

# HITACHI

Digital Colour Plasma Television

**USER'S MANUAL  
MANUEL UTILISATEUR  
MANUALE D'USO  
BEDIENUNGSANLEITUNG  
MANUAL DEL USUARIO**

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Model Name

42PD9700C

42PD9700N

42PD9700U

42PD9R10

55PD9700C

55PD9700N

55PD9700U



This is the image of the model 42PD9700U.



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

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

# USER'S MANUAL

Thank you for purchasing the HITACHI Plasma Television.  
Please read this user 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 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" (70 ~ 72) 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.

## 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 Centre.
- 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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- The Digital logo is a Certification Mark. This logo indicates that the product will work after implementation of full digital switchover.
- The "HD ready" logo is a trademark of EICTA.

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## About Software

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

## Information for users applicable in European Union countries



This symbol on the product or on its packaging means that your electrical and electronic equipment should be disposed at the end of life separately from your household wastes. There are separate collection systems for recycling in EU.

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

# 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.

## Important For United Kingdom

### IMPORTANT FOR UNITED KINGDOM

#### WORDING FOR CLASS I EQUIPMENT INSTRUCTION BOOKS AND LABELS

The mains lead on this equipment is supplied with a molded plug incorporating a fuse, the value of which is indicated on the pin face of the plug. Should the fuse need to be replaced, an ASTA or BSI approved BS 1362 fuse must be used of the same rating. If the fuse cover is detachable never use the plug with the cover omitted. If a replacement fuse cover is required, ensure it is of the same colour as that visible on the pin face of the plug. Fuse covers are available from your dealer.

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

Should it be necessary to change the mains plugs, this must be carried out by a competent person, preferably a qualified electrician.

If there is no alternative to cutting off the mains plug, ensure that you dispose of it immediately, having first removed the fuse, to avoid a possible shock hazard by inadvertent connection to the mains supply.

### WARNING: THIS EQUIPMENT MUST BE EARTHED IMPORTANT

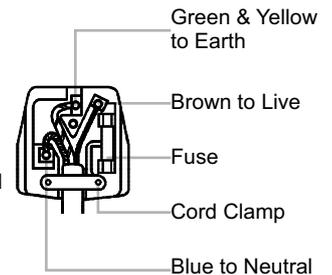
The wires in the mains lead are coloured in accordance with the following code :

Green and Yellow = Earth, Blue = Neutral, Brown = Live.

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured GREEN and YELLOW must be connected to the terminal in the plug which is marked with the letter E or by the earth symbol ⊕ or coloured GREEN or GREEN and YELLOW.

The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK. The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.



## 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 temperature 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 is emitted 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.

# SAFETY PRECAUTIONS (continued)

## WARNING

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

■ **Do not insert liquids or any foreign objects (such as metals or flammable items) inside the unit.**

- In case it happens, turn off the main power, unplug the Power Cord, and contact your dealer immediately.
- Use special caution when younger children are around the unit.



■ **Do not remove cover, or modify the product.**

- High-voltage components are installed inside of the unit. Removing covers can expose you to high voltage, electrical shock, and other dangerous conditions.
- Contact your local dealer to perform servicing such as inspection, adjustment, or repair work.



Do not disassemble

■ **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 with 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 would 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)

### CAUTION

<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 monitor 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 this product 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 the CRT-based television near the speakers of the Plasma Display.</b></p> <ul style="list-style-type: none"> <li>• It could cause the partial discoloration or blurring of the image on a 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 property.</li> <li>• Use only the types of the batteries which are indicated in this manual.</li> <li>• Do not insatall 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

■ **Do not install 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.



■ **Viewing Advice**

- The lighting of the environment in which the product is used should be appropriate. Too bright or 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 radio away from this unit whilst 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 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.

## ABOUT PLASMA DISPLAY PANEL

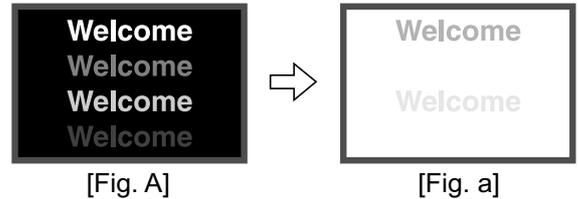
### Image Retention of Plasma Display Panel

The plasma display panel has one of characteristics that can result 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

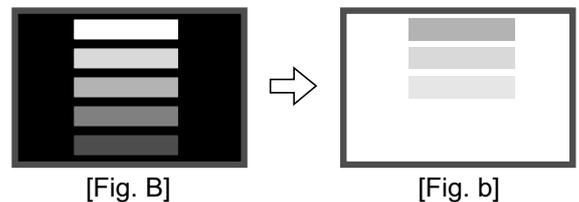
- Image retention is caused by partial degrading the phosphors due to the partial display of character and figure.

- 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 colour 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” or “Luminance Manager” functions on the display, which are available from Function Menu. (Refer to [30](#).)

After displaying certain images such as a 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. In addition, “Luminance Manager” function works when displaying images such as TV station logos or clock displays in the corners of the screen.

- Use in combination with moving images.

Since the entire screen has relatively even degradation of the phosphor in moving images, it can avoid the partial image retention. We recommend to use together with such moving images as DVD.

- Please be careful that leaving the images in 2-picture 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 which broadcast station or clock is displayed for a long time at the same position. Please be aware that it may cause the image retention.
- Image retention can be reduced by “Eco Mode” in Function menu. [30](#)

### Common Characteristics of Plasma Display Panels

The following are the common phenomena when operating Plasma Display Panel 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 colours, etc.

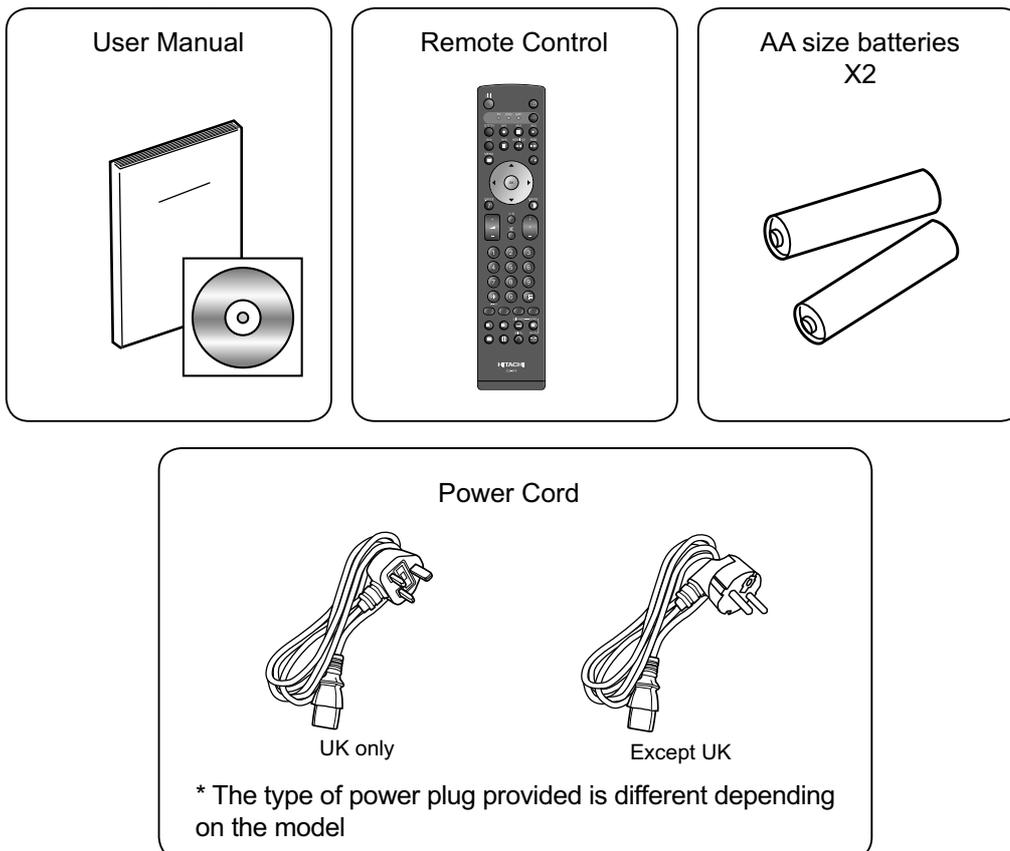
## FEATURES

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 panel.
- Improved Digital signal processor.
- High quality sound with deeper, richer and dynamic bass tones.
- Various functions as Digital Terrestrial Television (More TV channels, EPG, etc).
- 3 Scart terminals installed.
- Accept more digital input devices with 2 HDMI terminals.
- Great diversity of connecting terminals to cover wide range of audio-visual equipments.
- Enjoy the image from PC with large, high-definition Plasma screen.
- New Photo Input function with selectable Background Music.
- SD Card Slot installed.
- Easy-to-use On-Screen Display system operating with Remote control.
- Low power consumption with Power Saving feature.
- Motorized Power Swivel feature.
- Provided 1200 pages for Teletext.

## SUPPLIED ACCESSORIES

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

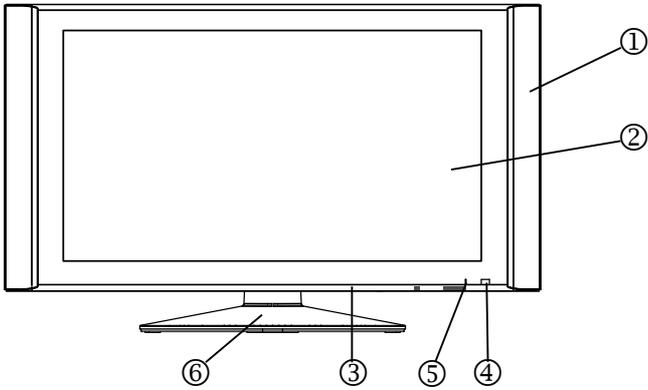


\*As for the installation of stand for 55PD9700U/C, please refer to the user manual provided in the carton box of stand.

# COMPONENT NAMES

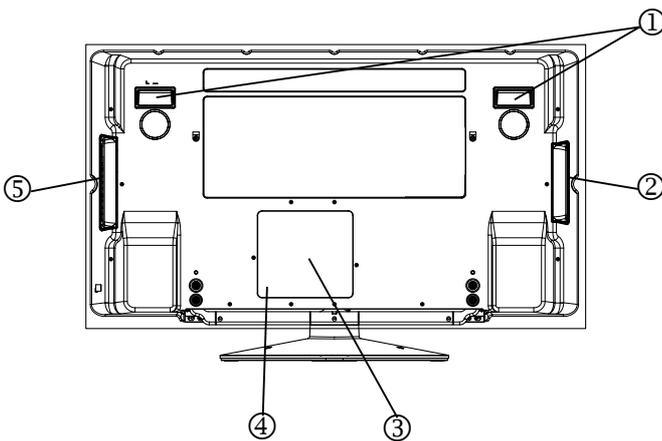
## Main Unit

### Front Panel



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

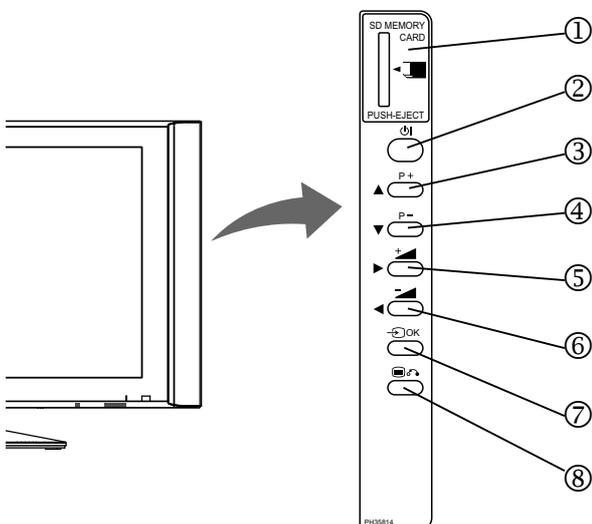
### Rear Panel



- ① Handgrips (only for 42PD9700U/C)
- ② Side Input
- ③ Terminal Board (External Device Connection)
- ④ Power Cord Socket
- ⑤ Control Panel (see below for details)

Please refer to [14~19](#) for the detailed information for the connections.

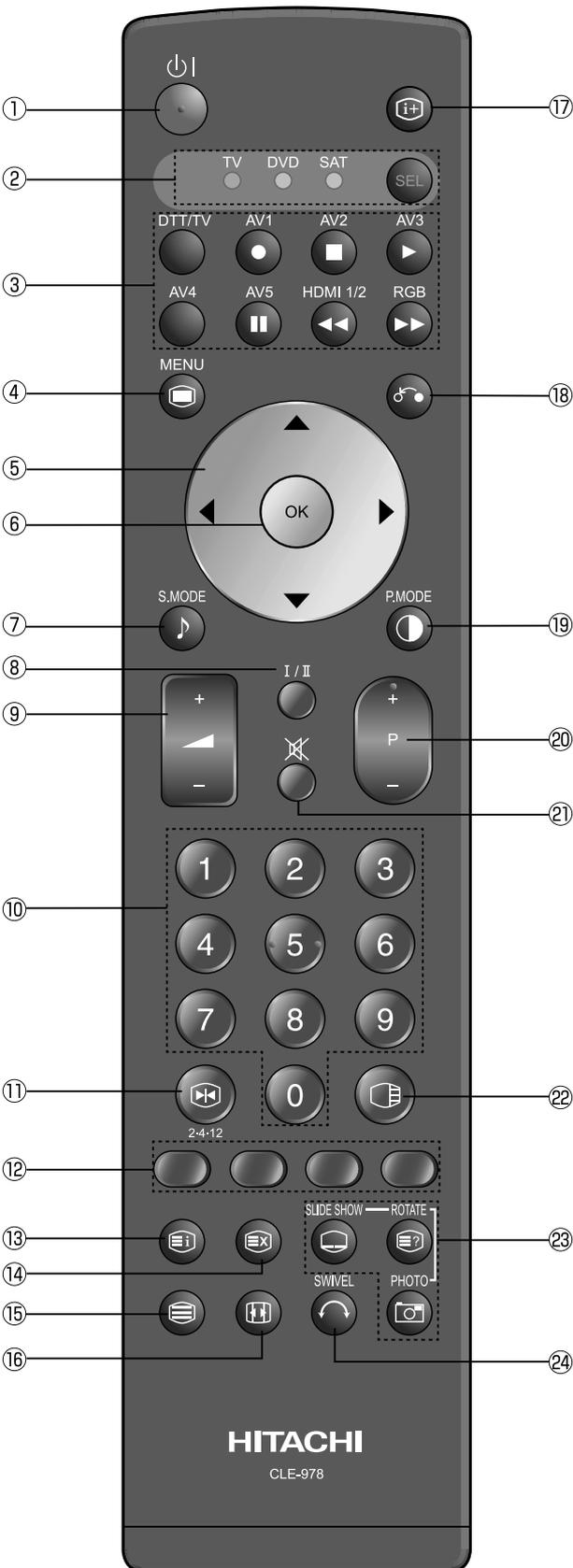
### Control Panel (including Card Slot)



- ① SD Memory Card Slot
- ② Sub Power button
- ③ Channel UP/▲ button
- ④ Channel DOWN/▼ button
- ⑤ Volume UP ▲/▶ button
- ⑥ Volume DOWN ▼/◀ button
- ⑦ Input Select /OK button
- ⑧ Menu / Return button

# COMPONENT NAMES (Continued)

## Remote Control



- ① **Sub Power**
- ② **Function Select (TV/DVD/SAT)**  
Press this button to select function mode indicating LED lamp. Normally, select "TV".
- ③ **Input Select/DVD Control/Photo Input Control**  
Press this button to change input mode. In addition, you can use these buttons while operating the selected brand of DVD player or Photo Input function.
- ④ **Menu**
- ⑤ **Cursor**
- ⑥ **OK**
- ⑦ **Sound Mode**  
Sound mode can be changed each time pressed in the following sequence. Movie→Music→Speech→Favourite
- ⑧ **CHI/II**  
This is exclusively for TV audio A2/NICAM mode.
- ⑨ **Volume Up/Down**
- ⑩ **Programme Select**  
Press these buttons to select a TV program directly.
- ⑪ **Freeze/Multi Mode [Hold]**  
Press this button to change the picture to freeze mode. Press it again to return to normal picture. In addition, during multi-picture mode, each time press this button, the picture is changed to 2, 4, and 12 multi mode. (Also, it holds the page in text mode.)
- ⑫ **[Colour (Red, Green, Yellow, Blue)]**
- ⑬ **[Index]**
- ⑭ **Time [Cancel]**  
Pressing this button can indicate the time by On-Screen display when receiving a TV programme on the screen.
- ⑮ **TV/Text [TV↔Text]**  
This switches between the TV mode and the Teletext mode.
- ⑯ **Zoom [Text↔TV+Text]**  
Press this button to change picture size.
- ⑰ **Recall**  
Pressing this button shows the input signal status.
- ⑱ **Return**  
You can use this to return to the previous menu.
- ⑲ **Picture Mode**  
Picture mode can be changed each time pressed in the following sequence. Dynamic→Natural→Cinema
- ⑳ **Channel Up/Down**
- ㉑ **Mute**
- ㉒ **Multi Picture**  
Press this button to change the picture to multi-picture mode. Press it again to return to normal picture.
- ㉓ **Photo Input (Photo/Rotate/Slide Show)**  
These buttons are to display and control the pictures from digital still camera or USB card reader.
- ㉔ **Swivel (with Desktop Stand)**  
This function is to rotate TV. Select the degree of rotation with cursor key.

