

# HITACHI

Color Plasma Television

Model Name  
**42PD9500TA**

**USER'S MANUAL**

用戶手冊

用戶手冊

**РУКОВОДСТВО ПОЛЬЗОВАТЕЛЯ**



This is the image of the model 42PD9500TA.  
Desktop stand shown above is optional.



READ THE INSTRUCTIONS INSIDE CAREFULLY.  
KEEP THIS USER'S MANUAL FOR FUTURE REFERENCE  
For future reference, record the serial number of your television.  
SERIAL NO. \_\_\_\_\_

This serial number is located on the rear of the television.

ENGLISH

# USER'S MANUAL

Thank you for purchasing the HITACHI Plasma Television.  
Please read this user's manual carefully before  
operating this product.

To ensure proper operation, please read and follow ALL  
the instructions, especially the "IMPORTANT SAFETY  
INSTRUCTIONS" and "SAFETY PRECAUTIONS".  
Please keep this user's manual for future reference.

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## IMPORTANT SAFETY INSTRUCTIONS

- Read this instruction thoroughly.
- Retain this instruction for future reference.
- Heed all warnings and cautions to prevent possible danger.
- Follow all instructions. Improper handling could cause personal injury and/or serious damage to the unit that may shorten its service time.
- Do not block any ventilation openings.
- Install the product in accordance with the manufacture's instructions.
- Before calling for the technical support or service technician, read "TROUBLESHOOTING" (39, 40) to determine the symptoms when problems occur during installation or operation of the product.
- If serious problems happen (such as smoke or an abnormal odor from the unit), turn off the Main Power, unplug the Power Cord, and then, contact your local dealer immediately.

## INTRODUCTION

Thank you for purchasing the HITACHI Plasma Television. We hope that you will enjoy the great performance with this product.

This Plasma television has been designed to meet the international standards. However, it could cause personal injuries and property damage if improperly handled. In order to prevent potential danger and obtain maximum benefit from your set, please observe the following instructions when installing, operating, and cleaning the product. Keep this manual for future reference, and record the serial number of your set in the space provided on the front cover page of this manual.

ENGLISH

## About This Manual

- The information in this manual is subject to change without notice.
- This manual has been created with extra care. In case that you have any comments or questions regarding this manual, please contact your local dealer or our Customer Service Center.
- Before operating this set, please fully understand the prerequisite such as specifications or constraints of the hardware and software. We are not responsible and have no liability for any loss, damage or injury as a result of misuse.
- Reproduction, copying, use, modification, and/or transmission in whole or in part of this manual are prohibited without any prior written permission.
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- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

Even if no special notation has been made of company or product trademarks, these trademarks have been fully respected.

## About Software



You may not alter, decompile, disassemble, decrypt, or otherwise reverse-engineer the Software installed in this product, which are prohibited by law.




## SAFETY PRECAUTIONS






For your safety, please read the following precautions carefully before using this product. Improper use would cause serious personal injuries and/or damage to your property or this product.

### About the Symbols

The following are the symbols used in this manual and affixed on the unit itself. Please fully understand the meanings of the symbols before reading the instructions in this section.

 <b>WARNING</b>	Never ignore the instruction. There are risks of serious injuries or possible death to the user.
 <b>CAUTION</b>	Do not ignore the instruction. There are possibilities of personal injuries and/or property damage.

Other Symbols	
	The triangle with illustration is intended to alert the users that there are possibilities of fire, explosion, or high temperatures if the product is handled improperly. Each illustration within the triangle specifies the contents in detail. (The figure on the left is an example.)
	The circle with diagonal line and illustration indicates a prohibited action (the symbol to the left indicates that disassembly is prohibited).
	This symbol indicates a compulsory action. The contents will be clearly indicated in an illustration or nearby (the symbol to the left indicates that the power plug should be disconnected from the power outlet).

 <b>WARNING</b>	
<b>There is a risk of fire, electric shock, or serious injury.</b>	
<p>■ <b>Unplug the power cord immediately when serious problems occur.</b></p> <p>Serious problems such as</p> <ul style="list-style-type: none"> <li>• Smoke, abnormal odor or noise comes out from the product.</li> <li>• No picture, no sound or distorted picture on the display.</li> <li>• Foreign objects (such as water, metals etc.) get inside the unit.</li> </ul> <p>Do not continue using the product under these abnormal conditions. Turn off the Main Power, unplug the Power Cord, and contact your dealer immediately.</p> <p><b>For your safety, never try to repair the product by yourself.</b></p>	 Disconnect the plug from the power outlet.
<p>■ <b>Do not insert liquids or any foreign objects (such as metals or flammable items) inside the unit.</b></p> <ul style="list-style-type: none"> <li>• In case it happens, turn off the main power, unplug the Power Cord, and contact your dealer immediately.</li> <li>• Use special caution when younger children are around the unit.</li> </ul>	
<p>■ <b>Do not remove cover, or modify the product.</b></p> <ul style="list-style-type: none"> <li>• High-voltage components are installed inside of the unit. Removing covers can expose you to high voltage, electrical shock, and other dangerous conditions.</li> <li>• Contact your local dealer to perform servicing such as inspection, adjustment, or repair work.</li> </ul>	  Do not disassemble

## SAFETY PRECAUTIONS (continued)

ENGLISH

### WARNING

**There is a risk of fire, electric shock, or serious injury.**

■ **Install the unit at a proper area where it does not expose anyone to any danger.**

- If you hit against the edge of the unit, you may be injured.



■ **Do not place any objects on top of the unit.**

Objects such as

- Liquid containers (vase, fish tank, flowerpot, cosmetics or liquid medicine).
- If water or any liquid spill onto the unit, it may cause short-circuit and result in fire or electrical shock.
- In case that it happens, turn off the Main Power, unplug the Power Cord, and contact your dealer immediately.
- Do not place anything heavy on top of the unit.
- Do not climb on or hang from the unit.
- Do not let your pets get on top of the unit



■ **Do not expose this unit to rain or moisture.**

- Never use this unit in the bathroom or shower room.
- Beware when you use this product outside, especially in rainy, or snowy weather, and at the beach or waterfront.
- When the product gets wet, it could cause fire or electrical shock.



■ **Unplug this unit during lightning storm.**

- To reduce the risk of electrical shock, do not touch the product when starts lightning.



Disconnect the plug from the power outlet.

■ **Do not do anything that may damage the Power Cord.**

- Do not damage, modify, twist, forcibly bend, heat, or pull excessively the Power Cord.
- Do not place heavy objects (including the unit itself) on top of the Power Cord.
- If the Power Cord is damaged, contact your dealer for repairs or exchange.



■ **Use only with designated power supply voltage.**

- To prevent the risk of fire and electrical shock, operate this product only with the power supply voltage indicated on the unit.



■ **Beware not to drop or have any impact on the unit.**

- Take extra care while moving the unit.
- The plasma display panel is made of glass. In case that it breaks, you may be injured by the broken pieces.
- In case that you drop the unit or the cabinet is damaged, turn off the Main Power, unplug the Power Cord and contact your local dealer immediately.
- Continuing use of the product with above conditions may cause fire or electrical shock.



■ **Clean dust or metals on or around the blade of the power plug regularly.**

- Continuing use of the product with above condition may cause fire or electrical shock.
- Always unplug the Power Cord first, and clean the blades with a dry cloth.

















■ **Do not place the unit on an unstable surface.**

Unstable places such as

- Tilted surface or shaky rack, table, stand or trolley.
- If the unit falls down, it could cause personal injury.



## SAFETY PRECAUTIONS (continued)

 <b>CAUTION</b>	
<p>■ <b>Do not place the unit at a dusty place.</b> It could cause malfunction.</p>	
<p>■ <b>Do not cover or block any ventilation holes on the product.</b> The unit would overheat, and it could cause fire or damage the product which may shorten its service life.</p> <ul style="list-style-type: none"> <li>• Install the product in accordance with the instructions in this manual.</li> <li>• Do not place the unit with ventilation side down.</li> <li>• Do not install the unit on the carpet or bedclothes.</li> <li>• Do not cover the unit with table cloth etc.</li> </ul>	
<p>■ <b>Be sure to ground the earth cable correctly.</b></p> <ul style="list-style-type: none"> <li>• Especially when you use Power Cord adapter, be sure to connect the earth cable to the ground terminal. Incorrect connection would cause fire or electrical shock.</li> <li>• For your safety, always make sure to unplug the Power Cord before connect or disconnect the earth cable .</li> </ul>	 Supply connect the ground wire.
<p>■ <b>Follow the Anti-tumble measures in this manual.</b></p> <ul style="list-style-type: none"> <li>• If the unit tumbles over, there is a risk of personal injury and possible death. Also, it would damage the product seriously.</li> </ul>	
<p>■ <b>Do not install the unit near the medical devices.</b></p> <ul style="list-style-type: none"> <li>• To prevent malfunction of the medical devices, do not use this product and medical devices in the same room.</li> </ul>	
<p>■ <b>Do not place a CRT-based television near the speakers of the Plasma Television.</b></p> <ul style="list-style-type: none"> <li>• It could cause the partial discoloration or blurring of the image on the CRT-based television. Please install it away from the speakers of the unit.</li> </ul>	
<p>■ <b>Disconnect all of the external connection cables and detach the anti-tumble measures before moving the unit.</b></p> <ul style="list-style-type: none"> <li>• It may cause fire, electrical shock, or personal injuries.</li> </ul>	
<p>■ <b>Connect the power plug securely.</b></p> <ul style="list-style-type: none"> <li>• Improper connection will cause overheating and may result in fire.</li> <li>• Do not touch the blades of the plug while connecting it to the wall socket. It could cause electrical shock.</li> <li>• If the plug is not fitted for the wall socket, contact your dealer for replacement.</li> </ul>	 
<p>■ <b>Do not handle the Power Cord with wet hands.</b></p> <ul style="list-style-type: none"> <li>• It could result in electrical shock.</li> </ul>	
<p>■ <b>Do not pull the cord when you unplug the Power Cord.</b></p> <ul style="list-style-type: none"> <li>• It may damage the cord and could result in fire or electrical shock.</li> <li>• Hold the plug when disconnecting it.</li> </ul>	
<p>■ <b>Unplug the Power Cord when you do not intend to use the product for long periods of time.</b></p>	
<p>■ <b>Handle the batteries properly.</b></p> <ul style="list-style-type: none"> <li>• Improper or incorrect use of the batteries may cause corrosion or battery leakage, which could cause fire, personal injury or damage to the property.</li> <li>• Use only the types of the batteries which are indicated in this manual.</li> <li>• Do not install new batteries with used ones.</li> <li>• Install the batteries correctly by following the polarity (+ and -) indications on the battery compartment.</li> <li>• Do not dispose of the used batteries as domestic waste. Dispose of them in accordance with the local regulations.</li> </ul>	

## SAFETY PRECAUTIONS (continued)

### PRECAUTIONS

ENGLISH

#### ■ Do not install the unit at areas where it will be subjected to high temperatures.

It could damage the cabinet or parts of the product.

- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
- Keep the unit out of direct sunlight. It could increase the temperature of the unit and cause malfunction.



#### ■ Motor Fan

- The TV has motor fan to lower its temperature, and the fan may produce noise during its operation. This is not a malfunction.

#### ■ Viewing Advice

- The lighting of the environment in which the product is used should be appropriate. Too bright / dark environments are not good for your eyes.
- Take time to relax your eyes occasionally.
- When you use this product, view from a distance equal to 3 to 7 times the height of the screen. This is the best viewing distance in order to protect your eyes against eyestrain.
- Adjust the volume to an appropriate level, especially during the night.

#### ■ When transporting this product:

- When the product needs to be transported due to moving or repair, use the carton box and buffer material that came with this product.
- Do not transport this product on its side. It could damage the panel glass or degrade the phosphors of the panel.



#### ■ Keep radios away from the unit while in use.

This unit is designed to meet the international EMI standards due to prevent radio interference. However, the unit may generate noise in the radio.

