for optimum reception upon tuning to an AM station.

### 4 Press ENTER.

#### If you cannot tune to a station

“---.---MHz” or “---.---kHz” appears and then the display panel returns to the current frequency.

Make sure you have entered the right frequency. Try repeating steps 2 to 4. If you still cannot tune to a station, the frequency may not be in use in your area.

## Changing the AM tuning scale

### (Latin America, Argentina and Mexico models only)

You can change the AM tuning scale to either 9 kHz or 10 kHz.

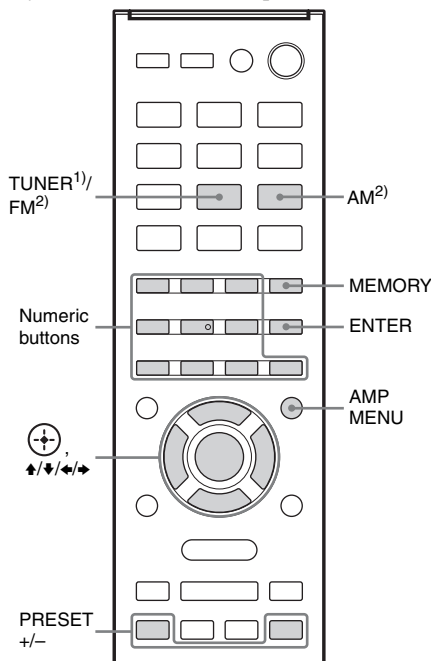
- 1 Press **TUNER** repeatedly (or press **AM**) to select **AM**.
- 2 Press **AMP MENU**.
- 3 Press **⬆/⬇** repeatedly to select “**TUNER**”, then press **⬆** or **➡**.
- 4 Press **⬆/⬇** repeatedly to select “**AM STEP**”, then press **⬆** or **➡**.
- 5 Press **⬆/⬇** repeatedly to select the AM tuning scale you want.

#### Note

All AM preset stations will be erased when you change the tuning scale.

## Presetting FM/AM radio stations

You can store up to 30 FM and 30 AM stations as your favorite stations as preset stations.



<sup>1)</sup>RM-AAU135 only.

<sup>2)</sup>RM-AAU136 only.

- 1 Press **TUNER** repeatedly (or press **FM** or **AM**) to select the **FM** or **AM** band.  
You can also use **INPUT SELECTOR** on the receiver.
- 2 Tune to the station that you want to preset using **Automatic Tuning** (page 37) or **Direct Tuning** (page 37).
- 3 Press **MEMORY**.

- 4 Press the numeric buttons to select a preset number.**

You can also press PRESET + or PRESET – to select a preset number.

- 5 Press ENTER.**

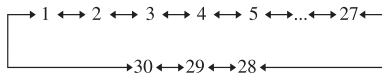
The station is stored as the selected preset number.

- 6 Repeat steps 1 to 5 to store another station.**

## Tuning to preset stations

- 1 Press TUNER repeatedly (or press FM or AM) to select the FM or AM band.**
- 2 Press PRESET + or PRESET – repeatedly to select the station.**

Each time you press the button, you can select a preset station as follows:



You can also press the numeric buttons to enter the preset station. To tune to the selection, press ENTER.

## Naming preset stations

- 1 Press TUNER repeatedly (or press FM or AM) to select the FM or AM band.**

You can also use INPUT SELECTOR on the receiver.

- 2 Tune to the preset station you want to create an index name for (page 39).**

- 3 Press AMP MENU.**

- 4 Press  $\uparrow/\downarrow$  repeatedly to select "TUNER", then press  $\oplus$  or  $\rightarrow$ .**

- 5 Press  $\uparrow/\downarrow$  repeatedly to select "NAME IN", then press  $\oplus$  or  $\rightarrow$ .**

The cursor flashes and you can enter a character.

- 6 Press  $\uparrow/\downarrow$  to select a character, then press  $\leftarrow/\rightarrow$  to move the input position backward and forward.**

You can enter up to 8 characters to name the station.

### Tips

- You can select the character type as follows by pressing  $\uparrow/\downarrow$ .  
Alphabet (upper case)  $\rightarrow$  Numbers  $\rightarrow$  Symbols
- To enter a blank space, press  $\rightarrow$  without selecting a character.

### If you made a mistake

Press  $\leftarrow/\rightarrow$  until the character you want to change flashes, then press  $\uparrow/\downarrow$  to select the correct character.

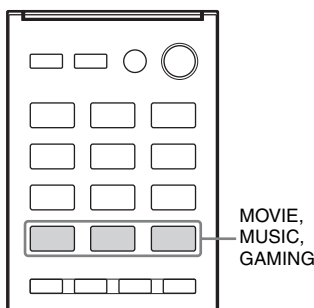
- 7 Press  $\oplus$ .**

The name you entered is registered.

## Enjoying Surround Sound

### Selecting the sound field

This receiver can create multi channel surround sound. You can select one of the optimized sound fields from the receiver's pre-programmed sound fields.



**Press MOVIE, MUSIC or GAMING to select the sound field you want.**

#### Note

Before selecting the sound field, be sure to select the surround speaker position according to the speaker configuration. For details, see “Selecting surround speaker position” (page 30).

#### ■ MOVIE A (Movie A)

Optimizes sound output from all speakers for movie playback.

#### ■ MOVIE B (Movie B)

Reproduces a movie effect sound.

#### ■ MUSIC (Music)

Reproduces music sound with multi channel output.

#### ■ GAMING (Gaming)

Reproduces the sound processing of video games for better gaming experience.

### Notes on sound fields

- The sound fields for music and movie do not work for signals with a sampling frequency of more than 48 kHz.
- The effects provided by the virtual speakers may cause increased noise in the playback signal.
- When listening with sound fields that employ the virtual speakers, you will not be able to hear any sound coming directly from the surround speakers.

#### Tip

You can identify the encoding format of DVD software, etc., by looking at the logo on the package.

### To turn off the surround effect

Press MOVIE repeatedly to select “MOVIE A”.



## Digital audio formats supported by the receiver

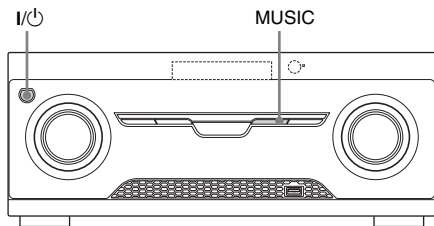
Digital audio formats that this receiver can decode depend on digital audio output jacks of the connected equipment. This receiver supports the following audio formats.

Audio format	Maximum number of channels	Connection between the playback equipment and the receiver	
		COAXIAL/OPTICAL	HDMI
Dolby Digital	5.1	○	○
DTS	5.1	○	○
DTS 96/24	5.1	○	○
Multi Channel Linear PCM*	7.1	×	○

\* Audio signals are output in another format if the playback equipment does not correspond to the format. For details, refer to the operating instructions of the playback equipment.