### 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 "Analogue Teletext" on [39](#).

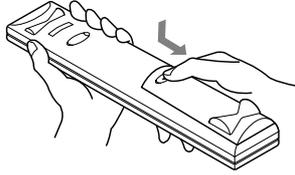
## PREPARATION

### Remote Control Batteries Installation

This remote control operates on 2 "AA" batteries.

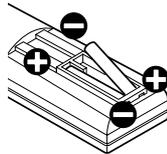
#### 1. Open the battery compartment cover

- Slide open the battery compartment cover on the backside of the remote control in the direction of an arrow.



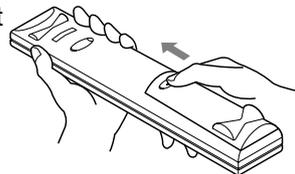
#### 2. Install the batteries

- Install 2 "AA" batteries (included) making sure the polarities match the indication inside the compartment.



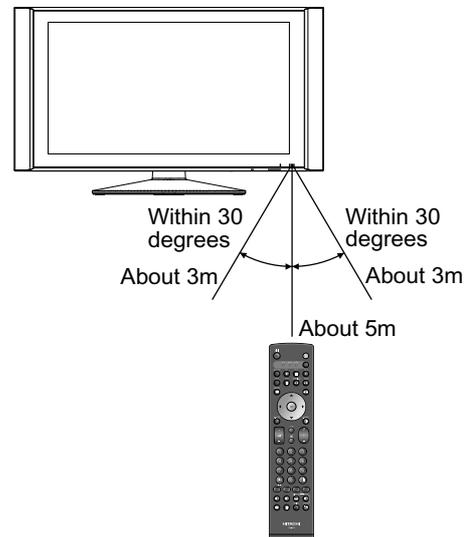
#### 3. Close the battery compartment cover.

- To close the battery compartment cover, slide the cover in the direction of an arrow till it clicks shut.



### 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.**

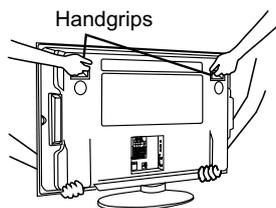
- Do not drop or cause impact to the remote control.
- Do not spill water or any liquid on the remote control.
- Do not place the remote control on the wet object.
- Do not place the remote control under the direct sunlight or near sources of excessive heat.

### Caution When Moving the Main Unit

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

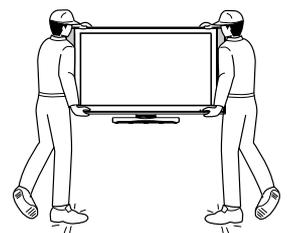
#### 42PD9700U/C

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.



#### 55PD9700U/C

When carrying this product, hold it by the top and bottom on both ends.



# PREPARATION (continued)

## Safety Precaution on Main Unit Installation

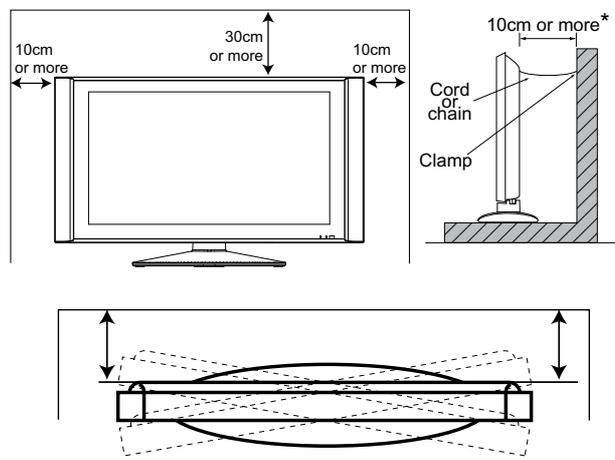
**Read SAFETY PRECAUTIONS ( 4 to 7 ) carefully besides this page.**

\*The Desktop Stand 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 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 while using swivel function.  
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 monitor and 30cm from the top of unit to wall.



Without Swivel function: Leave at least 10cm of clearance behind rear unit.  
With Swivel function: Leave the adequate space to obtain the maximum performance of Swivel Function.  
(42PD9700U/C:31cm , 55PD9700U/C:42cm)  
Refer to [51] for Swivel Function.

## Anti-Tumble Measures

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

### Securing on desktop

Use two wood screws to secure the set firmly in position by fastening them to the screw holes at the rear of the stand as shown in the diagram. The wood screws are supplied with the stand.

### 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

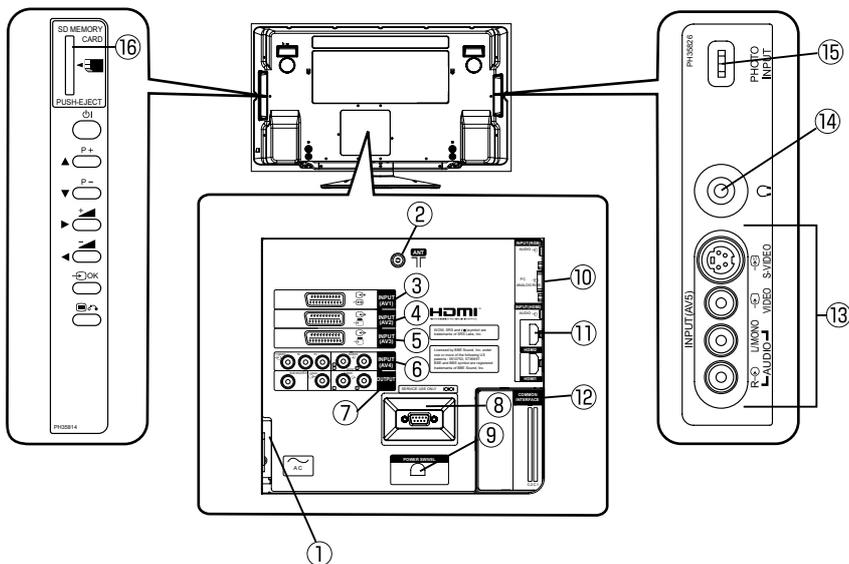
Using a commercially available cord, chain, and clamp, secure the set to a ceiling.

**NOTE**

- For more information regarding the mounting of the unit, please contact your dealer.
- Loosen a cord or chain enough while operating power swivel to avoid physical injury.

# CONNECTION

## Terminal Positions



### Rear

- ① Power Cord Socket
- ② Aerial Socket
- ③ AV1
- ④ AV2
- ⑤ AV3
- ⑥ AV4
- ⑦ Monitor Out and Sub Woofer
- ⑧ Service use only
- ⑨ Power Swivel Terminal (See 51)
- ⑩ PC Connection terminals (D-sub 15 pin and mini stereo for Audio)
- ⑪ HDMI1, 2 and mini stereo for Audio
- ⑫ Common Interface slot

### Side

- ⑬ AV5
- ⑭ Headphone terminal
- ⑮ Photo Input terminal
- ⑯ SD Memory Card slot

## 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

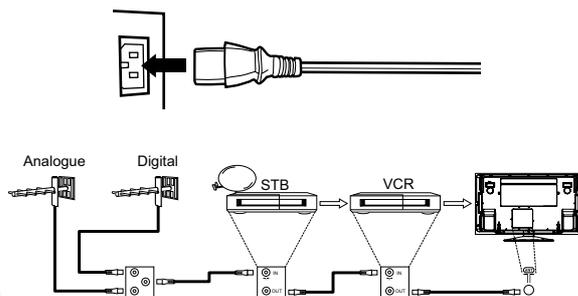
Connect Power Cord to the monitor.

\*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.

- **When you do not have any other external equipment:**  
Connect the Aerial Lead directly into the Socket at rear panel.
- **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]

#### NOTE

- If analogue and digital broadcast signals are provided from the separated cables (antenna), please use a mixer and RF cable to connect antenna terminal in order to receive both signals.

### 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.
- 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)

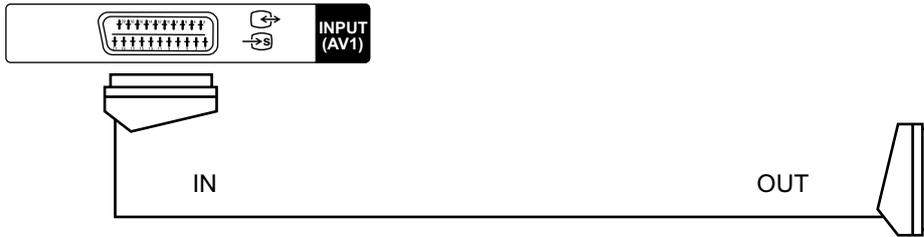
## Connecting Procedure (continued)

### 3. Connecting to External Equipment

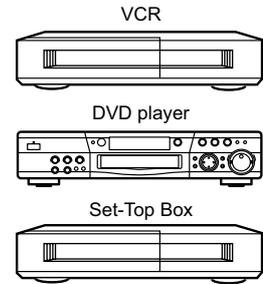
#### • Terminals on Rear

AV1 can be connected to the equipment with Composite/S-Video/Audio input, and Composite/Audio output. The output signal can support not only Analogue but also Digital Terrestrial TV signals.

#### INPUT Composite/S-Video/Audio

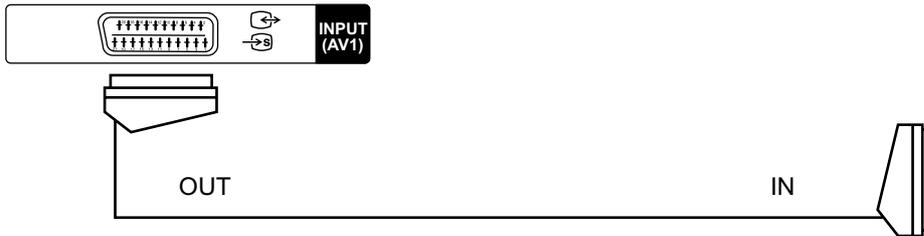


[Example]

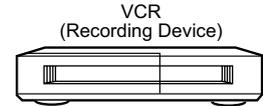


💡 If STB is connected to AV1 in France, it descrambles some of the Pay TV images by resending the signal again (In/Out).

#### OUTPUT Composite/Audio



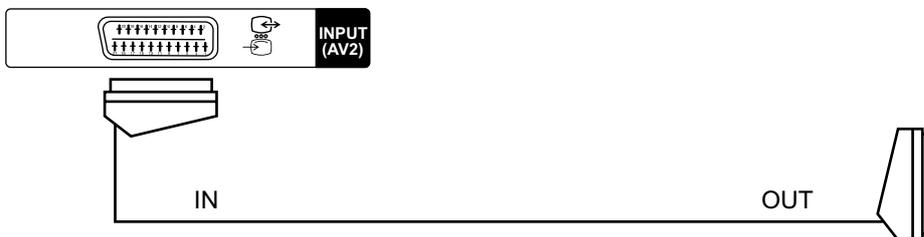
[Example]



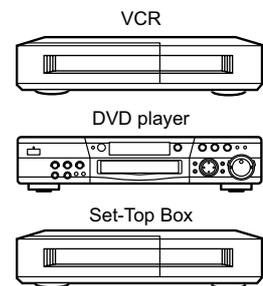
💡 When you are watching either TV or DTT broadcasting from AV1, you can switch to the other by setting "Scart Output" in Setup menu. For example, whilst you are watching TV, it is possible to record the DTT programme. Refer to [26](#) [27](#) about "Scart Output" in Setup menu.

AV2 and 3 can be connected to the equipment with Composite/RGB/Audio input, and Composite/Audio output.

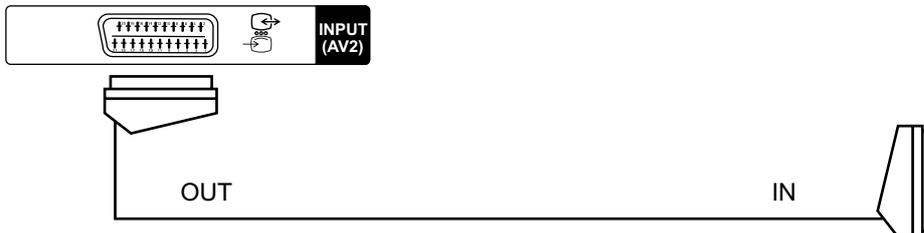
#### INPUT Composite/RGB/Audio



[Example]



#### OUTPUT Composite/Audio



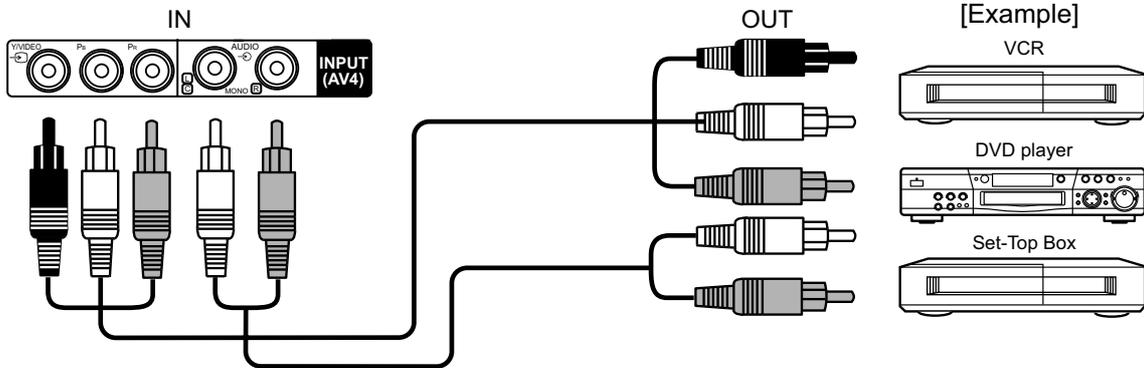
[Example]



## CONNECTION (continued)

### Connecting Procedure (continued)

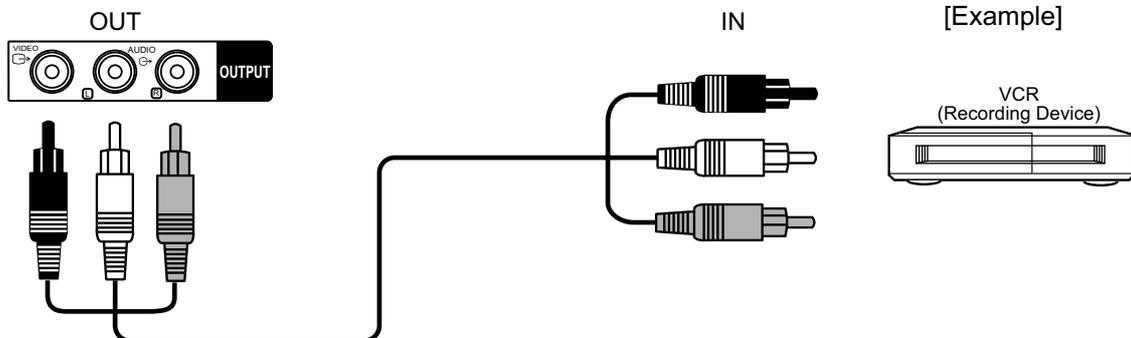
**AV4** can be connected to the equipment with either Component or Composite output. Depending on whether the Y/VIDEO input of your selected equipment is Y signal or Video signal, it automatically regards as Component or Composite. When using as Composite, do not insert the jacks into P<sub>B</sub> or P<sub>R</sub>.



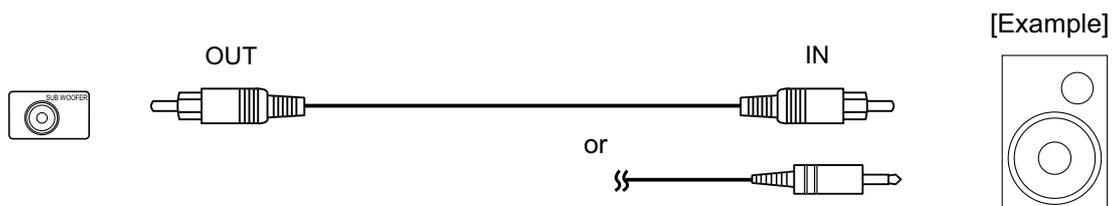
⚡ If your external device has a Component terminal, COMPONENT connection is recommended for higher quality picture.

**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(AV1~5), or RF signal can be displayed to the external monitor.



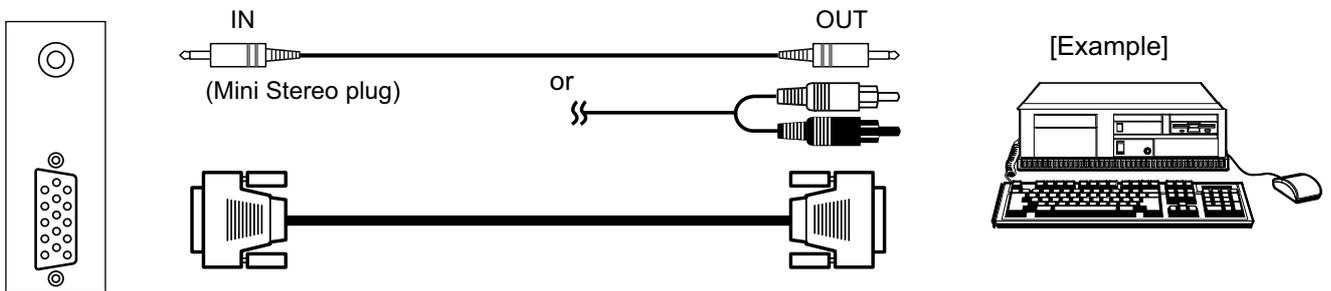
**Sub Woofer** terminal can bring the deep bass sound from the external speaker.