- If the noise is heard on the radio, please try the following actions.
  - Adjust the direction of the radio antenna in order not to receive the interference from the unit.
  - Keep the radio away from the unit.
  - Use coaxial cable for the antenna.



#### ■ About infrared communication devices:

- The infrared communication devices such as cordless microphones or cordless headphones may not operate properly around the unit. It is because of communication failure. Please note that this is not malfunction.

#### ■ When you dispose of this product at the end of its life, follow the regulations in your residential area.

- For more information, contact the local authority or the dealer where you purchased the product.

## Cleaning and Maintenance

Please make sure to unplug the power cord before cleaning the unit.

#### ■ How to clean the plasma screen panel of the unit.

- The panel surface is specially-coated to reduce the reflection and cut infrared radiation; thus, wipe the panel with a lint-free and dry cloth in order to prevent damage to the coating.
- Do not use a chemical cloth or cleaner. Depending on the ingredients, it may cause discoloration and damage on the coating.
- Do not wipe with a hard cloth or rub hard. It may hurt the coating.
- In case of the greasy dirt such as fingerprint, wipe with a lint-free cloth moistened by a diluted neutral detergent solution, and then wipe with a soft and dry cloth.
- Do not use a spray cleaner. It could remove the coating or cause malfunction by entering inside of the unit.

#### ■ How to clean the cabinet of the unit.

- The following may cause crack, deformation, and paint peeling.
  - Do not wipe the cabinet with benzene, thinner, and other chemical products.
  - Do not spray volatile solutions such as insecticide over the cabinet.
  - Do not leave the cabinet in prolonged contact with plastic or rubber materials.
- Do not use a chemical cloth, cleaner or wax. Depending on the ingredients, it may cause crack and deformation.
- Use a lint-free cloth to clean the cabinet and control panel of the unit. In case of the heavy dirt, wipe with a soft cloth moistened by a diluted neutral detergent solution, and then wipe with a soft and dry cloth.
- Never use the following detergents. It could cause crack, discoloration, and scratch.
  - Acid/alkaline detergent, alcoholic detergent, abrasive cleaner, powder soap, OA cleaner, car wax, glass cleaner, etc.



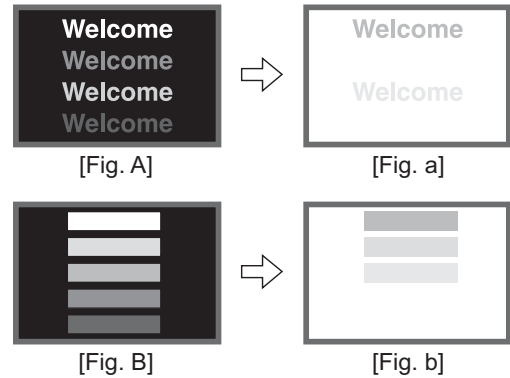
## ABOUT PLASMA DISPLAY PANEL

### Image Retention of Plasma Display

The plasma display has one of characteristics that results in panel image retention depending on how the plasma display is used. The following are the common reasons for and effective preventive measures against the image retention.

#### Characteristics of Image Retention

- Image retention is caused by partial degrading the phosphor due to the partial display of character and figure.
  - For example, when the characters as shown in Fig. A are displayed continuously for a long period of time, only the phosphors (Red/Green/Blue) displaying the characters are degraded. Consequently, when displaying an all white image on the entire screen as shown in Fig. a, the marks remaining by the characters will show color differences; therefore, note that it is not burnt remains of the phosphors.
- The degree of image retention is proportional to the Brightness and Display Time for the characters and/or figures.
  - The brighter the characters and figure, the more phosphor is degraded. As shown in Fig. B, in case of displaying images that have different brightness each for a long time, Fig. b shows that the brighter the image, the more it tends to remain.



\* The illustrations are images to explain image retention. The actual manners on the image retention vary depending on such conditions as operation time and brightness.

#### Method to Reduce Image Retention

- Use "Screen Wipe" function on the display, which are available from Function Menu. (Refer to [25](#).)  
After displaying certain images such as still image for a long time, "Screen Wipe" can be used to reduce the image retention by displaying a completely white screen for about 1~2 hours.
- Use in combination with moving images.  
Since the entire screen has relatively even degradation of the phosphor in moving images, it can reduce the partial image retention. We recommend to use together with such moving images as DVD.
  - Please be careful that leaving the images in freeze mode for a long period of time can cause image retention.
  - Some television broadcasts contain images of which cut the left/right or top/bottom, and in which broadcast station identity or a clock is displayed for a long time at the same position. Please be aware that it may cause image retention.

### Common Characteristics of Plasma Display Panels

The following are the common characteristics of Plasma Display Panels due to structural reasons. Please note that they are not malfunctions.

#### • Residual image

When a still image or menu is displayed on the screen for a short time (about a minute) and then switches to another image, it may leave an "after-image" on the screen.

The residual image will disappear on its own.

#### • Surface on Panel

The plasma panel displays images by generating discharges internally. This could raise the temperature of the display surface. In addition, do not allow any forceful impact to the surface of panel because plasma panel is fine-processing glass even though the panel strengthens by the front filter made of tempered glass.

#### • Defective Pixels on Panel

The plasma display panel is manufactured with high-precision technology. However, there might be some pixels that do not light, are brighter than the others, or in different colors, etc.

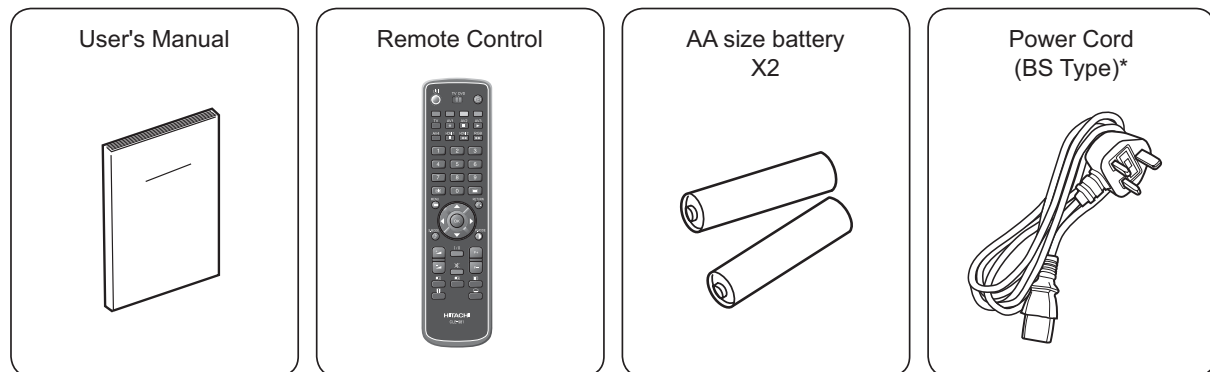
## FEATURES

Enjoy not only beautiful and high-quality pictures on the display, but also various kinds of useful and convenient functions in your daily life!

- Large-screen and high-definition plasma display.
- Enjoy high resolution display with 1024 (H) x 1080 (V) pixels.
- Improved Digital signal processor.
- High quality sound with deeper, richer and dynamic bass tones.
- Accept more digital input devices with 2 HDMI terminals.
- Great diversity of connecting terminals to cover wide range of audio-visual equipments.
- Easy-to-use On-Screen Display system operating with Remote control.
- Low power consumption with Power Saving feature.

## SUPPLIED ACCESSORIES

Check the supplied accessories before installation.  
In case of missing or damaged, please contact the dealer immediately.



\*The type of power plug provided may be different from this drawing for some countries.

## OPTION

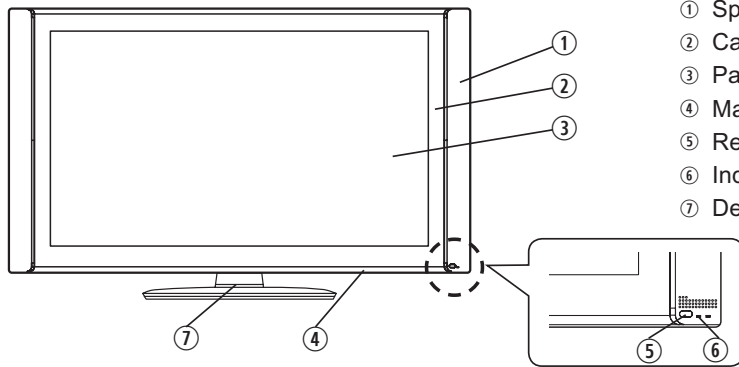
Ask your local dealer for further details.

Desktop Stand : SD9G4200

# COMPONENT NAMES

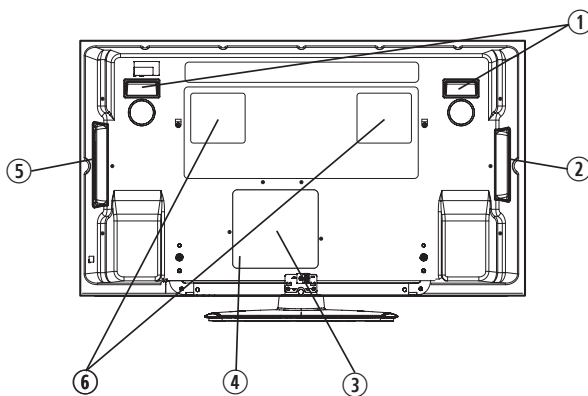
## Main Unit

### Front Panel



- ① Speaker
- ② Cabinet
- ③ Panel
- ④ Main Power Switch (on the bottom surface)
- ⑤ Remote Control Receiver
- ⑥ Indicating Lamp
- ⑦ Desktop Stand (option)

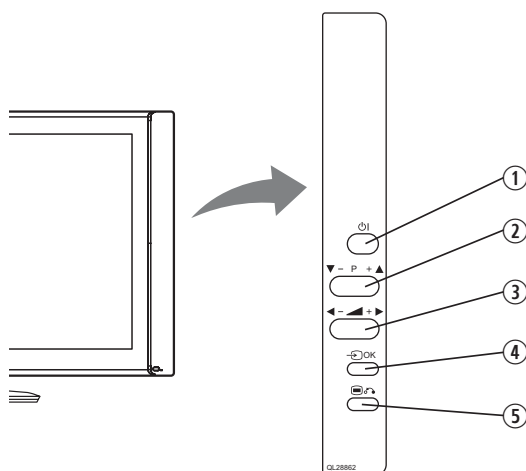
### Rear Panel



- ① Handgrips
- ② Side Input
- ③ Terminal Board (External Device Connection)
- ④ Power Cord Socket
- ⑤ Control Panel (see below for details)
- ⑥ Motor Fan

Please refer to **13**~**17** for the detailed information for the connections.