# Resetting sound fields to the default settings

Be sure to use the buttons on the receiver to perform this operation.



- 1 Press I/⏻ to turn off the receiver.**
- 2 While holding down MUSIC, press I/⏻.**  
“S.F. CLEAR” appears on the display panel and all sound fields are reset to their default setting.

## “BRAVIA” Sync Features

### What is “BRAVIA” Sync?

The “BRAVIA” Sync function allows communication between Sony products such as TV, Blu-ray Disc/DVD player, AV amplifier, etc. that supports the Control for HDMI function.

By connecting Sony equipment that is compatible with the “BRAVIA” Sync with an HDMI cable (not supplied), operation is simplified as follows:

- One-Touch Play (page 44)
- System Audio Control (page 44)
- System Power-Off (page 45)
- Scene Select (page 45)

Control for HDMI is a mutual control function standard used by HDMI CEC (Consumer Electronics Control) for HDMI (High-Definition Multimedia Interface).

We recommend that you connect the receiver to products featuring “BRAVIA” Sync.

#### Note

Depending on the connected equipment, the Control for HDMI function may not work. Refer to the operating instructions of the equipment.

## Preparing for the “BRAVIA” Sync

The receiver is compatible with the “Control for HDMI-Easy Setting” function.

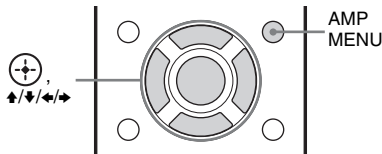
- If your TV is compatible with the “Control for HDMI-Easy Setting” function, you can set the Control for HDMI function of the receiver and playback equipment automatically by setting the Control for HDMI function on your TV (page 43).
- If your TV is not compatible with the “Control for HDMI-Easy Setting” function, set the Control for HDMI function of the receiver, playback equipment and TV individually (page 43).

### If your TV is compatible with the “Control for HDMI-Easy Setting” function

- 1 Connect the receiver, TV and playback equipment via HDMI connection.  
(The respective equipment must be compatible with the Control for HDMI function.)
- 2 Turn on the receiver, TV and playback equipment.
- 3 Turn on the Control for HDMI function of the TV.  
The Control for HDMI function of the receiver and all the connected equipment are turned on simultaneously. When the setup is completed, “COMPLETE” will appear on the display panel.

For details on setting the TV, refer to the operating instructions supplied with the TV.

### If your TV is not compatible with the “Control for HDMI-Easy Setting” function



- 1 Press AMP MENU.
- 2 Press  $\uparrow/\downarrow$  repeatedly to select “HDMI”, then press  $\odot$  or  $\rightarrow$ .
- 3 Press  $\uparrow/\downarrow$  repeatedly to select “CTRL.HDMI”, then press  $\odot$  or  $\rightarrow$ .
- 4 Press  $\uparrow/\downarrow$  repeatedly to select “CTRL ON”, then press  $\odot$ .  
Control for HDMI function is turned on.
- 5 Set the Control for HDMI function for the connected equipment to on.  
If the Control for HDMI function is already set to on, you do not need to change the setting.  
For details on setting the TV and connected equipment, refer to the operating instructions of the respective equipment.

#### Notes

- Before you perform the “Control for HDMI-Easy Setting” on your TV, be sure to turn on the TV and other connected equipment including the receiver first.
- If the playback equipment cannot function after you have made the settings for “Control for HDMI-Easy Setting”, check the Control for HDMI setting on your TV.
- If the connected equipment do not support the “Control for HDMI-Easy Setting”, but still supports the Control for HDMI then you need to set the Control for HDMI function for the connected equipment before you perform the “Control for HDMI-Easy Setting” from the TV.

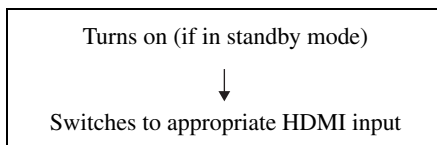
## Playing back equipment with one-touch operation (One-Touch Play)

By a simple operation (one-touch), equipment connected to the receiver with “BRAVIA” Sync function start automatically. You can enjoy the sound/image from connected equipment.

When you set “PASS.THRU” to “AUTO” or “ON”, sound and image can be output only from the TV while the receiver remains in standby mode.

When you start playback a connected equipment, the receiver and TV operation are simplified as follow:

### Receiver and TV



### Notes

- Depending on the TV, the start of the content may not appear.
- Depending on the settings, the receiver may not turn on when “PASS.THRU” is set to “AUTO” or “ON”.
- Be sure that the System Audio Control function is set to on using TV menu.

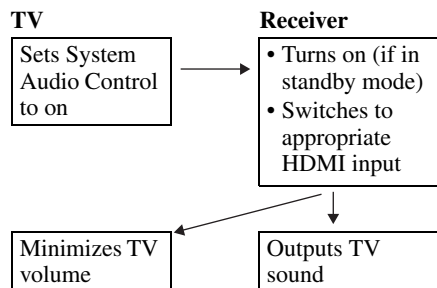
### Tip

You can also select a connected equipment, such as Blu-ray Disc/DVD player from the TV menu. The receiver and TV will automatically switch to the appropriate HDMI input.

## Enjoying the TV sound from the speakers connected to the receiver (System Audio Control)

You can enjoy the TV sound from the speakers connected to the receiver by a simple operation.

You can operate System Audio Control function using the TV menu. For details, refer to the operating instructions of the TV.



You can also use the System Audio Control function as follows.

- If you turn on the receiver while the TV is turned on, the System Audio Control function will automatically activate to output TV sound through the speakers connected to the receiver. However, if you turn off the receiver, the sound will output from the TV speakers.
- When you adjust the TV volume, the System Audio Control function adjusts the receiver’s volume simultaneously.

### Notes

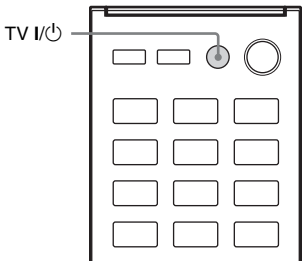
- If System Audio Control does not function according to your TV setting, refer to the operating instructions of the TV.
- When “CTRL.HDMI” is set to “CTRL ON”, the “AUDIO.OUT” settings in the HDMI menu will set automatically based on the System Audio Control settings.
- Your TV must support the System Audio Control function.
- If the TV is turned on before turning on the receiver, the TV will momentarily lose the sound output.

# Turning off the receiver with the TV

## (System Power-Off)

When you turn the TV off, using the POWER button on the TV’s remote control, the receiver and the connected equipment turn off automatically.

You can also use the receiver’s remote control to turn off the TV.



### Press TV I/⏻.

The TV, receiver and the equipment connected via HDMI are turned off.