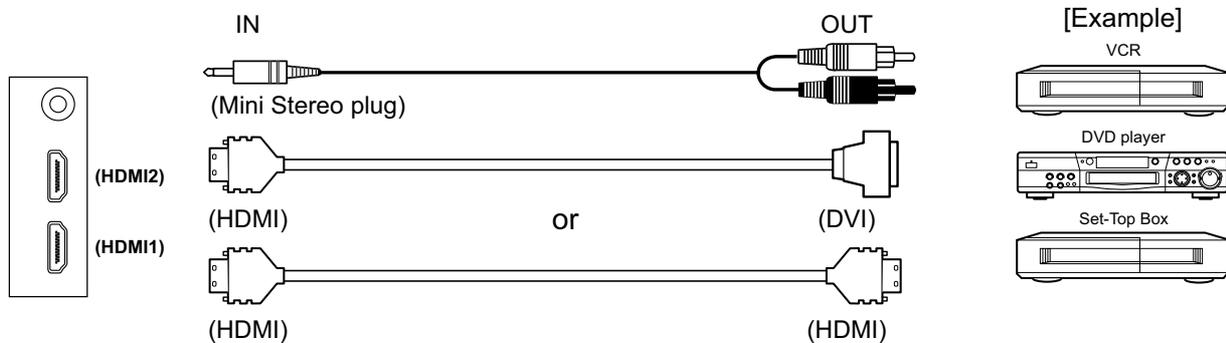
# CONNECTION (continued)

## Connecting Procedure (continued)

PC terminals (D-sub 15 pin + audio) is connected to PC, which allows Analogue RGB signal.



HDMI 1·2 terminals can be connected to the devices with HDMI output, or if the external device has DVI output, this can be available with HDMI-DVI conversion cable. In case of using the HDMI-DVI, connect to audio terminal besides HDMI.



### 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 two HDMI terminals, one of the most remarkable features.

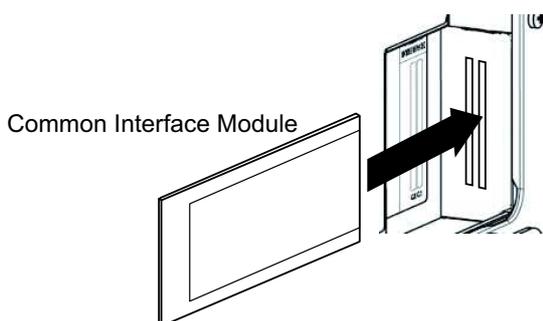
ⓘ If your external device has a HDMI terminal, HDMI connection is recommended for higher quality picture and sound.

#### NOTE

- When both HDMI1 and HDMI2 terminals are connected to devices via HDMI-DVI conversion cable, HDMI2 has a priority over the audio terminal.

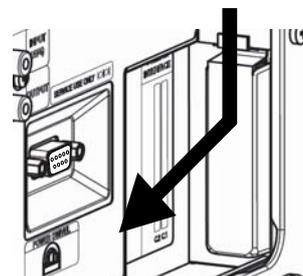
**Common Interface Slot** allows you to receive Pay TV service with detachable modules.

Before inserting the module, make sure to turn off the main power, and take off the cover of slot as shown and then insert the module all the way into the slot. Refer to **50** for the details.



### Remove the slot cover

Push the top of slot cover to release the interlock and lift it the direction as shown.



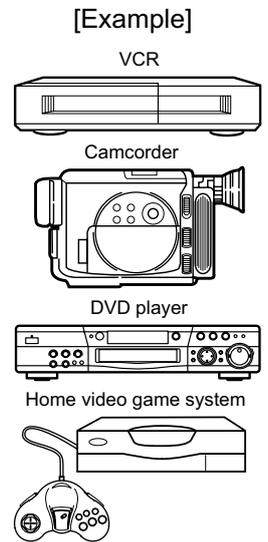
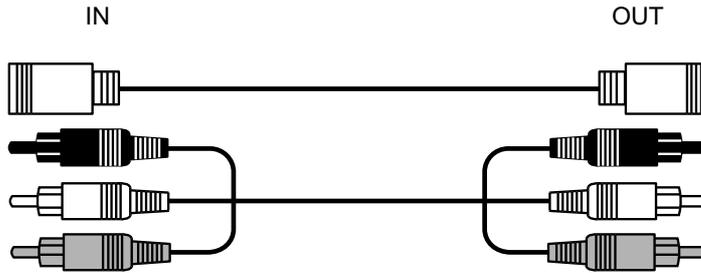
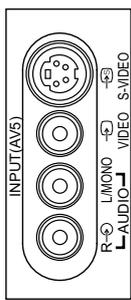
# CONNECTION (continued)

## Connecting Procedure (continued)

### • Terminals on Side

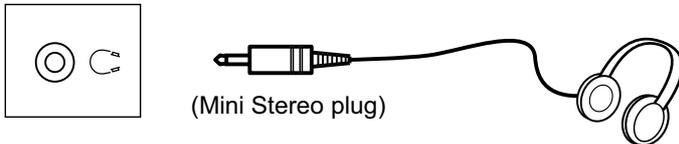
Since the following terminals are located on the side, it is very convenient to connect an extra device on a temporary basis after completing the connections on the rear panel.

**AV5** 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.

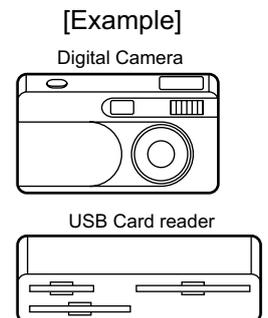
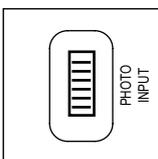
**Headphone** The detail settings can be adjusted from Audio Menu on page [38](#).



(Mini Stereo plug)

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

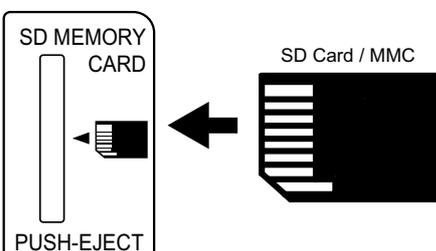
**Photo Input** terminal can be connected to digital still camera or USB card reader with USB cable. For details, refer to the Photo Input function shown on [61](#)~[66](#).



**NOTE**

This photo input terminal does not support general USB devices such as USB memory. Please do not connect with those devices.

**SD Memory Card slot** can be used for the Photo Input function with the SD (or MMC) card memory containing pictures. For details, refer to the Photo Input function shown on [61](#)~[66](#).

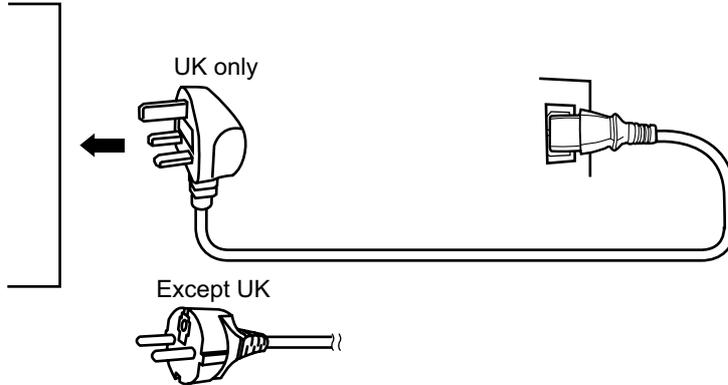


# CONNECTION (continued)

## 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.)



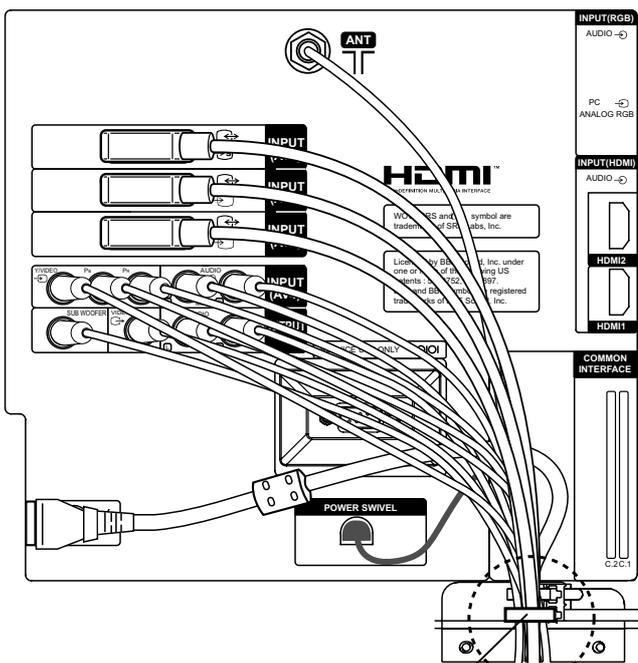
### CAUTION

- Use only the Power Cord provided.
- Do not use a power supply voltage other than that indicated (AC100-240V, 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.

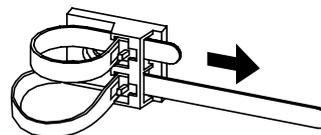
After connecting all of the cables to the terminals, secure them with the band.  
When you secure the cables, please be careful not to tighten too much.



With long band

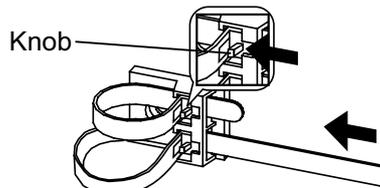
### How to fasten the band:

#### • 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.

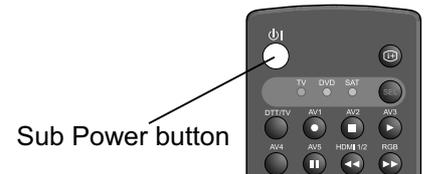
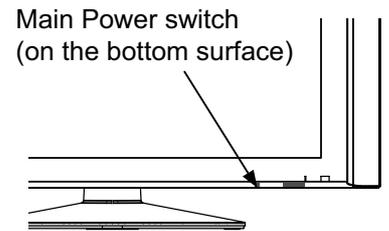
# BASIC OPERATION

## Power On/Off

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

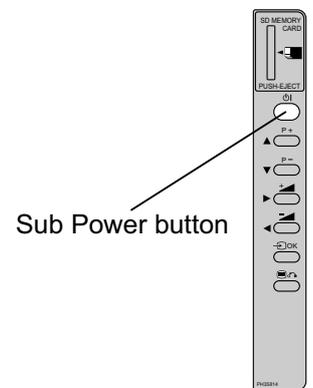
### • To turn On the power of the unit:

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 colour of the Indicating Lamp turns into **Green**, and the image will display on the screen.



### • 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.



## 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
Blinks in Red	Standby mode	Standby mode as above whilst upgrading DTT version and operating Timer Programming on digital channel.
Green	On	Main power → On Sub power button → On
Orange	Power Save mode*	Main power → On Sub Power button → On
Blinks in Orange	Power Save mode	Power Save mode as above whilst upgrading DTT version and operating Timer Programming on digital channel.

\*About Power Save mode, see “Power Save Mode” and “When Following Messages Appear on the Screen” on [68](#) and [70](#) for details.

### NOTE

- If the image does not appear on the screen at all, or have any problem, see TROUBLESHOOTING on [70~72](#). 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)

## Easy Preset

When you turn ON the TV for the first time, your TV automatically leads to the settings of "Language," "Country" and "Auto Tuning." (Also, refer to the attached Quick Guide.)

1. The first screen appeared will ask you to choose the language of your Analogue TV's display.
2. Using  button, select language you preferred from the list and press  button.
3. Then, using  button, select your residing country and press  button.
4. The auto tuning screen appears, and your TV will now search analogue channels through the frequencies storing them in order.

Depending on your residing country, it does not proceed to DTT auto tuning (5~8).  
DTT auto tuning process varies according to the model.

If you have 42/55PD9700U:

5. The dialogue box will appear to ask you if you wish to tune in the DTT channels and select "Yes" so that your TV will start searching the DTT channels.

If you have 42/55PD9700C:

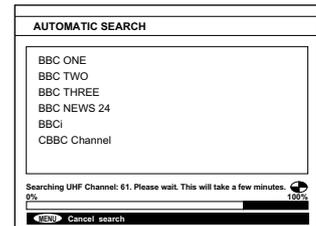
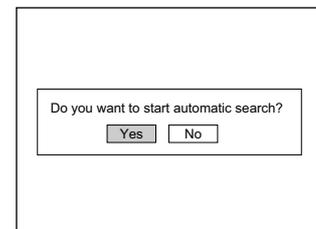
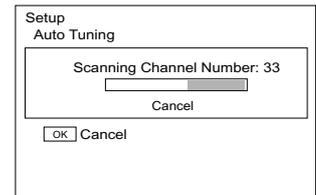
5. The box appears to ask you to select language for DTT auto tuning.
6. Using  button, select language from the list and press  button.
7. Then, using  button, select your residing country and press  button.
8. The dialogue box will appear to ask you if you wish to tune in the DTT channels and select "Yes" so that your TV will start searching the DTT channels.

### NOTE

- If you want to change the setting after completing this easy preset, press  button and set up individually.
  - See [24](#) [25](#) about the Analogue setting.
  - See [41](#) about the DTT setting.



This is an example of 42/55PD9700U.



## BASIC OPERATION (continued)

### Volume UP/DOWN

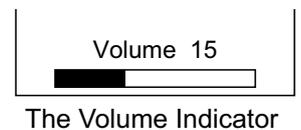
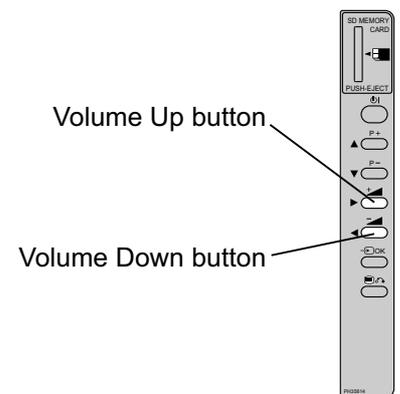
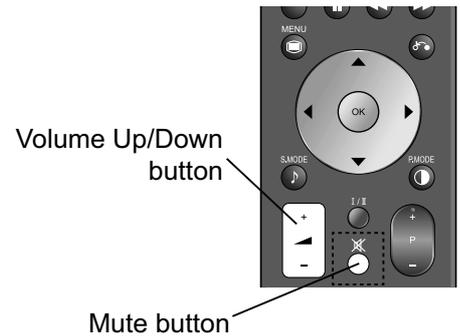
1. To increase the sound volume, press  button on the remote control, or **Volume Up** button on the control panel.
  - The Volume Indicator value on the screen will shift right.
2. To decrease the sound volume, press  button on the remote control or **Volume Down** button on the control panel.
  - The 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 colour 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 colour 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/AV1~5, HDMI, and RGB

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

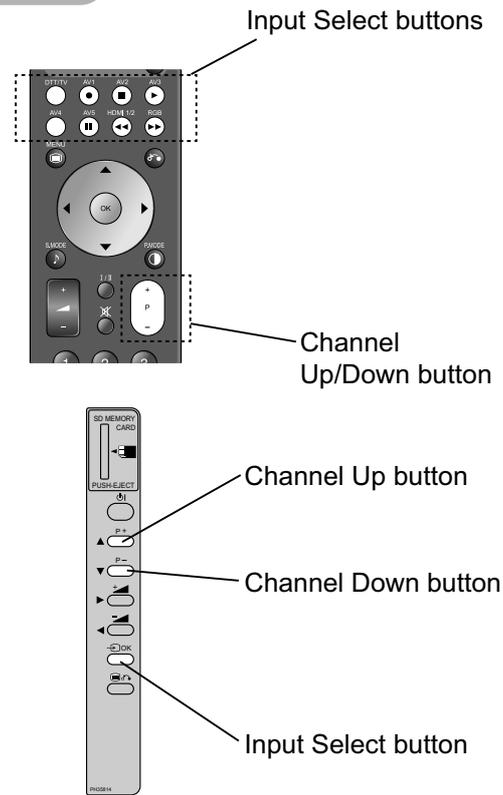
- To watch actual broadcast, press Input Select button on the control panel, the numeric buttons or Channel Up/Down button on the remote control.
- To display the image outputting from the external equipments connected to each terminal (DTV / TV, AV1~5, HDMI 1 / 2, and RGB), select corresponding mode.

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.

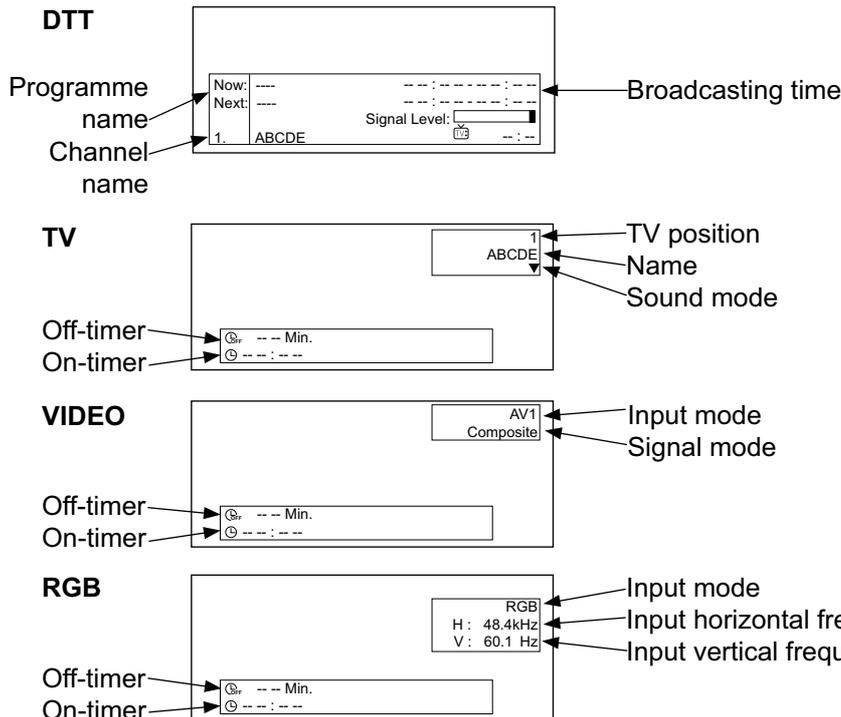


ENGLISH

## Input Signal Screen Display

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

- The display in DTT mode will also appear as changing the channels and go out in approximately 3 seconds. Refer to **44** about the information banner.
- The display in TV/Video/RGB mode will go out in approximately 6 seconds.