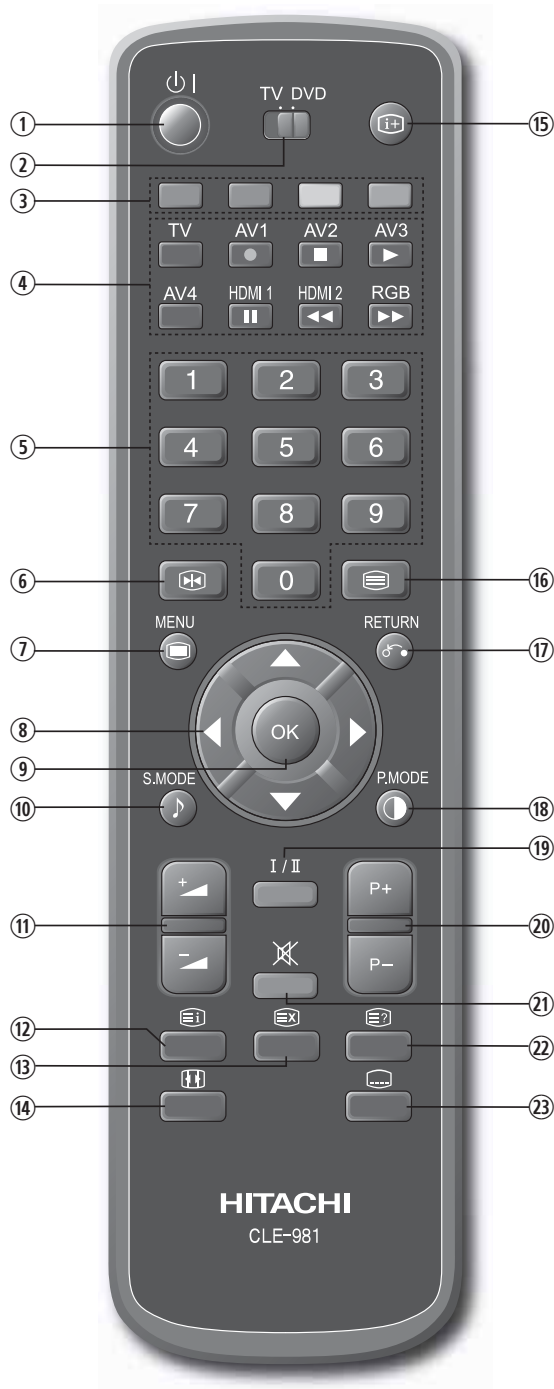
### Control Panel



- ① Sub Power button
- ② Channel Up Down/▲▼ button
- ③ Volume Up Down/◀▶ button
- ④ Input Select /OK button
- ⑤ Menu/Return button

## COMPONENT NAMES (Continued)

### Remote Control



- ① **Sub Power**
- ② **Function Select (TV/DVD)**  
Switch between TV and DVD.
- ③ **[Color (Red, Green, Yellow, Blue)]**
- ④ **Input Select/DVD Control**  
Press this button to change input mode.  
In addition, you can use these buttons while operating the selected brand of DVD player.
- ⑤ **Program Select**  
Press these buttons to select a TV program directly. For 2 or 3 digits channel selection, press **[0]** in advance.  
Refer to **[22]** for details.
- ⑥ **Freeze [Hold]**  
Press this button to change the picture to freeze mode. Press it again to return to normal picture. (Also, it holds the page in teletext mode.)
- ⑦ **Menu**
- ⑧ **Cursor**
- ⑨ **OK**
- ⑩ **Sound Mode**  
Sound mode can be changed each time pressed in the following sequence. Movie→Music→Speech→Favorite
- ⑪ **Volume Up/Down**
- ⑫ **[Index]**
- ⑬ **Time [Cancel]**  
Press this button to display the time when receiving a TV program.  
The time is not displayed if the signal received does not have any time information.
- ⑭ **Zoom [Text↔TV+Text]**  
Press this button to change picture size.
- ⑮ **Recall**  
Press this button to show the input signal status.
- ⑯ **TV/Text [TV↔Text]**  
This switches between the TV mode and the Teletext mode.
- ⑰ **Return**  
You can use this to return to the previous menu.
- ⑱ **Picture Mode [Page Select]**  
Picture mode can be changed each time pressed in the following sequence. Dynamic→Natural→Cinema
- ⑲ **CHI/II**  
This is exclusively for TV audio A2/NICAM mode.
- ⑳ **Channel Up/Down [Page Select]**
- ㉑ **Mute**
- ㉒ **[Reveal]**
- ㉓ **[Subtitle]**

**NOTE**

Some buttons are only for Teletext mode, and other buttons have different functions in Teletext mode from the use of TV mode. Those buttons are indicated by [ ]. Refer to "About Teletext" on **[32]**.

The "RGB" of **[RGB]** button might not be printed on the remote control depending on a model.

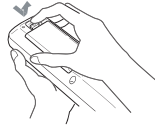
## PREPARATION

### Remote Control Batteries Installation

This remote control operates on 2 “AA” batteries.

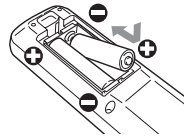
#### 1. Open the battery cover.

- Push up and remove the battery cover in the direction of the arrow.



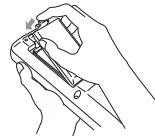
#### 2. Load batteries.

- Load two Size AA batteries included observing the correct polarities. When loading batteries, press the side of ⊖ polarity into the tip of spring.



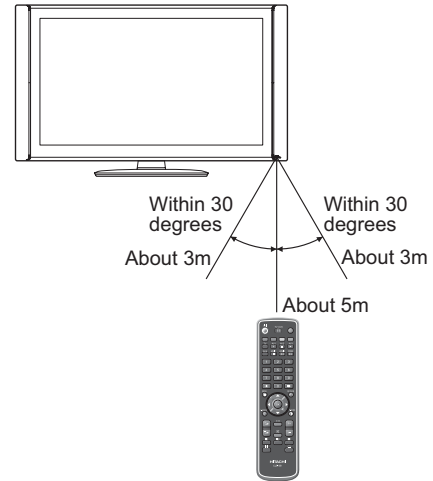
#### 3. Close the battery cover.

- Replace the battery cover in the direction of the arrow and snap it back into place.



### Handling the Remote Control

Use the remote control within about 5m from front of the unit's remote-control sensor and within 30 degrees on both sides.



### ⚠ CAUTION

**It could cause corrosion or battery leakage and may result in physical injury and/or property damage including fire.**

- Never mix used and new batteries in the device.
- Replace all the batteries in a device at the same time.
- Remove the batteries if the remote control is not going to be used for an extended period of time.

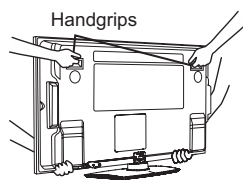
**To avoid possible failure, read the following instructions and handle the remote control properly.**

- Do not drop or cause impact to the remote control.
- Do not spill water or any liquid on the remote control.
- Do not place the remote control on a wet object.
- Do not place the remote control under the direct sunlight or near sources of excessive heat.

### Caution When Moving the Main Unit

As this product is heavy, whenever it is moved, two people are required to transport it safely.

Whenever the unit is moved, it should be lifted forwards using the two handgrips at the back, and the unit should then be held at the base on both sides for stability.



## PREPARATION (continued)

### Safety Precaution on Main Unit Installation

#### Read SAFETY PRECAUTIONS ( 3 to 6 ) carefully besides this page.

\*When installing the unit, use the optional Desktop Stand (SD9G4200). Please refer to the user's manual of the stand. The Desktop Stand (Option) has been used for the illustration in this manual.

When installing the main unit, be sure to use the specified mount units in order to obtain maximum performance and maintain the safety.  
We assume no responsibility or liability for personal injuries or property damages caused by use of other mount units or improper installation.

As for the installation instruction, please read each user's manual of the mount units: for Desktop Setup, Wall Mounting, and Ceiling Mounting.

In case of using Wall or Ceiling Mounting unit, by contacting your local dealer, ask the specified installation specialist to set up. Never attempt to install it by yourself. It could cause injuries or damages.

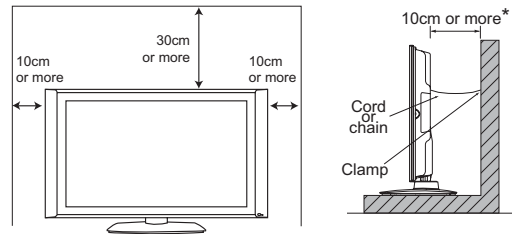
Please leave the adequate space around this unit in order to avoid increasing the internal temperature and keep safety.

Make sure not to block any ventilation holes.

Do not install the unit in the small space such as inside the rack, closet or the box.

Leave more than 10cm of clearance from each side of unit and 30cm from the top of unit to wall.

Leave at least 10cm of clearance behind rear unit.

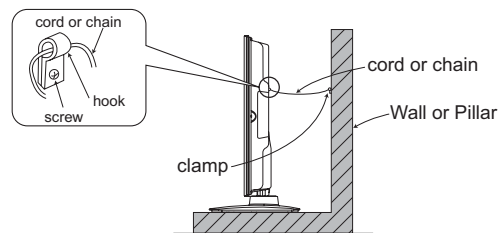


### Anti-Tumble Measures

Install in a stable place and implement safety measure against overturning.

#### Securing to a wall or pillar

Using a commercially available cord, chain, and clamp, secure the set to a wall or pillar.



#### Securing to ceiling

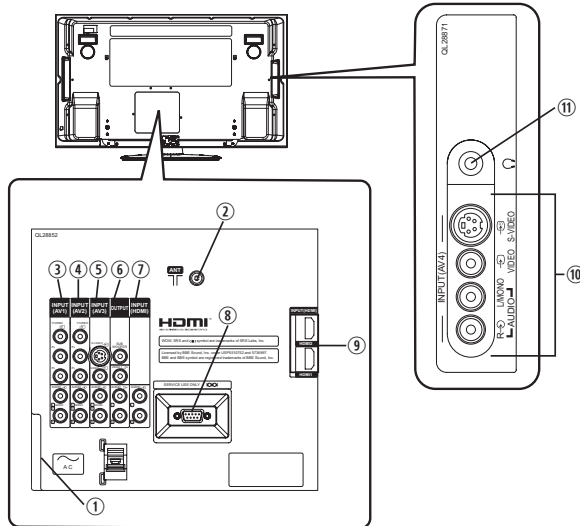
Using a commercially available cord, chain, and clamp, secure the set to a ceiling.

#### NOTE

- For more information regarding the mounting of the unit, please contact your dealer.
- Please install the unit at a proper area where it does not expose anyone to the danger of hitting themselves (for example their hands, head or face, etc) against the edge of the unit and cause personal injury.

# CONNECTION

## Terminal Positions



### Rear

- ① Power Cord Socket
- ② Aerial Socket
- ③ AV1
- ④ AV2
- ⑤ AV3
- ⑥ Monitor Out and Sub Woofer
- ⑦ HDMI Analog Audio Input (See 15)
- ⑧ Service Use only
- ⑨ HDMI1 and HDMI2

### Side

- ⑩ AV4
- ⑪ Headphone Terminal

## Connecting Procedure

This unit is ready for various kinds of connections. Make a connection in the following steps. Be sure to turn off the Main Power first when connecting external equipments.

1. Connect Power Cord to the rear panel.
2. Connect Aerial Lead.
3. Connect your external equipments to the unit if any.
4. Connect the Power Plug to the Wall Socket.

### 1. Connecting Power Cord to the Rear Panel

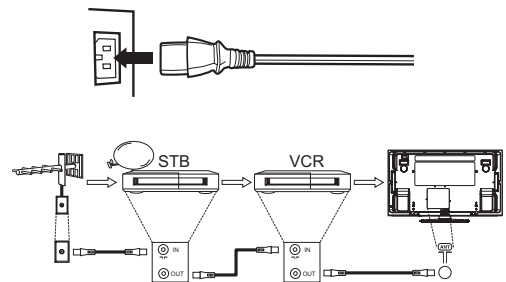
Connect Power Cord to the unit.

\*Make sure not to connect the Power Plug to the Wall Socket until all connections are completed.

### 2. Connecting Aerial Lead.

There are two ways to connect Aerial Lead.

- ① **When you do not have any other external equipment:**  
Connect the Aerial Lead directly into the Socket at rear panel.
- ② **When you have one or more external devices to connect:**
  1. Use RF cable to connect between each equipment and Antenna.
  2. Connect the Aerial Lead to an equipment 'In' Socket marked
  3. Connect the RF cable from the equipment 'Out' to the other equipment 'In.'
  4. Then, connect from the equipment 'Out' to "ANT" on the plasma screen Socket on marked .



[Example: Connecting Antenna through STB and VCR]

### Precautions when connecting the aerial

- Please use a coaxial cable which is free from interference to connect the aerial. Avoid using a parallel flat feeder wire as interference may occur, causing reception to be unstable and stripe noise to appear on the screen.
- Avoid using indoor aerial as this may be affected by interference. Please use CATV net or outdoor aerial.
- For safety, install an external aerial conforming to AS1417.1 (applicable for Australia only)
- If noise appears in the picture of VHF-Low band channel, please use a double-shielded cable (not provided) for RF LEADS to reduce the noise.