### Notes

- Set the TV power supply interlock function to on before using the System Power-Off function. For details, refer to the operating instructions of the TV.
- Depending on the connected equipment, it may not be turned off. For details, refer to the operating instructions of the connected equipment.

# Enjoying optimum sound field for the selected scene

## (Scene Select)

The Scene Select function allows you to enjoy the optimum picture quality and switches the sound field according to the selected scene on your TV. For details on the operation, refer to the operating instructions of the TV.

### Note

The sound field may not switch depending on the TV.

### Correspondence table

Scene setting on the TV	Sound field
Cinema	MOVIE B
Sports	MOVIE B
Music	MUSIC
Animation	MOVIE B
Photo	MUSIC
Game	GAMING
Graphic	MUSIC

## Advanced Operations

### Switching between digital and analog audio (INPUT MODE)

When you connect equipment to both digital and analog audio input jacks on the receiver, you can fix the audio input mode to either of them, or switch from one to the other, depending on the type of material you intend to watch.

#### 1 Press input button to select the input source.

You can also use the INPUT SELECTOR on the receiver.

#### 2 Press AMP MENU.

#### 3 Press $\uparrow/\downarrow$ repeatedly to select "AUDIO", then press $\odot$ or $\rightarrow$ .

#### 4 Press $\uparrow/\downarrow$ repeatedly to select "IN MODE", then press $\odot$ or $\rightarrow$ .

#### 5 Press $\uparrow/\downarrow$ repeatedly to select the audio input you want.

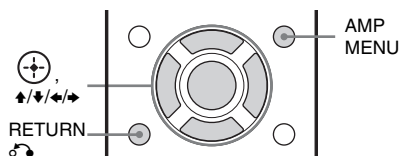
- **AUTO:** Gives priority to digital audio signals when there are both digital and analog connections.  
If there are more than one digital connection, HDMI audio signals have priority.  
If there are no digital audio signals, analog audio signals are selected.
- **COAX:** Specifies the digital audio signals input to the DIGITAL COAXIAL jack.
- **OPT:** Specifies the digital audio signals input to the DIGITAL OPTICAL jack.
- **ANALOG:** Specifies the analog audio signals input to the AUDIO IN (L/R) jacks.

## Notes

- Some audio input modes may not be set up based on the input.
- The Audio Return Channel (ARC) function does not work in the following cases.
  - Your TV is not compatible with the Audio Return Channel (ARC) function.
  - "CTRL.HDMI" is set to "CTRL OFF".
  - When you do not connect the receiver to the ARC compatible TV's HDMI jack via an HDMI cable.

## Using the setting menu

You can customize the receiver by making various adjustments with settings menu.



#### 1 Press AMP MENU.

#### 2 Press $\uparrow/\downarrow$ repeatedly to select the menu item you want, then press $\odot$ or $\rightarrow$ .

#### 3 Press $\uparrow/\downarrow$ repeatedly to select the parameter you want to adjust, then press $\odot$ or $\rightarrow$ .

#### 4 Press $\uparrow/\downarrow$ repeatedly to select the setting you want, then press $\odot$ .

### To return to the previous display

Press  $\leftarrow$  or RETURN  $\hookrightarrow$ .

### To exit the menu

Press AMP MENU.

**Note**

Some parameters and settings may appear dimmed on the display panel. This means that they are either unavailable or fixed and unchangeable.

**Overview of the menus**

The following options are available in each menu. For details, see the referencing page in the parentheses.

Menu [Display]	Parameters [Display]	Settings	Default setting
LEVEL [LEVEL] (page 50)	Test tone [T. TONE]	AUTO ■■■ <sup>a)</sup> , OFF	OFF
	Front speaker balance [FRT BAL]	BAL. L+1 to BAL. L+8, BALANCE, BALANCE BAL. R+1 to BAL. R+8	
	Center speaker level [CNT LVL]	CNT -10.0 dB to CNT +10.0 dB (0.5 dB interval)	CNT 0 dB
	Surround left speaker level [SL LVL]	SL -10.0 dB to SL +10.0 dB (0.5 dB interval)	SL 0 dB
	Surround right speaker level [SR LVL]	SR -10.0 dB to SR +10.0 dB (0.5 dB interval)	SR 0 dB
	Surround back left speaker level <sup>b)</sup> [SBL LVL]	SBL -10.0 dB to SBL +10.0 dB (0.5 dB interval)	SBL 0 dB
	Surround back right speaker level <sup>b)</sup> [SBR LVL]	SBR -10.0 dB to SBR +10.0 dB (0.5 dB interval)	SBR 0 dB
	Subwoofer level [SW LVL]	SW -10.0 dB to SW +10.0 dB (0.5 dB interval)	SW 0 dB
	Dynamic range compressor [D. RANGE]	COMP. MAX, COMP. STD, COMP. OFF	COMP. OFF

<b>Menu [Display]</b>	<b>Parameters [Display]</b>	<b>Settings</b>	<b>Default setting</b>
SPEAKER [SPKR] (page 50)	Surround speaker position [SUR SPK]	FRONT, REAR	FRONT
	Front left speaker distance [FL DIST.]		
	Front right speaker distance [FR DIST.]		
	Center speaker distance [CNT DIST.]		
	Surround left speaker distance [SL DIST.]		
	Surround right speaker distance [SR DIST.]	1.00 m to 10.00 m (0.10 m interval)	3.00 m
	Surround back left speaker distance <sup>b)</sup> [SBL DIST.]		
	Surround back right speaker distance <sup>b)</sup> [SBR DIST.]		
	Subwoofer distance [SW DIST.]		
EQ [EQ] (page 50)	Front speakers bass level [BASS]	BASS –6 dB to BASS +6 dB (1 dB interval)	BASS 0 dB
	Front speakers treble level [TREBLE]	TRE –6 dB to TRE +6 dB (1 dB interval)	TRE 0 dB
TUNER [TUNER] (page 50)	Naming preset stations [NAME IN]	For details, see “Naming preset stations” (page 39).	
	AM tuning scale selection <sup>c)</sup> [AM STEP]	For details, see “Changing the AM tuning scale” (page 38).	
AUDIO [AUDIO] (page 51)	Synchronizes audio with video output [A/V SYNC]	SYNC ON, SYNC OFF	SYNC OFF
	Digital broadcast language selection [DUAL]	MAIN/SUB, MAIN, SUB	MAIN
	Switching the audio input mode [IN MODE]	For details, see “Switching between digital and analog audio (INPUT MODE)” (page 46).	
	Pro Logic II Decoding mode <sup>d)</sup> [PLII DEC.]	AUTO, ON, OFF	AUTO
HDMI [HDMI] (page 51)	Control for HDMI [CTRL.HDMI]	CTRL ON, CTRL OFF	CTRL ON
	HDMI Signal Pass Through [PASS.THRU]	ON, AUTO, OFF	OFF
	Setting HDMI audio input [AUDIO.OUT]	AMP, TV+AMP	AMP



Menu [Display]	Parameters [Display]	Settings	Default setting
SYSTEM [SYSTEM] (page 52)	Brightness of the display panel [DIMMER]	DIM ON, DIM OFF	DIM OFF
	Auto standby mode [AUTO.STBY]	STBY ON, STBY OFF	STBY ON
	Naming inputs [NAME IN]	For details, see “Naming inputs” (page 32).	

