



# HOME THEATRE RACK SYSTEM

USER'S MANUAL  
**HAV-R400G**  
**HAV-R500G**

HAV-R400G



HAV-R500G



- To prevent damage or injury, be sure to read and understand these User's Manual before assembling or using your IGO Audio HOME THEATRE RACK SYSTEM.
- Please keep these instructions handy for future reference.

# Important Safety Instructions



**WARNING : SHOCK HAZARD - DO NOT OPEN.**  
**AVIS : RISQUE DE CHOC ÉLECTRIQUE - NE PAS OUVRIR.**

THIS CLASS B DIGITAL APPARATUS COMPLIES WITH CANADIAN ICES-003. CET APPAREIL NUMÉRIQUE DE LA CLASSE B EST CONFORME À LA NORME NMB-003 DU CANADA.

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS;  
(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND  
(2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



## FCC Information for use

The following FCC statement applies only to the version of this model manufactured for sale in the U.S.A. Other versions may not comply with FCC technical regulation.

### CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

### NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Change the direction or location of the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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Thank you for purchasing an IGO Audio HOME THEATRE RACK SYSTEM.

## Explanation of marks used in these instructions

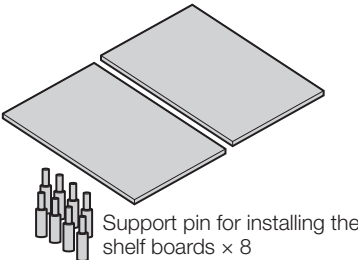
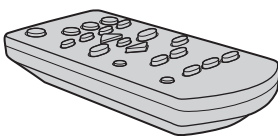
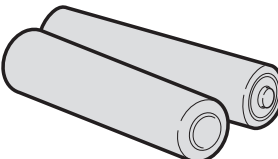

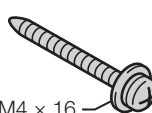
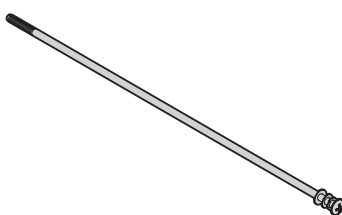
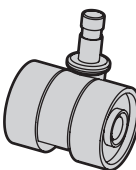
- INFO.** Describes additional explanations on functions, references and restrictions.
- WORD** Explains the terms used (some terms are used for a different meaning in certain fields).
- 19** Indicates the page number which contains the relevant information.
- NOTE** Describes notes on operation.
- CAUTION** Describes operating precautions.

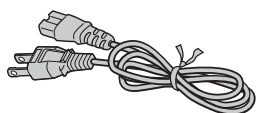



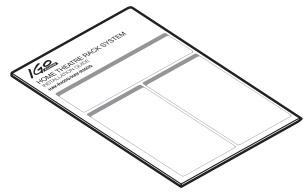
### INFO.

- These operating instructions are common between HAV-R400G and HAV-R500G. Illustrations used in these instructions are based on HAV-R400G. Visual appearance of HAV-R500G is slightly different from the illustrations in these instructions.

# Supplied Accessories

- The following accessories are supplied with your IGO Audio HOME THEATRE RACK SYSTEM. Please make sure that these accessories are included in the package.
- If you wish to use an HDMI cable or an optical cable other than those supplied, purchase a commercially-available cable suitable for the location, jack type and usage environment of the unit.

Accessory	Quantity
Shelf board  Support pin for installing the shelf boards × 8	2
Remote control (IRT-S500) 	1
AAA R03 batteries 	2
Caster tray 	<b>HAV-R400G</b> 2
	<b>HAV-R500G</b> 4
Toppole-prevention screw For securing the TV to the stand to prevent the TV from toppling  M4 × 16	1
Long bolt 	3
Caster 	<b>HAV-R400G</b> 5
	<b>HAV-R500G</b> 8

Accessory	Quantity
Power cord  <b>CAUTION</b> • Do not use any power cord other than the one supplied with this unit. Do not use this power cord for any device other than this unit.	1
HDMI cable 	1
Optical cable 	1
User's Manual 	1
Installation Guide 	1



**NOTE**

- This package also contains the parts you need to assemble this unit.  
 Please refer to the "Installation Guide" (supplied) for details.

# Safety Precautions

Important precautions are provided on the product and in these operating instructions to prevent potential personal injury to users and other people as well as damage to property, and to ensure the safe and proper use of the product. Understand the indications, marks and symbols fully before reading the rest of the instructions. Observe the precautions.

## Explanation of Indications




Indication	Meaning
 <b>WARNING</b>	Indicates improper handling or operation could result in death or serious injury* <sup>1</sup> .
 <b>CAUTION</b>	Indicates improper handling or operation could result in minor injury* <sup>2</sup> or damage* <sup>3</sup> to property.

\*1: Serious injury refers to loss of sight, injuries, burns (high- and low-temperature), electric shock, broken bones and poisoning, etc. that cause after-effects or require hospitalization or prolonged outpatient treatment.

\*2: Minor injury refers to injuries, burns and electric shock that require no hospitalization or prolonged outpatient treatment.

\*3: Damage to property refers to extended damage to houses, buildings, furniture, livestock, pets and others.

## Explanation of Symbols

Symbol	Meaning
 Prohibition	Indicates prohibition (an action that is not allowed). What is prohibited will be described in or near the symbol in either text or picture form.
 Instruction	Indicates an instruction that must be followed (a compulsory action). Detailed instructions will be described in or near the symbol in either text or picture form.
 Disconnect	Indicates disconnection.

# WARNING

## On abnormal operation and breakdown

### ■ If the unit emits smoke or an unusual smell, disconnect the power plug from the wall outlet immediately.

Using the unit under such conditions may result in fire or electric shock.  
Make sure that the unit no longer emits the smoke and then contact your dealer.



### ■ If the unit produces no sound, disconnect the power plug from the wall outlet immediately.

Using the unit under such a condition may result in fire.  
Contact your dealer for inspection.



### ■ If water or other foreign objects enter the unit, disconnect the power plug from the wall outlet immediately.

Using the unit under such conditions may result in fire or electric shock.  
Contact your dealer for inspection.



### ■ If the cabinet is damaged, disconnect the power plug from the wall outlet immediately.

Using the unit under such a condition may result in fire or electric shock.  
Handling the unit with damaged cabinet may cause injury.  
Contact your dealer for inspection or repair.



### ■ If the power cord or plug is damaged or becomes hot, press the POWER button on the unit to turn it off. Make sure that the power plug is cooled down and then disconnect from the wall outlet.

Using the unit under such conditions may result in fire or electric shock.  
If the power cord or plug is damaged, contact your dealer for replacement.



## On installation

■ **Install this unit where the power plug is easily accessible in case of unforeseen problems or breakdown or when you are not going to use the unit for a long time.**



■ **Do not install this unit in a place subject to water splashes such as the bathroom or outdoors. This may cause fire or electric shock.**



■ **Do not install this unit in an uneven location such as an inclined surface.**



The TV may fall and cause injury.  
Install the unit on a level, stable surface.

■ **Do not install this unit in a location subject to vibration.**



The unit may move or fall, resulting in injury.

■ **Fully insert the power plug into an AC120V wall outlet.**



- Use of any outlet other than AC120V may result in fire or electric shock.
- Improper plug connections may cause the unit to overheat and result in fire.
- Avoid using a damaged power plug or a loose wall outlet.

■ **Do not place any objects or pets on the unit.**



- Metals, liquids, cosmetics and pets may cause fire or electric shock if they enter the unit.
- A heavy object placed on the unit may cause injury if it falls.

■ **If the installed TV is wider than this unit, be careful not to allow any protruding portion of the TV to come into contact with other objects.**



- The TV may fall or be damaged, resulting in injury.

## On operation

■ **Do not repair, modify or disassemble the unit.**



High-voltage components inside the unit may cause electric shock or fire.  
Contact your dealer for internal inspection, adjustment or repair.

■ **Do not:**



- **damage, modify (e.g. use an extension), heat (place close to any heating appliance) the power cord or plug;**
- **pull, pinch or place heavy objects on the power cord or plug; or**
- **forcibly bend, twist or bundle the power cord or plug.**

Doing so may cause fire or electric shock.

■ **Do not put foreign objects into the unit.**



If metals or flammable objects such as papers enter the unit from the ventilation hole, fire or electric shock may result.

■ **Do not touch the power cord of the unit or the cables/cords of the components connected to this unit during a lightning storm.**



Doing so may cause electric shock.

## On cleaning

■ **Disconnect and inspect the power plug occasionally. Clean the dirt and dust accumulated on the blades and the surface on which the blades are installed.**



Failure to observe this warning may cause the insulation to deteriorate, resulting in fire.

# CAUTION

## On installation

### ■ Do not install this unit in a place subject to high temperature.

Installing the unit in a place subject to high temperature, such as a location near a heater may cause fire. It may also deform or damage the cabinet, resulting in electric shock.



### ■ Do not install this unit in a place subject to humidity, oil mist or high levels of dust.

Installing the unit near a humidifier or cooking stove or in a dusty place may cause fire or electric shock.



### ■ If no measure is taken to prevent the TV from falling or toppling, there may be a high risk of injury.

Refer to  15 on preventing the TV from falling or toppling.



### ■ Do not block the ventilation holes.


Blocked ventilation holes may cause heat build-up and result in fire.

- The gap created around the amplifier is there to dissipate its heat emissions. Do not place objects on the amplifier or block the gap.
- Do not push the unit against the wall. (Allow a gap of approximately 4 inches between the unit and the wall.)
- Do not push the unit into a place with poor ventilation, such as a closet.
- Do not place the unit with its front side facing up, on its side or upside down.



### ■ Do not place any equipment exceeding the specified maximum weight on the top, shelf or bottom board of the unit.

Prolonged use of the unit with overweight objects placed on it may cause injury or damage to the unit.

- For both HAV-R400G and HAV-R500G, the weight limits for the objects to be placed on each board. Refer to Specifications  34.
- Do not place any objects other than a TV on the top board.



### ■ To move or carry this unit:

- **When moving the unit, disconnect the unit's power plug, and any cables and wires connected to the unit and topple-prevention device.**

Moving the unit without disconnecting these components may cause fire or electric shock from a damaged power cord or injury due the TV toppling from the top of the unit.

- **Handle with care to avoid impact.**

Failure to observe this caution could result in damage to the unit and injury.

- **Do not put your foot in the gap between the bottom board and floor surface.**

Failure to observe this caution could result in injury.

- **Remove TV from unit before moving.**

TV could topple and cause serious injury or damage.



### ■ If the unit becomes unstable, retighten the three screws used during installation.

For details, refer to "Installation Guide" (supplied).

If you keep using the unit when the screws are loose, the TV may topple over and cause injury.



### ■ Do not lubricate the casters.

Lubrication may crack or damage the casters, resulting in damage or injury due to a fallen unit or TV.



## On operation

### ■ When installing a TV:

- **Take measures to prevent falling.**

Failure to observe this caution may cause the TV to fall, resulting in injury or damage. Be extra careful with children.

Refer to  15 on preventing the TV from falling or toppling.



■ **Do not exceed the maximum rated output power when using a wall outlet or wiring device.**



Avoid sharing a single outlet with an unreasonable number of other devices.  
Doing so may cause fire or electric shock.

■ **Do not pull the power cord to disconnect the power plug.**



Pulling the power cord to disconnect the power plug from the wall outlet may cause damage to the power cord or plug, resulting in fire or electrical shock.  
Grasp the power plug to disconnect it.

■ **Avoid plugging or unplugging the power plug with wet hands.**



Doing so may cause electric shock.

■ **Do not hang or climb on this unit or TV; and do not use this unit as a step ladder.**



Doing so may damage the unit or TV or cause it to fall or topple, resulting in injury.  
Be extra careful with children.

■ **If you are not going to use the unit for a long time (e.g. if you are travelling) be sure to disconnect the power plug from the wall outlet for safety.**



If the power plug is not disconnected, fire may result in the event of breakdown.  
The unit is not completely disconnected from the power source even if the TV monitor is turned off by pressing the POWER button on the TV or remote control.  
To completely disconnect this unit from the power source, disconnect the power plug from the wall outlet.

■ **Avoid prolonged listening to the audio at high volume levels.**



Listening to sound at such a high volume that it irritates ears may damage your hearing.

■ **Do not allow rubber or plastic/vinyl products to come into prolonged contact with the unit.**



This may cause deterioration or damage to the surface finishing.

■ **Do not place objects that are easily influenced by magnetism, such as clocks, on this unit.**



This may cause these objects to stop working.

■ **Do not hit or apply impact to this unit.**



The top glass panel may break and cause injury.  
It may also cause damage to the speakers.

■ **Do not place hot objects such as a heated pan or kettle on the unit.**



The top glass plate may break and cause injury or damage to the unit.

■ **Batteries used for the remote control:**



- **Do not use any batteries other than those specified.**
- **Follow the polarity markings inside the compartment.**
- **Do not charge, heat, disassemble or short-circuit the batteries.**
- **Do not expose the batteries to excessive heat such as fire or direct sunlight.**
- **Do not leave expired or drained batteries inside the remote control.**
- **Do not use different types of batteries or a new battery with an old one at the same time.**

Failure to observe these cautions may result in burns or injury due to battery leakage or explosion.  
Leaked battery fluid may harm your eyes or skin. If it gets in contact with your eyes or skin, flush the affected area with clean water and seek medical attention immediately.  
If battery fluid comes in contact with clothing, flush the affected area with clean water immediately.  
If battery fluid has spilled on the apparatus, wipe it off avoiding direct contact.