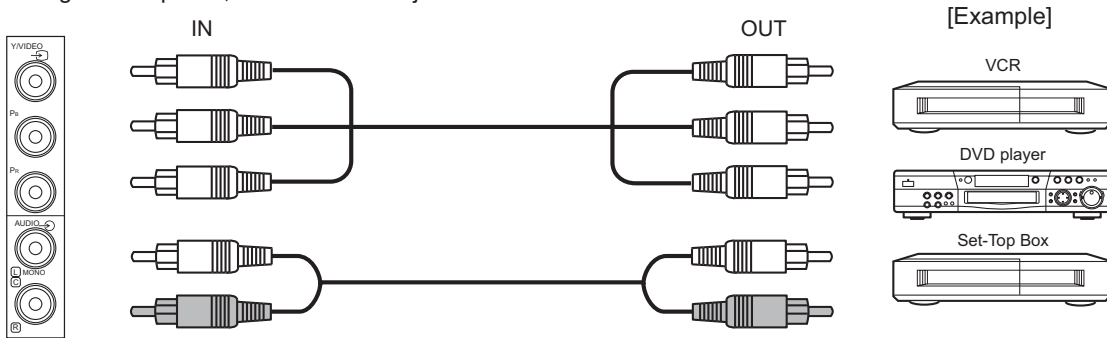
## CONNECTION (continued)

### Connecting Procedure (continued)

#### 3. Connecting to External Equipment

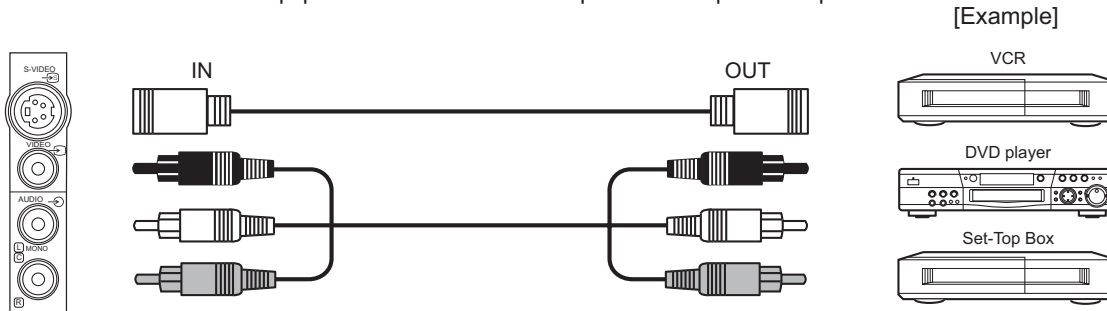
##### • Terminals on Rear

**AV1 and AV2** can be connected to the equipment with either Component or Composite output. Depending on whether the Y/VIDEO input of your selected equipment is Y signal or Video signal, it automatically regards as Component or Composite. When using as Composite, do not insert the jacks into P<sub>B</sub> or P<sub>R</sub>.



If your external device has a Component terminal, COMPONENT connection is recommended for higher quality picture.

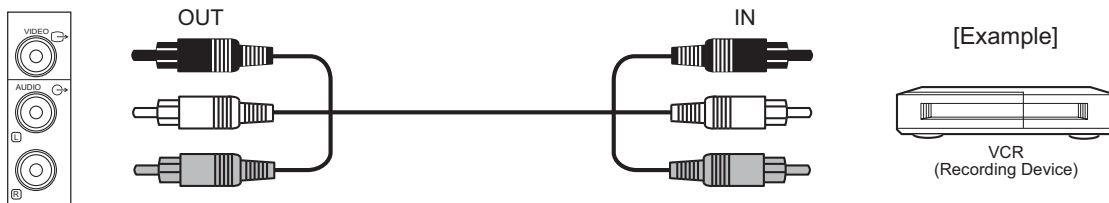
**AV3** can be connected to the equipment with an S-Video output and Composite output.



If your external device has a S-video terminal, S-VIDEO connection is recommended for higher quality picture.

**Monitor Out** can be used to display same image as main unit on another monitor.

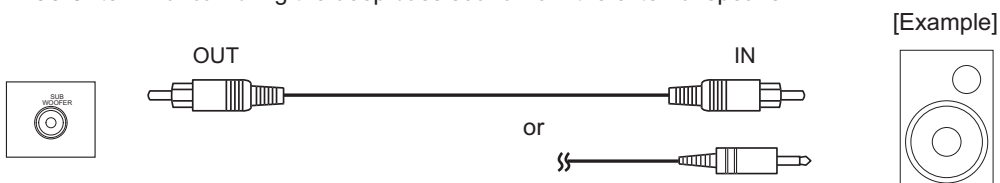
When this output terminal is connected to an external monitor with a 75 Ohm terminal, the same image from composite(AV1~4), S-Video(AV3,4), or RF signal can be displayed to the external monitor.



##### NOTE

- Video and audio output are not available from component or HDMI input.

**Sub Woofer** terminal can bring the deep bass sound from the external speaker.



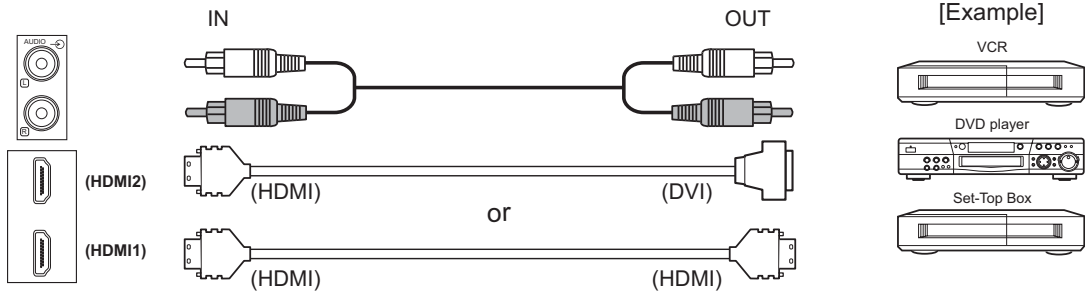


## CONNECTION (continued)

### Connecting Procedure (continued)

HDMI 1•2 terminals can be connected to the devices with HDMI output.

If the external device has DVI output, this can be available with HDMI-DVI cable. In case of using the HDMI-DVI cable, connect analog audio signal to **HDMI Analog Audio Input** terminal.



### Information

HDMI (High Definition Multimedia Interface) is next-generation multimedia I/O interface. Only one cable is used to transmit all video/audio/control signals, which creates easy connection.

Moreover, those digital signals can produce high quality data without any degradation.

You are provided with two HDMI terminals, one of the most remarkable features.

💡 If your external device has a HDMI terminal, HDMI connection is recommended for higher quality picture and sound.

#### NOTE

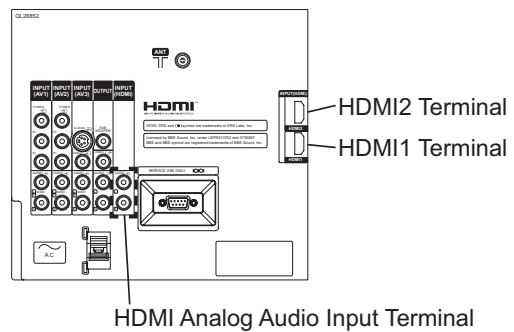
- HDMI analog audio input terminal

This terminal can be used in one of the following cases only.

- ① The DVI output of an external device is connected to the HDMI1 terminal using the HDMI-DVI cable.
- ② The DVI output of an external device is connected to the HDMI2 terminal using the HDMI-DVI cable.

Make sure that the video and audio terminals are connected to the same external device.

About the output format of an external device, refer to "Recommended Signal List" on [42](#).



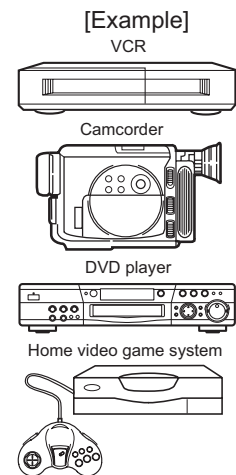
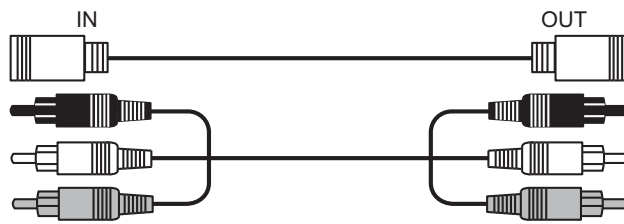
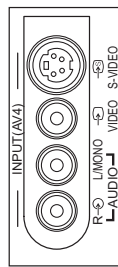
## CONNECTION (continued)

### Connecting Procedure (continued)

#### • Terminals on Side

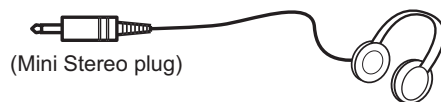
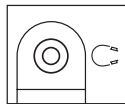
Since the following terminals are located on the side, it is very convenient to connect an extra device on a temporary basis after completing the connections on the rear panel.

**AV4** can be connected to the equipment with S-Video output and composite output.



💡 If your external device has S-video terminal, S-VIDEO connection is recommended for higher quality picture.

**Headphone** The detail settings can be adjusted from Audio Menu on page [30](#).



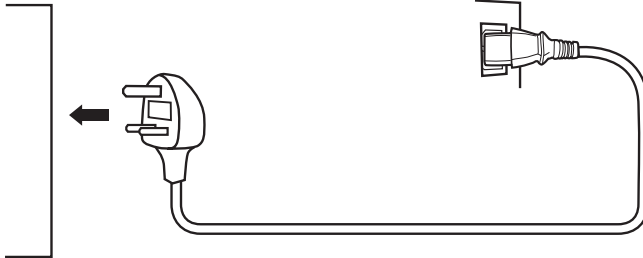
💡 The audio from the speaker will be muted while connecting the headphone to this terminal.

## CONNECTION (continued)

### Connecting Procedure (continued)

#### 4. Connecting the plug into the wall socket

Connect the Power Cord after completing all other connections.  
(The type of plug is different from this drawing for some countries.)



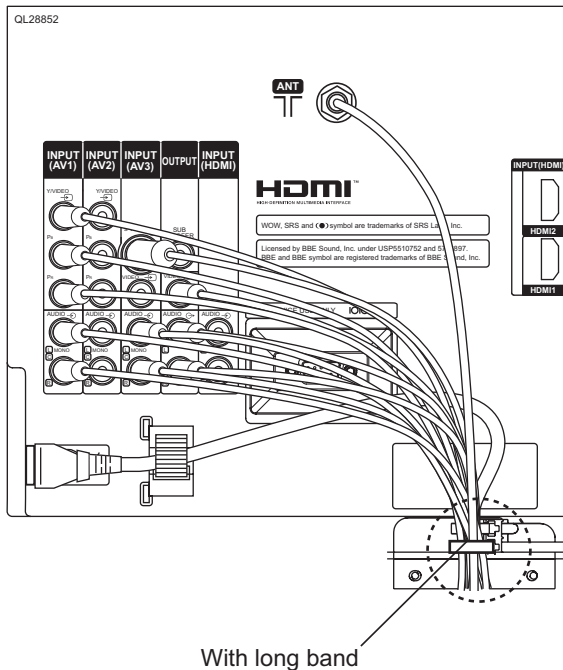
#### ⚠ CAUTION

- Use only the Power Cord provided.
- Do not use a power supply voltage other than that indicated (AC110-240V, 50/60Hz). It may cause fire or electric shock.
- For the plasma television, a three-core power cord with a ground terminal is used for efficiency protection. Always be sure to connect the Power Cord to a three-pronged grounded outlet and make sure that the cord is properly grounded. If you use a power source converter plug, use an outlet with a ground terminal and screw down the ground line.
- Ensure that both ends of power cord are easily accessible.
- If you have to change the power cord, please use the certified power cord that meets your region's safety standard.

#### 📖 Information

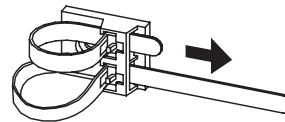
##### • How to secure the cables.