- a) ■■■ represent a speaker channel.
- HT-M7 only: FL, FR, CNT, SL, SR, SBL, SBR, SW
  - HT-M3/HT-M5 only: FL, FR, CNT, SL, SR, SW
- b) HT-M7 only.
- c) Latin America, Argentina and Mexico models only.
- d) You can only select this parameter if the sound field is set to “MOVIE A” and surround speaker position is set to “REAR”.

## LEVEL menu

You can adjust the level and balance of each speaker manually.

### ■ T. TONE

Lets you adjust the speaker levels and balance while listening to the test tone from your seating position (page 30).

### ■ FRT BAL

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

### ■ CNT LVL, SL LVL, SR LVL, SBL LVL\*, SBR LVL\*, SW LVL

You can adjust each speaker's level (center, surround left/right, surround back left/right\*, subwoofer).

\* HT-M7 only.

### ■ D. RANGE

Lets you compress the dynamic range of the soundtrack. This may be useful when you want to watch movies at low volumes late at night. Dynamic range compression is possible with Dolby Digital sources only.

- COMP. MAX

The dynamic range is compressed dramatically.

- COMP. STD

The dynamic range is compressed as intended by the recording engineer.

- COMP. OFF

The dynamic range is not compressed.

### Tip

Dynamic range compressor lets you compress the dynamic range of the soundtrack based on the dynamic range information included in the Dolby Digital signal.

“COMP. STD” is the standard setting, and enacts light compression. Therefore, we recommend using the “COMP. MAX” setting. This greatly compresses the dynamic range and lets you view movies late at night at low volumes. Unlike analog limiters, the levels are predetermined and provide a very natural compression.

## SPEAKER menu

You can adjust the position and distance of the speakers connected to this receiver.

### ■ SUR SPK

Lets you select the surround speaker position according to the speaker configuration (page 30).

### ■ FL DIST., FR DIST., CNT DIST., SL DIST., SR DIST., SBL DIST.\*, SBR DIST.\*, SW DIST.

Lets you adjust the distance from your seating position to each speaker (front left/right, center, surround left/right, surround back left/right\*, subwoofer).

If both front speakers are not placed in equal distance from your seating position, set the distance to the closest speaker.

\* HT-M7 only.

## EQ menu

You can adjust the tonal quality (bass/treble level) of the front speakers.

### ■ BASS

### ■ TREBLE

## TUNER menu

You can name the preset stations.

### ■ NAME IN

Lets you set the name of preset stations. For details, see “Naming preset stations” (page 39).

### ■ AM STEP\*

Lets you change the AM STEP to either 9 kHz or 10 kHz. For details, see “Changing the AM tuning scale” (page 38).

\* Latin America, Argentina and Mexico models only.

## AUDIO menu

You can adjust settings for the audio to suit your preference.

### ■ A/V SYNC

Lets you delay the output of audio to minimize the time gap between audio output and visual display.

- **SYNC ON** (Delay time: 60 ms)  
The audio output is delayed so that the time gap between the audio output and visual display is minimized.
- **SYNC OFF** (Delay time: 0 ms)  
The audio output is not delayed.

### Notes

- This parameter is useful when you use a large LCD or plasma monitor or a projector.
- The delay time may vary depending on audio format, sound field and speaker distance settings.

### ■ DUAL

Lets you select the language you want to listen to during digital broadcast when available. This feature only functions for Dolby Digital sources.

- **MAIN/SUB**  
Sound of the main language will be output through the front left speaker and sound of the sub language will be output through the front right speaker simultaneously.
- **MAIN**  
Sound of the main language will be output.
- **SUB**  
Sound of the sub language will be output.

### ■ IN MODE

Lets you set the audio input mode of inputs. For details, see “Switching between digital and analog audio (INPUT MODE)” (page 46).

### ■ PLII DEC.

Lets you turn the Pro Logic II decoding mode on or off.

- **AUTO**  
Applies the Pro Logic II decoding mode automatically when receiving the Dolby Surround encoded signals.
- **ON**  
Applies the Pro Logic II decoding mode when receiving 2 channels signals.
- **OFF**  
Pro Logic II decoding mode is turned off.

### Note

This function works only in the following cases.  
– “MOVIE A” is selected.  
– Surround speaker position is set to “REAR”.

## HDMI menu

You can make the required settings for equipment connected to the HDMI jack.

### ■ CTRL.HDMI

Lets you turn the Control for HDMI function on or off. For details, see ““BRAVIA” Sync Features” (page 42).

### ■ PASS.THRU

Lets you output the HDMI signals to the TV even when the receiver is in standby mode.

- **ON**  
When the receiver is in the standby mode, the receiver continuously outputs HDMI signals from the receiver’s HDMI TV OUT jack.
- **AUTO**  
When the TV is turned on while the receiver is in the standby mode, the receiver outputs HDMI signals from the receiver’s HDMI TV OUT jack. Sony recommends this setting if you use a “BRAVIA” Sync compatible Sony TV. This setting saves power in the standby mode when compared with the “ON” setting.

- **OFF**

The receiver does not output HDMI signals when in the standby mode. Turn on the receiver to enjoy the connected equipment's source on the TV. This setting saves power in the standby mode when compared with the "ON" setting.

## Notes

- This parameter is not available when "CTRL.HDMI" is set to "CTRL OFF".
- When "AUTO" is selected, it may take a little more time for the image and sound to be output to the TV than when "ON" is selected.
- When the receiver is in standby mode, "A.STANDBY" appears on the display if "PASS.THROUGH" is set to "AUTO" or "ON". However, "A.STANDBY" will disappear when "PASS.THROUGH" is set to "AUTO" and no signals are detected.

## ■ AUDIO.OUT

Lets you set the HDMI audio output from the playback equipment connected to the receiver via an HDMI connection.

- **AMP**

The HDMI audio signals from the playback equipment are only output to the speakers connected to the receiver. Multi channel sound can be played back as it is.

- **TV+AMP**

The sound is output from TV's speaker and the speakers connected to the receiver.

## Notes

- The sound quality of the playback equipment depends on the TV's sound quality, such as the number of channels, and the sampling frequency, etc. If the TV has stereo speakers, the sound output from the receiver is also in stereo as that of the TV, even if you play back multi channel source.
- When you connect the receiver to an image display equipment (projector, etc.), sound may not be output from the receiver. In this case, select "AMP".

## SYSTEM menu

You can customize the settings of the receiver.

### ■ DIMMER

Lets you adjust the brightness of the display panel.