### **WARNING**

#### **■ Disconnect the power plug from the wall outlet before cleaning the unit.**

Failure to observe this caution may cause electric shock.

#### **■ Do not use benzene or alcohol.**

- Do not use any volatile solvents such as benzene or alcohol. Use of such substances may cause the cabinet to deteriorate or damage the surface finishing.

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#### **■ Cleaning the cabinet and control panel.**

- Remove the dirt and dust accumulated on the cabinet and then lightly wipe with a commercially-available cleaning cloth or soft cloth. Wiping or rubbing the cabinet or control panel with a dirty cloth or an abrasive cloth may damage or scratch the glass panel or cabinet surface.
- When using a chemical cleaning cloth, follow the instructions on the package.

## Notes and Precautions on Use

### On operation

- Be careful that some parts of this unit may become hot during use.
- If you move the unit to a remote place (e.g. moving house) cover it with an object such as a blanket to avoid damage. Do not subject the unit to strong impact or vibration.
- Do not spray volatile solvents such as insecticides. Do not allow rubber or plastic/vinyl products to come into prolonged contact with the unit. This may cause deterioration or damage to the surface finishing.
- Avoid placing magnetic cards such as ATM cards or video tapes near the unit. Data or information stored inside may be lost due to magnetism from the unit.
- External input images or sound may be slightly delayed causing discomfort to users;
  - when enjoying Karaoke using a Karaoke equipment connected to the unit; or
  - when listening to the sound from a DVD or video directly connected to the unit.

### On disposal


- Dispose of this product following the local guidelines or regulations for its disposal. Contact your local government for more detailed information on disposal.

### Disclaimer

- FORMOSA PROSONIC INDUSTRIES BERHAD shall not be liable for any damages arising out of or in connection with a natural disaster such as an earthquake or lightning, fire, act of any third party, other accidents, intentional or negligent act of customer, misuse and/or use of this product under other abnormal conditions.
- FORMOSA PROSONIC INDUSTRIES BERHAD shall not be liable for any incidental damages arising out of or in connection with the use or unavailability of this product (including damages to business interests, business interruption and loss of viewing fees).
- FORMOSA PROSONIC INDUSTRIES BERHAD shall not be liable for any damages arising out of or in connection with non-observance of the contents of these Operating Instructions.
- FORMOSA PROSONIC INDUSTRIES BERHAD shall not be liable for compensation for and/or incidental damages arising out of or in connection with any data, including videos, pictures and sound, that failed to be recorded correctly in the recording device connected to this unit, or that were altered or lost.
- FORMOSA PROSONIC INDUSTRIES BERHAD shall not be liable for any damages arising out of or in connection with malfunctions, defects or improper operations (including breakdown of the recording device connected to the unit and alteration or loss of recorded data) occurred by adding other equipment connected to the unit.
- The settings stored in the unit may be altered or lost due to malfunction or noise including static electricity. FORMOSA PROSONIC INDUSTRIES BERHAD shall not be liable for such an incidence.

## Important Notice

### HDMI link function

- When equipment other than those recommended are connected to an HDMI input jack of this unit, the unit may recognize the equipment as an HDMI linked device and some linked operations  may be available. However, FORMOSA PROSONIC INDUSTRIES BERHAD shall not guarantee such linked operations.

## Licenses and Trademarks



This product is manufactured under license from Dolby Laboratories.

Dolby, Pro Logic, the double-D symbol and the AAC logo are trademarks of Dolby Laboratories.



“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.”



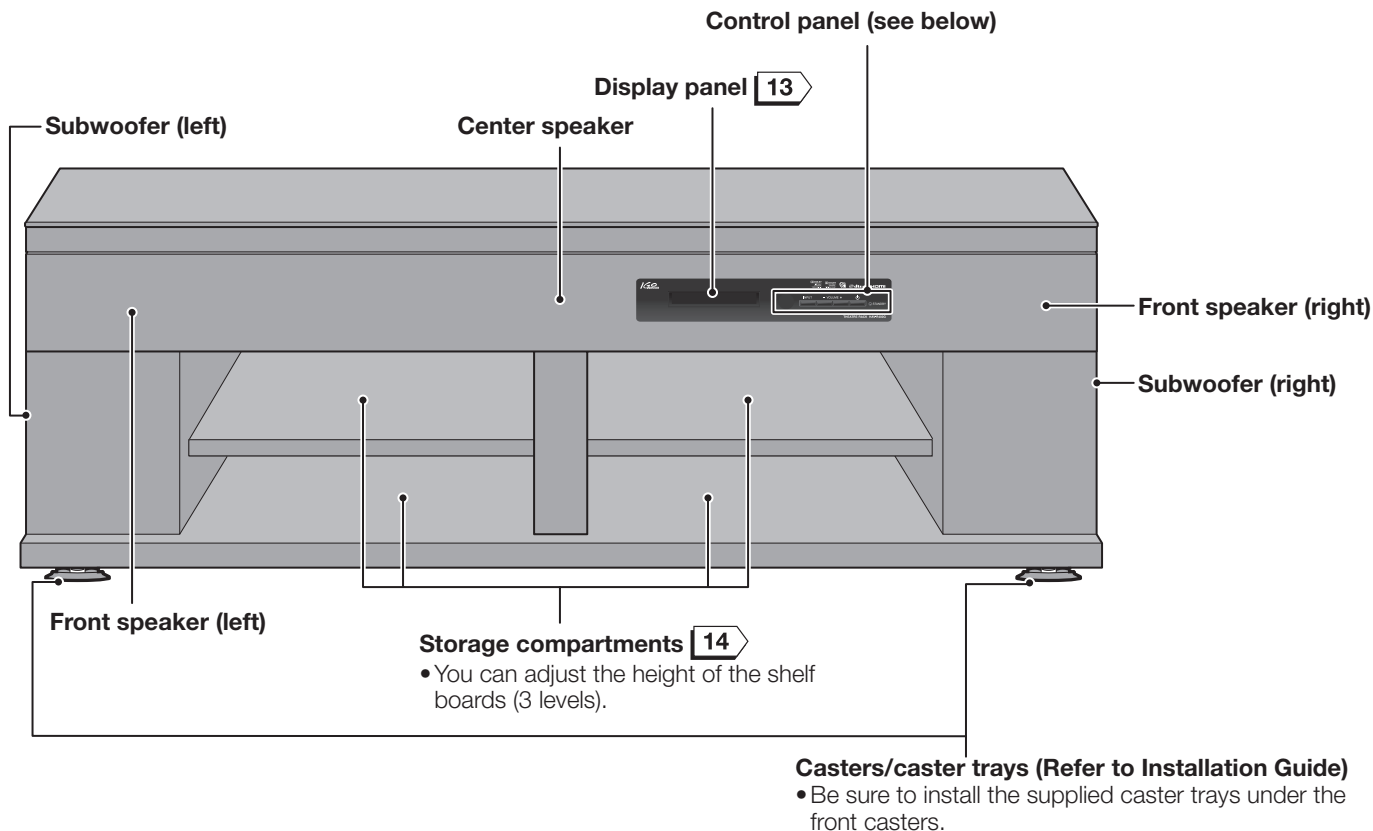
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Manufactured under license under U.S. Patent Nos: 5,956,674; 5,974,380; 6,226,616; 6,487,535; 7,212,872; 7,333,929; 7,392,195; 7,272,567 & other U.S. and worldwide patents issued & pending. DTS-HD, the Symbol, & DTS-HD and the Symbol together are registered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

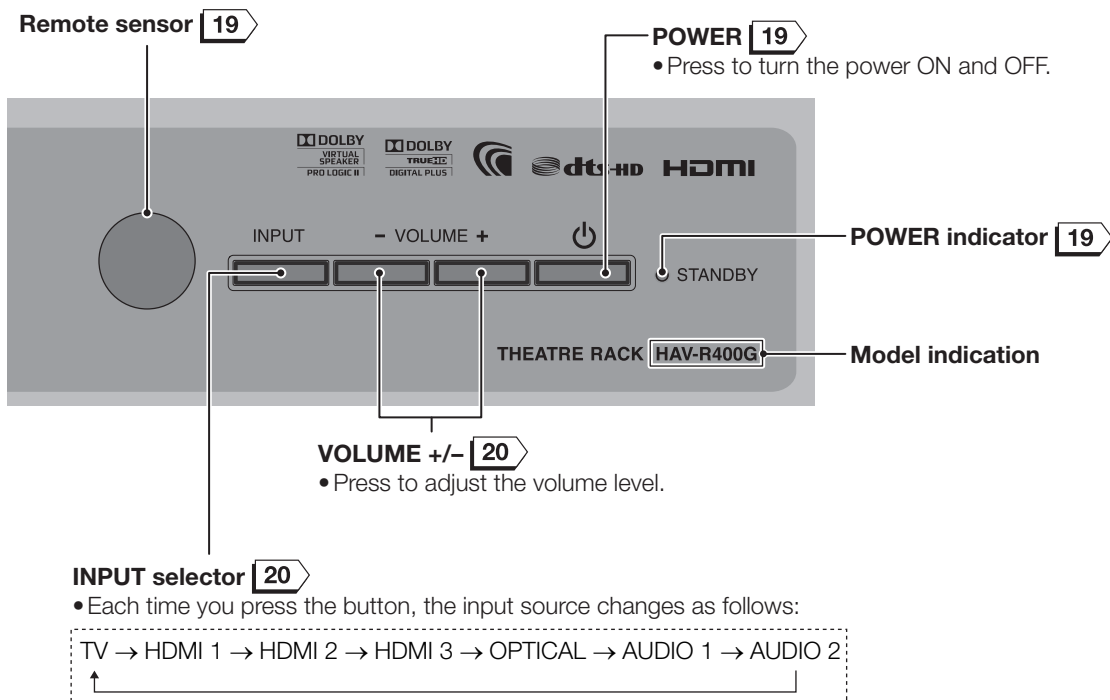
# About this Unit

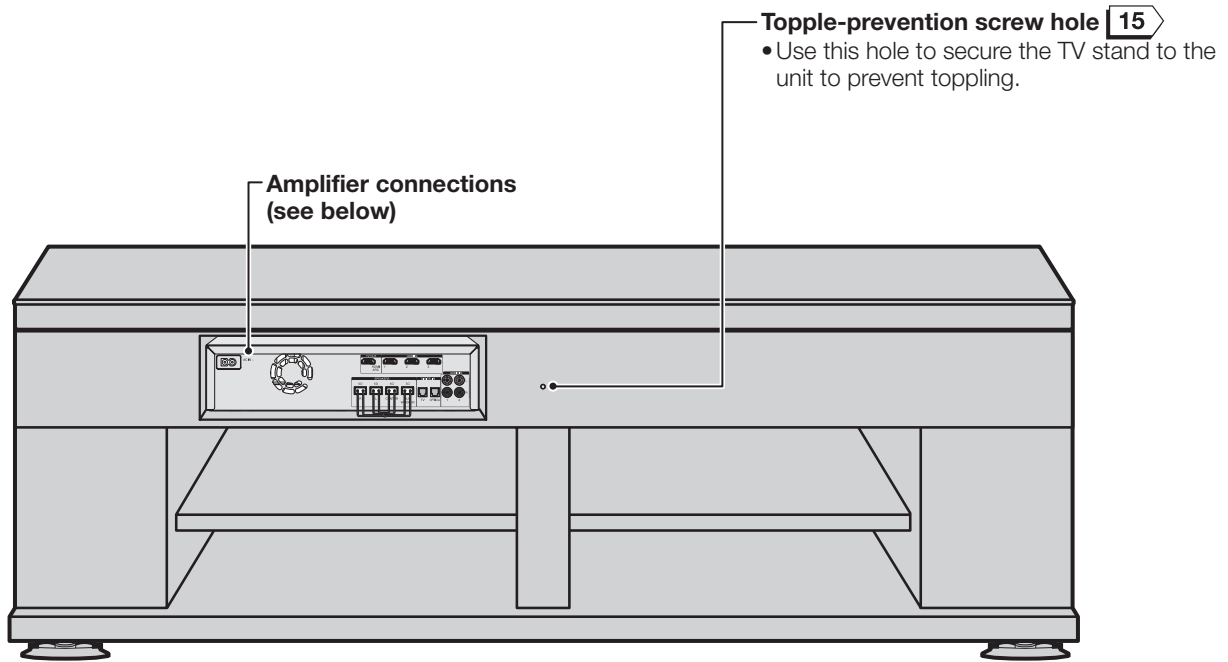
● The illustrations below show HAV-R400G. The visual appearance of HAV-R500G is slightly different from the illustrations.