After connecting all of the cables to the terminals, secure them with the band.  
When you secure the cables, please be careful not to tighten too much.



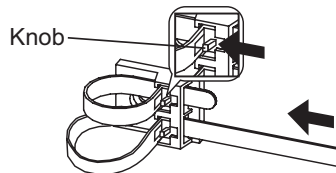
#### How to fasten the band:

##### • To tighten



Pull the band in the direction of the arrow.

##### • To loosen



Loosen the band by pushing the knob in the direction of the arrow.

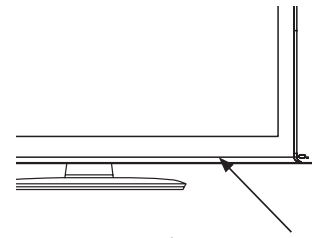
## BASIC OPERATION

### Power On/Off

Now, turn On the main power to the unit. Make sure that the Power Cord has plugged into the wall socket.

#### • To turn On the power of the unit:

1. Press the **Main Power switch** on the unit.
  - The Indicating Lamp will illuminate in **Red** (Standby mode).
2. Press **Sub Power** button either on the control panel or on the remote control.
  - The color of the Indicating Lamp turns into **Green**, and the image will display on the screen.



Main Power switch (on the bottom surface)



Sub Power button

#### • To turn Off the power of the unit:

1. Press **Sub Power** button either on the control panel or on the remote control.
  - The image disappears from the screen and the Indicating Lamp turns into **Red** (Standby mode).
2. Press **Main Power switch** to completely turn Off the power of the unit.

Sub Power button



### The Indicating Lamp Status Check

Indicating Lamp Status	Power Status	Power Switch Status
Off	Off	Main power → Off
Red	Standby mode	Main power → On Sub Power button → Off
Green	On	Main power → On Sub power button → On
Orange	Power Save mode*	Main power → On Sub Power button → On

\*About Power Save mode, see “Power Save Mode” and “When Following Messages Appear on the Screen” on [37](#) and [39](#) for details.


#### NOTE

- If the image does not appear on the screen at all, or have any problem, see TROUBLESHOOTING on [39](#), [40](#). It may help you to solve the problems.
- You can turn ON the power only by pressing the **Sub Power** button during the Standby mode.
- Do not switch the power On/Off repeatedly in a short period of time. It could cause malfunction.
- To avoid sudden surges of electricity when the power comes back on, turn Off the main power of the unit before you leave if there is a power cut during use of the unit.


## BASIC OPERATION (continued)

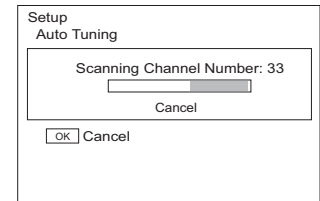
### First Time Setup

When you turn ON the TV for the first time, your TV automatically leads to the settings of “Language” and “Auto Tuning.”



1. The first screen appeared will ask you to choose the language of your TV's display.
2. Select the language you preferred from the list and press  button.
3. Once selecting the language, “Auto Tuning” screen appears to start scanning channels.

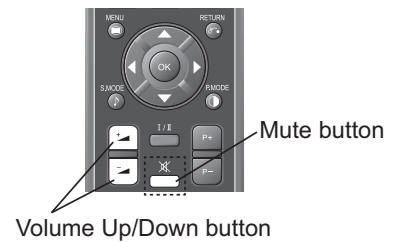
#### NOTE

If you want to change the setting after completing this first time setup, press  button and set up individually. Refer to [21](#) [22](#) .





### Volume UP/DOWN


1. To increase the sound volume, press  button on the remote control, or **Volume Up** button on the control panel.
  - The Volume Indicator value on the screen will shift right.
2. To decrease the sound volume, press  button on the remote control or **Volume Down** button on the control panel.
  - The Volume Indicator value on the screen will shift left.

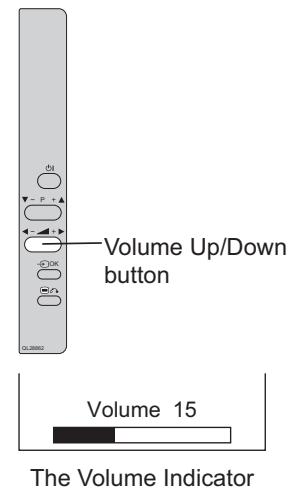


### Mute

1. To mute the sound, press  button on the remote control.
  - The sound of the unit is temporarily turned Off.
  - The color of the Volume Indicator will turn into **magenta** while muting the volume.
2. To turn the sound back, press  button again, or Volume Up button on either remote control or the control panel.
  - The color of the Volume Indicator will turn back to **green**.

#### NOTE

- You can decrease the volume by pressing  button while the sound is muted.



## BASIC OPERATION (continued)

### Input Switching to TV/AV1~4, and HDMI

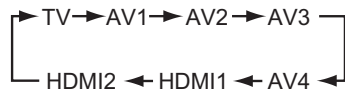
By pressing Input Select button, you can switch the input.

- To watch actual broadcast, press Input Select button on the control panel, the numeric buttons or Channel Up/Down button on the remote control.
- To display the image outputting from the external equipments connected to each terminal (TV, AV1~4, HDMI 1, 2), select corresponding mode.

1. Press **Input Select** buttons on the remote control.

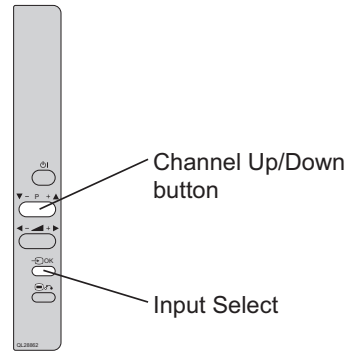
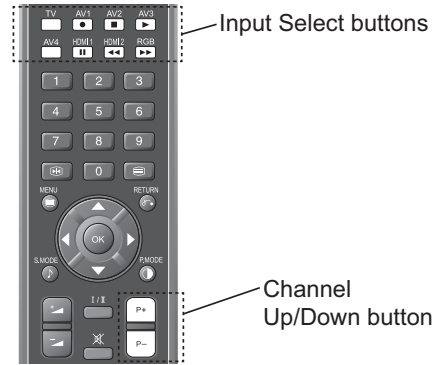
2. The Input modes can be also switched by using **Input Select** button on the control panel.

Each time this button is pressed, the screen displays corresponding mode by following order.



3. To directly go back to TV mode, pressing channel Up/Down buttons on either remote control or the control panel.

Also, you can use the numeric buttons on the remote control.

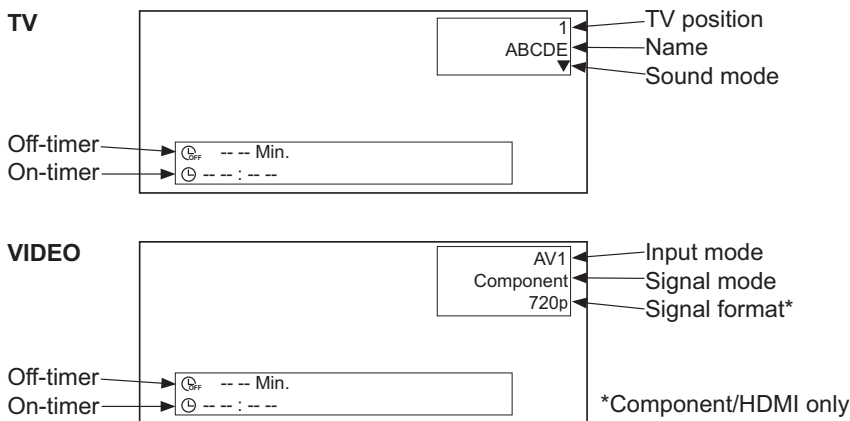


ENGLISH

### Input Signal Screen Display

The input signal status can be displayed on the screen by pressing the button of the remote control.

- The display will go out in approximately 6 seconds.











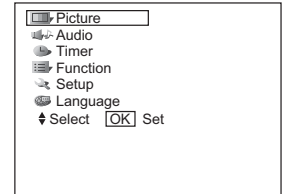
## MENU OPERATION

### How to use the On-Screen Display (OSD) system

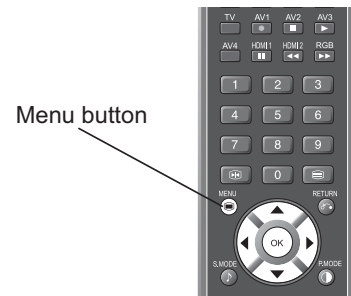
With the On-Screen Display system, you can access the various kinds of the features and functions in this product.

#### • Basic Operation

1. Press  button on the remote control or **Menu** button on the control panel of the unit. The **Main Menu** is displayed on the screen as shown on the right.
2. To select the item, press  button.  
The selected item will be highlighted in Green.
3. Press  button to set your selection.  
The selected menu page will be displayed on the screen.
4. Use  button to choose the item on the MENU page.  
Press  button to set your selection.
5. Use  button to adjust the item values or choose options.  
Press  button to set your selection.
6. To exit from the menu, press  button.



<Main Menu>



Menu button

#### NOTE

- The OSD menu screen will be closed automatically when no operation has been made for about one minute.
- If the item in menu is shown in gray, it means that it cannot be selected or adjusted.






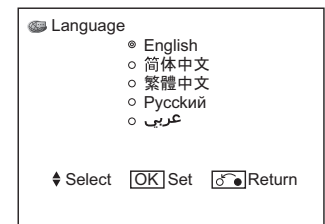
Menu button

## Language Menu

Select the language from the list so that you can display the OSD menu in the selected language.

### How to set Language

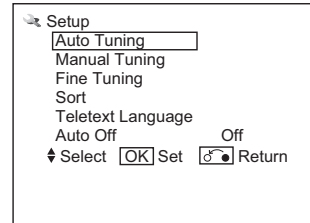
1. Enter the "Language" menu from the Main Menu.
2. Select the appropriate language with  button from the list.  
The selected item will be highlighted in Green.
3. Press  button to set your selection.  
The black dot is marked inside of the circle when the selection is fixed.
4. Press  button to exit from the entire OSD menu.



## MENU OPERATION (continued)

### Setup Menu (TV mode)

With this menu, you can access various kinds of features relating to TV channel settings.



ENGLISH

Selected Items			Setup hint	
Auto Tuning	Mode	Position	Select the way to display the channels on the screen between "--", "---", "-" and AV00 by using  button. "--" is for 2 digits channel selection, "---" is for 3 digits channel selection, and "-" is for 1 digit channel selection. The position numbers are displayed on the upper right corner of screen. (1~199, AV00)	
		Direct	The channel number 0~99 are displayed as C* *, and the channel number 100~199 are displayed as S* *.	
	Search		Tune the local channels automatically. Press  button to start searching.	
Manual Tuning	Position		Press channel up (+) down (-) buttons to input position number (1~199, AV00) or channel number (C* * or S* *).	
	Frequency		When Auto Tuning Mode is set to [position], search the frequency by using  button. When Auto Tuning Mode is set to [Direct], this function is not available (grayed out).	
	Name		<ol style="list-style-type: none"> <li>1. Move the cursor to the first digit and select the letters with  button.</li> <li>2. Move to the next digit with  button.</li> <li>3. Press  button again when you finish inputting all the letters.</li> </ol> <ul style="list-style-type: none"> <li>• The selectable letters are as follows: "0"~"9", "A"~"Z", "+", " " (blank), "-" (displayed as blank), and "." (period).</li> </ul>	
	Sound System	Auto		Select the sound system from 5 different modes.
		M		
BG				
I				
DK				

#### Information

- Use AV00 when connecting equipment such as a VCR via an RF (aerial type) cable.