- **DIM ON**

The brightness of the display is reduced and the indicators lights off.

- **DIM OFF**

The brightness of the display and the indicators remain unchanged.

### ■ AUTO.STBY

Lets you set the receiver switch to standby mode automatically when you do not operate the receiver or when there is no signals input to the receiver.

- **STBY ON**

Switches to standby mode after approximately 30 minutes.

- **STBY OFF**

Does not switch to standby mode.

## Notes

- This function does not work when TUNER input is selected.
- If you use the Auto standby mode and the Sleep Timer at the same time, the Sleep Timer has priority.

### ■ NAME IN

Lets you set the name of inputs. For details, see "Naming inputs" (page 32).

# Precautions

## On safety

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

## On power sources

- Before operating the receiver, check that the operating voltage is identical with your local power supply.

The operating voltage is indicated on the nameplate on the back of the receiver.

- The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.
- If you are not going to use the receiver for a long time, be sure to disconnect the receiver from the wall outlet. To disconnect the AC power cord (mains lead), grasp the plug itself; never pull the cord.
- The AC power cord (mains lead) must be changed only at a qualified service shop.

## On heat buildup

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

## On placement

- Place the receiver in a location with adequate ventilation to prevent heat buildup and prolong the life of the receiver.
- Do not place the receiver near heat sources, or in a place subject to direct sunlight, excessive dust, or mechanical shock.

- Do not place anything on top of the cabinet that might block the ventilation holes and cause malfunctions.
- Do not place the receiver near equipment such as a TV, VCR, or tape deck. (If the receiver is being used in combination with a TV, VCR, or tape deck, and is placed too close to that equipment, noise may result, and picture quality may suffer. This is especially likely when using an indoor antenna (aerial). Therefore, we recommend using an outdoor antenna (aerial).)
- Use caution when placing the receiver or speakers on surfaces that have been specially treated (with wax, oil, polish, etc.) as staining or discoloration of the surface may result.

## On operation

Before connecting other equipment, be sure to turn off and unplug the receiver.

## If you encounter color irregularity on a nearby TV screen

The center speaker is magnetically shielded to allow it to be installed near a TV set. However, color irregularities may still be observed on certain types of TV sets. As the front speakers, surround/surround back speakers and the subwoofers are not magnetically shielded, we recommend that you place them slightly further away from a TV set (page 15).

## If color irregularity is observed...

Turn off the TV set, then turn it on again after 15 to 30 minutes.

## If color irregularity is observed again...

Place the speakers further away from the TV set.

## On cleaning

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

If you have any questions or problems concerning your receiver, please consult your nearest Sony dealer.

## Troubleshooting

If you experience any of the following difficulties while using the receiver, use this troubleshooting guide to help you remedy the problem. Should any problem persist, consult your nearest Sony dealer. Note that if service personnel changes some parts during repair, these parts may be retained.

### Power

#### **The receiver is turned off automatically.**

- “AUTO.STBY” is set to “STBY ON” (page 52).
- The Sleep Timer function is working (page 13).

### Image

#### **No image appears on the TV.**

- Select the appropriate input using the input buttons.
- Set your TV to the appropriate input mode.
- Move your audio equipment away from the TV.
- Make sure that cables are correctly and securely connected to equipment.
- Depending on the playback equipment, you may need to set up the equipment. Refer to the operating instructions supplied with each equipment.
- Be sure to use a High Speed HDMI cable when you view images or listen to sound, especially for the 1080p, Deep Color (Deep Colour) or 3D transmission.

#### **No 3D image appears on the TV.**

- Depending on the TV or the video equipment, 3D images may not be displayed.

---

**When the receiver is in standby mode, there is no image output from the TV.**

- When the receiver enters into standby mode, image are from the last HDMI equipment selection before you turned off the receiver. If you are enjoying other equipment, play the equipment and perform the One-Touch Play operation, or turn on the receiver to select the HDMI equipment you want to enjoy.
- Make sure “PASS.THRU” is set to “ON” in the HDMI menu if you connect equipment not compatible with the “BRAVIA” Sync to the receiver (page 51).

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**Recording cannot be carried out.**

- Check that the equipment are connected correctly.
- Select the source equipment using the input buttons (page 31).
- Video input signals via HDMI IN and COMPONENT VIDEO IN (HT-M7/ HT-M5 only) jacks cannot be recorded.
- Copyright protection to prevent recording is contained in the sources. In this case, you may not be able to record from the sources.

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## Sound

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**There is no sound, no matter which equipment is selected, or only a very low-level sound is heard.**

- Check that all connecting cords are inserted to their input/output jacks for the respective jacks of the receiver, speakers and the equipment.
- Check that both the receiver and all equipment are turned on.
- Check that MASTER VOLUME is not set to “VOL MIN”.
- Press MUTING on the remote control to cancel the muting function.

- Try pressing the input button on the remote control or turning INPUT SELECTOR on the receiver to select the equipment of your choice (page 31).
- When you want to listen to the sound from the TV speaker, set the “AUDIO.OUT” to “TV+AMP” in the HDMI menu (page 52). If you cannot play back multi channel audio source, set to “AMP”. However, the sound will not output through the TV speaker.
- Sound may be interrupted when the sampling frequency, the number of channels or audio format of audio output signals from the playback equipment is switched.

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**There is severe hum or noise.**

- Check that the speakers and equipment are connected securely.
- Check that the connecting cords are away from a transformer or motor, and at least 3 meters (10 feet) away from a TV set or fluorescent light.
- Move your audio equipment away from the TV.
- The plugs and jacks are dirty. Wipe them with a cloth slightly moistened with alcohol.

---

**There is no sound, or only a very low-level sound is heard from specific speakers.**

- Check that all the cords are fully inserted into the jacks on both the receiver and the equipment.
- Make sure you have connected to both the L and R jacks of an analog equipment, analog equipment requires both L and R jack connections. Use an audio cord (not supplied).
- Adjust the speaker level (page 30).
- Check that the speaker cords (supplied) are connected correctly and securely (page 17).

- Check that the subwoofer is connected correctly and securely.