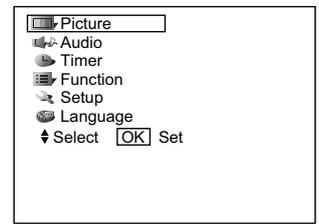
# TV SETUP OPERATION

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

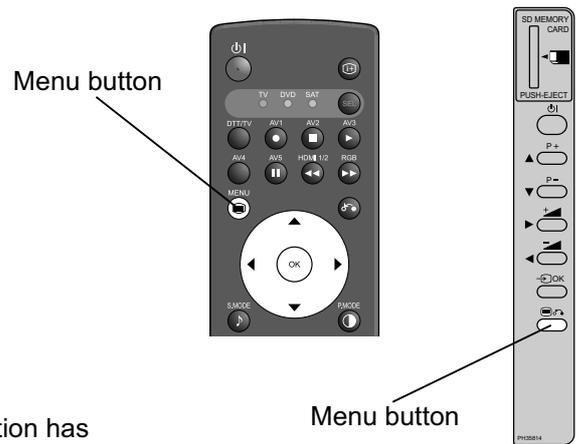
With the On-Screen Display system, you can access the various kinds of the features and functions in this product.

### • 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  buttons.  
The selected item will be highlighted in Yellow.
3. Press  button to set your selection.  
The selected menu page will be displayed on the screen.
4. Use  buttons to choose the item on the MENU page.  
Press  button to set your selection channels.
5. Use  buttons to adjust the item values or choose options.  
Press  button to set your selection.
6. To exit from the menu, press  button.

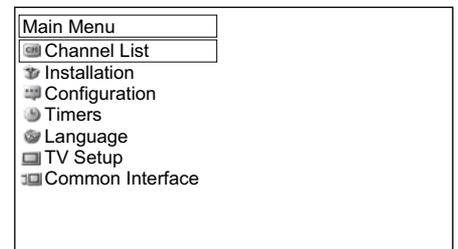


<Main Menu>



#### NOTE

- The OSD menu screen will be closed automatically when no operation has been made for about one minute.
- There is another main menu for DTT setting as shown. Refer to [40](#) about DTT main menu.



<DTT Main Menu>

## Language Menu

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

### How to set Language

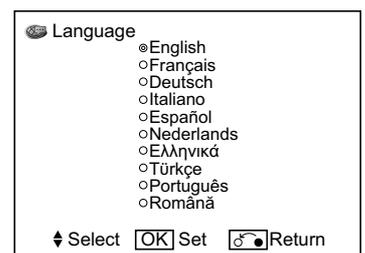
1. Enter the "Language" menu from the Main Menu.
2. Select the appropriate language with cursor from the list.  
The selected item will be highlighted in Yellow.
3. Press  button to set your selection.  
The black dot is marked inside of the circle when the selection is fixed.
4. Press  button to exit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

#### NOTE

- This setting is for Analogue OSD language. As for the DTT OSD language, refer to "System language" on [41](#).



For 42/55PD9700U

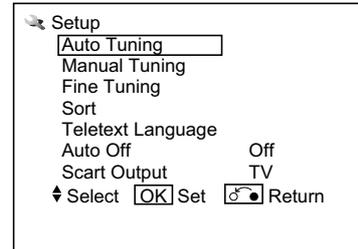


For 42/55PD9700C

# TV SETUP OPERATION (continued)

## Setup Menu (TV mode)

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



Selected Items			Setup hint
Auto Tuning	Country	( Page 1 )	Select the country where you watch TV so that it starts auto-tuning for appropriate channels. In case that some of the required channels are missed to tune in, set the channels with Manual Tuning Operation.
		( Page 2 )	
( Page 3 )			
( Page 4 )			
	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* *).
	Search	CH	Select the channel entry method, and enter the digits for channel you wish to watch. Press  button to start searching.
		S	
		MHZ	
	Descrambler	Off	Set this to Off normally. If it is set to On when selecting other than DTT in Scart Output, AV1 (Scart) terminal operates as TV signal output, and the screen changes to display AV1 (Scart) input signal automatically.
		On	
Name		<ol style="list-style-type: none"> <li>1. Move the cursor to the first digit and select the letters with  buttons.</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	L	Select the sound system from 5 different modes.	
	L'		
	BG		
	I		
	DK		

### Information

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

## TV SETUP OPERATION (continued)

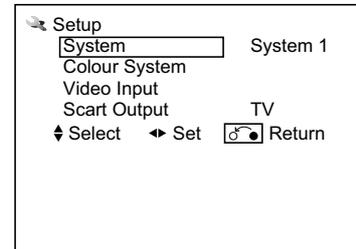
### Setup Menu (TV mode) (continued)

Selected Items		Setup hint	
Manual Tuning	Colour System	Auto	Select colour system from 5 different modes.
		PAL	
		SECAM	
		NTSC4.43	
		NTSC3.58	
	Skip	Off	It allows you to skip unregistered channels automatically when you use channel up (+) down (-) buttons to select channels. This function will automatically skip unavailable channels when set to on.
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  button.</li> <li>2. The colour of the letters on the designated line will be turned into yellow bracket and with [ ].</li> <li>3. Move the designated row by using  buttons.</li> <li>4. Press  button to fix the position.</li> </ol>	
Teletext Language		<p>The most appropriate Teletext Language is automatically selected depending on the country which you select in Auto Tuning. In case that the text is not displayed correctly, for example, because of living near a border, select another area as below.</p> <p>West Europe : West European countries and Turkey. (This is normal setting for use in Europe.)</p> <p>East Europe : East European countries</p> <p>Russian : Countries neighboring Russia and East European countries</p> <p>Farsi : Middle Eastern countries</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		
Scart Output	DTT	AV1 (Scart) will be fixed as the selected mode.	
	TV	<ul style="list-style-type: none"> <li>• When selecting "Monitor", it is possible to monitor only the composite video signal from AV2, AV3, AV4, or AV5 input that is displayed on the screen at the same time.</li> </ul>	
	Monitor	<ul style="list-style-type: none"> <li>• If "Descrambler" is set to ON when selecting other than DTT, it will be fixed as "TV" automatically.</li> </ul>	

# TV SETUP OPERATION (continued)

## Setup Menu (AV mode)

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

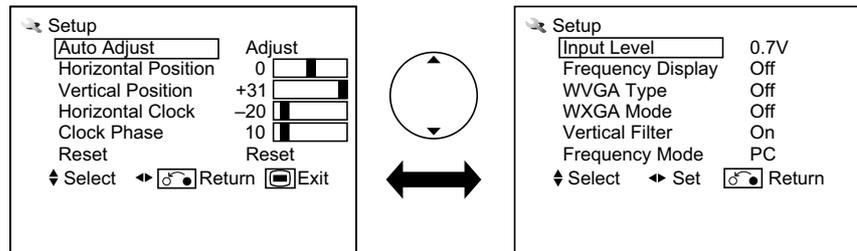


Selected Items			Setup hint	
<b>System</b>	System 1		Do not change the original setting. (System1: Europe/Asia, System2:North America) • Composite and S-video input only.	
	System 2			
<b>Colour system</b>	AV1~AV5	System 1	Auto	Select the colour system depending on the input signal. • Generally, select [Auto]. • 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 colour system of the input signal. • Composite and S-video input only.
			PAL	
			SECAM	
			NTSC4.43	
		System 2	NTSC3.58	
			Auto	
			NTSC-M	
			PAL-M	
<b>Video Input</b>	AV1	S.Video		For AV1 : Select depending on the type of input signal. • The default setting is [Composite]. Select [S.Video] when you want to watch S.Video image. For AV4 : Select the colorimetry depending on the input signal. • Generally, select [Auto]. • In case that the colour is not displayed correctly, select [HDTV] or [SDTV/DVD] to match the input signal. • Component Input only.
		Composite		
	AV4	Auto		
		HDTV		
		SDTV/DVD		
<b>Scart Output</b>	DTT		AV1 (Scart) will be fixed as the selected mode. • When selecting "Monitor", it is possible to monitor only the composite video signal from AV2, AV3, AV4, or AV5 input that is displayed on the screen at the same time. • If "Descrambler" is set to ON when selecting other than DTT, it will be fixed as "TV" automatically.	
	TV			
	Monitor			

## TV SETUP OPERATION (continued)

### Setup Menu (RGB mode)

With this menu, you can adjust the display condition of the image which is inputting from the RGB terminals. By pressing ▼ button at the bottom of the 1st Setup menu page, the 2nd Setup menu page will appear on the screen.



Selected Items		Setup hint
<b>Auto Adjust</b>		Adjust Horizontal Position, Vertical Position, Horizontal Clock, and Clock Phase automatically. <ul style="list-style-type: none"> <li>Press <b>OK</b> button to start auto adjustment. The message "Auto Adjusting" is displayed.</li> <li>Depending on the type of the signal, there is a possibility that the display may not be adjusted in its optimum condition with this function. In that case, please adjust each item manually.</li> </ul>
<b>Horizontal Position*</b>	-63~+63	Adjust the display position horizontally. <ul style="list-style-type: none"> <li>When the position exceeds the possible range, the display colour will turn into Magenta.</li> </ul>
<b>Vertical Position*</b>	-31~+31	Adjust the display position vertically. <ul style="list-style-type: none"> <li>When the position exceeds the possible range, the display colour will turn into Magenta.</li> </ul>
<b>Horizontal Clock*</b>	-31~+31	Minimize the vertical stripes on the screen.
<b>Clock Phase*</b>	0~63	Minimize the blurring of the letters and stripes on horizontal row. <ul style="list-style-type: none"> <li>Make sure to adjust <u>Horizontal Clock</u> first before adjusting Clock Phase.</li> </ul>
<b>Reset</b>		Reset all the set values on this Menu page to original factory settings.

## TV SETUP OPERATION (continued)

### Setup Menu (RGB mode) (continued)

Selected Items		Setup hint
Input Level	0.7V	<ul style="list-style-type: none"> <li>• Normally, select [0.7V].</li> <li>• Select [1.0V] only when the whole display becomes too white.</li> </ul>
	1.0V	
Frequency Display	Off	Select whether indicating the PC signal frequency information on Input Signal Screen Display or not.
	On	
WVGA Type	Off	It allows you to switch display size to [Full] and [Real]. (See “Size Switching” on <b>55</b> for the details.) <ul style="list-style-type: none"> <li>• This function is available only for WVGA signal.</li> <li>• Refer to “Recommended Signal List” on <b>75</b>.</li> </ul>
	On	
WXGA Mode	Off	<ul style="list-style-type: none"> <li>• This function is available only for WXGA signal.</li> <li>• Refer to “Recommended Signal List” on <b>75</b>.</li> </ul>
	1280x768	
	1366x768	
Vertical Filter	Off	Reduce the flickers on the screen when set to [On].
	On	
Frequency Mode	PC	Select [Movie] when you see the moving image on PC.
	Movie	

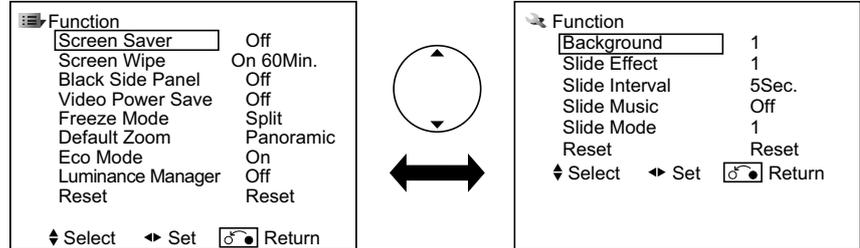
#### Information

- The items indicated by “★” can be automatically stored depending on the signal mode.
- The signal mode is identified by the Horizontal/Vertical frequency and the sync. signal polarity, which has almost same values in all the above items might be regarded as the same signal.
- The item “Auto Adjust” cannot be stored. Press  button to start auto adjustment as needed.

# TV SETUP 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 and Photo Input.



Selected Items		Setup hint
<b>Screen Saver</b>	Off	This is one of the initiatives to reduce image retention by moving the displaying screen slightly at set interval. You can select the interval with cursor button.
	5Min.	
	10Min.	
	20Min.	
	40Min.	
	60Min.	
<b>Screen Wipe</b>	On	This displays the white pattern to recover from the image retention. • On : Continuous Operation • 60Min. : Limited Operation for 60 minutes.
	60Min.	
<b>Black Side Panel</b>	Off	This can change the colour of sidebars showing up in normal mode. (Off:gray, On:black) It is recommended to set Off to reduce image retention. Please note that it is not available while operating Photo Input function.
	On	
<b>Video Power Save</b>	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 AV4 and standby mode in other AV input. (See <b>68</b> in details.)
	On	
<b>Freeze Mode</b>	Split	This is the useful function to watch the program in both still and active pictures. (See <b>60</b> in details.) • Split: half sized images • Strobe: thumbnail sized images
	Strobe	
<b>Default Zoom</b>	Panoramic	You can set the display size for TV / AV input screen appearing first when turning the main power On.
	4:3	
	14:9zoom	
<b>Eco Mode</b>	Off	This can reduce the power consumption.
	On	
<b>Luminance Manager</b>	Off	This helps to avoid the image retention such as station logo by lowering the brightness of 4 corners.
	On	
<b>Reset</b>		Each item on this menu screen can be restored to the original factory settings by pressing <b>OK</b> button.

### Information

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

## TV SETUP OPERATION (continued)

### Function Menu (continued)

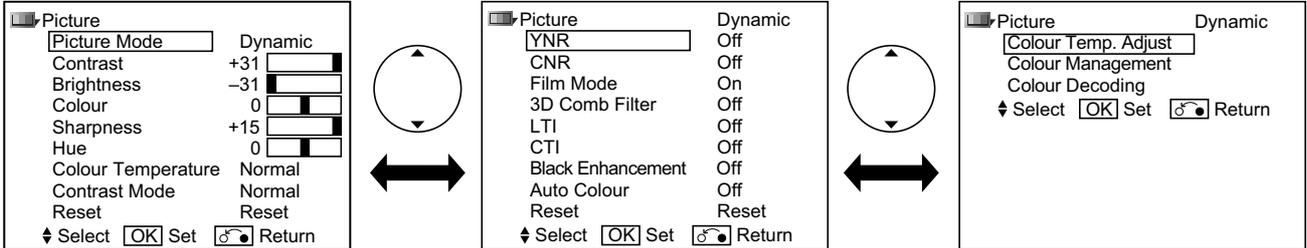
Selected Items		Setup hint
Background	1	This is available only for Photo Input function. Switch the pattern of background. See details on <a href="#">65</a> .
	2	
Slide Effect	Off	This is available only for Photo Input function. You can select the method of switching slides during slide show. See details on <a href="#">63</a> .
	1	
	2	
Slide Interval	5Sec.	This is available only for Photo Input function. You can select the interval time for switching slides during slide show. See details on <a href="#">63</a> .
	10Sec.	
	30Sec.	
Slide Music	Off	This is available only for Photo Input function. You can select the preferred Background Music during slide show. See details on <a href="#">63</a> .
	1	
	2	
Slide Mode	1	This is available only for Photo Input function. You can select where to start the slide show. See details on <a href="#">63</a> .
	2	
Reset		Each item on this menu screen can be restored to the original factory settings by pressing  button.

# TV SETUP OPERATION (continued)

## Picture Menu (TV/AV mode)

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 . • The maximum value can be extended to [+40] by pressing and holding ► button at [+31], which changes the colour between those numbers from yellow 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 .
<b>Colour*</b>	-31~+31	It can adjust colour density based on your preference by using .
<b>Sharpness*</b>	-15~+15	Preferred sharpness can be adjusted by pressing ◀ button for Softer image or ▶ button for Sharper image.
<b>Hue*</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 colour.
<b>Colour Temperature*</b>	Cool	You can select from 4 settings (default) depending on the colour condition with  buttons.
	Normal	
	Warm	
	Black/White	

## TV SETUP OPERATION (continued)

### Picture Menu (TV/AV mode) (continued)

Selected Items		Setup hint
Contrast Mode*	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. Auto: Adjust to natural brightness without blurred white by detecting the bright parts on images.
	Normal	
	Auto	
Reset		Each item on this menu screen can be restored to the original factory settings by pressing (OK) button.
YNR*	Off	This is a noise reduction system for picture signal.
	Low	
	High	
CNR*	Off	This is a noise reduction system for colour signal.
	Low	
	High	
Film Mode*	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	
3D Comb Filter*	Off	This is available only when receiving NTSC/PAL composite signal. This reduces the dot and colour blurring in minute scales so that it can reproduce purer colour.
	Low	
	High	
LTI*	Off	Adjusts the sharpness of the picture signals.
	Low	
	Middle	
	High	
CTI*	Off	Adjusts the sharpness of the colour signal.
	Low	
	Middle	
	High	
Black Enhancement*	Off	Adjusts the black level compensation.
	Low	
	Middle	
	High	
Auto Colour*	Off	This monitors and adjusts the colour to maintain constant colour levels. It also maintains natural flesh tones while preserving fidelity of background colours. This is available only when receiving an NTSC composite and S.Video signal.
	On	
Reset		Each item on this menu screen can be restored to the original factory settings by pressing (OK) button.