## Front view



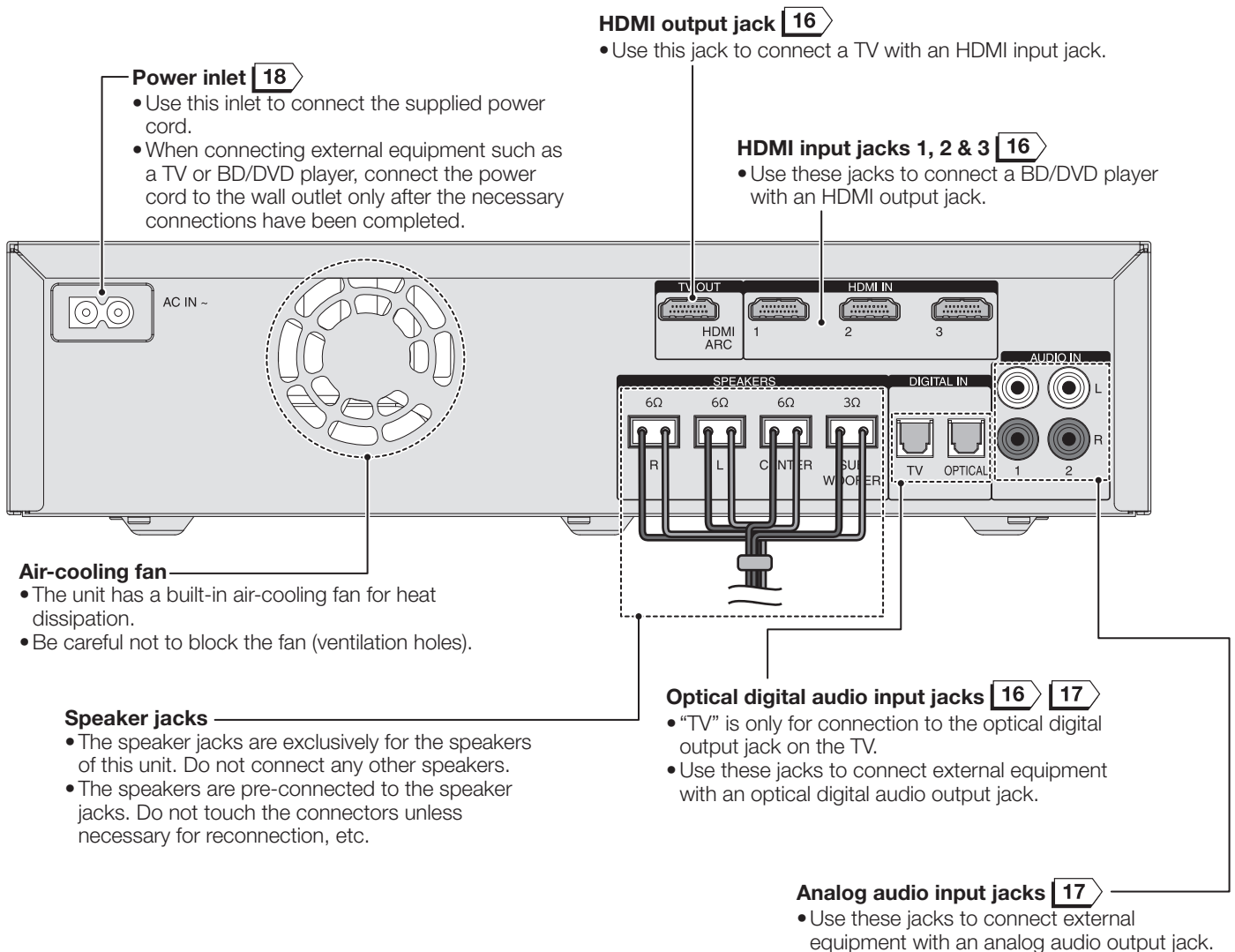
## Control panel



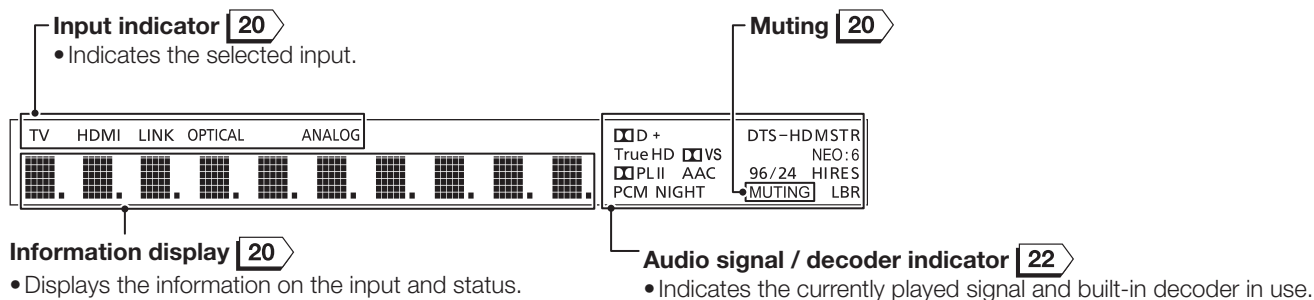


## Amplifier connections

- The amplifier is fixed to the rack. Do not attempt to remove it.



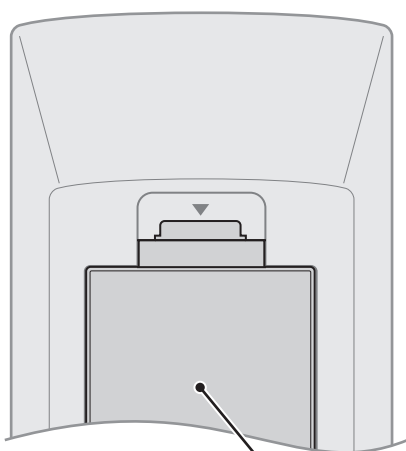
## Display panel



## Remote control

- Buttons on the remote control and their key functions are as described below (some buttons may have different functions from ordinary operations).

### Rear view



#### Battery compartment cover [18]

- Remove this cover to insert batteries.

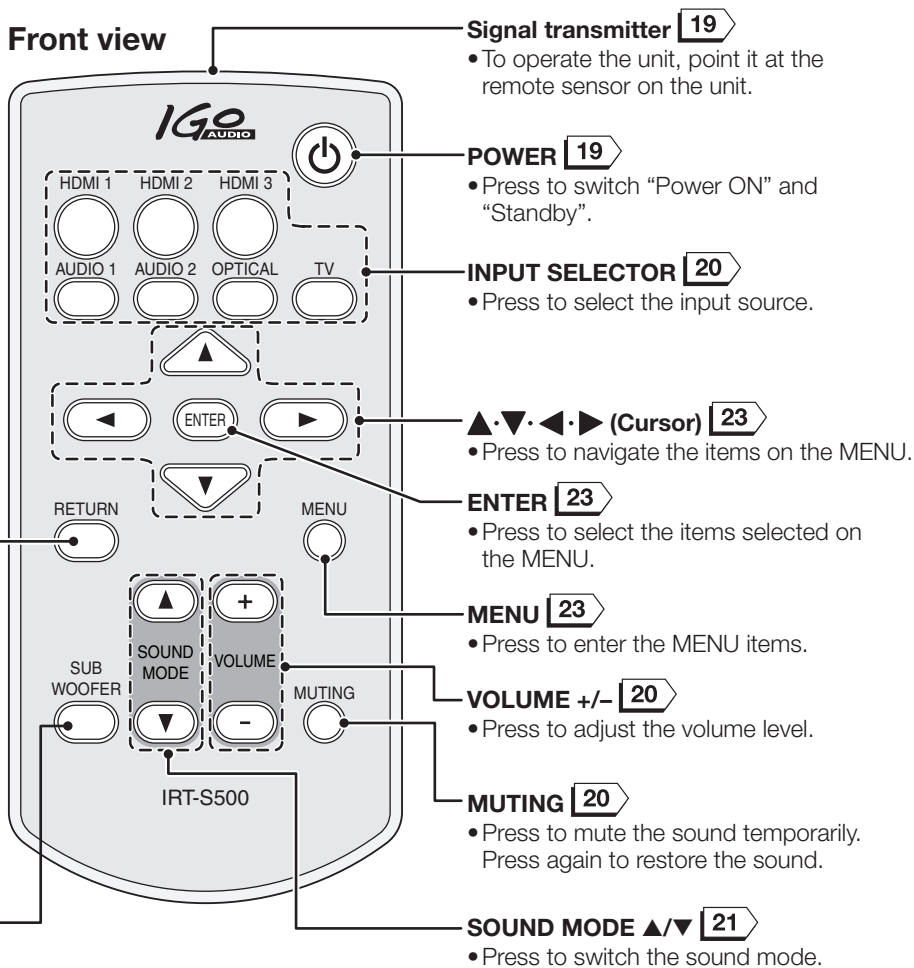
#### RETURN [23]

- Press to return to the previous menu.

#### SUBWOOFER [21]

- Press to adjust the subwoofer level.

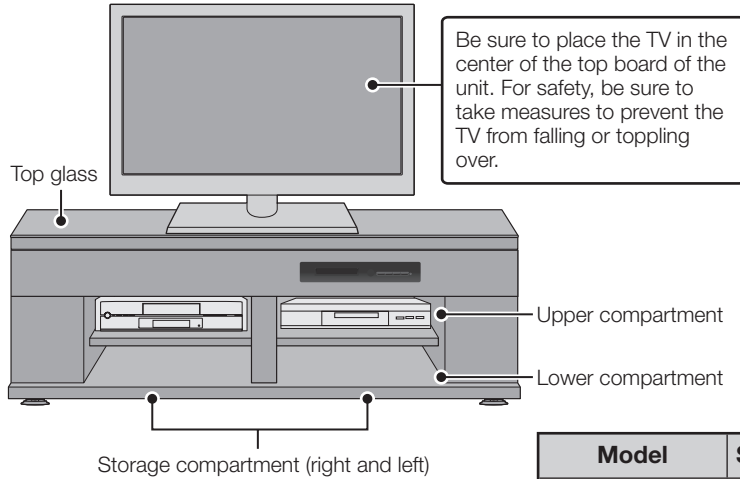
### Front view



# Installing External Equipment such as a TV and Player

- Refer to the operating instructions supplied with the installed TV and external equipment. Connect your external equipment to the unit only after it has been placed on the unit properly. (Refer to “Connecting a TV and Player” **16**, **17** on connecting the equipment.)
- Place the TV in the center of the unit.

## Compatible equipment



Model	Supported TV size	Weight
HAV-R400G	Up to 55"	176 lb (80 kg) Max.
HAV-R500G	Up to 70"	264 lb (120 kg) Max.

Model	Equipment installation position	Shelf board installation position	Storage compartment (right and left)			
			Height	Depth	Width	Maximum load
HAV-R400G	Upper compartment	Upper	3 15/16" (100 mm)	12 3/4" (325 mm)	17 1/2" (445 mm)	26 lb (12 kg)
		Middle	5 1/16" (130 mm)			
		Lower	6 9/32" (160 mm)			
	Lower compartment	Upper	6 7/8" (175 mm)	13 1/2" (343 mm)		44 lb (20 kg)
		Middle	5 11/16" (145 mm)			
		Lower	4 1/2" (115 mm)			
HAV-R500G	Upper compartment	Upper	3 15/16" (100 mm)	12 3/4" (325 mm)	18 11/16" (475 mm)	26 lb (12 kg)
		Middle	5 1/16" (130 mm)			
		Lower	6 9/32" (160 mm)			
	Lower compartment	Upper	6 7/8" (175 mm)	15 11/16" (398 mm)		44 lb (20 kg)
		Middle	5 11/16" (145 mm)			
		Lower	4 1/2" (115 mm)			

Height/Depth/Width – Unit: Inch (mm) / Maximum load – Unit: lb (kg)

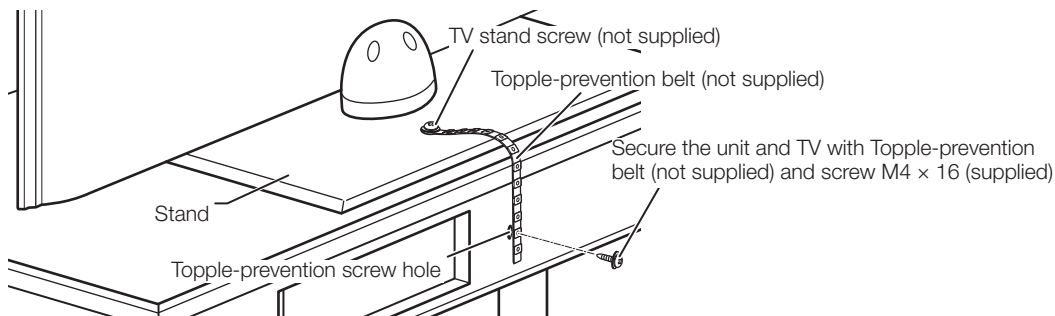
- Ensure good ventilation if the connected equipment's operating instructions include requirements on heat dissipation or ventilation.
- Install the equipment with ventilation holes following the instructions in the equipment's operating instructions.
- Noise may be heard or the image on the TV may be interrupted by electromagnetic radiation emitted by other digital equipment or microwave ovens. Install the equipment away from such devices.

## Preventing the TV from falling or toppling

- The effectiveness of falling and toppling prevention may decrease significantly depending on the strength of the wall or platform on which the fall or topple-prevention device is installed. Be sure to provide appropriate reinforcement. The falling and toppling prevention methods outlined below are intended to reduce the risks such as injuries only, and not to guarantee that these methods will be effective in all cases.
- The unit may fall backwards. After securing the TV, bring the unit closer to the wall so that the unit will not fall backwards.
- Infants and children may be injured if allowed behind the unit. Bring the unit closer to the wall so that infants and children cannot go behind the unit.
- The measures described below are only an example of the preventive methods. Other measures should be taken according to the operating instructions supplied with your TV.
- The illustration is an example only. The actual form of the equipment/device differs depending on the connected TV.