---

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

- Check that the equipment is connected correctly to the audio input jacks for that equipment.
- Check that the cord(s) used for the connection is (are) fully inserted into the jacks on both the receiver and the equipment.
- Check the INPUT MODE (page 46).
- Check the setting of “AUDIO.OUT” in the HDMI menu (page 52).
- Check that the equipment is connected correctly to the HDMI jack for that equipment.
- You cannot listen to the Super Audio CD by connecting HDMI.
- Depending on the playback equipment, you may need to set up the HDMI setting of the equipment. Refer to the operating instructions supplied with each equipment.
- Be sure to use a High Speed HDMI cable when you view images or listen to sound, especially for the 1080p, Deep Color (Deep Colour) or 3D transmission.
- Audio signals (format, sampling frequency, bit length, etc.) transmitted from an HDMI jack may be suppressed by the connected equipment. Check the setup of the connected equipment if the image is poor or the sound does not come out of the equipment connected via the HDMI cable.
- When the connected equipment is not compatible with copyright protection technology (HDCP), the image and/or the sound from the HDMI TV OUT jack may be distorted or may not be output. If this is the case, check the specification of the connected equipment.
- The image resolution of the playback equipment may need to be at certain settings before you can enjoy Multi Channel Linear PCM. Refer to the operating instructions of the playback equipment.
- Make sure the TV is compatible with the System Audio Control function.
- If the TV does not have System Audio Control function, set the “AUDIO.OUT” settings in the HDMI menu to
  - “TV+AMP” if you want to listen to the sound from the TV speaker and receiver.
  - “AMP” if you want to listen to the sound from the receiver.
- When you connect the receiver to a video equipment (projector, etc.), sound may not be output from the receiver. In this case, set the “AUDIO.OUT” to “AMP” in the HDMI menu (page 52).
- If you cannot listen to the sound of the equipment connected to the receiver while a TV is selected on the receiver.
  - Be sure to change the input of the receiver to HDMI when you want to watch a program on the equipment connected via HDMI connection to the receiver.
  - Change the TV channel when you want to watch a TV broadcast.
  - Be sure to select the correct equipment or input you want when you watch a program from the equipment connected to the TV. Refer to the operating instructions of the TV on this operation.
- When using the Control for HDMI function, you cannot control the connected equipment using TV’s remote control.
  - Depending on the connected equipment and TV, you may need to set up the HDMI setting of the equipment and TV. Refer to the operating instructions supplied with each equipment and TV.
  - Change the input of the receiver to the HDMI input connected to the equipment.



---

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

- Check that the speakers and equipment are connected correctly and securely.
- Adjust the level parameters using the LEVEL menu.

---

### Dolby Digital or DTS multi channel sound is not reproduced.

- Check that the DVD, etc. you are playing is recorded in Dolby Digital or DTS format.
- When connecting the DVD player, etc., to the digital input jacks of this receiver, make sure the digital audio output setting of the connected equipment is available.
- Set “AUDIO.OUT” to “AMP” in the HDMI menu (page 52).
- You can enjoy Multi Channel Linear PCM only with an HDMI connection.

---

### The surround effect cannot be obtained.

- Make sure the sound field is not set to “MOVIE A” (page 40).

---

### Recording cannot be carried out.

- Check that the equipment are connected correctly.
- Select the source equipment using the input buttons (page 31).
- Audio input signals via HDMI IN and DIGITAL IN jacks cannot be recorded.
- Copyright protection to prevent recording is contained in the sources. In this case, you may not be able to record from the sources.

---

### When the receiver is in standby mode, there is no sound output from the TV.

- When the receiver enters into standby mode, sound are from the last HDMI equipment selection before you turned off the receiver. If you are enjoying other equipment, play the equipment and perform the One-Touch Play operation, or turn on the receiver to select the HDMI equipment you want to enjoy.

- Make sure “PASS.THROUGH” is set to “ON” in the HDMI menu if you connect equipment not compatible with the “BRAVIA” Sync to the receiver (page 51).

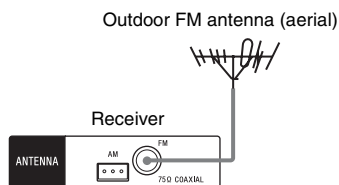
---

## Tuner

---

### The FM reception is poor.

- Use a 75-ohm coaxial cable (not supplied) to connect the receiver to an outdoor FM antenna (aerial) as shown below.



---

### Radio stations cannot be tuned in.

- Check that the antennas (aerials) are connected securely. Adjust the antennas (aerials) and connect an external antenna (aerial), if necessary.
- The signal strength of the stations is too weak with automatic tuning. Use direct tuning.
- Make sure you set the tuning scale correctly (when tuning in AM stations with direct tuning) (page 37).
- No stations have been preset or the preset stations have been cleared (when tuning by scanning preset stations is used). Preset the stations (page 38).
- Press DISPLAY repeatedly so that the frequency appears on the display panel.

## USB device

---

### Are you using a supported USB device?

- If you connect an unsupported USB device, the following problems may occur. See “Compatible USB devices” (page 33) for the supported device types.
  - The USB device is not recognized.
  - File or folder names are not displayed on this receiver.
  - Playback is not possible.
  - The sound skips.
  - There is noise.
  - A distorted sound is output.

---

### There is noise, skipping, or distorted sound.

- Turn off the receiver and reconnect the USB device, then turn on the receiver.
- The music data itself contains noise, or the sound is distorted.

---

### The USB device is not recognized.

- Turn off the receiver, then disconnect the USB device. Turn on the receiver again and reconnect the USB device.
- Connect the supported USB device (page 33).
- The USB device does not work properly. Refer to the USB device operating instruction on how to deal with this problem.

---

### Playback does not start.

- Turn off the receiver and reconnect the USB device, then turn on the receiver.
- Connect the supported USB device (page 33).
- Press ►|| to start playback.

---

### The USB device cannot be connected into the (USB) port.

- The USB device is being connected upside down. Connect the USB device in the correct orientation.

---

### Erroneous display.

- The data stored in the USB device may have been corrupted.
- The character codes that can be displayed by this receiver are as follows:
  - Upper cases (A to Z)
  - Numbers (0 to 9)
  - Symbols (= < > \* + , - . / [ \ ] \_ )Other characters may not be displayed correctly.

---

### “READING” is displayed for an extended time, or it takes a long time before playback starts.

- The reading process can take a long time in the following cases.
  - There are many folders or files on the USB device.
  - The file structure is extremely complex.
  - The memory capacity is excessive.
  - The internal memory is fragmented.Thus, we recommend following these guidelines.
  - Total folders on USB device: 100 or less (including “ROOT” folder)
  - Total files per folder: 100 or less.

---

### Audio file cannot be played back.

- MP3 files in MP3 PRO format cannot be played back.
- The audio file is a multiple track audio file.
- Some AAC files may not be played back correctly.
- WMA files in Windows Media Audio Lossless and Professional format cannot be played back.
- USB device formatted with file systems other than FAT16 or FAT32 are unsupported.\*
- If you use partitioned USB device, only audio files on the first partition can be played back.
- Playback is possible up to 8 levels (including “ROOT” folder).
- The number of folders has exceeded 100 (including “ROOT” folder).
- The number of files in a folder has exceeded 100.

- Files that are encrypted or protected by passwords, etc. cannot be played back.
- \* This receiver supports FAT16 and FAT32, but some USB device may not support all of these FAT. For details, refer to the operating instruction of each USB device or contact the manufacturer.