## MENU OPERATION (continued)

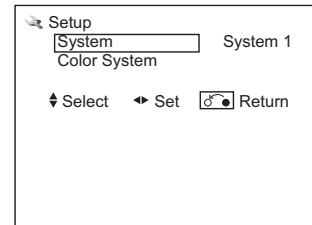
### Setup Menu (TV mode) (continued)

Selected Items		Setup hint	
Manual Tuning	Color System	Auto	Select color system from 5 different modes.
		PAL	
		SECAM	
		NTSC 4.43	
		NTSC 3.58	
	Skip	Off	It allows you to skip unregistered channels automatically when you use channel up (+) down (-) buttons to select channels.
On		This function will automatically skip unavailable channels when set to on.	
NR	Off	The noise on the screen or interference could be reduced, especially at the area of weak electric field.	
	On		
Fine Tuning	-56~+56	<p>▶ : Increase the frequency data for the main tuner.</p> <p>◀ : Decrease the frequency data for the main tuner.</p>	
Sort		<p>You can change the order of channels as follows.</p> <ol style="list-style-type: none"> <li>1. Move the cursor to the channel row you want to change order and then, press <b>OK</b> button.</li> <li>2. The color of the letters on the designated line will be turned into green bracket and with [ ].</li> <li>3. Move the designated row by using <b>↕</b> button.</li> <li>4. Press <b>OK</b> button to fix the position.</li> </ol> <p>• This function is not available (grayed out) when the Auto Tuning Mode is set to [Direct].</p>	
Teletext Language		<p>Select Teletext Language from 5 different categories (West Europe, East Europe, Russian, Arabic and Farsi) according to the area.</p> <p>Example:</p> <p>West Europe : Asian countries where the Teletext is broadcasting in English such as Singapore, Australia, and Malaysia.</p> <p>East Europe : Poland, Sweden, Hungary</p> <p>Russian : Russia</p> <p>Arabic : Arab countries</p> <p>Farsi : Iran</p>	
Auto Off	Off	When no airwave has been received and no operation has been made for 10 minutes in TV mode, it turns to standby mode automatically.	
	On		

## MENU OPERATION (continued)

### Setup Menu (AV mode)

With this menu, you can select or adjust the condition of the input signals from each terminal.



ENGLISH

Selected Items			Setup hint	
<b>System</b>	System 1		Do not change the original setting. (System1: Europe/Asia, System2:South America) • Composite and S-video input only.	
	System 2			
<b>Color system</b>	AV1~AV4	System 1	Auto	Select the color system depending on the input signal. • Generally, select [Auto] to receive all signals for both System 1 and System 2. • In case that the input signal has too much noise, the signal level is too low, or the operation is unstable in [Auto], select the system according to the color system of the input signal. • Composite and S-video input only.
			PAL	
			SECAM	
		NTSC 4.43		
		NTSC 3.58		
		PAL60		
	System 2	Auto		
		NTSC-M		
		PAL-M		
		PAL-N		

## MENU OPERATION (continued)

### Function Menu

This menu provides various ways to protect your panel, reduce power consumption, and set up utilizing the useful functions, such as Freeze Mode.

Function	
Screen Saver	Off
Screen Wipe	On 60Min.
Black Side Panel	Off
Video Power Save	Off
Freeze Mode	Split
Default Zoom	Panoramic
Eco Mode	On
Picture Size	1
Reset	Reset

Select   
 Set   
 Return

Selected Items		Setup hint
Screen Saver	Off	This helps to reduce image retention by shifting the whole picture (in small amounts) around the screen at set intervals. You can select the interval between each shift.
	5Min.	
	10Min.	
	20Min.	
	40Min.	
Screen Wipe	On	This displays the white pattern to reduce the image retention. • On : Continuous Operation • 60Min. : Limited Operation for 60 minutes. After 60 minutes, TV goes to standby mode.
	60Min.	
Black Side Panel	Off	This can change the color of sidebars showing up in normal mode. (Off:gray, On:black) It is recommended to set Off to reduce image retention. This cannot be stored.
	On	
Video Power Save	Off	During AV input, this helps to reduce power consumption when there is no video signal. In case of selecting AV input terminal which does not have signal input, it changes the power status to power save mode in AV1/AV2 and standby mode in other AV input. (See <a href="#">37</a> in details.)
	On	
Freeze Mode	Single	This is the useful function to watch the program in a still picture. (See <a href="#">35</a> in details.) • Single: full-sized image • Split: half-sized images (One is still, while the other is active.)
	Split	
Default Zoom	Panoramic1	You can set the display size for TV input screen appearing first when turning the main power On.
	Panoramic2	
	4:3	
	Full	
Eco Mode	Off	This can reduce the power consumption.
	On	

#### Information


- The item "Screen Wipe" cannot be stored.  
Select "On" or "60 Min." to conduct this function as needed.

#### NOTE

- Refer to [7](#) about image retention.

## MENU OPERATION (continued)

### Function Menu (continued)

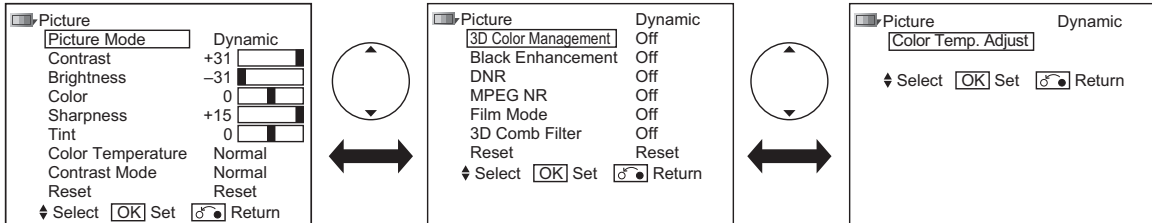
Selected Items		Setup hint
Picture Size	1	In case that the image from TV signal (especially CATV) has a blackened gap in either or both side during Panoramic mode, select [2] so that it can make up for the gap.
	2	This is not available when displaying "Cinema" size. This is not available except RF, composite, and component (576i,480i) input. (gray out)
Reset		Each item on this menu screen can be restored to the original factory settings by pressing  button.

ENGLISH

## MENU OPERATION (continued)

### Picture Menu

In this menu, you can make specific adjustments for the picture based on your preference.  
By pressing ▼ button at the bottom of each menu page, the next Picture menu page will appear on the screen.




Selected Items		Setup hint
<b>Picture Mode</b>	Dynamic	You can make the best selection from 3 modes depending on the lighting condition and intended use. Dynamic: Suitable for the brighter conditions. Natural : Suitable for the normal lighting condition. Cinema : Suitable for watching movie.
	Natural	
	Cinema	
<b>Contrast*</b>	-31~+31 (+32~+40)	This adjusts the contrast to meet the lighting environment by using ◀▶ button. • The maximum value can be extended to [+40] by pressing and holding ▶ button at [+31], which changes the color between those numbers from green to magenta. This is the special feature prepared for the dark scene. At the normal condition, it is recommended to set the value less than [+31].
<b>Brightness*</b>	-31~+31	With this function, black is adjusted to change the overall brightness by using ◀▶ button.
<b>Color*</b>	-31~+31	It can adjust color density based on your preference by using ◀▶ button.
<b>Sharpness*</b>	-15~+15	Preferred sharpness can be adjusted by pressing ◀ button for Softer image or ▶ button for Sharper image.
<b>Tint*</b>	-31~+31	Pressing ◀ button enhances red and weakens green, while pressing ▶ button weakens red and enhances green. The setup hint is adjusting for the realistic skin color.
<b>Color Temperature*</b>	Cool	You can select from 3 settings (default) depending on the color condition with ◀▶ button.
	Normal	
	Warm	
<b>Contrast Mode*</b>	Dynamic	It allows you to choose from 3 modes. Dynamic: Sharpen the gradation to improve the contrast feeling. Normal: Reproduce as faithful gradation as possible. Low: Weaken the gradation to reduce the contrast feeling.
	Normal	
	Low	
<b>Reset</b>		Each item on this menu screen can be restored to the original factory settings by pressing (OK) button.

## MENU OPERATION (continued)

### Picture Menu (continued)

ENGLISH

Selected Items		Setup hint
<b>3D Color Management*</b>	Off	On : It automatically adjusts the suitable tint, color density, and brightness on images. Off : Set it off if the image does not look natural.
	On	
<b>Black Enhancement*</b>	Off	Adjusts the black level compensation.
	Low	
	Middle	
	High	
<b>DNR*</b>	Off	This is a noise reduction system for picture signal.
	Low	
	Middle	
	High	
<b>MPEG NR*</b>	Off	This is a noise reduction system for MPEG picture signal. (ex. against mosquito noise and block noise.)
	Low	
	High	
<b>Film Mode*</b>	Off	On: Automatically identify if it is the movie film and faithfully reproduces the original film images. Off: Set to Off if the image does not look natural.
	On	
<b>3D Comb Filter*</b>	Off	This is available only when receiving NTSC/PAL composite signal. This reduces the dot and color blurring in minute scales so that it can reproduce purer color.
	Low	
	Middle	
	High	
<b>Reset</b>		Each item on this menu screen can be restored to the original factory settings by pressing  button.

## MENU OPERATION (continued)

### Picture Menu (continued)

Selected Items			Setup hint
Color Temp. Adjust*	On	Amplitude	On: When you want to set specific adjustments in each of the 3 Color Temperature modes. You can adjust on the amplitude and cut off. The settings reflect on the Color Temperature. Amplitude: subdue the following colors on the brighter parts. Cut off : subdue the following colors on the darker parts.
		Red**	
		Green**	
		Blue**	
		Cut off	
		Red**	
	Green**		
	Blue**	Off: Remains as default setting.	
	Off		

#### Information

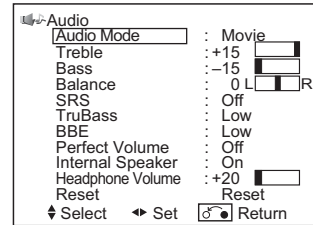
The items indicated by “\*” can be stored for each of inputs and picture modes (Dynamic/Natural/Cinema). You can enjoy different setting depending on the selected input such as VCR in AV1.

In addition, the item indicated by “\*\*” can be stored for each of color temperature modes.

## MENU OPERATION (continued)

### Audio Menu

With this menu, you can adjust and customize the audio condition as you like. You can move on to the next menu screen by pressing ▼ button at the bottom.



ENGLISH

Selected Items		Setup hint
<b>Audio Mode</b>	Movie	You can select the most suitable sound condition from 4 alternatives according to the contents. If you want to adjust each item value based on your preference, select "Favorite".
	Music	
	Speech	
	Favorite	
<b>Treble*</b>	-15~+15	Adjust the Treble.
<b>Bass*</b>	-15~+15	Adjust the Bass.
<b>Balance</b>	-10~+10	Adjust the balance of the sound from right and left speakers.
<b>SRS*</b>	Off	This system gives you the dynamic 3D sound.
	On	
<b>TruBass*</b>	Off	TruBass gives you the enhanced bass sound. Select it depending on your preference.
	Low	
	High	
<b>BBE*</b>	Off	BBE High Definition Sound restores clarity and presence for better speech intelligibility and musical realism. Select it depending on your preference.
	Low	
	High	
<b>Perfect Volume</b>	Off	It will automatically adjust the volume to its average level each time you change the channel.
	On	
<b>Internal Speaker</b>	Off	This needs to be switched to Off when you want to take audio from external equipment. It is normally set to On when you operate the set using the built in speakers.
	On	
<b>Headphone Volume</b>	0~63	It allows you to adjust the volume of the headphone. The sound from the speaker will automatically set to MUTE when the headphone is connected to the terminal.
<b>Reset</b>		Reset all the set values on this Menu Page to the original factory settings.

#### Information

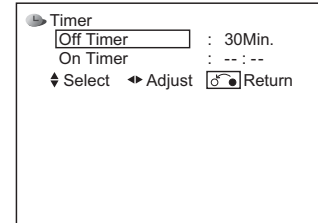
The items indicated by "\*" can be stored for each of Audio Mode.



## MENU OPERATION (continued)

### Timer Menu

This allows the unit to turn Off (Standby mode) or On at set time automatically, which you may find useful.