### Securing the unit and TV stand with topple-prevention belt

- Bring the topple-prevention belt located at the bottom of the TV stand to the rear, and use the locking screw (supplied) to securely fasten it to the topple-prevention screw hole on the back of the unit.



#### NOTE

- The TV stand screw and topple-prevention belt are not supplied in this package. For details, please refer to your TV's User Guide.

## Connecting the Audio Player

### ■ Cables to be used

Pin cable (not supplied)



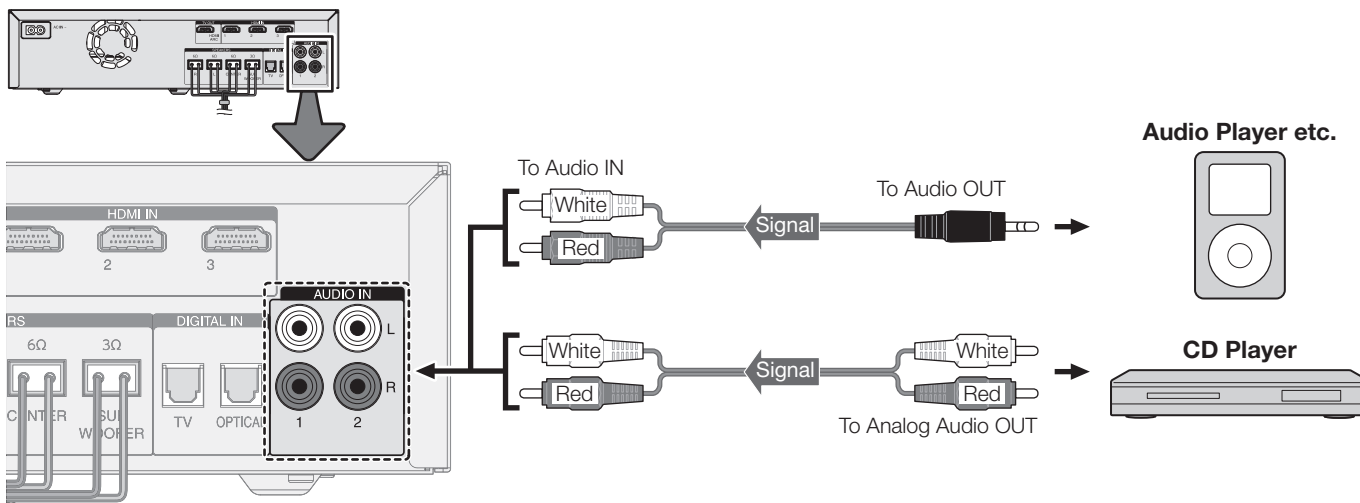
Pin cable (not supplied)



- Refer to the operating instructions of each equipment to connect equipment.

## When using Audio Player

### Amplifier connections



#### INFO.

- The sound volume may be lower if an audio cable with a built-in resistor is used.
- When the unit is connected to a TV or player with an audio cable, use the remote control of the connected equipment to change the sound setting for sound multiplex broadcasting programs.

# Connecting a TV and Player

- Read the operating instructions of the connected equipment together with these instructions.
- Before connecting external equipment, be sure to turn them off and unplug the power cord of the equipment. When you wish to add any equipment, turn off and unplug the IGO Audio HOME THEATRE RACK SYSTEM as well as the equipment being installed before proceeding.
- Connect the power cord of each piece of equipment only after all the connections have been completed.

## Connecting equipment with an HDMI jack (TV, DVD/BD player, etc.)

- Connect a HDMI CEC compatible TV with a player as described below. You can operate HDMI CEC compatible TVs and players using the TV and other remote control via the unit's link function.

### ■ Cables to be used


#### HDMI cable



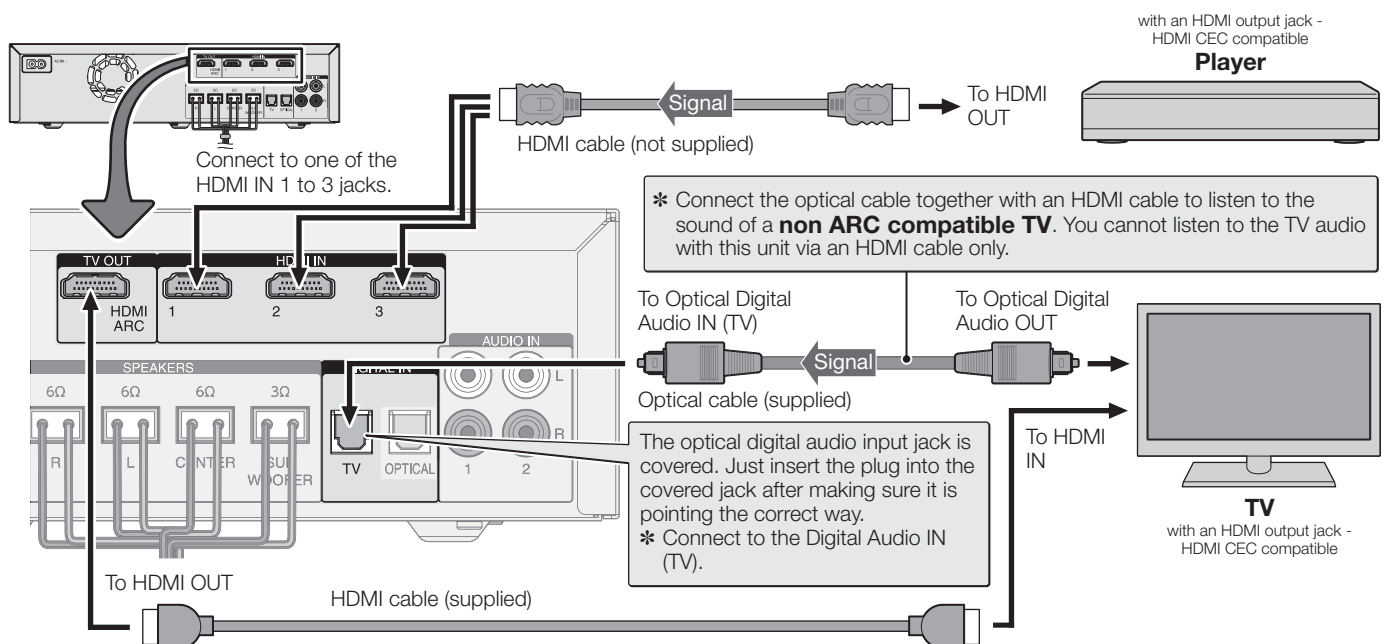
- Use the supplied HDMI cable or a commercially-available cable with the HDMI (**HDMI**) logo. Use a high-speed HDMI cable to input a 1080p video signal from external equipment (the signal may not be input properly with a standard HDMI cable).

#### Optical cable



- Connect the optical cable as well as an HDMI cable to listen to the sound from a non ARC (Audio Return Channel) compatible TV. You cannot listen to the TV sound with this unit via an HDMI cable only. Check the jack type of the connected equipment before purchasing additional cable.
- The type of the plug to be connected to the unit is .

## Amplifier connections



## For connections via an HDMI cable or optical cable

- Set the digital audio output setting on the connected equipment (such as a TV) to "Auto" or "Bitstream", etc. Refer to the operating instructions of the connected equipment for setting method.

### INFO.

- The optical cable may be damaged if it is bent excessively.

#### ■ About the HDMI PASS-THRU function


- You can listen to the sound of the equipment connected to the unit via the TV speakers even if the unit is in standby mode. If the priority speaker setting on the TV is set to "AV System" or "Theatre System", etc., the sound is automatically output from the speakers of the unit when the unit is turned on.




# Connecting equipment without an HDMI jack (TV, DVD/BD player, etc.)


## ■ Cables to be used

**Pin cable**



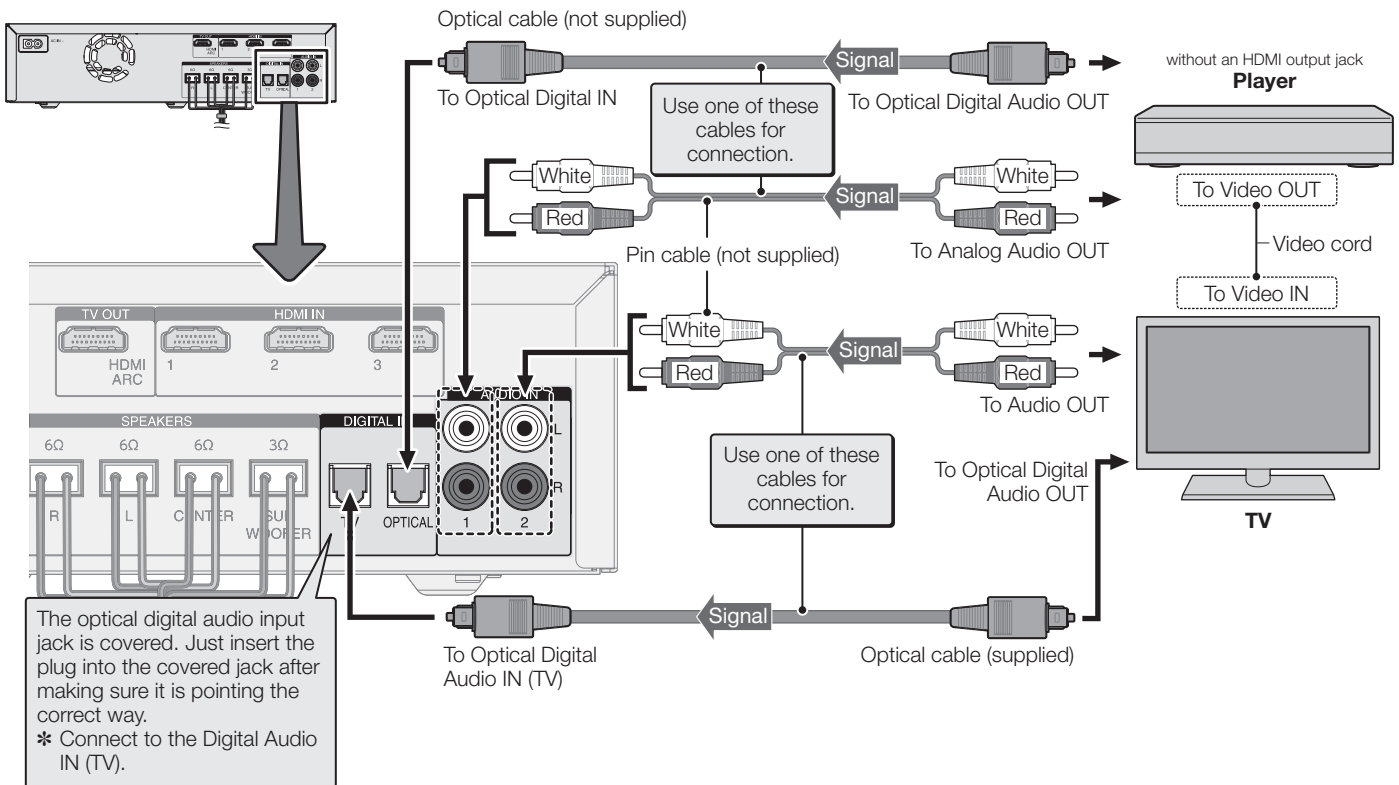
**Optical cable**



● Check the jack type of the connected equipment before purchasing additional cable. The type of the plug to be connected to the unit is .

● Refer to the operating guide of each device for proper connection instructions.

## Amplifier connections



## For connections via an optical cable

● Set the digital audio output setting on the connected equipment (such as a TV) to “Auto” or “Bitstream”, etc. Refer to the operating instructions of the connected equipment for setup.

### INFO.

- The optical cable may be damaged if it is bent excessively.
- The sound volume may be lower if an audio cable with a built-in resistor is used.
- When the unit is connected to a TV or player with an audio cable, use the remote control of the connected equipment to change the sound setting for sound multiplex broadcasting programs.

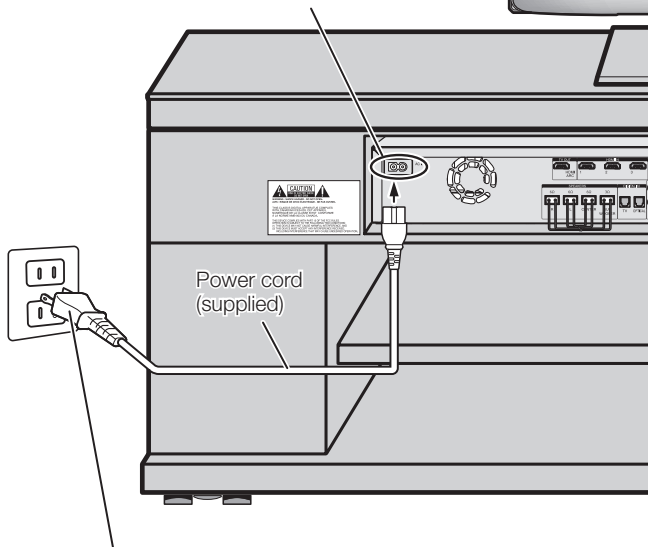
## Connecting the Power Cord

- Be sure to connect the power cords of both the unit and connected equipment only after all the connections have been done.