## TV SETUP OPERATION (continued)

### Picture Menu (TV/AV mode) (continued)

Selected Items		Setup hint	
Colour Temp. Adjust**	On	Amplitude	<p>On: When you want to set specific adjustments in each of the 4 Colour Temperature modes. You can adjust on the amplitude and cut off. The settings reflect on the Colour Temperature.</p> <p>Amplitude: subdue the following colours on the brighter parts.</p> <p>Cut off : subdue the following colours on the darker parts.</p>
		Red	
		Green	
		Blue	
		Cut off	
		Red	
		Green	
	Blue		
Off	Off: Remains as default setting.		
Colour Management**	On	Magenta	<p>On: Turn On to adjust the balance of each colours depending on the user's preference. The settings reflect in each of the 4 Colour Temperature modes.</p> <p>Off: Remains as default setting.</p>
		Red	
		Yellow	
		Green	
		Cyan	
		Blue	
	Off		
Colour Decoding	RGB/R/G/B	<p>This can adjust R/G/B level and Hue to make the colour appear naturally for the user's appearance.</p> <p>First, select RGB (multiple colour screen) or R/G/B(single colour screens) to check the colour decoding effects while adjusting. Then, you can adjust the level of colour (red and green), colour intensity, and Hue. Press  to save the setting. The settings reflect in each of the 4 Colour Temperature modes.</p>	
	Red**		
	Green**		
	Colour*		
	Hue*		

#### Information

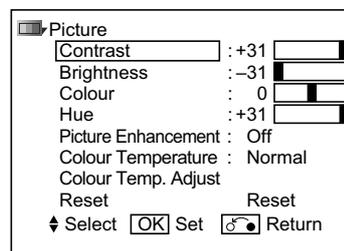
The items indicated by “\*” can be stored the setting for each of inputs and picture modes (Dynamic/Natural/Cinema). You can enjoy different setting depending on the selected input such as VCR in AV1.

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

# TV SETUP OPERATION (continued)

## Picture Menu (RGB mode)

In this menu, you can make specific adjustments for the RGB picture based on your preference.



Selected Items		Setup hint
<b>Contrast</b>	-31~+31 (+32~+40)	This adjusts the contrast to meet the lighting environment by using ◀ ▶. <ul style="list-style-type: none"> <li>The maximum value of the menu display can be extended to [+40] by pressing and holding ▶ button at [+31], which changes the colour between those numbers from yellow to magenta. This is the special feature prepared for the dark scene. At normal condition, it is recommended to set the value less than [+31].</li> </ul>
<b>Brightness</b>	-31~+31	Adjust according to personal preference by using ◀ ▶.
<b>Colour</b>	-31~+31	Adjust according to personal preference by using ◀ ▶.
<b>Hue</b>	-15~+15	Pressing ◀ button enhances red and weakens green, while pressing ▶ button weakens red and enhances green. The setup hint is adjusting for the realistic skin colour.
<b>Picture Enhancement</b>	Off	You can select the preferred sharpness on detailed parts.
	Low	
	Middle	
	High	
<b>Colour Temperature</b>	Cool	You can select from 4 settings (default) depending on the lighting condition with ◀ ▶ buttons.
	Normal	
	Warm	
	Black/White	

## TV SETUP OPERATION (continued)

### Picture menu (RGB mode) (continued)

Selected Items		Setup hint	
Colour Temp. Adjust.**	On	Amplitude	On: When you want to set specific adjustments in each of the 4 Colour Temperature modes. You can adjust on the amplitude and cut off. The settings reflect on the Colour Temperature. Amplitude: subdue the following colours on the brighter parts. Cut off : subdue the following colours on the darker parts.
		Red	
		Green	
		Blue	
		Cut off	
		Red	
		Green	
	Blue	Off: Remains as default setting.	
Off			
Reset	Each item on this menu screen can be restored to the original factory settings by pressing  button.		

#### Information

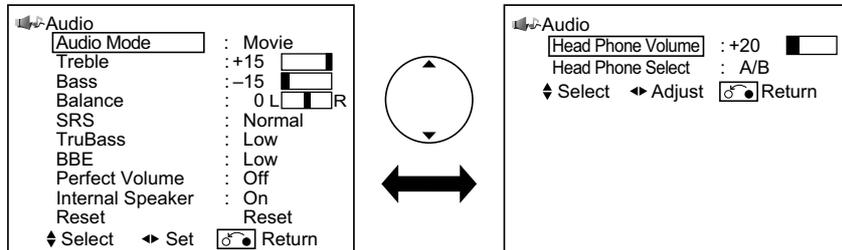
There is a useful function to automatically store the setting on menu in almost every item so that you do not have to reset every time. Furthermore, the following items can be stored more specifically.

In addition, the items indicated by “\*\*” can be stored the setting for each of colour temperature modes.

# TV SETUP 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 "Favourite".
	Music	
	Speech	
	Favourite	
<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. Select it depending on your preference.
	Normal	
	Wide	
<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>Reset</b>		Reset all the set values on this Menu Page to the original factory settings.

## TV SETUP OPERATION (continued)

### Audio Menu (continued)

Selected Items		Setup hint
Headphone Volume	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.
Headphone Select	A/B	Select either side of the display that you want to hear the sound with headphone during 2-picture mode. (See "Multi Picture Mode" on <a href="#">56</a> ) • A/B : You can select either side A (left side) or side B (right side) which the sound comes into the headphone. The speaker icon will be displayed on the side you select.
	B	• B : You will hear the sound only from the side B (right side) of the display.

#### NOTE

The headphone output is NOT available when the image from the RGB or Photo Input is on the screen.

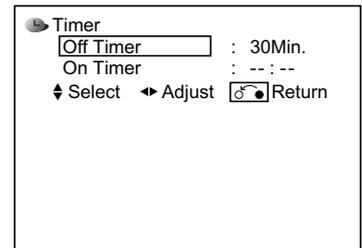
#### Information

There is a useful function to automatically store the setting on menu in almost every item so that you do not have to reset every time. Furthermore, the following items can be stored more specifically.

The items indicated by "★★" can be stored the setting for each of Audio Mode.

### 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. Input the desired time within the range of 00:00 to 11:59 by using  button on the remote control.

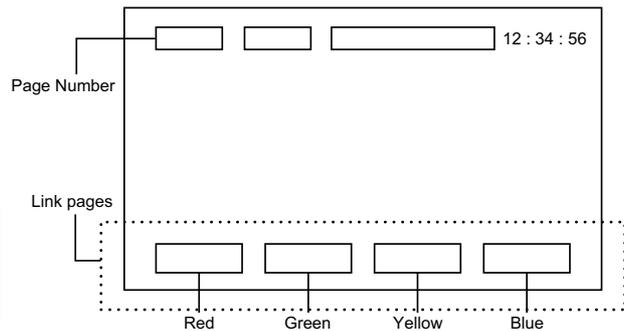
# TV SETUP OPERATION (continued)

## Analogue Teletext

### • 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 **26**.



ENGLISH

Operation	Press
To activate Teletext mode. To exit from the Teletext mode.	 [TV↔Text]
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 colours of the letters on screen.)	 [Colour]
To hold the text picture.	 2-4-12 [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.

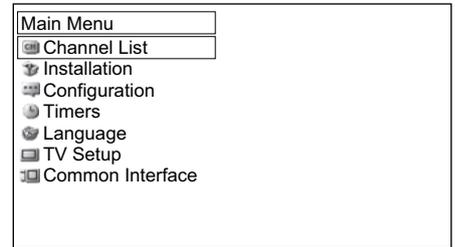
# DIGITAL TERRESTRIAL TELEVISION (DTT) OPERATION

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

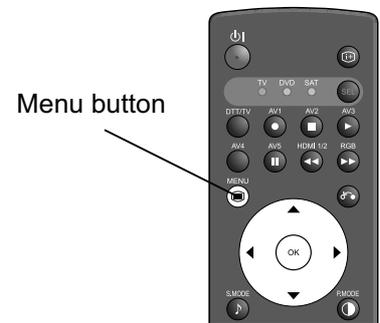
With the On-Screen Display system, you can access the various kinds of the features and functions in this product.

### • Basic Operation

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



<DTT Main Menu>  
\*This is the example of 42/55PD9700U.



#### NOTE

- The OSD menu screen will be closed automatically when no operation has been made for about one minute.



### About DTT Function

Please note that the DTT function of your television has several differences depending on the model and service of each country. Check the reference page for the details.

Menu / Function	Difference	Page
<b>1. OSD</b>		
Channels (Channel List)	For 42/55PD9700C, "Channels" appears in the main menu, and "Channel List" can be selected from "Channels" menu. For 42/55PD9700U, "Channel List" appears in the main menu.	24
		40
		42
		43
		48
Channel Sort	Available only for 42/55PD9700C.	43
Country	The preferred country can be selected from "Country" menu only for 42/55PD9700C.	41
Audio Language	The selectable items from the menu are different.	47
Subtitle		47
<b>2. Service</b>		
Receiver Upgrade	Depends on the service of each country.	49
Digital Teletext		44
Electric Programme Guide (EPG)		45
Timer programming		46

# DIGITAL TERRESTRIAL TELEVISION (DTT) OPERATION (continued)

## Changing Preset

If you want to change the setting after completing the easy preset, set up individually as follow. Refer to **21** about the easy preset.

### Re-Installing DTT channels

Reset to the factory setting.

1. Press  button on the remote control.
2. Select **"Installation"** on the DTT main menu.
3. Select **"First Time Installation"**.
4. Select the preferred language by using  button and press  button. (42/55PD9700C only)
5. Select the country where you watch by using  button and press  button. (42/55PD9700C only)
6. The message appears as shown. Press **"Yes"**.

Your previous digital channel list will be erased.  
Are you sure you want to delete all digital channels and settings for first time installation?

Yes

No

Searching for New Channels.

1. Press  button on the remote control.
2. Select **"Installation"** on the DTT main menu.
3. Select **"Add New Channels"**.
4. Choose either **"Automatic Search"** or **"Manual Search"**. (**"Automatic Search"** (recommended) searches through all available broadcast frequencies for free-to-air channels whereas **"Manual Search"** searches on a single broadcast frequency.)

### Changing System Language (OSD) and Country

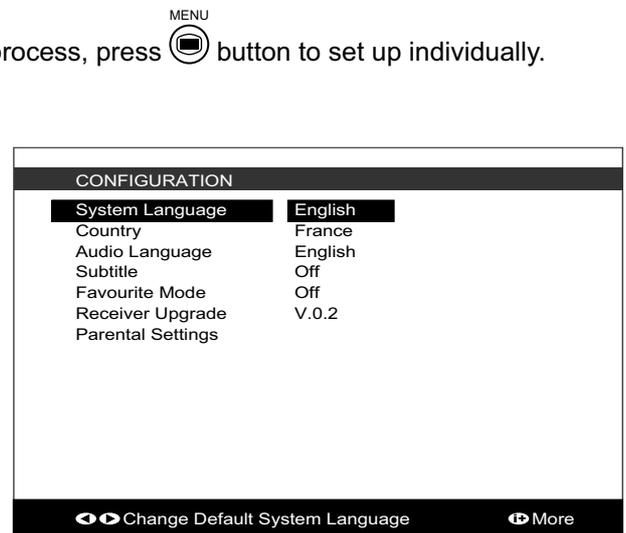
If you want to change the setting after completing Easy Preset process, press  button to set up individually.

#### ●System Language

You can select your preferred OSD language on DTT mode.

1. Press  button on the remote control.
2. Select **"Configuration"** on the DTT main menu.
3. Select **"System language."**
4. Select the language by using  button and press  button on the remote control.

→ English ↔ French ↔ German ↔ Italian ↔ Spanish ←



#### ●Country (only for 42/55PD9700C)

Select the country where you watch TV. It will have an effect on the tuning.

1. Press  button on the remote control.
2. Select **"Configuration"** on the DTT main menu.
3. Select **"Country"**.
4. Select the country by using  button and press  button on the remote control.

For Continental model: 42/55PD9700C

→ France ↔ Germany ↔ Spain ←

\* The item "Country" appears only for 42/55PD9700C.

# DIGITAL TERRESTRIAL TELEVISION (DTT) OPERATION (continued)

## Channel Selections

There are 4 ways to select the channels: stepping through the channel, selecting by number, selecting from the on-screen channel list, and using the Electronic Programme Guide (EPG).

### Stepping through the Channel

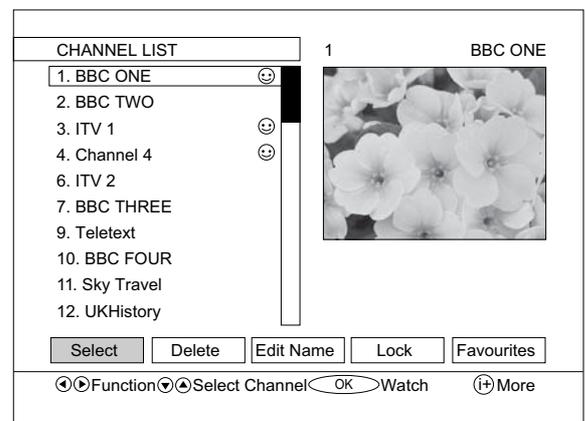
Press CHANNEL UP/DOWN button to switch the next or previous channel on the list. Information banner is displayed every time channel is switched.

Refer to [44](#) about the information banner.

### Selecting from the On-screen Channel List

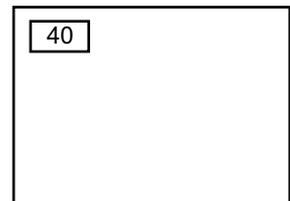
#### Selecting from the On-screen Channel List

1. Press  button on the remote control.
2. Select **"Channel List"** (from **"Channels"** if your TV is 42/55PD9700C).
3. Use  button to move through the list, and RED/GREEN to display next or previous page.
4. Press  button to select the channel, along with a quarter screen image of the selected channel.
5. Press  button again to return the normal full screen.



### Selecting by Number

Enter the number based on its channel list by the numeric buttons on the remote control. A small box appears in the upper left corner of the screen to show entered number. Channel is switched along with the information banner. If the entered number is not valid for one of the setup channels, it automatically selects the closest channel.



### Using the Electronic Programme Guide (EPG)

Press  button to access EPG screen.

The EPG screen displays a list of the stored channels (5 channels per page) along with the description of the programme being broadcast.

To change channels, use  and RED/GREEN buttons and then  button.

Refer to [45](#) regarding Electronic Programme Guide for details.

#### NOTE

Please note that DTT menu and Teletext image (without picture) cannot be supported at the same time. (Audio and picture are available.)

The followings are the examples.

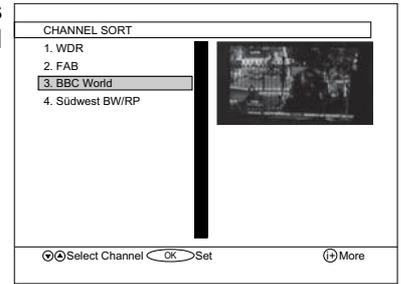
- If the quarter images on EPG or Channel List screen is from Teletext, those images cannot be displayed.
- If you try to display the menu whilst displaying Teletext (without picture), the teletext screen becomes unavailable.

# DIGITAL TERRESTRIAL TELEVISION (DTT) OPERATION (continued)

## Channel Sort

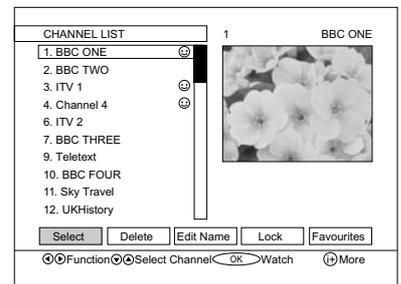
If your TV is 42/55PD9700C in Spain or Germany, you can sort the channels manually as you want. (The channels in UK & France will be automatically sorted when installing.)

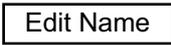
1. Press  button.
2. Select **"Channels"** on the DTT main menu.
3. To sort the channels, select **"Channel Sort"** by pressing  button.
4. Select the channel you wish to sort with  button and then press  button.
5. Using  button, shift the channel to the preferred position and press  button.



## Channel Editing

1. Press  button on the remote control.
2. Select **"Channel List"** (from **"Channels"** if your TV is 42/55PD9700C) on the DTT main menu.
3. To edit the channel, highlight the required channel with  button.
4. Then, using  button to select one of the buttons at the bottom of screen depending on the needs.



Button	Functions	Procedures
	Delete the unwanted channel.	The warning message shows up to confirm the deletion.
	Rename the channel.	The channel name highlighted with the first character appears. Use  button to select each of character. Then, pressing  button changes the highlighted characters (ex. UP key : a → b, DOWN key : b → a). Numeric buttons can be also used to replace the highlighted character. Refer to the "Character Input" table as shown below for details.
	Lock the channel with the code.	The password dialogue is displayed. Enter the parental Lock code. Refer to <a href="#">48</a> regarding the parental Lock code.
	Set as a favourite channel. Only selected channels will appear when using  button on the remote control to change channel.	The icon  appears to identify it as the favourite channel. To activate this setting, Favourite Mode needs to be turned ON from the Configuration menu. (See <a href="#">49</a> for Favourite Mode.)

5. Press  button to save the change.
6. Press  button to return to normal broadcast viewing.

**Character Input** : You can edit the name of channel by using numeric buttons of remote control as below.

Numeric buttons	1	2	3	4	5	6	7	8	9	0
Character	ABC	DEF	GHI	JKL	MNO	PQR	STU	VWX	YZ	Blank
	1	2	3	4	5	6	7	8	9	0
	abc	def	ghi	jkl	mno	pqr	stu	vwx	yz&.	+-*!/

\* By pressing  button, further characters and punctuation marks can be selected besides all of the above.