Selected Items		Setup hint
Off Timer	--Min.	This function automatically sets the power to Standby mode when the selected time period has elapsed.
	30Min.	
	60Min.	
	90Min.	
	120Min.	
On Timer	--:--	This function automatically sets the power from standby mode to On when the specified time period has elapsed. After the "On Timer" is set, the indicating lamp will start blinking. Input the desired time within the range of 00:00 to 11:59 by using  button on the remote control.

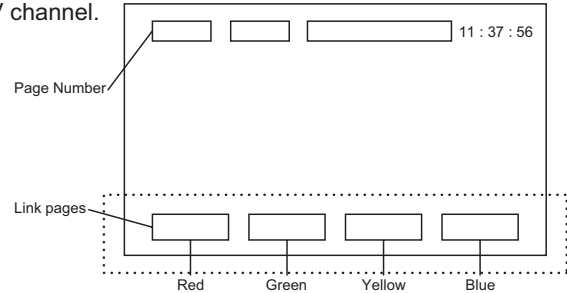
## FUNCTION

### About Teletext

#### • What is “Teletext”

Teletext is the written information services provided by each TV channel. Most TV channels provide information via Teletext such as:

- TV program schedule
- Weather forecasts
- Sports results
- Newsflash



#### • How to operate the Teletext

You can display the Teletext simply by pressing the remote control buttons.

##### NOTE

Select Teletext language from Setup Menu shown on [23](#).

Operation	Press
To activate Teletext mode. To exit from the Teletext mode.	 [TV⇔Text]
To move to the next or previous page.	 [Page Select]
To jump to the indicated page.	 [Page Select]
To split the screen into two and watch both Teletext information and actual broadcast at the same time. Press again to watch Teletext on a single screen.	 [Text⇔TV+Text]
To display Index page.	 [Index]
To access Subtitle service directly (if the channel has the Subtitle service broadcasting).	 [Subtitle]
To display Hidden text. ex. The answers of the Quiz or the Game page. Press again to close the revealed answer.	 [Reveal]
To return to actual broadcast temporarily while searching for the Teletext page you request. When the search is done, the designated page # will be displayed on the upper left of the screen. Press again to return to Teletext page.	 [Cancel]
To access the link pages which are displayed at the bottom of the page. (Select the buttons corresponding to the colors of the letters on screen.)	 [Color]
To hold the text picture.	 [Hold]




#### Information

- Each time the button is pressed, the screen will be switched from double screen to signal screen.
- Some Teletext pages do not display Link Pages at the bottom of the screen. Press button to display them.

## FUNCTION (continued)

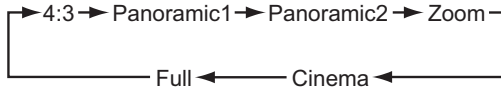
### Size Switching

Each time  button of the remote control is pressed, the screen display size is switched in sequence, and the status will be displayed at the bottom of the screen.

#### TV/AV signal input

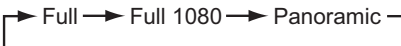
##### ● Watching Standard Definition Pictures (480i, 480p, 576i, 576p)

TV/AV1/AV2/AV3/AV4/HDMI1/HDMI2



##### ● Watching High Definition Pictures (720p, 1080i, 1080p (HDMI only))


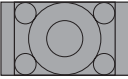
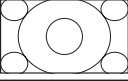

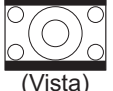
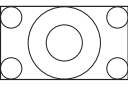

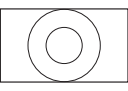
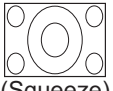
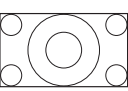
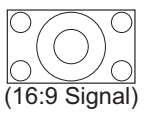
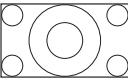


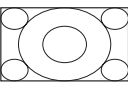
AV1/AV2/HDMI1/HDMI2



ZOOM button



You can display the image at optimum condition by selecting display size depending on the current output image as shown below.

Input Signal	Display Screen	Display Size	To display suitable screen as follows.
<b>When Watching SD Pictures:</b>			
 (4:3 Signal)		4:3	Play a 4:3 image on screen faithfully. Blanking occurs on both sides.
		Panoramic1	Play a 4:3 image which enlarges horizontal and vertical size of the middle in equal scales, and displays both sides appearing much wider.
		Panoramic2	The vertical size of Panoramic1 is reduced so that you can see the whole image, including any subtitles, that might otherwise not be fully visible on the screen.
 (Vista)		Zoom	Play a 16:9 image in 4:3 frame (Vista size) faithfully. *In some case, slight blanking may remain at the top and bottom.
 (Cinema)		Cinema	Play a 21:9 image in 4:3 frame (Cinema size) expanding vertically. *In some case, slight blanking may remain at the top and bottom.
 (Squeeze)		Full	Play a 4:3 image faithfully in the standard vertical size and horizontally squeezed.
<b>When Watching HD Pictures:</b>			
 (16:9 Signal)		Full	Play a 16:9 image faithfully showing 95% of the size.
		Full 1080	Play a 16:9 image faithfully showing 100% of the size. *In some case, the screen display has unnecessary blanking or noise at the edges.
 (4:3 Image in 16:9 Frame)		Panoramic	Play a 4:3 image in 16:9 frame which enlarges horizontal and vertical size of the middle in equal scales, and displays both sides appearing much wider.

#### Information

Aspect ratio represents horizontal : vertical ratio on screen.  
For example, vista image is 16:9 in 4:3 image.



## FUNCTION (continued)

### Size Switching (continued)

#### TV/AV signal input (continued)

##### • Position Adjustment

Vertical picture position can be adjusted for **Panoramic1**, **Zoom**, **Cinema**, and **Full 1080** mode as follows.

1. Press  button while operating the picture size display.
2. "Position" display will appear.
3. Adjust the position by  button.  
Adjustment range of each picture size are as shown below.

Display Size	Adjustable Range	Condition/Remark
<b>Panoramic1</b>	-12 ~ +12	
<b>Zoom, Cinema</b>	-31 ~ +31	
<b>Full 1080</b>	±1	Component signal only



Press ▲



Press ▼


#### CAUTION

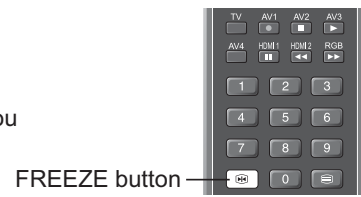
##### Using a wide-screen television


- This television has a screen mode selection feature. If an incompatible screen mode is selected to play certain software, such as a TV program, the image would appear different from the original. Take this into consideration when making screen mode choices.
- Use of the wide feature displaying enlarged pictures in coffee shops, hotel and other establishments for commercial or public viewing purposes could infringe on the copyright holder's right protected by Copyright Law.
- When a normal 4:3 image (not wide screen) is displayed over the entire screen in the Panoramic mode, the peripheral image may disappear partly and/or appear distorted in some cases. Use 4:3 mode to view the image reflecting original intention.

## FUNCTION (continued)

### Picture Freezing

By pressing  button, you can change to freeze mode easily anytime you like. Press it again to return to normal picture.



There are two types of freeze mode. You can select these in the "Freeze Mode" from Function Menu. 

#### Single:

It freezes a picture on a single frame.

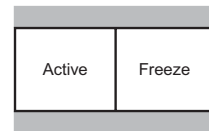
#### Split:

It displays 2 pictures from the same source. One is active (left), while the other is still picture (right). This is very useful in order to avoid missing something or to make a note of something, such as a recipe.

[Single]



[Split]



\* The size of the pictures differs depending on the signal format received.

## FUNCTION (continued)

### Audio Switching

#### NICAM / Sound Multiplex(including A2) (TV mode)

You can make optimum use of available audio by pressing I/II button of remote control. Audio can be switched only if receiving NICAM and sound multiplex signals; otherwise, pressing this button will have no effect, such as when only mono sound is received.

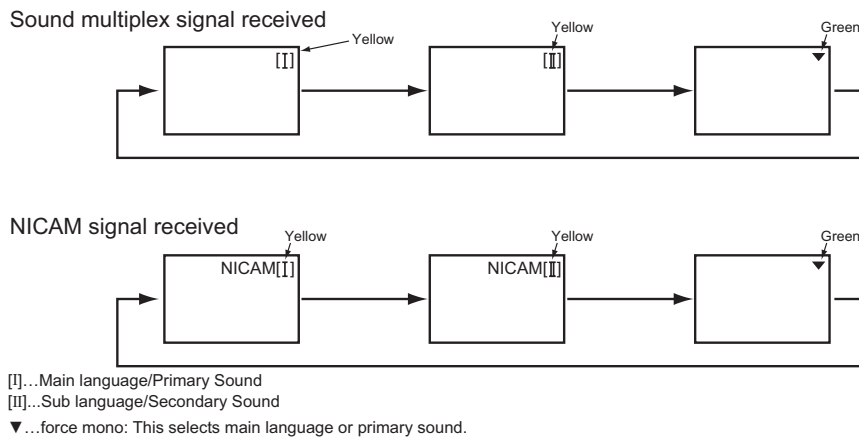
These can be divided into two main categories: Bilingual/Dual Sound broadcast and Stereo broadcast.

#### Bilingual/Dual Sound broadcast

Bilingual broadcast is the broadcast available on the main and sub languages, while dual sound broadcast is available on the primary and secondary sounds; for example, some sports programs contain broadcast commentary on a game as primary sound, and a commentary about a team as the secondary.

When bilingual program is received, sound mode display appears in yellow as shown. Also, when receiving NICAM signals, NICAM display will appear.

Each time I/II button is pressed, the display is switched in the sequence of following.



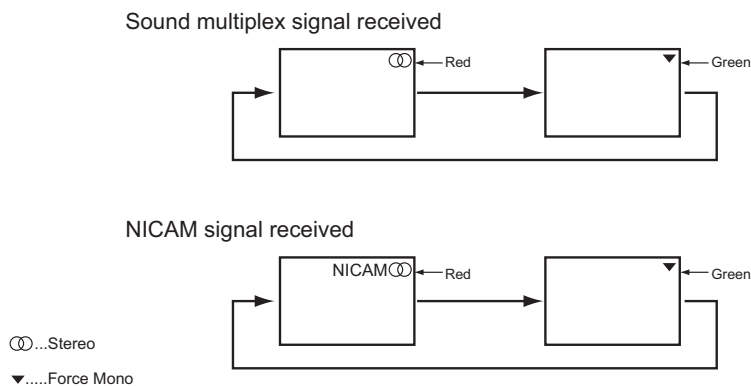
#### Stereo broadcast

With stereo broadcast, you can enjoy different sound from either side.

When a stereo program is received, sound mode display will appear in red as shown.

Also, when receiving NICAM signals, NICAM display will appear.

Press I/II button to switch between stereo and mono sound.



#### NOTE

- Please select ▼ (force mono) in case of poor reception, noise, poor stereo sound due to signal condition so that you can receive a clear mono sound.
- ▼ represents the Mono broadcast.

## FUNCTION (continued)

### Power Save Mode

- You are provided the function to save power consumption when no signal is detected in AV input. Set to On in “Video Power Save” from Function Menu, which leads to the power save mode in AV1 /AV2 /HDMI1 /HDMI2 and the Standby mode in other AV input. (Please see the table below for details) Refer to [25](#) about “Video Power Save”.

	When no signal is detected		When signal is input during On in “Video Power Save”
	Condition	Indicating Lamp	
AV1, AV2, HDMI1, HDMI2	Power Save	Orange	Turns On automatically.
AV3, AV4	Standby	Red	Remains as Standby mode.

## FUNCTION (continued)



### DVD Player

You can use this remote control to operate DVD Player of other makers as well as this set. After selecting the side of "DVD" on Function Select switch, press (or hold) the required buttons to select the maker and type as shown below.

#### Set up

Example: HITACHI DVD  

##### 1. Set up the maker.

After selecting "DVD" of Function Select switch on the remote control, press  and  buttons.

##### 2. Set up the maker type.

Release the  button while keeping  button depressed. Then press  button.

##### 3. Confirm the setting.























































After setting the maker and type, press the SUB POWER button on the remote control. If the DVD does not switch ON, repeat step 1 and 2 using other maker types as listed.