### CAUTION!

Do not use the supplied power cord for any device other than this unit. The supplied power cord is exclusively for this product.

- ① Connect the power cord to the amplifier first, then to the wall outlet.



- ② Connecting to the wall outlet should be the last connection made.

- Connect the power plug in the above order ① and ②. Firmly insert the power plug fully into an AC120V outlet.
- Be sure to power OFF the unit before disconnecting the power plug.

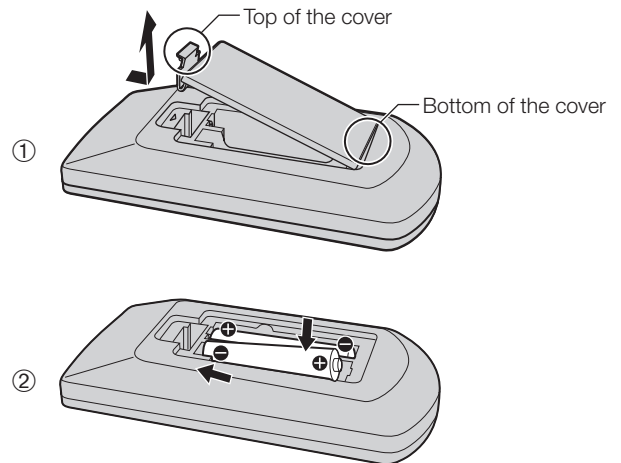
## Preparing the Remote Control

### Inserting batteries into the remote control

- Use two R03 or LR03 (size AAA) batteries.
- Two R03 (size AAA) batteries are supplied with the unit.

#### ● Remove the cover and insert the batteries.

- ① To remove the cover, lift its latch while pressing it in the ▼ direction.
- ② Check the polarity markings  $\oplus$  and  $\ominus$  to insert the batteries correctly.



- To close the cover, insert the protrusion at the bottom of the cover into the notch on the remote control and then push down the top of the cover until a click is heard.

### NOTE


#### ■ About batteries

- Battery life differs depending on how the battery is used. Replace both of two batteries with new ones if you experience difficulty in using the remote control or if the signal transmission distance shortens.
- Dispose of the used batteries following your local regulations for disposal.

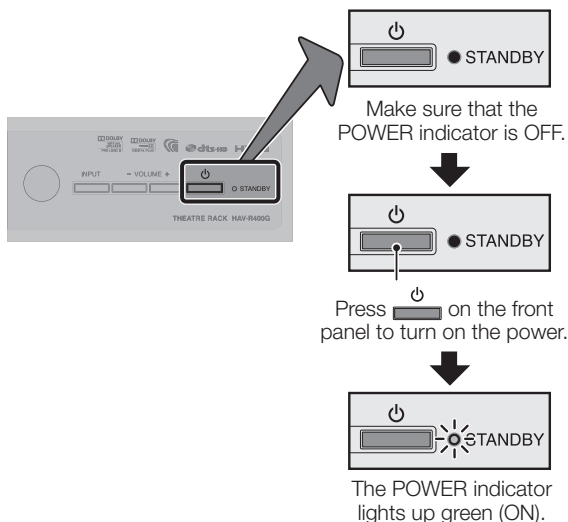
# Turning on the Power

- After connecting your external equipment, turn on the power of the unit.

## Turning on the power for the first time

**1** Make sure that the **POWER** indicator on the front panel is **OFF**, then press  on the unit.

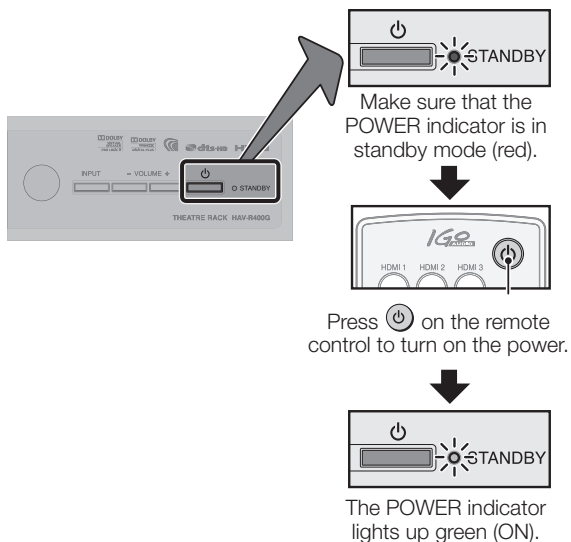
- The power turns on and the POWER indicator on the front panel lights up green.






## Turning on the power for the second time onwards

**1** Make sure that the **POWER** indicator on the front panel is in standby mode (lit in red), then press  on the remote control.

- The power turns on and the POWER indicator on the front panel lights up green.



- If  on the remote control is pressed while the power is turned on, the unit goes into standby mode and the POWER indicator lights up red.
- If  on the unit is pressed, the power is turned off and the POWER indicator turns off.
- The power cannot be turned on by pressing  on the remote control when the power is OFF (the POWER indicator: OFF).

## About the power indicator and display panel

- The color of the power indicator varies depending on the power status of the unit. If the brightness of the display panel is changed <sup>\*1</sup>, the power indicator also changes accordingly.

Power status	Power indication	Display panel	CEC LINK <sup>*2</sup>
Power OFF (The power is turned off using the button on the unit.)	OFF	OFF	N/A
Standby (The power is turned off using the remote control.)	ON (red)	OFF	YES
Power ON	ON (green)	ON (standard)	
	ON (green/ dim)	ON (dim)	
	ON (orange)	OFF	

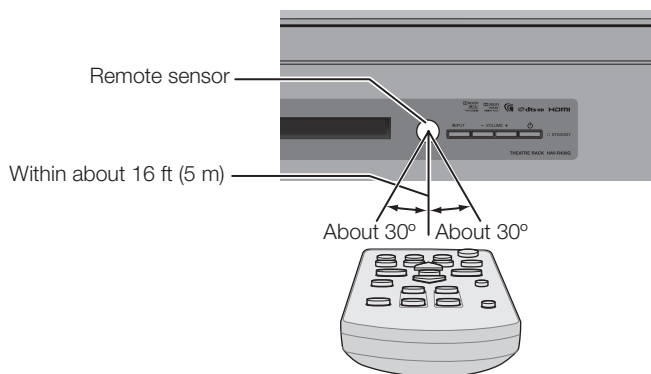
\*1 The brightness of the display panel can be set to one of the three levels.

**25**

\*2 Refer to **27** for HDMI CEC Link.

## About the remote control's operating range

- Point the remote control at the remote sensor on the unit.
- Avoid exposing the remote sensor to intense light. The remote control may not function under such a condition.
- Do not place obstacles in the path between the remote control and remote sensor. Otherwise, the remote control may not work or will respond slowly.

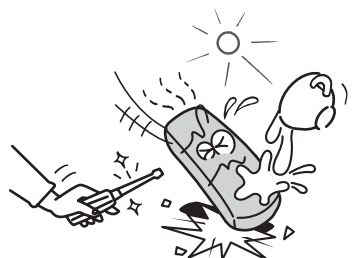


- From the remote sensor:  
Distance – Within 16 ft (5 m) / Angle – Within 30° (horizontal);  
Within 20° (vertical)

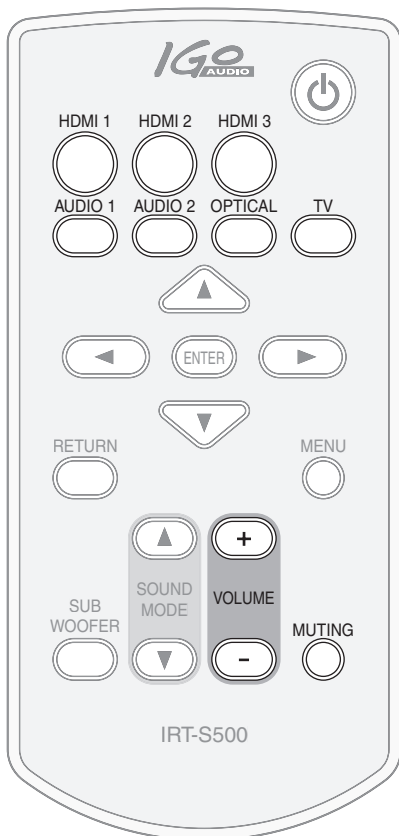
### CAUTION

#### ■ About the remote control

- Do not drop, swing or apply impact to the remote control.
- Do not splash water on the remote control or place it on a wet object.
- Do not disassemble the remote control.
- Do not place the remote control in a place subject to high temperature or humidity.




# Listening to the TV, DVD or Video Sound

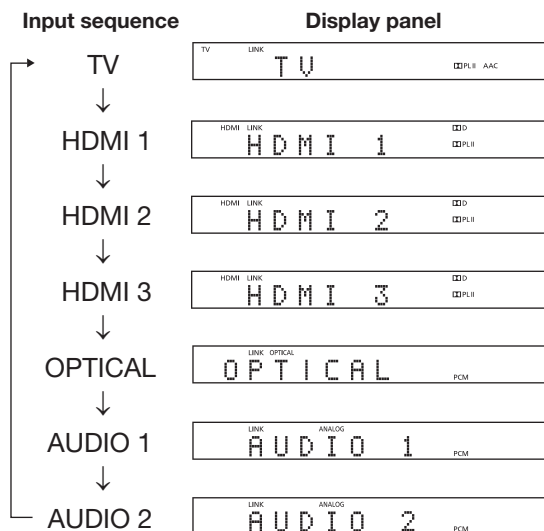


## Selecting the input source

### 1 Select the input source.

- Selecting the input source with the INPUT SELECTOR button on the front panel.

Select the input source by pressing  button repeatedly. The input source changes in the following order:  
(Actual change of the input source may be slower than the display.)




- Selecting the input source with the remote control  
Press the INPUT button for the desired source.

## Adjusting the volume level

### 1 Press to control the volume level.

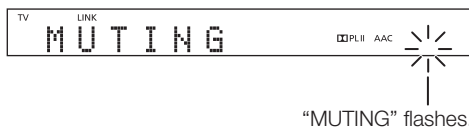



The display appears for about 3 seconds.  
Volume control range: 0 (min) – 100 (max)

- The volume level is displayed on the front display panel.
- The volume level can be controlled by pressing  on the front panel.
- The sound may be interrupted if these buttons are pressed continuously.

## Turning off the sound temporarily (Muting)



### 1 Press .

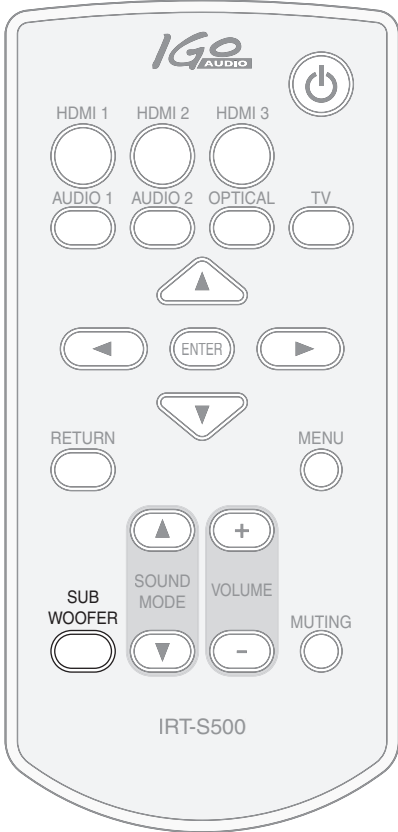


- "MUTING" is displayed on the front display panel and the "MUTING" indicator flashes.
- Press  again to return to the original volume level.
- The mute mode is canceled if you control the volume or turn the unit off/on.

#### NOTE

##### ■ About sound etiquette

- When listening to audio, adjust the volume so that you do not disturb the comfort or relaxation of anyone in the vicinity or set the mode to "NIGHT"  or "AUDIO DRC" . Especially at night, even a small sound reaches far and wide. Ensure a comfortable living environment by caring for each other by taking measures such as closing windows.

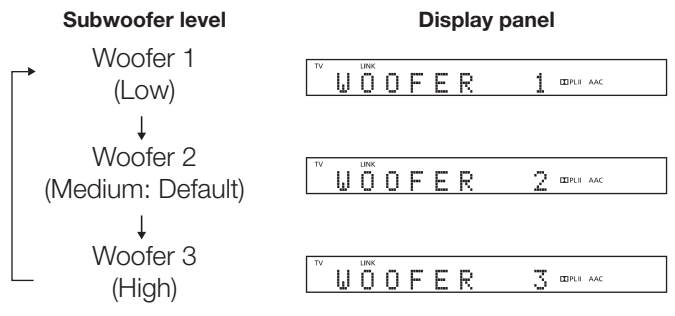


### Selecting the subwoofer level during playback

● You can select one of the three subwoofer levels.