# DIGITAL TERRESTRIAL TELEVISION (DTT) OPERATION (continued)

## Utilizing the Information Tool

### Information Banner

Whenever the channels are changed using the  button or numeric buttons, the TV displays the picture along with an information banner at the bottom of screen for approximately 3 seconds. The information banner also appears by pressing  button whilst watching DTT. Press it again to return to normal viewing screen.

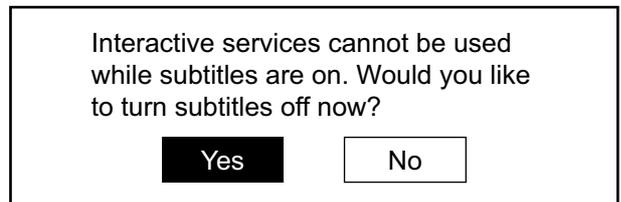
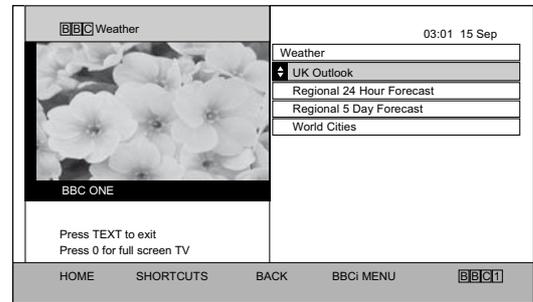
Now:	50/50	16:10-16:35
Next:	Ace Lightning	16:35-17:00
1.	BBC ONE	Signal Level:  19:28

### Digital Teletext

(42/55PD9700U only)

Teletext can provide various information with text on the screen.

- Press  button to access. Press it again to return to the normal screen.
- You can also access Teletext screen by pressing RED button, depending on the programme being broadcast. At the time, Press RED box might appear on the upper right corner on the screen.
- Digital teletext and subtitles cannot be activated at the same time. Subtitle should be turned off to activate teletext.
- If you try to activate teletext during subtitles ON, the dialogue box appears to ask you to turn subtitles off as shown.



Operation	Press
This switches the receiver between the TV mode and TELETEXT mode.	 [TV⇌TEXT]
Use this to access a subtitle service directly rather than through a TELETEXT service (subject to subtitle service broadcasting).	 [Subtitle]
Each of these buttons selects a link page displayed at the lower part of the screen.	 [Colour]



#### NOTE

When you are asked to press SELECT in the menu of digital teletext, press  button on the remote control.

#### NOTE

The service of digital broadcasting signal varies depending on the country. Therefore, the Teletext for 42/55PD9700C is displayed as Analogue Teletext. See [39](#) how to operate at Analogue Teletext mode.

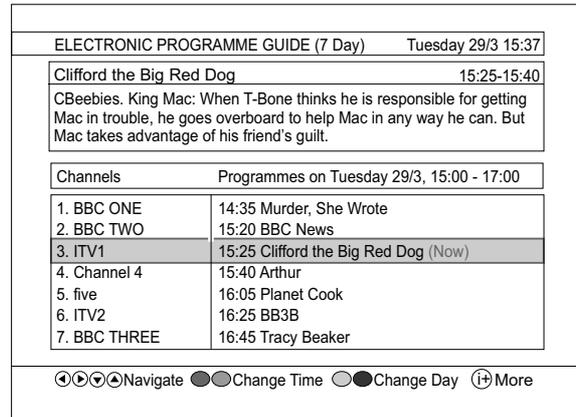
## Utilizing the Information Tool (continued)

### Electronic Programme Guide (EPG)

Like the Channel Lists, the EPG screen displays a list of the stored channels along with information on what programmes are being broadcast. You will have either 7 days EPG or Now and Next EPG if the service is available.

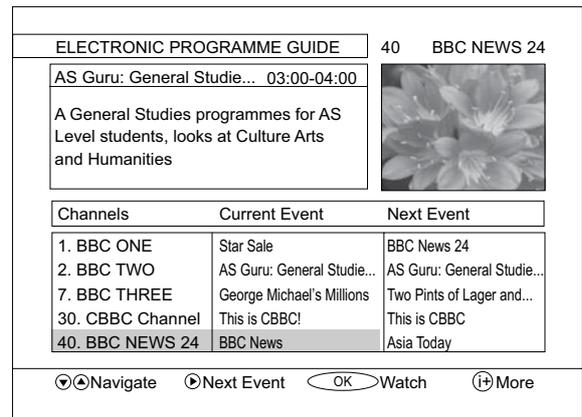
#### 7days EPG

1. Press button to display EPG screen.
2. Select channels with button.
3. Show programmes on channels in 7days by the following colour buttons.  
 RED; Time backward  
 GREEN; Time forward  
 YELLOW; Day backward  
 BLUE; Day forward
4. Select desired programme using button and then button. The description of desired programme shows up if available.
5. Press button to switch between "7 days EPG" and "Now and Next EPG".



#### Now and Next EPG

1. Change to "Now and Next EPG" from "7 Days EPG" menu with key.
2. Select the page containing desired channel with RED or GREEN buttons and the desired channel using button.
3. Select Current Event or Next Event using button.
4. The detailed description of programme shows up if available. If it is too long to fit into the text window, use YELLOW or BLUE buttons to see it.



Press button again to return to the normal screen.

Timmer Programming is available among the programmes in the future. See [46](#) in details.

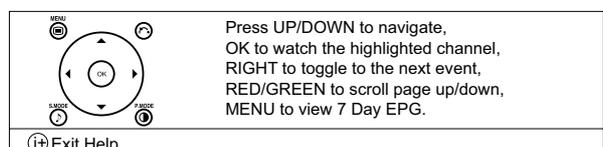
#### NOTE

- Not all channels broadcast all programme information data. Some channels do not provide programme name and details. In that case, only channel names are displayed.
- The function of 7days EPG is not available depending on the country and broadcast service.
- For 42/55PD9700C, "Now and Next EPG" will be displayed first by pressing button.

### More Information Display

Each of the menu pages and EPG pages has More displays at the bottom of the page.

By pressing button whilst displaying those pages, a box appears showing how to proceed the next step. Press it again to exit the display.



[Example : Now and Next EPG]

## Timer Programming

Timer Programming is available to not only record multiple programmes but also remind you that the desired programme is about to start whilst you are watching another channel.

### From “Timers” Menu

You can record multiple programmes from “Timers Menu”.

1. Press  button on the remote control.
2. Select “Timers” from the DTT main menu.
3. Highlight the item on the row of “Mode” using  button.
4. Press  to display the timer entry window.
5. Set channel name using  button.
6. Set Start Time, End Time, and Date with the numeric buttons.
7. Set the frequency mode (Once, Daily, or Weekly) using  button.
8. Press  button to return to the Timer Screen. The mode will automatically be set to “Active” if time and date are valid. (The message “Entered time is not valid” is displayed if invalid and “Please choose a date and time in the future” is displayed if not input.).
9. Press  button or  button to set up.
10. The message appears to ask “Switching to timer channel” to remind you that the selected programme is about to start. If in menu operation or displaying other than channel programme screen, the message “A programme that you set a timer for has started. Would you like to exit and switched to [channel name]?” is displayed.

\* The selected channel can be watched or recorded via Scart 1 Output. Refer to [15](#) for the details.

PROGRAMME TIMERS						
No	Channel Name	Start	End	Date	Mode	
1.	ITV 1	20:00	21:00	12/05/2006	Active	
2.	BBC TWO	08:00	09:00	12/06/2006	Active	
3.	BBC THREE	10:00	11:00	12/06/2006	Active	
4.	BBC ONE	01:00	01:00	01/01/2006	Inactive	
5.	BBC ONE	01:00	01:00	01/01/2006	Inactive	
6.	BBC ONE	01:00	01:00	01/01/2006	Inactive	
7.	BBC ONE	01:00	01:00	01/01/2006	Inactive	
8.	BBC ONE	01:00	01:00	01/01/2006	Inactive	

19:54  
11/05/2005

◀ Toggle Mode   MENU   Exit   OK   Edit Timer   More ▶

Name:	3. ITV 1
Start:	20:00
End:	[2] 1:00
Date:	12/05/2006
Mode:	Once

### From EPG Screen

If you find the programme you wish to record on EPG screen, you can directly set the timer from EPG screen.

1. Press  button to display EPG menu.
2. Using  button, select the programme you wish to record.
3. Press  button so that it leads to the Timers menu screen.
4. After confirming the setting, press  button to return to EPG screen.

#### NOTE

- Timer Programming can be set until 31, Dec 2037.
- You can set timers up to 8 programmes in total. If you try to set more than that, the box will ask you to deactivate one of them.
- A timer can not be set if it is overlapped with another. The box will appear if there is an overlap timer.

# DIGITAL TERRESTRIAL TELEVISION (DTT) OPERATION (continued)

## Configuring the Setting

### Setting Audio and Subtitle Language

The available audio and subtitle languages can be checked from **“Language”** menu. Then, you can set your preferred language from **“Configuration”** menu as below.

#### Audio Language

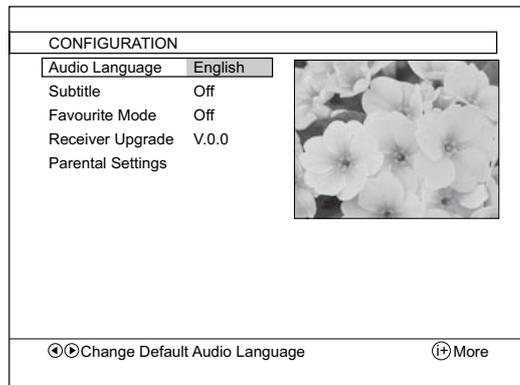
1. Press  button on the remote control.
2. Select **“Configuration”** on the DTT main menu.
3. Select **“Audio Language”** to highlight it.
4. Use  button to select the language.

For 42/55PD9700U

→ English ↔ Welsh ↔ Gaelic ←

For 42/55PD9700C

→ English ↔ French ↔ German ↔ Italian ↔ Spanish ←



#### Subtitle

1. Press  button on the remote control.
2. Select **“Configuration”** on the DTT main menu.
3. Select **“Subtitle”** to highlight it.
4. Use  button to select other than **“off”** in order to be activated.

For 42/55PD9700U

→ Off ↔ English ↔ Welsh ↔ Gaelic ←

For 42/55PD9700C

→ Off ↔ English ↔ French ↔ German ↔ Italian ↔ Spanish ←

You also can turn subtitles On/Off by pressing  button.

ENGLISH

# DIGITAL TERRESTRIAL TELEVISION (DTT) OPERATION (continued)

## Configuring the Setting (continued)

### Setting the Protection

There are various kinds of protection to avoid certain operations: Channel Lock and Menu Lock (Main Menu Lock and Installation Lock).

#### Set Lock Key

To use the locks effectively, do change the PIN code from the factory default setting, which should be known and remembered only by you. The default setting is 0000.

1. Press  button on the remote control.
2. Select **“Configuration”** on the DTT main menu.
3. Select **“Parental Setting”**
4. A box asking for the Lock key is displayed. Enter the current PIN code.
5. From the next box appeared, select **“Set Lock Key”**

Menu Lock	Installation
Set Lock Key	

6. Enter new password twice.

Lock Key	****
Confirm	

7. Press  button to return to normal viewing in order to activate the lock.

#### Channel Lock

With Channel Lock, any channel can be locked so that it cannot be selected for viewing without four digits PIN code(See above).

1. Press  button on the remote control.
2. Select **“Channel List”** (from **“Channels”** if your TV is 42/55PD9700C).
3. Highlight the channel which you want to lock with  button.
4. Select  Lock button at the bottom of screen with  button.
5. Press  button to set up and enter Pin Number.
6. Press  button to activate it.

#### Menu Lock

##### <Installation Menu Lock>

If re-installing the complete channel list, “Channel Lock” loses its effect. To avoid this, “Installation Menu Lock” can be set.

1. Press  button on the remote control.
2. Select **“Configuration”** from the DTT main menu.
3. Select **“Parental Settings”** on the configuration menu.
4. The dialogue box appears to enter the lock key.
5. Another dialogue box is displayed as shown.
6. Highlight **“Menu Lock”** and use button to select **“Installation”**.

Menu Lock	Installation
Set Lock Key	

7. Return to the normal TV viewing to activate it.

##### <Main Menu Lock>

This locks out the complete menu system. Main menu is only available with the PIN code. Without the code, the user cannot add, delete, rename, move channels, and set timers.

To activate **“Main Menu Lock”**, follow the same steps except #6 selecting **“Main Menu”** instead of **“Installation”**.

## Configuring the Setting (continued)

### Upgrading DTT

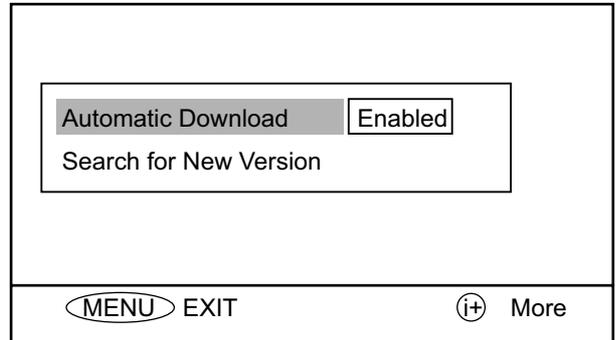
The DTT can be upgraded via the configuration menu.

1. Press  button on the remote control.
2. Select **“Configuration”** from the DTT main menu.
3. Select **“Receiver Upgrade”**.
4. Press  button to select **“Automatic Download”** along with **“Enabled”**.

Automatic upgrade method takes place in standby/power save mode.

The indicator lamp will blink whilst this is taking place. The TV will check if new software is available every time you go to standby/power save or every night at 3:00 a.m. if select **“Enabled”**.

You can check the current software version on the configuration menu. (See [41](#) as an example.)



#### NOTE

- Manual upgrade starts if the **“Search for New Version”** button is pressed instead of **“Automatic Download”** button. To use this method, follow each dialogue box in sequence.
- We do not recommend that the set is left in standby/power save mode if you intend to leave the home for a long time.
- While downloading software, you cannot operate TV. No picture is displayed, either.

### Setting Favourite Mode

By activating Favourite Mode from the configuration menu, only selected favourite channels will appear when using



button on the remote control to switch channels.

Refer to [43](#) how to set the channel as Favourites.

1. Press  button on the remote control.
2. Select **“Configuration”** from the DTT main menu.
3. Select **“Favourite Mode”**.
4. Use  button to select **“On”** to be activated.

# DIGITAL TERRESTRIAL TELEVISION (DTT) OPERATION (continued)

## Common Interface

Common Interface enables you to plug in a module which for example receives Pay TV service. Once the common interface module has been successfully inserted, select a service from the DTT main menu as follows.

1. Press  on the remote control.
2. Select **“Common Interface”** to show a new menu.
3. Select one of the buttons to enter that module’s menu.

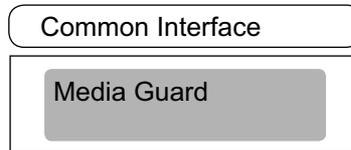


Figure 1.  
Common interface Menu with modules inserted into the slots.

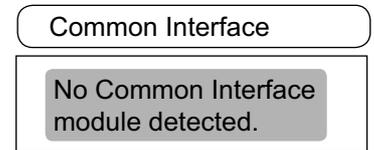


Figure 2.  
Common interface without modules inserted.

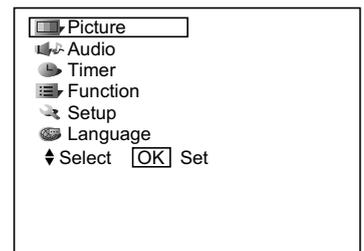
Each module display different item, depending on the module inserted.

### NOTE

Please ask the service provider if the module type is suitable for TV. The TV supports modules meeting DVB standard.

## TV Setup Menu

**“TV Setup”** menu can be accessed from the DTT main menu. As selecting **“TV Setup”**, it jumps to the TV main menu containing Analogue TV functions. Refer to [24](#) ~ [39](#) regarding the settings for details.



# FUNCTION

## Power Swivel

With the Desktop stand, you can adjust the angle of the panel side to side by pressing  button on the remote control.

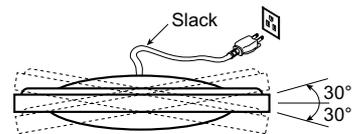
1. Press  button on the remote control.  
The Swivel Display (as shown in the figure on the right) will appear on the screen.
2. Adjust the angle of the panel with  buttons while Swivel Display is on the screen.  
The monitor will be able to move  $\pm 30$  degrees to each side.



SWIVEL button



The Swivel Display



### CAUTION

- When you use the Power Swivel function, make sure that the Power Cord, cord or chain connected to the wall is loose enough to operate the Swivel function securely.
- Do not put hands or face near the unit while operating the Swivel. It could cause personal injury. Beware especially when small children are around the unit.

### NOTE

- If the stand cable is not connected to the unit, the message “Not Available” will appear on the screen.
- The Swivel Display will automatically disappear when no operation has been made for about 6 seconds.

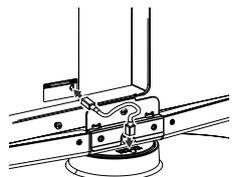
### CAUTION

- Do not push the panel with your hands while operating the Swivel. It could damage the panel and/or stand.
- Do not allow children to play or hang on the TV. These actions may tip it over, causing personal injury.
- Do not swing the monitor back and forth.
- Do not place any fragile objects around the unit. The monitor would hit the object(s) during the Swivel operation and could cause the breakage of the objects and/or the stand.
- To operate the Swivel function correctly, place the monitor on the stable surface.
- When you use the unit as wall-mounting, disconnect the stand cable from the monitor before installation.