## “BRAVIA” Sync (Control for HDMI)

### The Control for HDMI function does not work.

- Check the HDMI connection (page 24).
- Make sure “CTRL.HDMI” is set to “CTRL ON” in the HDMI menu.
- Make sure the connected equipment is compatible with the Control for HDMI function.
- Check the Control for HDMI settings on the connected equipment. Refer to the operating instructions of the connected equipment.
- If you unplug the HDMI cable or change the connection, repeat the procedures of “Preparing for the “BRAVIA” Sync” (page 43).
- When “CTRL.HDMI” is set to “CTRL OFF”, the “BRAVIA” Sync does not work properly, even if a equipment is connected to the HDMI IN jack.
- The types and the number of equipment which can be controlled by the “BRAVIA” Sync are restricted in the HDMI CEC standard as follows.
  - Recording equipment (Blu-ray Disc recorder, DVD recorder, etc.): up to 3 equipment
  - Playback equipment (Blu-ray Disc player, DVD player, etc.): up to 3 equipment
  - Tuner-related equipment: up to 4 equipment
  - AV receiver (audio system): up to 1 equipment

## Remote control

### The remote control does not function.

- Point the remote control at the remote control sensor on the receiver (page 6).
- Remove any obstacles in the path between the remote control and the receiver.
- Replace all the batteries in the remote control with new ones, if they are weak.
- Make sure you select the correct input on the remote control.


## Error messages

If there is a malfunction, a message appears on the display panel. You can check the condition of the system by the message. If any problem persists, consult your nearest Sony dealer. If an error message appears while you use a USB device, see “USB message list” (page 35).

### PROTECT

Irregular current is output to the speakers, or the receiver is covered and ventilation holes are blocked. The receiver will automatically turn off after a few seconds. Remove the object covering the upper panel of the receiver, check the speaker connection, and turn on the power again.

### USB FAIL

An over current from the  (USB) port was detected. The receiver will automatically turn off after a few seconds. Check the USB device, then unplug it and turn on the power again.

## Clearing the memory

### Reference sections

To clear	See
All memorized settings	page 29
Customized sound fields	page 42

# Specifications

## Amplifier section

### Power Output

#### •STR-KM7

Argentina model

Stereo mode output (rated) (6 ohms, 1 kHz, THD 1%)

120 W + 120 W<sup>1)</sup>

Surround mode output<sup>2)</sup> (reference) (6 ohms, 1 kHz, THD 30%)

RMS output

FRONT: 255 W per channel<sup>1)</sup>

CENTER: 255 W<sup>1)</sup>

SURROUND: 255 W per channel<sup>1)</sup>

SURROUND BACK: 255 W per channel<sup>1)</sup>

Surround mode<sup>2)</sup> (reference) (4 ohms, 100 Hz, THD 30%)

SUBWOOFER: 280 W per channel<sup>1)</sup>

Other models

Stereo mode output (rated) (6 ohms, 1 kHz, THD 1%)

120 W + 120 W<sup>1)</sup>

Surround mode output<sup>2)</sup> (reference) (6 ohms, 1 kHz, THD 10%)

RMS output

FRONT: 216 W per channel<sup>1)</sup>

CENTER: 216 W<sup>1)</sup>

SURROUND: 216 W per channel<sup>1)</sup>

SURROUND BACK: 216 W per channel<sup>1)</sup>

Surround mode<sup>2)</sup> (reference) (4 ohms, 100 Hz, THD 10%)

SUBWOOFER: 250 W per channel<sup>1)</sup>

<sup>1)</sup>Measured under the following conditions:

Area	Power requirements
South Africa, Singapore	240 V AC, 50 Hz
Middle East	127 V AC, 60 Hz
Australia, Argentina	230 V AC, 50 Hz

<sup>2)</sup>Reference power output for front, center, surround, surround back speakers and subwoofers. Depending on the sound field settings and the source, there may be no sound output.

#### •STR-KM5

Latin America and Argentina models

Stereo mode output (rated) (6 ohms, 1 kHz, THD 1%)

120 W + 120 W<sup>3)</sup>

Surround mode output<sup>4)</sup> (reference) (6 ohms, 1 kHz, THD 30%)

RMS output

FRONT: 255 W per channel<sup>3)</sup>

CENTER: 255 W<sup>3)</sup>

SURROUND: 255 W per channel<sup>3)</sup>

Surround mode<sup>4)</sup> (reference) (4 ohms, 100 Hz, THD 30%)

SUBWOOFER: 280 W per channel<sup>3)</sup>

Other models

Stereo mode output (rated) (6 ohms, 1 kHz, THD 1%)

120 W + 120 W<sup>3)</sup>

Surround mode output<sup>4)</sup> (reference) (6 ohms, 1 kHz, THD 10%)

RMS output

FRONT: 216 W per channel<sup>3)</sup>

CENTER: 216 W<sup>3)</sup>

SURROUND: 216 W per channel<sup>3)</sup>

Surround mode<sup>4)</sup> (reference) (4 ohms, 100 Hz, THD 10%)

SUBWOOFER: 250 W per channel<sup>3)</sup>

<sup>3)</sup>Measured under the following conditions:

Area	Power requirements
South Africa, Latin America, India	240 V AC, 50 Hz
Middle East	127 V AC, 60 Hz
Argentina, Thailand	230 V AC, 50 Hz

<sup>4)</sup>Reference power output for front, center, surround speakers and subwoofers. Depending on the sound field settings and the source, there may be no sound output.

•STR-KM3

Latin America and Argentina models  
Stereo mode output (rated) (6 ohms, 1 kHz,  
THD 1%)

104 W + 104 W<sup>5)</sup>

Surround mode output<sup>6)</sup> (reference) (6 ohms,  
1 kHz, THD 30%)

RMS output

FRONT: 220 W per channel<sup>5)</sup>

CENTER: 220 W<sup>5)</sup>

SURROUND: 220 W per channel<sup>5)</sup>

Surround mode<sup>6)</sup> (reference) (6 ohms, 100 Hz,  
THD 30%)

SUBWOOFER: 220 W per channel<sup>5)</sup>

Other models

Stereo mode output (rated) (6 ohms, 1 kHz,  
THD 1%)

104 W + 104 W<sup>5)</sup>

Surround mode output<sup>6)</sup> (reference) (6 ohms,  
1 kHz, THD 10%)

RMS output

FRONT: 170 W per channel<sup>5)</sup>

CENTER: 170 W<sup>5)</sup>

SURROUND: 170 W per channel<sup>5)</sup>

Surround mode<sup>6)</sup> (reference) (6 ohms, 100 Hz,  
THD 10%)

SUBWOOFER: 175 W per channel<sup>5)</sup>

<sup>5)</sup>Measured under the following conditions:

Area	Power requirements
South Africa, Latin America, Singapore	240 V AC, 50 Hz
Mexico	127 V AC, 60 Hz
Argentina, Thailand, Australia, Europe	230 V AC, 50 Hz
Middle East	127 V AC, 60 Hz

<sup>6)</sup>Reference power output for front, center, surround speakers and subwoofers. Depending on the sound field settings and the source, there may be no sound output.