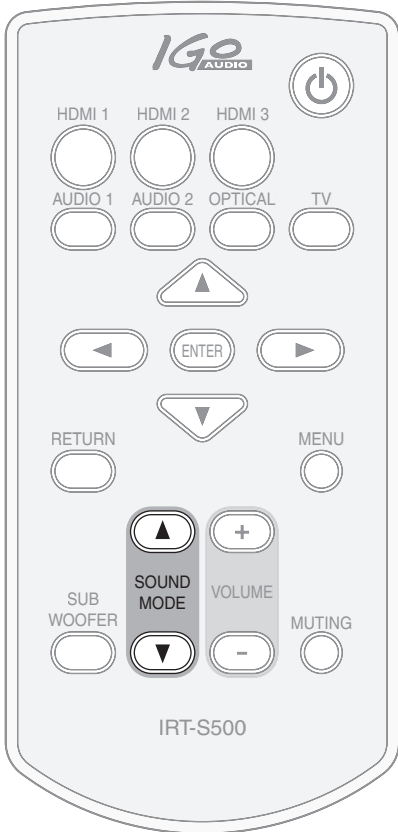
**1** Select the desired subwoofer level by pressing **SUB WOOFER** button repeatedly.

● The subwoofer level is displayed on the front display panel.



● Besides the pre-defined three levels, you may also adjust the subwoofer level to your liking. For more information, refer to “Adjusting level of center speaker/subwoofer (SP. SET)” **25**.

### Enjoying Various Sound Modes



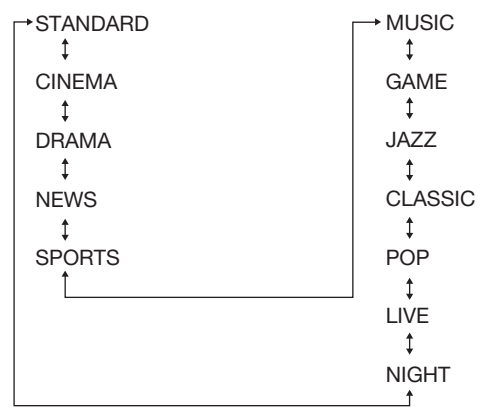
### Selecting the sound mode

- You can select a sound mode that suits the genre of the sound to be played.
- The sound mode can be set for each input source **20**.

**1** Select the desired sound mode by pressing **SOUND MODE**.



Each time you press **SOUND MODE** the sound mode changes as follows:



## About sound mode

Video/Sound category	Suitable sound mode	Effects
All categories	STANDARD	● You can enjoy the standard sound that suits any type of videos and sounds. If no information on the category is available for viewing/playing program, set the sound mode to "STANDARD".
Movies	CINEMA	● Produces a powerful and realistic sound, along with clear dialog.
Dramas	DRAMA	● Suitable for TV dramas.
News	NEWS	● Produces the announcer's voice clearly.
Sports	SPORTS	● Produces clear play-by-play commentary and realistic sound with surround effects, such as cheering, etc.
Music programs	MUSIC	● Produces optimal sound for programs or music Blu-ray Discs, DVDs and CDs. Suitable for listening to music.
Game equipment	GAME	● Produces a powerful and realistic sound, suitable for playing video games.
Music programs, BDs, DVDs and CDs	JAZZ	● Produces sound with emphasized, rich bass and treble. Suitable for jazz music.
	CLASSIC	● Produces sound with emphasized bass and treble as well as sharp high notes. Suitable for classical music.
	POP	● Delivers light sound suitable for pop music.
	LIVE	● Delivers the atmosphere of a concert hall.
_____	NIGHT	● Suitable for listening to sound at a low volume late at night. You can enjoy surround effect and hear the dialog in movies even at a low volume level.* * The effect may not be obtained depending on the data to be reproduced (or category or decoder used).

## Supported Audio Decode Formats

Audio formats supported by this system are as follows.

Audio decode format / Input source	LPCM 2ch	LPCM 5.1ch LPCM 7.1ch	Dolby Digital	Dolby TrueHD Dolby Digital Plus	DTS	DTS-HD Master Audio	DTS-HD High Resolution Audio	DTS 96/24	AAC (MEPG2)
HDMI	✓	✓	✓	✓	✓	✓	✓	✓	✓
DIGITAL IN (OPTICAL)	✓	–	✓	–	✓	–	–	–	✓

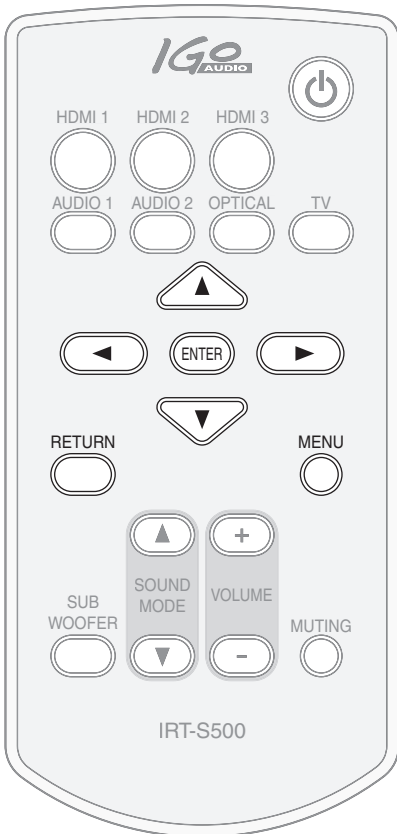
✓: Supported format

–: Unsupported format

### NOTE

Decoded multi channel 5.1/7.1-ch signals are outputted from 3.1-ch speakers by re-arrangement.

# Advanced Functions and Settings



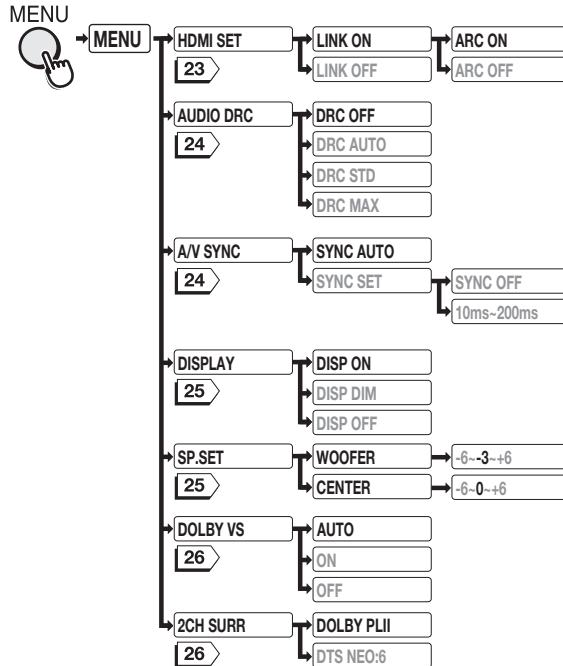
- You can change the MENU items to your liking.

## Setting MENU items

- Pressing displays "MENU" on the front display panel and enables you to set the MENU items.



- Default settings are shown in bold type.



## Setting HDMI CEC Link (HDMI SET)

- Sets HDMI CEC Link function.
- To return to the previous menu, press .

**1** Press .

**2** Press to select "HDMI SET", then press .



**3** Press to select "LINK ON" or "LINK OFF", then press .

### LINK ON

- Operations of the unit and HDMI CEC compatible equipment will be linked.



### LINK OFF

- Operations of the unit and HDMI CEC compatible equipment will not be linked.



- Once the setting is completed, press until the input source such as "TV" and "HDMI 1" is shown on the display panel to end the menu.

## If the ARC function of the HDMI jack is not in use

- If the unit is connected to an ARC compatible TV using both HDMI and optical cables, priority is given to sound via the HDMI cable. If you wish to listen to sound via the optical cable, turn off the ARC function following the steps below.

Perform the above Steps 1 and 2.



Press ▲·▼ to select “LINK ON”, then press **ENTER**.



Press ▲·▼ to select “ARC OFF”, then press **ENTER**.



## Adjusting delay between picture and sound (A/V SYNC)

- You can delay the sound using this function when the picture is slower than the sound.
- AV/SYNC can be set for each input jack type.  
About input jack type  
HDMI IN: HDMI 1, HDMI 2 and HDMI 3  
Optical digital IN\*: TV and Optical Digital  
Audio IN: Audio 1 and Audio 2

### NOTE

Individual settings can be made for TV and Optical Digital.

- To return to the previous menu, press **RETURN**.

**1** Press **MENU**.

**2** Press ◀▶ to select “A/V SYNC”, then press **ENTER**.



**3** Press ▲·▼ to select “SYNC AUTO” or “SYNC SET”, then press **ENTER**.

### SYNC AUTO

- When the unit is connected to an equipment with the auto audio delay function via an HDMI cable, the optimal audio delay is automatically set if “SYNC AUTO” is selected.  
(The mode is set to “OFF” when the unit is connected to equipment with no auto audio delay function.)



### SYNC SET

- Select this mode to set the delay time. Move on to Step 4.



**4** Press ▲·▼ to select “OFF” or delay time.

- If “OFF” is selected, the A/V SYNC function is not activated.



- The setting range is 10ms to 200ms in 10ms increments.

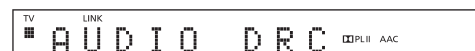
- Once the setting is completed, press **RETURN** until the input source such as “TV” and “HDMI 1” is displayed on the display panel to end the menu.

## Enjoying Dolby Digital sound at a low volume (AUDIO DRC)

- Compresses the dynamic range (difference between the softest and loudest sounds in audio signal) for clearer dialog even at a low volume level without affecting the sound field.
- This function is useful when you may not listen to the sound at a high volume late at night.
- To return to the previous menu, press **RETURN**.

**1** Press **MENU**.

**2** Press ◀▶ to select “AUDIO DRC”, then press **ENTER**.



**3** Press ▲·▼ to select the setting item.  
**DRC OFF**

- Ordinary playback without compression of dynamic range.



### DRC AUTO

- Compresses dynamic range according to the sound source.



### DRC STD

- Compresses dynamic range at the standard level.



### DRC MAX

- Compresses dynamic range fully.



- Once the setting is completed, press **RETURN** until the input source such as “TV” and “HDMI 1” is displayed on the display panel to end the menu.

### WORD

#### ■ About delay time

- The unit of delay time is ms (millisecond). It is a unit to express time, which is a thousandth (1/1000) of a second.



## Adjusting brightness of display panel (DISPLAY)

- You can change brightness of display panel.
- To return to the previous menu, press .

**1** Press .

**2** Press   to select "DISPLAY", then press .



**3** Press   to select the setting item.  
**DISP ON**

- Standard brightness



### DISP DIM


- Dimmer than the standard brightness




### DISP OFF

- Turns off the display.



- Once the setting is completed, press  until the input source such as "TV" and "HDMI 1" is displayed on the display panel to end the menu.




## Adjusting level of center speaker/ subwoofer (SP.SET)

- You can adjust center speaker and subwoofer to your desired level.
- To return to the previous menu, press .

**1** Press .

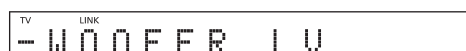
**2** Press   to select "SP.SET", then press .



**3** Press   to select "WOOFER LV" or "CENTER LV", then press .

### WOOFER LV

- Select this to adjust level of subwoofer.  
Move on to Step 4 to adjust level.



### CENTER LV

- Select this to adjust level of center speaker.  
Move on to Step 4 to adjust level.




**4** Press   to adjust level.

- The setting range is -6dB to +6dB in 1dB increments for both the subwoofer and center speaker.


Default setting:

Subwoofer: -3dB

Center speaker: ±0

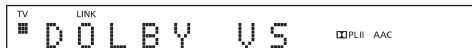
- Once the setting is completed, press  until the input source such as "TV" and "HDMI 1" is displayed on the display panel to end the menu.

## Setting Dolby Virtual Speaker (DOLBY VS)


- Dolby Virtual Speaker (“DOLBY VS”) delivers the surround effect similar to 5.1-channel system.
- To return to the previous menu, press .

**1** Press .

**2** Press   to select “DOLBY VS”, then press .




**3** Press   to select the setting item.  
**AUTO**

- ON/OFF modes of DOLBY VS automatically changes as shown below according to the category of sound mode  and audio signal.




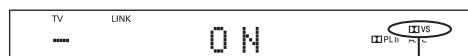
Sound mode category	2-channel stereo signal (no surround information)	2-channel stereo signal (with surround information/ 5.1- and other multi-channel signal)
STANDARD NEWS JAZZ CLASSIC POP	OFF	ON*1
CINEMA DRAMA SPORTS MUSIC GAME LIVE NIGHT	ON*2	ON*1

\*1: Even if the input is 2-channel stereo signal, you can enjoy powerful sound by the combination of Dolby Pro Logic II (or DTS Neo:6) and DOLBY VS as long as surround information is provided.

\*2: Even when no surround information is provided, the DOLBY VS is set to “ON” for clearer movie dialog and play-by-play commentary of sports programs. However, it will not be set to “ON” when the DTS Neo:6 mode  is set.

### ON

- Surround effect is activated regardless of sound mode .
- The DOLBY VS functions when reproducing a 2-channel stereo signal or 5.1- and other multi-channel signal to deliver a surround effect similar to 5.1-channel system.
- 5.1 multi-channel signal is reproduced in 3.1-channel and output from the center speaker.




 VS lights up when there is an input signal.


### OFF

- Surround effect is not activated.
- 5.1 multi-channel signal is reproduced in 3.1-channel and output from the center speaker.