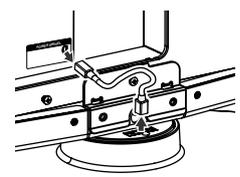
### Information

About Swivel terminal connection

- To connect the Desktop stand to the unit.  
Connect the designated stand cable to the Swivel terminal on the rear side of the unit.



- To disconnect the stand from the unit.  
Before detach the stand from the unit, make sure to disconnect the stand cable from the Swivel terminal on the rear side of the unit.



### CAUTION

- When you install the Desktop stand, follow the Instructions of the Manual included with the stand.
- Turn Off the Main Power of the unit when connecting or disconnecting the stand cable to the unit.

## FUNCTION (continued)

### Size Switching

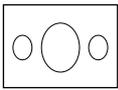
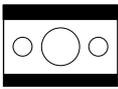
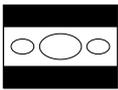
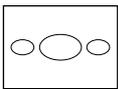
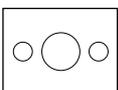
Each time  button of the remote control is pressed, the screen display size is switched in sequence, and the status will be displayed at the bottom of the screen.

ZOOM button



### DTT/TV/AV1~AV3 signal input

Auto → Full → Zoom → C14:9L → 14:9Zoom → Panoramic

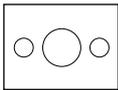
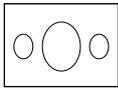
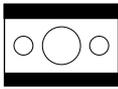
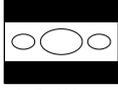
Current Output Image (Input Signal)	Display Size	To display suitable screen as follows.
	Auto	Play a image with the suitable format by automatically selecting depending on the picture format or programme being broadcast. Default Zoom setting in the Function Menu will be selected if WSS signal or size switching signal is not detected in DTT, TV and AV mode.
 (Squeeze)	Full	Play a 4:3 image faithfully in the standard vertical size and horizontally squeezed.
 (Vista)	Zoom	Play a 16:9 image in 4:3 screen (Vista size) faithfully. *In some cases, slight blanking may remain at the top and bottom.
 (14:9 Signal)	C14:9L	Play a 14:9 image in 16:9 screen, which is expanded vertically and squeezed horizontally. This mode is provided for the broadcasting programme with WSS code-C14:9L.
 (14:9 Signal)	14:9Zoom	Play a 14:9 image in 16:9 screen, which is expanded vertically. This mode is provided for the broadcasting programme with WSS code-14:9Zoom.
 (4:3 Signal)	Panoramic	Play a 4:3 image which enlarges horizontal and vertical size of the middle in equal scales, and displays both sides appearing much wider.

# FUNCTION (continued)

## Size Switching (continued)

### AV4 / AV5 / HDMI1 / HDMI2 signal input

→ Panoramic → 4:3 → Full → Zoom → C14:9L → 14:9Zoom →

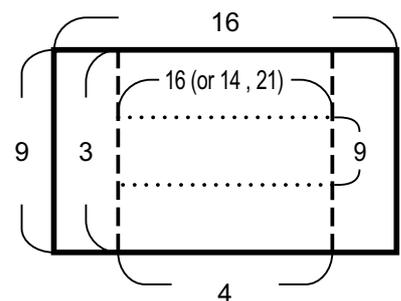
Current Output Image (Input Signal)	Display Size	To display suitable screen as follows.
 (4:3 Signal)	4:3	Play a 4:3 image on screen faithfully. Blanking occurs on both sides.
	Panoramic	Play a 4:3 image which enlarges horizontal and vertical size of the middle in equal scales, and displays both sides appearing much wider.
 (Squeeze)	Full	Play a 4:3 image faithfully in the standard vertical size and horizontally squeezed.
 (Vista)	Zoom	Play a 16:9 image in 4:3 screen (Vista size) faithfully. *In some case, slight blanking may remain at the top and bottom.
 (14:9 Signal)	C14:9L	Play a 14:9 image in 16:9 screen, which is expanded vertically and squeezed horizontally. This mode is provided for the broadcasting programme with WSS code-C14:9L.
 (14:9 Signal)	14:9Zoom	Play a 14:9 image in 16:9 screen, which is expanded vertically. This mode is provided for the broadcasting programme with WSS code-14:9Zoom.

**NOTE**

The display size in AV4, HDMI1, and HDMI2 is fixed at Full mode when receiving 1080i or 720p format signal.

**Information**

Aspect ratio represents horizontal : vertical ratio on screen.



## FUNCTION (continued)

### Size Switching (continued)

#### ● Position Adjustment

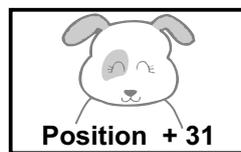
Vertical picture position can be adjusted for **Panoramic**, **Zoom**, **C14:9L**, and **14:9 Zoom** mode as follows.

1. Press  buttons while operating the picture size display.
2. "Position" display will appear.
3. Adjust the position by  buttons.

Adjustment range of each picture size are as shown below.

<b>Panoramic:</b>	-12 to+12 (The position cannot be adjusted in Panoramic 2 mode.)
<b>Zoom:</b>	-31 to+ 31
<b>C14:9L and 14:9 Zoom:</b>	-16 to+ 16

\*When 1080i/60 component signal is received, it can be adjusted only 0 to +1.



Press ▲



Press ▼

#### ● Size Adjustment

##### • Full Mode

Whilst displaying a picture of 1080i format in AV4, HDMI1, HDMI2, or RGB input, the full mode can be switched further between Full1 and Full2 with  buttons on the remote control.

By selecting Full2, you can see the whole image of 1080i format on the screen display from the input terminals.

Depending on the input signal or connecting device, the screen display has unnecessary blanking or noise at the edges. Considering the case, the default setting is Full1 which enlarges the vertical size not to display the blanking and noise.

##### NOTE

- The screen saver function does not work at Full2 mode.
- This function is available only for 42PD9700 U/C.

##### • Panoramic Mode

Whilst displaying a picture except RGB input, the panoramic mode can be switched further between Panoramic 1 and Panoramic 2 with  buttons on the remote control.

By selecting Panoramic 2, the vertical size is scaled down so that you can see the whole image without blanking ; for example, you can see the subtitle at the bottom of screen without lacking.

##### NOTE

The function does not work when selecting Auto [Panoramic].

**FUNCTION (continued)**

**Size Switching (continued)**

**⚠ CAUTION**

**Using a wide-screen monitor**

- This monitor 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.

**RGB signal input**

You can select suitable size depending on the resolution.



\*Real mode gives the image with same shapes as that of computer monitor.  
 This mode is only available for VGA(640x480) and WVGA(864x480) in 42PD9700U/C, and from VGA(640x480) to WXGA(1280x768) in 55PD9700U/C.

**Display Area Selection Diagram**

Resolution	Full display	Circular display				
Display	Full	Normal	Real*	Zoom1	Zoom2	Zoom3
640 X 480 (VGA)						
800 X 600 (SVGA)						
1024 X 768 (XGA)						
1280 X 1024 (SXGA)						
1600 X 1200 (UXGA)						

In the signal display chart shown above, some compression or stretching has taken place. Flicker may be noticeable in zoom1~3 modes depending on content.

To reduce this flicker, turn "Vertical Filter" On from "Setup Menu" (29).

## FUNCTION (continued)

### Multi Picture Mode

With this feature, you can watch different channels simultaneously on one screen in several ways. As for the available signals, please refer to "Recommended Signal List" on [75](#).

**This function is NOT available in HDMI input.**

- To activate Multi Picture mode in either DTT, TV, AV, or RGB mode, press  button on the remote control.

### 2-picture mode

You can watch two different pictures side by side. This mode is available in DTT, TV and AV mode (AV1~5 Input).

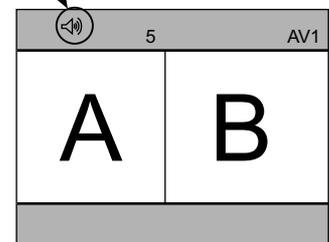
#### Control on the side with Speaker Icon

Audio is output from the selected picture with the speaker icon. You can switch the Input modes (DTT, TV and AV1~5) or change channels only on the side with Speaker icon.



- To shift the speaker icon, press  button.
  - The speaker icon  will be shifted from A to B back-and-forth.
- To change the channel on the selected picture, press  button.
- To select the Input mode on the selected picture, press **Input Select** buttons on the remote control.

The selected picture with speaker icon



#### NOTE

- In DTT or TV mode, you cannot select the same input channels on both sides simultaneously.
- You cannot select the same AV input on both sides simultaneously.
- The message "Not Available" will be appeared on the screen when the combinations of the **Input modes** are not acceptable. (See the Table below for details.)

**Table: Mix-and -Match of the Input Modes**

Side A \ Side B	DTT/TV	AV1	AV2	AV3	AV4	AV5
DTT/TV	○*	○	○	○	○	○
AV1	○	×	○	○	○	○
AV2	○	○	×	○	○	○
AV3	○	○	○	×	○	○
AV4	○	○	○	○	×	○
AV5	○	○	○	○	○	×

\*You can display TV picture on a side and DTT picture on the other side ; however, you cannot select the same input channels on both sides simultaneously in DTT or TV mode.

# FUNCTION (continued)

## Multi Picture Mode (continued)

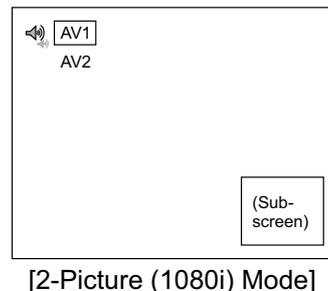
### 2-picture mode (continued)

- To switch to 4-picture mode, press  button once.
  - The 4-picture mode is displayed on the screen.

**NOTE** Each time  button is pressed, the picture mode will be switched by following order.



\* When receiving 1080i format of component signal, there is a mode (2-Picture(1080i)) which sub-screen is displayed inside of the large screen (Main-screen). Please note that you cannot display the picture with component signal on Sub-screen.



- To EXIT from the Multi Picture mode, press  button.
  - Next time you press  button to activate the Multi Picture mode, it will start from 2-picture mode.

### 4-picture mode

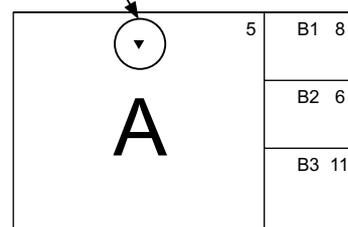
You can watch 4 different pictures from live broadcasts and/or the external equipments at the same time.

**NOTE**

- The audio comes out ONLY from side A.
- You can change the channels or change Input modes on the side with ▼ (red triangle) mark.

- To switch the ▼ location
  - Press  buttons on the remote control. The ▼ mark will shift to side A and side B back-and-forth.

The selected picture with red triangle mark



- To change the channel
 

Make sure that ▼ mark is located on the side you want to make changes.

Side A: Press  button to select channels.

Side B: Select the frame (B1~B3) that you want to make changes with  button. The characters of selected frame will be highlighted in green.

Press  button to select channels.

- To change Input mode

Make sure that ▼ mark is located on the side you want to make changes.

Side A: Press **Input Select** buttons on the remote control.

Side B: Select the frame (B1~B3) that you want to make changes with  buttons. The characters of selected frame will be highlighted in green.

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

## FUNCTION (continued)

### Multi Picture Mode (continued)

#### 4-picture mode (continued)

**NOTE** ➤

You cannot display the picture with Component signal on Side B screens.

- To EXIT from Multi Picture mode, press  button.
  - Next time you press  button to activate the Multi Picture mode, it will start from 4-picture mode.
- To switch to 12-picture mode, press  button.
  - The 12-picture mode is displayed on the screen.

#### 12-picture mode

You can check 12 different live broadcast channels on one screen.

- The channels that are preset in advance (up to 200 channels) will automatically appear in certain intervals.

**NOTE** ➤

- This mode is available only in TV mode.

1	2	3	4
5	6	7	8
9	10	11	12

- To EXIT from the Multi Picture mode, press  button.
  - Next time you press  button to activate the Multi Picture Mode, it will start from 12-picture mode.
- When you press  button in this sequence, the 2-picture mode will be displayed.

## FUNCTION (continued)

### Multi Picture Mode (continued)

#### Activate the Multi Picture Mode in RGB Mode

When you activate the Multi Picture mode in RGB Input, the picture will be displayed at the mode which the Sub-screen is displayed inside of the large screen (Main-screen).

- To activate Multi Picture mode, press  button on the remote control.

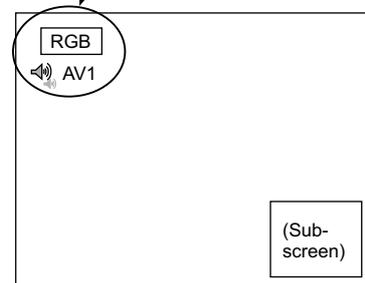
The speaker icon  indicates the following.

- The audio sounds can be heard on the side with the speaker icon.
- When the speaker icon is on the Sub-screen
  - Change channels.
  - Switch the Input modes (DTT, TV and AV1~5) on the Sub-screen. (Main-screen is only for RGB Input.)

1. To shift the speaker icon , press  button.
  - The speaker icon  will be displayed in front of the Input mode indication.
2. To change the DTT/TV channel of the Sub-screen.
  - Make sure that  mark is located on the Sub-screen.
  - Press  button to select channels.
3. To change the Input mode of the Sub-screen.
  - Make sure that the speaker icon is located next to the Input mode indication of the Sub-screen (lower).
  - Press **Input Select** buttons on the remote control. (AV1~5 are available)
4. To change the location of the Sub-screen.
  - Press  buttons. The Sub-screen will move up and down.
5. To exit from the Multi Picture mode, press  button.

#### Input mode indication

Main-screen (upper)  
Sub screen (lower)



#### NOTE

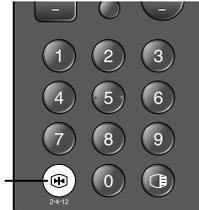
- In case that the Input signal for the Sub-screen is either 1080i/50 or 1080i/60 Component signal, select "Movie" in "Frequency mode". (See "Setup Menu" on [29](#) for details)
- When operating Multi Picture mode, the "Power Save mode" is not available even though the Horizontal/Vertical Sync. Signal (or any kind of Video signal) has not input for certain period of time.
- To prevent the image retention of the screen, do not leave the unit with operating Multi Picture mode for long periods of time.

## 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.

FREEZE button

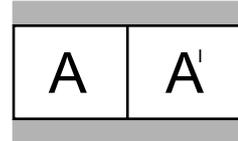


There are two types of freeze mode. You can select these in the “Freeze Mode” from Function Menu. 

#### 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.

[Split]



#### Strobe:

It displays 12 pictures from the same source. 11 of them are still, while the last picture is active. This can be used to check such movement as swinging of golf club or baseball bat.

[Strobe]

1	2	3	4
5	6	7	8
9	10	11	12 ACTIVE

This function is also available in DTT and AV input mode besides TV mode. Refer to the table as shown in “Recommended Signal List” on .

# FUNCTION (continued)

## Photo Input Function

With this Photo Input function, you can enjoy watching Photos from such devices as Digital Still Camera and SD card on monitor along with useful features such as Slide Show with Background Music and Movie picture.

### Operating the Photo Input

1. Before operating this function, make sure to turn the power OFF /Standby.
2. Prepare the DSC (Digital Still Camera) / USB card reader/ SD card or MMC as follows.  
 Digital Still Camera : Set up with reference to the content about "connecting to PC" in the user manual of DSC.  
 USB Card Reader : Insert only one memory card.  
 SD Card / MMC : Ensure the card is inserted in the correct direction as indicated near the slot.
3. Connect the USB cable to the input terminal as shown (Right side), or insert the SD card /MMC into the slot (Left side).
4. Turn ON the TV after the USB cable is connected or the SD card / MMC is inserted.
5. Press  button on the remote control to activate Photo Input mode.  
 (Then, turn ON the DSC. Refer to the user manual of your DSC for the timing.)
6. Each time  button is pressed, you can switch the mode as follows.