Function Select switching

ENGLISH

#### <"DVD" Selection>

Makers of DVD Player	Set Maker	Set type	Makers of DVD Player	Set Maker	Set type
HITACHI	 	 ~ 	Sony	 	
FUNAI	 		Sharp	 	 ~ 
Pioneer	 	 ~ 	Mitsubishi	 	
Panasonic	 		ONKYO	 	 ~ 
TOSHIBA	 		SHINCO	 	
Philips	 	 ~ 	SKYWORTH	 	
JVC	 		BUBUKO	 	
SAMSUNG	 		DENON	 	 ~ 

#### NOTE



Please note that not all models of the listed makers can be operated using this remote control.





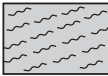

## TROUBLESHOOTING

Before calling service technician, check the following tables first. If the problem is not be solved with the suggested procedures, contact your local dealer. For your safety, NEVER try to repair the product by yourself.

### When Following Messages Appear on the Screen




Message	Condition / Action	Page
Power Save	This indicates it is in Power Save mode. The indicating lamp lights in orange.	25, 37
No Sync. Signal	The unit cannot detect any signals from any input terminals. • Check if the cable is connected correctly and firmly. • Check if the power of any external equipment is ON. • Check if the input selection matches the connection terminal.	14 ~ 16
Invalid Scan Freq.	The unit receives unsupported signals. • Check if the cable is connected correctly and firmly. • Check if the input signal is compatible with the specification of the television.	41, 42
Not Available	This shows when the selected operation is not available.	
Please Push [Return] button	This message appears when you select other than  button while Screen Wipe is ON. Press  button when this message appears.	25
Check Antenna	Check the connection status when this message appears.	13

### Symptom and Check List

Symptoms		Check list	Page
No picture - no sound		<ul style="list-style-type: none"> <li>• Check the Indicating lamp status (Off, Red, Green, or Orange).</li> <li>• Check the connection of the Power Cord and/or other cables.</li> <li>• Check if the Main Power of the unit or external equipments is ON.</li> <li>• Check if the TV mode is selected.</li> <li>• Check if the TV is in "Standby mode" or "Power Save mode".</li> <li>• Adjust the values in "Picture menu" and "Audio menu".</li> </ul>	13 ~ 16 18, 23, 37
Snowy picture-poor sound		<ul style="list-style-type: none"> <li>• Check the antenna connection and direction.</li> <li>• The TV station may have broadcast difficulties. Try another channel.</li> </ul>	13
Multiple images-normal sound		<ul style="list-style-type: none"> <li>• Check the antenna connection and direction.</li> <li>• Fine tuning the TV.</li> <li>• Check the connection of the external equipments.</li> <li>• The TV station may have broadcast difficulties. Try another channel.</li> </ul>	13, 22
Intermittent interference		<ul style="list-style-type: none"> <li>• Check if the source of interference is shielded well.</li> <li>• Remove those kinds of electrical devices away from the TV.</li> </ul>	
Normal picture, but no sound		<ul style="list-style-type: none"> <li>• Check the volume level.</li> <li>• Check if the  button has been pressed or not.</li> <li>• Make sure that the headphone is NOT connected.</li> <li>• Check the connection of the external equipments.</li> </ul>	19
No picture - normal sound		<ul style="list-style-type: none"> <li>• Check the value level of "Brightness" and "Contrast" in "Picture Menu".</li> </ul>	27
The remote control does not work.		<ul style="list-style-type: none"> <li>• Check if the batteries are installed correctly.</li> <li>• The batteries might be exhausted. Replace them with new ones.</li> <li>• Remove all the obstructions in front of the sensor window on the unit.</li> <li>• Check if you select the correct function by switching Function Select mode on the remote control.</li> <li>• Check if the buttons of the control panel can work.</li> </ul>	10, 11
Normal picture but no color-normal sound		<ul style="list-style-type: none"> <li>• Check the connection of the external equipments.</li> <li>• Check the "Color System" in "Setup Menu".</li> </ul>	14 ~ 16

## TROUBLESHOOTING (continued)

### Symptom and Check List (continued)

Symptoms	Check list	Page
<ul style="list-style-type: none"> <li>Image is paused.</li> </ul>	<ul style="list-style-type: none"> <li>Check if the TV is in freeze mode by pressing  button.</li> </ul>	<b>35</b>
<ul style="list-style-type: none"> <li>No picture</li> <li>The Indicating lamp → Off</li> </ul>	<ul style="list-style-type: none"> <li>Check if the Power Cord is plugged into the socket firmly.</li> <li>Check if the Main Power is ON.</li> </ul>	<b>17</b> , <b>18</b>
<ul style="list-style-type: none"> <li>No picture</li> <li>The Indicating lamp → Orange</li> <li>It means that the unit is in "Power Save mode".</li> </ul>	<ul style="list-style-type: none"> <li>Check if all the cables of the external equipments are connected correctly and firmly.</li> <li>Check if the power of the external equipments is ON.</li> <li>Check if the TV/AV mode has been selected correctly.</li> <li>Refer to "Power Save mode" and "When following messages appears on the screen".</li> </ul>	<b>37</b> , <b>39</b>
<ul style="list-style-type: none"> <li>No picture</li> <li>The indicating lamp → Green</li> </ul>	<ul style="list-style-type: none"> <li>Check if the signal cable is connected correctly and firmly.</li> <li>Adjust the level of Brightness and Contrast lower.</li> </ul>	<b>14</b> ~ <b>16</b>
<ul style="list-style-type: none"> <li>The rear of the TV makes a buzzing sound.</li> </ul>	<ul style="list-style-type: none"> <li>This could be the sound produced by the motor fan when it rotates. This is not a malfunction.</li> </ul>	
<ul style="list-style-type: none"> <li>The top of the unit and surface of the panel heat up.</li> </ul>	<ul style="list-style-type: none"> <li>It may happen when you use the unit for long hours. Turn off the Main Power of the unit for a while. Please note that this is not malfunction.</li> </ul>	<b>41</b> , <b>42</b>
<ul style="list-style-type: none"> <li>Image cannot be displayed in the correct position.</li> </ul>	<ul style="list-style-type: none"> <li>Press  button to check if the input signal of the displayed image is compatible with the specification of the television.</li> </ul>	<b>41</b> , <b>42</b>
<ul style="list-style-type: none"> <li>When the VCR is in special playback features (Fast Forward or Rewind), the screen gets dark and cannot see the image at all.</li> </ul>	<ul style="list-style-type: none"> <li>It could happen when the VCR is connected to Component output, such as 480i. This is not malfunction.</li> <li>Try Composite output or S-video output and check the picture again.</li> </ul>	
<ul style="list-style-type: none"> <li>Some screen display size cannot be switched.</li> </ul>	<ul style="list-style-type: none"> <li>Check the signal status by pressing the  button on the remote control. The available screen display size is different depending on the current signal status.</li> </ul>	<b>20</b> , <b>33</b> , <b>34</b>
<ul style="list-style-type: none"> <li>Cannot be displayed the image from HDMI 1 or 2.</li> </ul>	<ul style="list-style-type: none"> <li>Check if the cables are connected correctly.</li> <li>Check the output format of the equipments.</li> <li>(Please refer to "Connecting Procedure" and "Recommended Signal List".)</li> </ul>	<b>41</b> , <b>42</b>
<ul style="list-style-type: none"> <li>The image and audio are mismatched in HDMI1/2 mode.</li> </ul>	<ul style="list-style-type: none"> <li>Check if the HDMI analog audio input terminal is connected to the same external device.</li> </ul>	<b>15</b>

## PRODUCT SPECIFICATIONS

SPECIFICATION		
Panel	Display dimensions	Approx. 42 inches (922 (H) x 522 (V) mm, diagonal 1059mm)
	Resolution	1024(H) x 1080 (V) pixels
Net dimensions		including Optional Stand: 1134 (W) x 713 (H) x 365 (D) mm excluding Optional Stand: 1134 (W) x 648 (H) x 109 (D) mm
Net weight		including Optional Stand: 39.4kg excluding Optional Stand: 34.8kg
Ambient conditions	Temperature	Operating : 5°C to 35°C, Storage : 0°C to 40°C
	Relative humidity	Operating : 20% to 80%, Storage : 20% to 90% (non-condensing)
Power supply		AC110 - 240V, 50/60Hz
Power consumption/ at standby		370W / <1W
Audio output		speaker total 36W
(VIDEO input)		
Input terminals		AV1•2: composite video input terminal (RCA) component video input terminal (RCA) L/R audio input terminal (RCA) AV3•4: composite video input terminal (RCA) S video input terminal. L/R audio input terminal (RCA) HDMI 1•2 : HDMI input terminal Audio input terminal (L/R audio input terminal (RCA))*
Input signals		Composite video: PAL, SECAM, NTSC3.58, NTSC4.43, PAL60 Component video: 480i, 576i, 480p, 576p, 720p/50, 720p/60, 1080i/50, 1080i/60 HDMI: VGA/60, 480i, 576i, 480p, 576p, 720p/50, 720p/60, 1080i/50, 1080i/60, 1080p/50, 1080p/60
Output Signal		OUTPUT (MONITOR): composite video monitor-output terminal (RCA) OUTPUT (MONITOR): L/R audio monitor- output terminal (RCA) OUTPUT (HEADPHONE): L/R audio monitor- output terminal (Mini-pin) OUTPUT (SUB-WOOFER): Woofer output terminal (RCA)
(RF input)		
Input terminal / Receiving range		ANT : 75Ω Unbalanced / 44~870MHz
RF Video System		PAL B, G, H / I / D, K SECAM B, G / D, K / K1 NTSC-M

• The unit takes at least 30 minutes to attain the status of optimal picture quality.

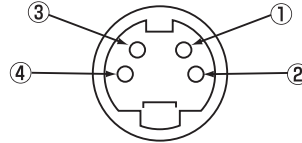
\* This analog audio input terminal can be used for HDMI1/2 only.

## PRODUCT SPECIFICATIONS (continued)

### Signal Input

#### S-input connector pin specifications

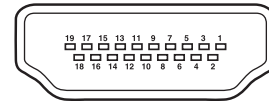
Pin	Input signal
1	Y
2	Y-GND
3	C
4	C-GND
Frame	GND



ENGLISH

#### HDMI connector pin specifications

Pin	Input signal	Pin	Input signal
1	TMDS Data2+	11	TMDS Clock Shield
2	TMDS Data2 Shield	12	TMDS Clock-
3	TMDS Data2-	13	CEC
4	TMDS Data 1+	14	Reserved(N.C. on device)
5	TMDS Data1 Shield	15	SCL
6	TMDS Data1-	16	SDA
7	TMDS Data0+	17	DDC/CED Ground
8	TMDS Data0 Shield	18	+5V Power
9	TMDS Data0-	19	Hot Plug Detect
10	TMDS Clock+		



### Recommended Signal List

#### With HDMI input

No.	Signal mode			Horizontal frequency (kHz)	Dot clock frequency (MHz)	Remarks
	Signal Name	Resolution	Vertical frequency (Hz)			
1	VGA	640 X 480	59.94	31.47	25.18	EIA/CEA-861B
2	576i	720(1440) X 576	50.00	15.63	27.00	EIA/CEA-861B
3	480i	720(1440) X 480	59.94	15.73	27.00	EIA/CEA-861B
4	576p	720 X 576	50.00	31.25	27.00	EIA/CEA-861B
5	480p	720 X 480	59.94	31.47	27.00	EIA/CEA-861B
6	1080i/50	1920 X 1080	50.00	28.13	74.25	EIA/CEA-861B
7	1080i/60	1920 X 1080	60.00	33.75	74.25	EIA/CEA-861B
8	720p/50	1280 X 720	50.00	37.50	74.25	EIA/CEA-861B
9	720p/60	1280 X 720	60.00	45.00	74.25	EIA/CEA-861B
10	1080p/50	1920 X 1080	50.00	56.25	148.50	EIA/CEA-861B
11	1080p/60	1920 X 1080	60.00	67.50	148.50	EIA/CEA-861B

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