- Once the setting is completed, press  until the input source such as “TV” and “HDMI 1” is displayed on the display panel to end the menu.

## Setting 2-channel surround mode (2CH SURR)


- 2-channel sound can be reproduced in up to 5.1-channel. There are two types of 2-channel surround modes.
- To return to the previous menu, press .

**1** Press .


**2** Press   to select “2CH SURR”, then press .



**3** Press   to select the setting item.  
**DOLBY PL II**

- If the audio signal to be reproduced is 2-channel stereo and the DOLBY VS is set to “ON” , a three-dimensional surround effect can be enjoyed by the combination of DOLBY VS and Dolby Pro Logic II.




 PL II lights up when this mode is activated.

### DTS Neo:6

- If the audio signal to be reproduced is 2-channel stereo and the sound category is movie or music, a three-dimensional surround effect can be enjoyed.



DTS and NEO:6 lights up when this mode is activated.

- Once the setting is completed, press  until the input source such as “TV” and “HDMI 1” is displayed on the display panel to end the menu.

### INFO.

- DOLBY VS is not activated for monaural sound.

# About the HDMI CEC Link

## About the HDMI link function

- The HDMI link function of this unit enables you to link the operation of equipment using the standard HDMI CEC protocol.
- This function can be used by connecting the unit with your HDMI-compatible equipment (such as TVs and players) using an HDMI cable (supplied or not supplied).

### NOTE

To use the HDMI link function, the setting needs to be made on each connected device. For more information, refer to the operating instructions of the connected equipment.

- Some linked operations may be available on equipment connected to the unit via an HDMI cable even if it is not recommended equipment. However, FORMOSA PROSONIC INDUSTRIES BERHAD shall not guarantee such linked operations. Also note that some linked operations may not be available on certain types of recommended equipment.
- When you change the connections or settings of HDMI-linked equipment, you should carry out the following:
  - Turn on all the connected equipment and then turn the unit off and on again.
  - Check every piece of connected equipment to make sure it is working.

### NOTE

The number assigned to each equipment may change depending on the connections.

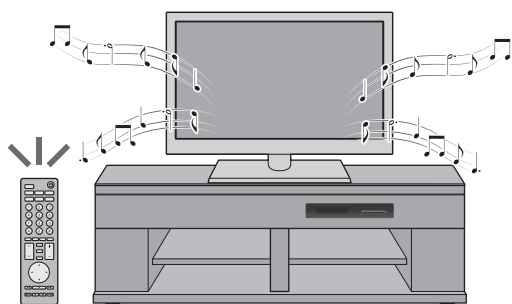
## Preparing HDMI CEC

- Make the following preparations.
  - ① Connect the unit and HDMI-compatible equipment (such as TVs and players) using an HDMI cable (supplied or not supplied). **16**
  - ② Make the settings for the HDMI link function on each device.
    - Make sure that the "HDMI LINK" **23** is set to "ON" for the unit. Turn on the HDMI link on the connected equipment according to the relevant operating instructions.

## What you can do with HDMI CEC

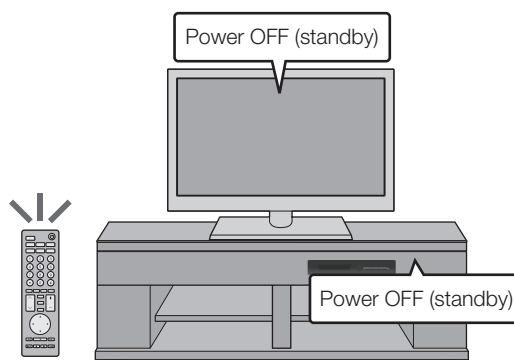
- Use the TV remote for operations using this function. Operations and displayed items may vary depending on the TV type. Refer to the operating instructions supplied with the TV connected to the unit.

### Use the TV remote control to control the AMP Sound; "Volume up/down", "Muting"



### Power OFF (standby) link

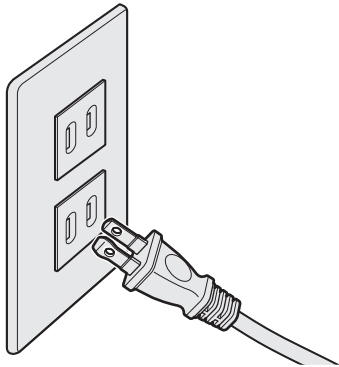
- The unit turns off (or goes into the standby mode) automatically if the TV is turned off (or set to the standby mode). If any equipment that supports HDMI CEC is connected via an HDMI cable, the equipment also turns off (or goes into the standby mode).



## Check the Following First

### Check the power plug connection.

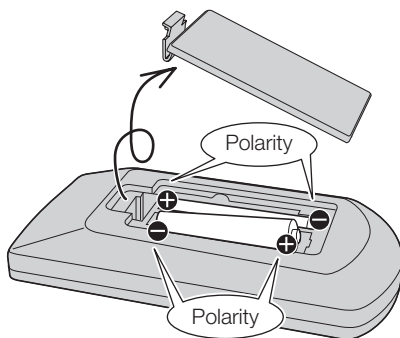
- Insert the power plug into the wall outlet securely.
- Contact an electrician in the event of loose outlet.



### Check the polarity of the batteries inserted in the remote control.

#### Check if old batteries are being used.

- Check the polarity (+, -) markings on the batteries.
- Replace with new batteries and see if the problem is remedied.



### Check for any loose jacks or disconnected cables.

- Securely connect the unit and equipment.

## These do not Constitute a Malfunction

### Crack sound from the cabinet.

- A crack sound is heard when the cabinet expands and contracts due to changes in the room temperature. This is not an issue unless you experience a problem in the sound.

### The unit becomes hot even when it is not in use.

- The temperature of the unit rises slightly even in standby mode.

## Find Solution according to the Symptoms

- Use this troubleshooting guide to check possible solutions for symptoms such as improper functioning of the theatre rack.
- Should any problems persists, disconnect the power plug from the wall outlet and consult your dealer.
- The page numbers in the table indicate the page number on which you can find relevant information.

## Resetting the theatre rack in the event of freeze-up

- Perform the following operation in the event that the theatre rack cannot be operated using the control buttons on the remote control or the unit; or if the connected equipment is not recognized.

### How to reset

- 1 Disconnect the power plug from the wall outlet.
- 2 Wait for more than 1 minute.
- 3 Connect the power plug to the wall outlet and turn on the power.

## Operation

### The power does not turn on




Check if:	Possible Solution/Other	Page
The power plug is disconnected.	<ul style="list-style-type: none"> <li>Connect the power plug to the wall outlet.</li> </ul>	<a href="#">18</a>
The POWER indicator is OFF.	<ul style="list-style-type: none"> <li>You cannot turn on the power using the remote control when the power indicator is OFF. Turn on the power using the POWER button on the front panel of the unit.</li> <li>Disconnect the power plug from the wall outlet. Wait for more than 1 minute and then connect the power plug to the wall outlet again.</li> </ul>	<a href="#">19</a> <a href="#">28</a>
"S101" is displayed on the display panel.	<ul style="list-style-type: none"> <li>This is an amplifier power error. Turn off the unit and connected equipment and then disconnect the power cord from the wall outlet. Inform your dealer of the error message and consult them for repair.</li> </ul>	–

### Unable to operate the unit with the remote control

Check if:	Possible Solution/Other	Page
There is an obstacle in the path between the remote control and remote sensor.	<ul style="list-style-type: none"> <li>Remove the obstacle.</li> </ul>	<a href="#">19</a>
The batteries of the remote control are empty.	<ul style="list-style-type: none"> <li>Replace the batteries with new ones.</li> </ul>	<a href="#">18</a>
The polarity (+, -) of the batteries in the remote control is incorrect.	<ul style="list-style-type: none"> <li>Check the polarity (+, -) and insert the batteries correctly.</li> </ul>	<a href="#">18</a>
The unit can be operated with the buttons on the unit.	<ul style="list-style-type: none"> <li>If you are still unable to operate the unit using the remote control even after trying the above possible solutions, the remote could be defective. Consult your dealer.</li> </ul>	–

## Sound

### No sound output (General)

Check if:	Possible Solution/Other	Page
The volume level is set to minimum.	<ul style="list-style-type: none"> <li>Increase the volume by pressing  VOLUME.</li> </ul>	<a href="#">20</a>
"MUTING" is flashing on the display panel.	<ul style="list-style-type: none"> <li>Muting is canceled by pressing . (Muting can also be canceled by pressing .)</li> </ul>	<a href="#">20</a>
Correct input source is not selected.	<ul style="list-style-type: none"> <li>Select the desired input source correctly.</li> </ul>	<a href="#">20</a>
The equipment is not connected correctly.	<ul style="list-style-type: none"> <li>Check the connections between the unit and equipment. If there is no connection problem, there could be a problem with the cable. Use another cable to connect the equipment and see if the problem is solved.</li> </ul>	<a href="#">16</a> , <a href="#">17</a>
The digital signal is not supported by the unit.	<ul style="list-style-type: none"> <li>If you are using an optical cable, PCM signals with sampling frequency exceeding 96 kHz may not be reproduced properly.</li> <li>Check if the digital signal is supported by the unit.</li> </ul>	<a href="#">22</a> <a href="#">22</a>
The connector is disconnected from the speaker jack in the amplifier section (rear of the unit).	<ul style="list-style-type: none"> <li>Check if the connector is disconnected from the speaker jack.</li> </ul>	<a href="#">12</a>
The HDMI link function is set between the TV and the unit.	<ul style="list-style-type: none"> <li>It takes a few seconds until the sound is output from the unit when the TV and the unit are turned on by the power link function.</li> </ul>	–

### No DTS sound output

Check if:	Possible Solution/Other	Page
"Bit stream" is selected for the digital sound setting on the connected equipment.	<ul style="list-style-type: none"> <li>Check the sound output setting on the connected equipment.</li> </ul>	–

## The surround effect cannot be obtained

Check if:	Possible Solution/Other	Page
The DOLBY VS (DOLBY Virtual Speaker) is set to "OFF".	<ul style="list-style-type: none"> <li>• Check the DOLBY VS setting.</li> <li>• If there is no sound from the TV, check if the unit and the TV are properly connected via an optical cable.</li> <li>• The DOLBY VS does not work for PCM signals with sampling frequency of 48 kHz.</li> <li>• The DOLBY VS does not work for a multi-channel sound system comprising AAC and Dolby Digital.</li> <li>• DOLBY VS does not work for monaural sounds.</li> </ul>	<p><a href="#">26</a></p> <p><a href="#">16</a>, <a href="#">17</a></p> <p>–</p> <p>–</p>

## TV sound is slower than the picture

Check if:	Possible Solution/Other	Page
The AV/SYNC has been set.	<ul style="list-style-type: none"> <li>• Set the AV/SYNC to "OFF".</li> </ul>	<a href="#">24</a>

## Sound is interrupted or there is noise

Check if:	Possible Solution/Other	Page
The sound is a digital sound not supported by the unit.	<ul style="list-style-type: none"> <li>• Check if it is a digital sound supported by the unit.</li> </ul>	<a href="#">22</a>

## The sound is output from both the unit and the TV

Check if:	Possible Solution/Other	Page
The settings for the connected equipment are not correct.	<ul style="list-style-type: none"> <li>• Check the HDMI link setting for the TV. Refer to the operating instructions supplied with the TV.</li> </ul>	–

## Picture and sound are delayed

Check if:	Possible Solution/Other	Page
The input source has been changed; or the speakers have been changed to the TV speakers.	<ul style="list-style-type: none"> <li>• It may take some time to output the picture and sound after the input source or speakers were changed. Particularly when the HDMI input was changed, it may take a few seconds or minutes until the picture and sound are output due to communication between the connected equipment.</li> </ul>	–

## HDMI related problems

### Linked operation is not available between the connected equipment

Check if:	Possible Solution/Other	Page
The connections are incorrect.	<ul style="list-style-type: none"> <li>• Connect the equipment correctly using a standard HDMI cable with the HDMI logo. Make sure that all the equipment is properly linked when you connected the equipment for HDMI link for the first time or after changing any settings.</li> </ul>	<a href="#">16</a>
The equipment used is not recommended equipment.	<ul style="list-style-type: none"> <li>• Not all the operations are available even if the equipment used is recommended equipment. Use the unit's remote control if this equipment cannot be operated with the TV remote control.</li> </ul>	–
The settings on the unit and the connected equipment are incorrect.	<ul style="list-style-type: none"> <li>• Check the HDMI link settings on the connected equipment. (Refer to their respective operating instructions.)</li> <li>• Check the "HDMI LINK" setting on the unit.</li> </ul>	– <a href="#">23</a>
The power of the unit is turned off.	<ul style="list-style-type: none"> <li>• The power link function does not work on the CEC compatible equipment (e.g. TV) when the power of the unit is turned off.</li> </ul>	<a href="#">19</a>

## If the TV is turned off (or set to standby mode), the unit also turns off (or goes into standby mode)

Check if:	Possible Solution/Other	Page
The power link function is set to ON for the TV under HDMI link settings.	<ul style="list-style-type: none"> <li>• Check the HDMI link settings on the TV. (For more information, refer to the operating instructions of the TV.)</li> <li>• When you are not going to use the CEC function, select "LINK OFF" under "HDMI SET".</li> </ul>	<p>–</p> <p><a href="#">23</a></p>

## The unit does not turn on automatically even if the TV is turned on

Check if:	Possible Solution/Other	Page
The power link function is set to OFF for the TV under the HDMI link settings.	<ul style="list-style-type: none"> <li>• Check the HDMI link settings on the TV. (For more information, refer to the operating instructions of the TV.)</li> <li>• When you want to use the CEC function, select "LINK ON" under "HDMI SET".</li> </ul>	<p>–</p> <p><a href="#">23</a></p>

## When an Error Message is Displayed

● Representative error messages are described below.