Inputs

Analog                      Sensitivity: 800 mV/  
                                    50 kilohms  
  
Digital (Coaxial)       Impedance: 75 ohms

Outputs (Analog)

AUDIO OUT                Voltage: 800 mV/  
                                    1 kilohm

Tone

Gain levels                ±6 dB, 1 dB step

Reproduction frequency range:

28 Hz – 20,000 Hz

FM tuner section

Tuning range              87.5 MHz – 108.0 MHz

Antenna (aerial)        FM wire antenna (aerial)

Antenna (aerial) terminals  
75 ohms, unbalanced

AM tuner section

Tuning range

Area	Tuning scale	
	10 kHz step	9 kHz step
Latin America, Argentina, Mexico	530 kHz – 1,710 kHz	531 kHz – 1,710 kHz
Middle East, South Africa, Australia, Thailand, India, Singapore, Europe	–	531 kHz – 1,602 kHz

Antenna (aerial)        Loop antenna (aerial)

Video section

(HT-M7/HT-M5 only)

Inputs/Outputs

Video:                      1 Vp-p, 75 ohms

COMPONENT VIDEO:

Y: 1 Vp-p, 75 ohms

PB: 0.7 Vp-p, 75 ohms

PR: 0.7 Vp-p, 75 ohms

80 MHz HD Pass Through

**USB section**

(Except for South Africa and Argentina models)

Supported bit rate\* MP3 (MPEG 1 Audio Layer-3):  
32 kbps – 320 kbps, VBR  
WMA: 48 kbps – 192 kbps  
AAC: 48 kbps – 320 kbps

Sampling frequencies\* MP3 (MPEG 1 Audio Layer-3):  
32 kHz/44.1 kHz/48 kHz  
WMA: 44.1 kHz  
AAC: 44.1 kHz

\* Compatibility with all encoding/writing software, recording devices and recording media cannot be guaranteed.

Transfer speed Full-speed  
Supported USB device Mass Storage Class  
Maximum current 500 mA

**General**

Power requirements

Area	Power requirements
South Africa, Thailand, Singapore	230 V AC – 240 V AC, 50/60 Hz
Mexico	127 V AC, 60 Hz
Latin America	120/220/240 V AC, 50/60 Hz
Argentina	220 V AC – 230 V AC, 50/60 Hz
Middle East	120 V AC – 127/220/230 V AC – 240 V AC, 50/60 Hz
Australia	230 V AC, 50 Hz
India	220 V AC – 240 V AC, 50/60 Hz
Europe	230 V AC, 50/60 Hz

Power consumption 185 W (STR-KM7)  
175 W (STR-KM5/  
STR-KM3)

Power consumption (during standby mode)  
0.3 W (When  
“CTRL.HDMI” is set to  
“CTRL OFF”)

Dimensions (width/height/depth) (Approx.)  
430 mm × 178 mm ×  
336 mm  
including projecting parts  
and controls  
Mass (Approx.) 10.2 kg (STR-KM7/  
STR-KM5)  
8.1 kg (STR-KM3)

**Speaker section**

**•Front speaker for HT-M7/HT-M5 (SS-MSP7M)**

Speaker system 2-way, 3-driver, Bass reflex  
Speaker unit  
Woofer: 200 mm, cone type × 2  
Tweeter: 25 mm, horn type  
Rated Impedance 6 ohms  
Dimensions (width/height/depth) (Approx.)  
280 mm × 925 mm ×  
265 mm  
(with foot)  
Mass (Approx.) 15.0 kg

**•Front speaker for HT-M3/Surround speaker for HT-M7 (SS-MSP3M)**

Speaker system 2-way, 2-driver, Bass reflex  
Speaker unit  
Woofer: 160 mm, cone type  
Tweeter: 25 mm, horn type  
Rated Impedance 6 ohms  
Dimensions (width/height/depth) (Approx.)  
280 mm × 885 mm ×  
265 mm  
(with foot)  
Mass (Approx.) 13.0 kg

• **Center speaker for HT-M7/HT-M5/HT-M3 (SS-CNP7M)**

Speaker system	Full range, Bass reflex, Magnetically shielded
Speaker unit	
Woofer:	100 mm, cone type
Rated Impedance	6 ohms
Dimensions (width/height/depth) (Approx.)	430 mm × 182 mm × 178 mm (with foot)
Mass (Approx.)	3.3 kg

• **Surround back speaker for HT-M7/  
Surround speaker for HT-M5/HT-M3 (SS-SRP7M)**

Speaker system	Full range, Closed box
Speaker unit	
Woofer:	100 mm, cone type
Rated Impedance	6 ohms
Dimensions (width/height/depth) (Approx.)	280 mm × 235 mm × 162 mm (with foot)
Mass (Approx.)	2.4 kg

• **Subwoofer for HT-M7/HT-M5 (SS-WP7M)**

Speaker system	Bass reflex
Speaker unit	250 mm, cone type
Rated Impedance	4 ohms
Dimensions (width/height/depth) (Approx.)	340 mm × 465 mm × 295 mm (with foot)
Mass (Approx.)	8.5 kg

• **Subwoofer for HT-M3 (SS-WP3M)**

Speaker system	Bass reflex
Speaker unit	200 mm, cone type
Rated Impedance	6 ohms
Dimensions (width/height/depth) (Approx.)	280 mm × 405 mm × 290 mm (with foot)
Mass (Approx.)	6.7 kg

Design and specifications are subject to change without notice.

# Index

## Numerics

5 channel 15

7 channel 15

## B

Blu-ray Disc player

connecting 24, 25, 26

## C

Cable TV tuner

connecting 25, 26

Clear

memory 29

## D

DVD player

connecting 24, 25, 26

DVD recorder

connecting 27

## G

GAMING 40

## H

HDMI

connecting 24

## I

Initial setup 29

INPUT MODE 46

## M

Menu

AUDIO 51

EQ 50

HDMI 51

LEVEL 50

SPEAKER 50

SYSTEM 52

TUNER 50

Message

Error 59

USB 35

MOVIE A 40

MOVIE B 40

M-TURBO 6, 13

MUSIC 40

Muting 32

## N

Naming 32, 39

## O

One-Touch Play 44

## P

PlayStation 3

connecting 24, 25, 26

Portable audio

connecting 27

## R

Recording 36

Remote control 12

## S

Satellite tuner

connecting 24, 25, 26

Scene Select 45

Sleep Timer 13

Sound fields

resetting 42

selecting 40

Speakers

connecting 17

installing 15

Super Audio CD player

connecting 27

System Audio Control 44

System Power-Off 45

## T

TEST TONE 30

Tuner

connecting 28

Tuning

automatically 37

directly 37

to preset stations 38

TV

connecting 21

## U

USB device

connecting 28

playing 33

## V

VCR

connecting 27