Error message shown on the display panel	Possible cause	Possible Solution/Other	Page
<div style="border: 1px solid black; padding: 2px; text-align: center; font-family: monospace; font-size: 1.2em;">H 1 0 1</div> <p>"H101" flashes</p>	HDMI connection error	<ul style="list-style-type: none"> <li>● Disconnect and reconnect the HDMI cable; or turn the power of the unit and the connected equipment off and on again.</li> </ul>	<p><a href="#">16</a></p> <p><a href="#">19</a></p>
<div style="border: 1px solid black; padding: 2px; text-align: center; font-family: monospace; font-size: 1.2em;">H 1 0 2</div> <p>"H102" flashes for about 5 seconds and then goes off.</p>	HDMI connection error	<ul style="list-style-type: none"> <li>● Disconnect and reconnect the HDMI cable; or turn the power of the unit and the connected equipment off and on again.</li> </ul> <p>If the error persists, inform your dealer of the error message and consult them for repair.</p>	<p><a href="#">16</a></p> <p><a href="#">19</a></p>
<div style="border: 1px solid black; padding: 2px; text-align: center; font-family: monospace; font-size: 1.2em;">D 1 0 1</div> <p>"D101" flashes for about 5 seconds and then goes off.</p>	Internal digital signal processing error	<ul style="list-style-type: none"> <li>● Turn the power of the unit and the connected equipment off and on again.</li> </ul> <p>If the error persists, inform your dealer of the error message and consult them for repair.</p>	<p><a href="#">19</a></p>
<div style="border: 1px solid black; padding: 2px; text-align: center; font-family: monospace; font-size: 1.2em;">D 1 0 2</div> <p>"D102" flashes</p>	A signal not recognized or supported by the unit is input.	<ul style="list-style-type: none"> <li>● Check the decoder and sound types supported by the unit.</li> </ul>	<p><a href="#">22</a></p>
<div style="border: 1px solid black; padding: 2px; text-align: center; font-family: monospace; font-size: 1.2em;">E 1 0 1</div> <p>"E101" lights up for about 1 second and then goes off.</p>	Internal error	<ul style="list-style-type: none"> <li>● Turn the power of the unit off and on again.</li> </ul> <p>If the error persists, inform your dealer of the error message and consult them for repair.</p>	<p><a href="#">19</a></p>
<div style="border: 1px solid black; padding: 2px; text-align: center; font-family: monospace; font-size: 1.2em;">S 1 0 1</div> <p>"S101" lights up for about 1 second and then goes off.</p>	Power error	<ul style="list-style-type: none"> <li>● Turn off the unit and connected equipment, then disconnect the power cord from the wall outlet. Inform your dealer of the error message and consult them for repair.</li> </ul>	<p>–</p>

## If an error message appears frequently or if the error message does not go off even after the above measures are taken

- There are various possible causes for unit failure, defective cables and connection compatibility between the unit and the connected equipment.  
Check the symptoms and contact the "FORMOSA PROSONIC INDUSTRIES BERHAD" (see the back cover).  
When you contact the service center, provide the service personnel with detailed information on the error message and symptoms.
- Disconnecting the power plug while the unit is ON can cause severe damage to the unit. Be sure to turn the unit off before disconnecting the power plug.

# Glossary

## ●5.1-channel surround

The “monaural” and “stereo” systems use one and two speakers respectively to reproduce sounds. Meanwhile, 5.1-channel surround uses five speakers and one subwoofer for sound output. The name “5.1-channel surround” originates from its sound reproduction method using all of five channels consisting of one center speaker, two front speakers and two side or rear surround speakers; as well as 0.1 channel of subwoofers which generates a narrower sound field than other speakers. You can enjoy 5.1-channel like surround effect from this product using the DOLBY VS (DOLBY Virtual Speaker).

## ●AAC

AAC is an audio compression format which was declared an international standard. It is adopted for “MPEG-2”, an image compression format for terrestrial digital/BS/CS broadcasting. AAC’s compression efficiency is about 1.4 times higher than “MP3”, an audio compression format adopted for MPEG-1.

## ●ARC (Audio Return Channel)

ARC is a function to transmit the digital sound such as Dolby Digital and AAC from the receiving component (TV, etc.) to the transmitting component (AV amplifier, etc.) via an HDMI cable.

Conventionally, the TV and amplifier need to be connected with an optical digital cable in order to output the sound from a TV tuner to an amplifier. Between ARC-compatible equipment, sound can be transmitted using only an HDMI cable.

## ●Bitstream

Digital Audio Signal Format as PCM, Dolby, DTS etc.

## ●Decoder

A decoder is a device to decompress the sound compressed by DOLBY DIGITAL and DTS systems into its original sound.

## ●DOLBY DIGITAL

DOLBY DIGITAL is a digital sound system for theatrical applications such as cinemas, which is adopted as a standard audio format for DVDs. It delivers the highest quality sounds.

## ●Dolby Digital Plus

Dolby Digital Plus is based on core Dolby Digital technologies. & an advanced surround sound audio codec designed specifically for evolving media. From home theatres and PCs to mobile phones and online streaming, Dolby Digital Plus defines high-fidelity audio.

## ●Dolby Pro Logic II

Dolby Pro Logic II converts 2-channel audio into a surround sound by signal processing. With this technology, stereo audio sources such as music CDs and old movies can be enjoyed with a natural surround effect without spoiling the original sound.

## ●Dolby True HD

Dolby TrueHD Produces 100 percent lossless audio that is identical to the studio master. Offer high quality sound by high bit rate & high sampling frequency from Blu-ray & HDMI.

## ●Dolby Virtual Speaker

With Dolby Virtual Speaker, three-dimensional virtual surround like 5.1-channel audio can be enjoyed with a 3.1-channel system.

## ●DTS

DTS is a digital sound system for theatrical applications developed by DTS Inc. It delivers a dynamic surround.

## ●DTS 96/24

DTS 96/24 offers a higher quality level on multi-channel audio (up to 5.1 channels) for standard DVDs. The “96” refers to a 96kHz sampling rate (compared to the typical 48kHz sampling rate.) The “24” refers to 24-bit depth, compared to 16-bit depth used for CD sound, which means there is more audio information present. Like the other DTS extensions, DTS 96/24 is backward-compatible.

## ●DTS-HD High Resolution Audio

DTS-HD High Resolution Audio delivers a high definition reproduction of the original studio master by a constant bit-rate, and is fully backward-compatible with all DTS decoders.

## ●DTS-HD Master Audio

DTS-HD Master Audio provides lossless audio that matches, bit-to-bit, the original movie’s studio master soundtrack and is fully backward-compatible with all DTS decoders.

## ●DTS Neo:6

DTS Neo:6 is a function developed by DTS Inc. to deliver sounds derived from a 2-channel source in multi-channel with advanced processing.

## ●HDMI (High-Definition Multimedia Interface)

HDMI is a digital audio/video interface that connects high-definition video signals, multi-channel audio signals and control signals supporting two-way transmissions with a single cable. High-definition images and sounds can be enjoyed just by a simple connection since the digital signals are not compressed for transmission.

## ●HDMI CEC function

HDMI CEC Link is a function to control HDMI CEC Link compatible TVs, BD/DVD players and audio amplifiers mainly using the HDMI CEC (Consumer Electronics Control) technology. Users are able to use the TV remote control to power ON/OFF, control the volume and mute the unit in a linked manner with the connected LCD/LED TV.

## ●Linear PCM (L-PCM)

Linear PCM is an uncompressed sound signal converted to digital format. Multi-channel L-PCM which delivers sounds of higher quality is used for Blu-ray discs and DVDs.



**●PCM**

PCM is a format to convert an analog sound signal into a digital signal. It encodes analog signals into digital format and involves no compression process. The signal converted by this method is called PCM signal and used for music CDs and DVDs.

**●Sampling frequency**




Sampling is recording sound waves (analog signals) at regular intervals and digitalizing the height of the sound waves.

The number of samples obtained in one second is called the sampling frequency. As the sampling frequency gets higher, the sound closer to the original can be reproduced and higher sound quality can be achieved.

**●Sound modes**

These are the sound modes that are pre-adjusted to the recommended level to achieve the optimal sound quality. Users can select their desired sound modes to enjoy dramas, music and sports programs.

# Specifications

<b>Type</b>		IGO HOME THEATRE RACK SYSTEM	
<b>Model</b>		HAV-R400G	HAV-R500G
<b>AC power source</b>		AC 120V 60Hz	
<b>Power consumption</b>		75 W Standby mode: 0.65 W <sup>*1</sup> ; Power off: 0.4 W	
<b>Dimensions (W × D × H) (Approx.)</b>	<b>inch</b>	55 3/16" × 15 13/16" × 19 1/2"	63 1/16" × 17 15/16" × 19 1/2"
	<b>mm</b>	1402 mm × 402 mm × 496 mm	1602 mm × 456 mm × 496 mm
<b>Maximum load</b>	<b>Top board</b>	Max. 176 lb (80 kg)	Max. 264 lb (120 kg)
	<b>Shelf board</b>	Max. 26 lb (12 kg)	
	<b>Bottom board</b>	Max. 44 lb (20 kg)	
<b>Mass (Approx.)</b>		133 lb (60.5 kg)	168 lb (76.2 kg)
<b>Speakers</b>	<b>Left</b>	Cone type; Full Range 3" (80 mm) 6 Ω + Dome Tweeter 1" (30 mm) 6 Ω	
	<b>Center</b>	Cone type; Full Range 3" (80 mm) 6 Ω	
	<b>Right</b>	Cone type; Full Range 3" (80 mm) 6 Ω + Dome Tweeter 1" (30 mm) 6 Ω	
	<b>Subwoofer</b>	Cone type; Subwoofer 6" (160 mm) 6 Ω × 2	Cone type; Subwoofer 10" (250 mm) 6 Ω × 2
<b>AMP Output Power</b>	<b>For USA Model Power output and total harmonic distortion (FTC)</b>	Front L + Front R: With 6 Ω loads, both channels driven, from 150-20,000 Hz; rated 47 W per channel minimum RMS power, with no more than 1 % total harmonic distortion from 250 mW to rate output.	
	<b>Power output (Rated)</b>	Front L + Front R: 49 W + 49 W (at 6 Ω, 1 kHz 1 % THD)	
	<b>Power output (Reference)</b>	Front L / Front R: 58 W (per channel at 6 Ω, 1 kHz) Center: 58 W (at 6 Ω, 1 kHz) Subwoofer: 110 W (at 3 Ω, 100 Hz) Total power: 284 W	
<b>Input/Output Terminal</b>	<b>HDMI IN 1 to 3</b>	HDMI 	
	<b>HDMI OUT</b>	HDMI (ARC <sup>*2</sup> ) 	
	<b>Optical digital audio IN (TV/optical digital)</b>	S/PDIF (OPTICAL)	
	<b>Analog audio input jack</b>	Pin jack (200 mV(rms), 22 kΩ and above) × 2	
<b>Operating environment conditions</b>		Temperature: 32 °F to 104 °F (0 °C to 40 °C); Relative humidity: 20 % to 80 % (no condensation)	
<b>Accessories</b>		See "Supplied Accessories" 	

\*1:When HDMI PASS THRU function  is not used.

\*2:ARC function is available only through an HDMI output jack.

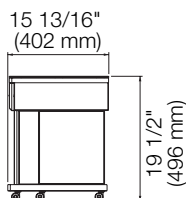
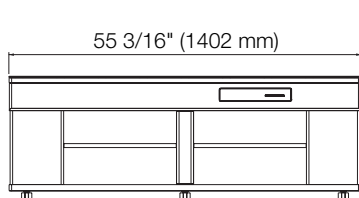
- Design, specifications and software used are subject to change without prior notice for product improvement.
- The material designation of major plastic parts of this product are indicated for recycling purpose.
- Some exaggerations and omissions are made to the illustrations and monitor displays featured in these instructions to facilitate understanding. Actual items may vary from the illustrations.

## ■ HDMI input/output signal timing

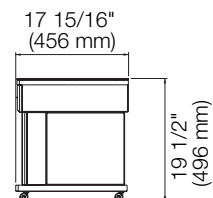
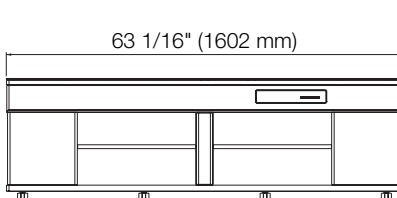
- 480i, 480p, 1080i, 720p, 1080p, VGA (640×480), SVGA (800×600), XGA (1024×768), WXGA (1280 × 768, 1360 × 768), SXGA (1280 × 1024)

## ■ External dimensions – Unit: inch (mm)

### HAV-R400G



### HAV-R500G



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Website : <http://www.igoaudio.com/>