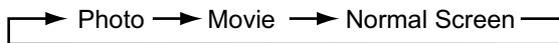
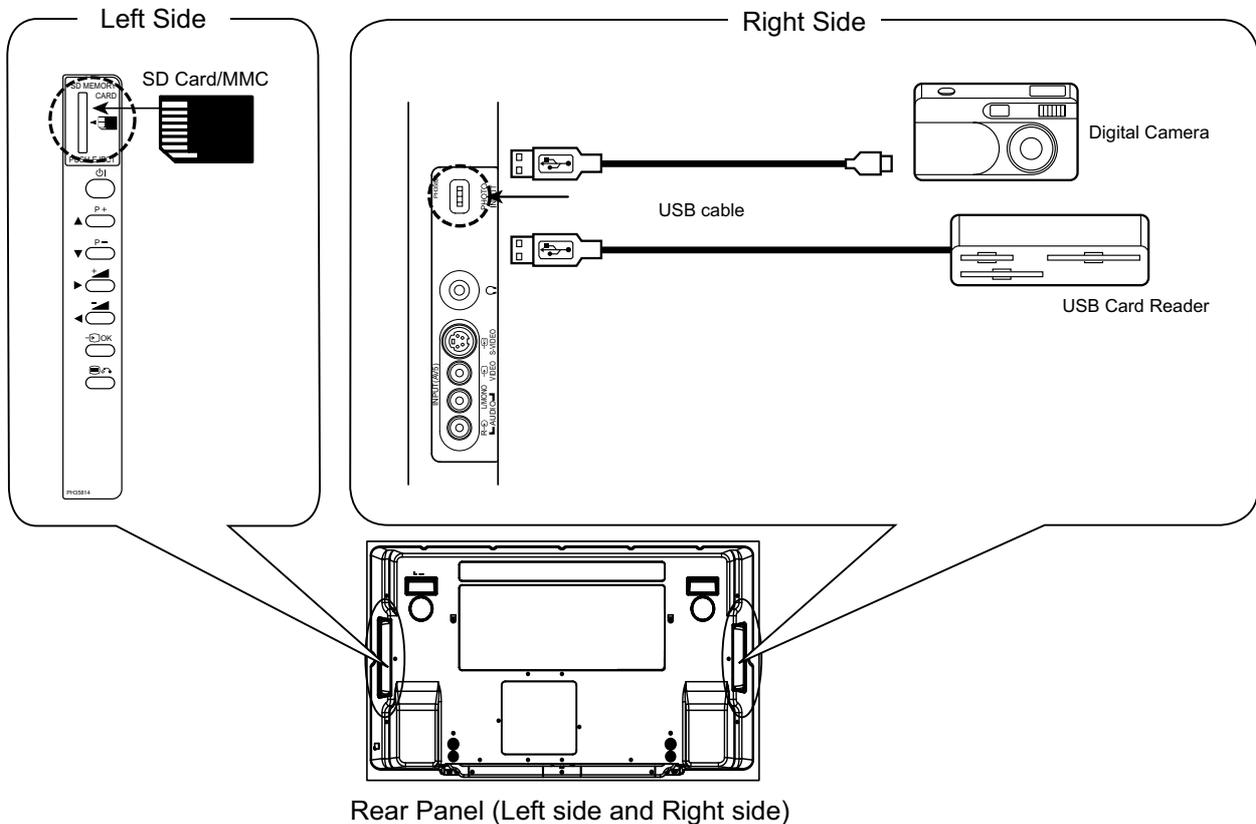


Photo Input button



ENGLISH



**NOTE**

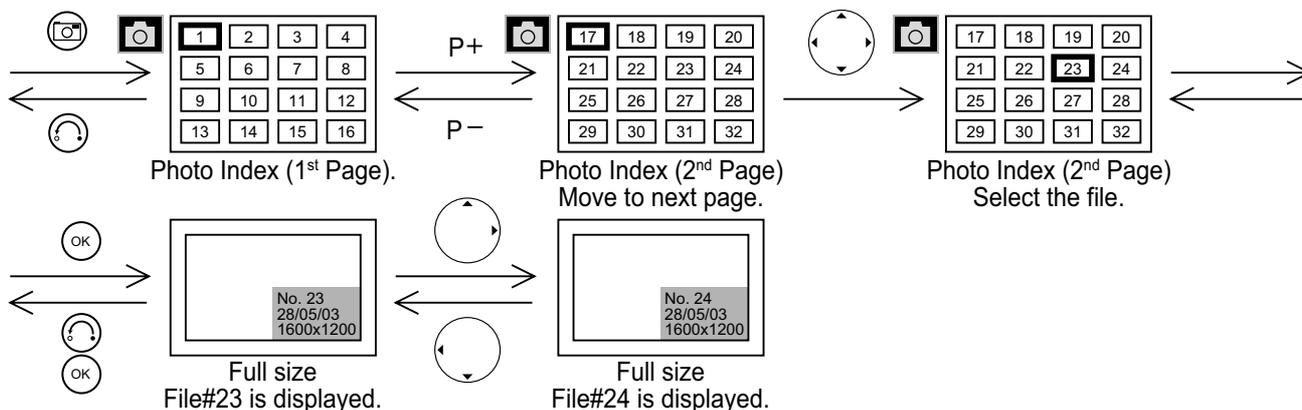
- Do not insert SD Card/MMC and USB cable at the same time.
- Do not insert anything other than SD Card/MMC into the slot. It could cause malfunction or damage to the slot. Do not allow children to play around the slot.

# FUNCTION (continued)

## Photo Input Function (continued)

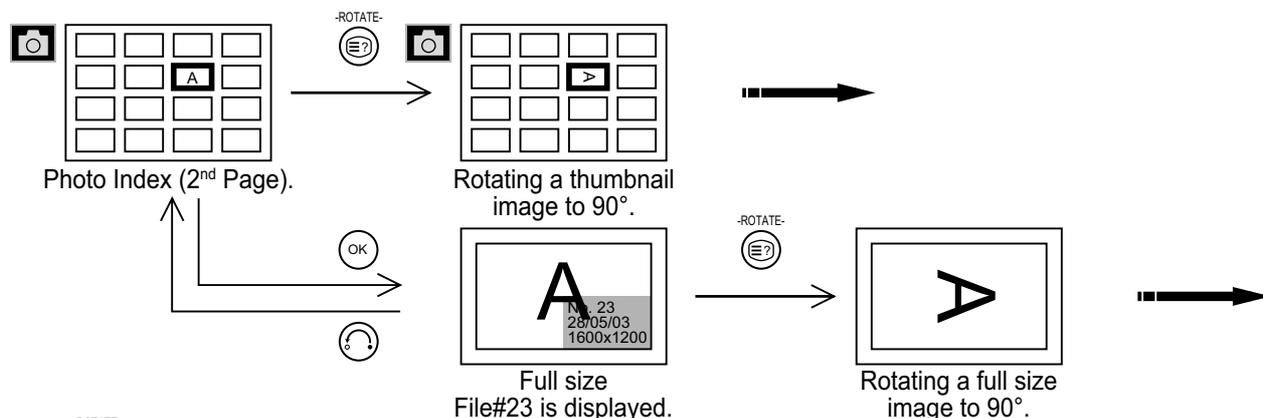
### Displaying Still Picture in Photo Mode

#### Thumbnail-Size Image (Index) to Full-Size Image

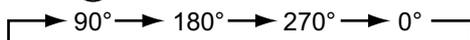


- When you enter the Photo Index mode, the icon appears as the indication.
- You can also select the preferred file in both Thumbnail-size and Full-size image by inputting the file directly with numeric buttons of remote control.

#### Rotation Function



- Each time button is pressed, the picture is rotated in the sequence of the following.

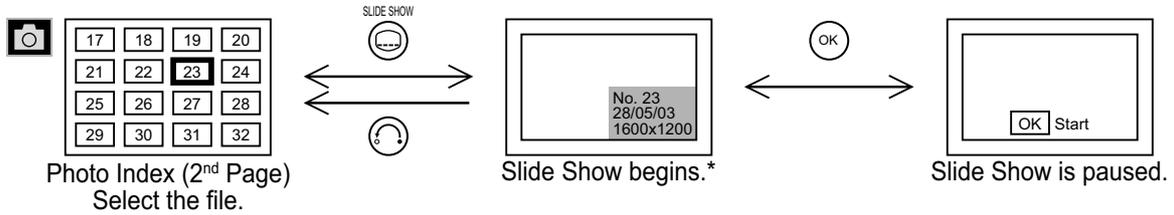


# FUNCTION (continued)

## Photo Input Function (continued)

### Displaying Still Picture in Photo Mode (continued)

#### Slide Show Function



\*You can select where to start Slide Show. See "Slide Mode" in the table 1.

\*You can also start the slide show when displaying the selected full size image, press SLIDE SHOW button by pressing button.

- If the pause is left for more than a minute, the slide show restarts automatically.
- If you stop the slide show halfway, the photo index page selects the file in which you stopped.
- You can make specific adjustment on "**Slide Effect / Slide Interval / Slide Music / Slide Mode**" from "Function Menu (2<sup>nd</sup> page)". While operating Photo Input function, you can jump to there by pressing button. Press it again to return to the Photo Input page. (Refer to Table 1 as below.)

**NOTE**

Contrast will decrease automatically to reduce Image Retention if stationary images such as still photos are left on the screen for more than 3 minutes. Please note that it is not malfunction.

• Table 1. Slide Show Adjustment

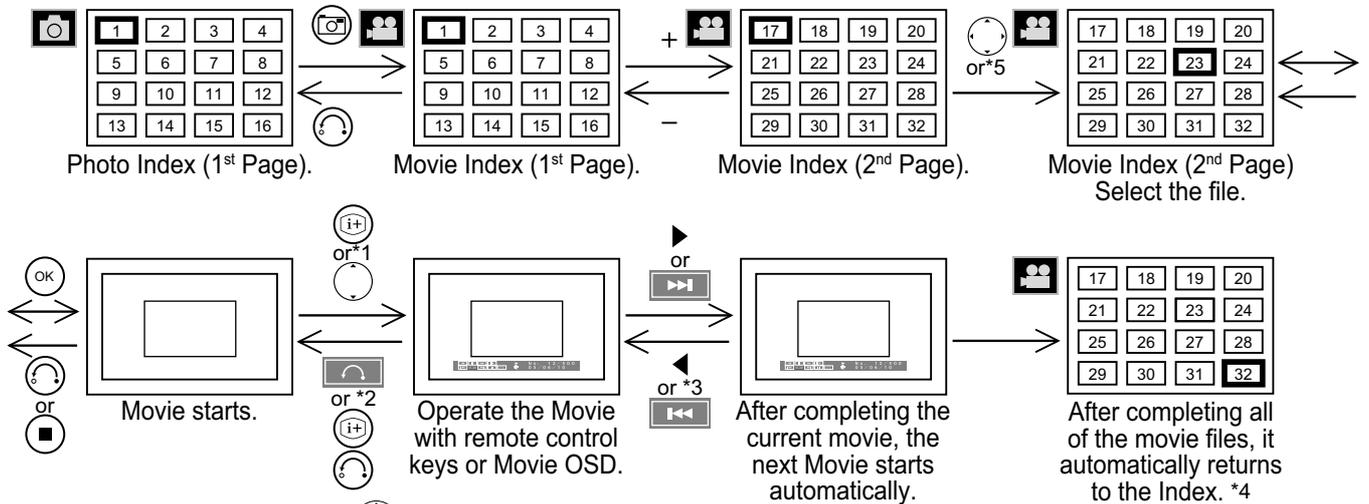
Function Menu	Selection	Description
Slide Effect	Off→1→2	Select Slide Switching Method. Off: No effect 1: Fade In/Out effect 2: Wipe effect
Slide Interval	5Sec.→10Sec.→30Sec.	Select preferred interval times.
Slide Music	Off→1→2	Select the Background Music. Off: No sound. 1: Slow tempo music. 2: Up tempo music.
Slide Mode	1→2	Select starting point of slide show. 1: Start from the selected file. 2: Start from 1 <sup>st</sup> file.

# FUNCTION (continued)

## Photo Input Function (continued)

### Displaying Movie Picture in Movie Mode

#### Thumbnail-Size Image (Index) to Full-Size Image:



- \*1: Press button or button to display the operation OSD.
- \*2: Press button in remote control or button (OSD) to exit from the OSD display.
- \*3: For the Previous button on remote control or OSD, pressing it once starts over the current movie. By pressing it again within 2 seconds after that, you can return to the previous movie.
- \*4: When it moves on the unsupported file, it automatically returns to the Index. \*4
- \*5: You can also select the Thumbnail-Size image by inputting file # with numeric buttons of remote control.

#### [Operating the Movie]

- You can use the following control key to operate the movie.

	Play	Stop	Fast-forward	Rewind	Pause	Next	Previous <sup>*3</sup>	Zoom	Slow Play	Exit
Remote Control										
OSD										

- The movie OSD contains the file information and control keys as below.



- The following indications might appear in Movie Operation OSD.
  - : The movie does not have sound, or this function does not support only the sound of movie.
  - : This function does not support the movie.
- With button on the remote control, you can switch the size of movie display between normal and double in full size mode.

#### NOTE

- In case of displaying movie pictures,
  - 1) If your DSC supports SD card/MMC, insert the card to the monitor directly rather than USB.
  - 2) If your DSC is PictBridge-compatible and has a function to switch between PTP and Mass Storage connection, change your setting to Mass Storage and then connect to Photo Input terminal so that it can be available on both Still and Movie pictures. PTP connection can display still pictures but not movie pictures.
  - 3) If your DSC does not support SD card / MMC or Mass Storage connection, use USB card reader to connect with Photo Input terminal. Please note that we do not guarantee all DSC can make either or both Mass Storage and USB card reader connection.
- Comparing to movie pictures through SD card/MMC, the movie pictures using USB might have lower performance such as dropping frames.

# FUNCTION (continued)

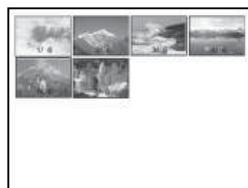
## Photo Input Function (continued)

### Other

- You can select the background pattern on "Background" from "Function Menu."

Function Menu	Selection	Description
Background	1→2	Select preferred background pattern. 1: Striped texture of gray 2: Green checked pattern

- Press  button whenever you want to return from full size image to index.
- The file information is displayed by pressing  button.



Thumbnail-Size Image



Full-Size Image (Still)



Full-Size Image (Movie)\*

\* The size of the image depends on the resolution for the image.

### To exit from Photo Input...

You can exit from Photo Input when...  
Pressing  button in Photo Index mode, or  
Pressing  button in Movie mode (Index and full).

### OSD Information

Operation	Message
Accessing	"Loading..." *
Loading Files	"Loading..." *
Normal	no message
Not insert USB/SD/MMC	"! No Connection"
Not available format	"! No Connection"
Abnormal	"! No Connection"
No File	"! No File"

\*The message "Loading..." starts to blink automatically if it is displayed on the screen more than 5 seconds.

### Specification

Application	① Digital Still Camera corresponding to DCF standard. ② USB Card Reader with the memory containing pictures had taken by ① camera. ③ SD card/MMC card containing picture had taken by ① camera.	
Photo	Max number of photo file	500
	Max number of pixel	8176 x 8176(DCF JPEG format)
Movie	Max number of movie file	500
	Supported Video Format (Extension/Max number of pixel)	Motion JPEG (avi.mov/640*480)
		MPEG1 (mpg/640*480)
		MPEG4 (avi,mov,mp4,asf/352*288)
	Supported Audio Format	PCM (Incompressible format)
		ADPCM
G.726		
μ-LAW PCM		
	MPEG1-LayerII	

## FUNCTION (continued)

### Photo Input Function (continued)

#### CAUTION

- The picture may not be displayed on this monitor in case of copying, viewing or editing by computers, etc.
- Do not connect any apparatus other than DSC, USB card reader, and SD card/MMC to the Photo Input connector. It causes the malfunction.
- Do not connect a DSC and USB card reader with USB HUB. Pictures may not be displayed correctly, or it causes a malfunction.
- Insert only one memory card even though the USB card reader has multiple slots for memory card. Pictures in multiple memories cannot be seen at the same time.
- Certain types of DSC, card readers, or SD card/MMC may not work with this Photo Input function.
- DSC with low battery power may not properly display photos in this function.
- Response time might vary depending on each image contents when switching pages, loading files, and playing each movie.
- Contrast will decrease automatically if stationary images such as still photos are left on the screen for more than 3 minutes.
- The OSD message “! No Connection” is displayed in case of the incomplete connection with USB cable or SD card / MMC and connection to a digital still camera or USB card reader without the memory card.
- The menu items other than “Picture,” “Function,” and “Audio” are not available with grayed-out display.
- The functions of the multi picture, CH selection, freeze mode, aspect, mode display, and so on are not available.
- During blinking LED which indicates the access of DSC / USB card reader /SD card/ MMC, or displaying “Loading...”, do not turn the power off/standby mode nor remove/insert USB cable and memory card.
- The picture may not be displayed correctly, depending on the connecting device in case of extending the USB cable.
- PictBridge-compatible DSC can be connected to Photo Input terminal through PTP transfer, which supports still pictures but not movie pictures. Refer to the DSC user manual for PictBridge in details.
- Do not use this function other than private purposes. It might infringe copyright laws.
- Back up all of the data in the memory card in case if data was lost due to unexpected accident. We do not assume any liability for the losses by misuse or malfunction.

# FUNCTION (continued)

## Audio Switching

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

You can make optimum use of available audio by pressing  $\text{M}$  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.

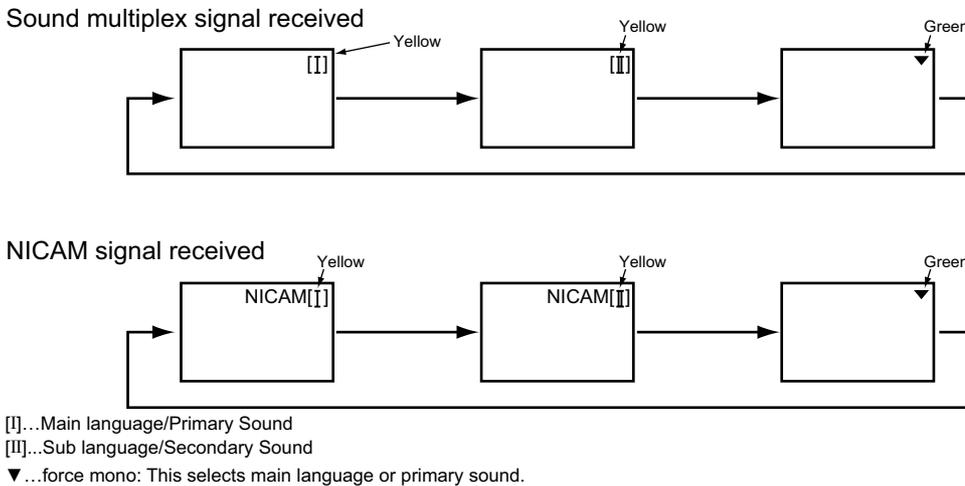
These can be divided into two main categories: Bilingual/Dual Sound broadcast and Stereo broadcast.

### 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  $\text{M}$  button is pressed, the display is switched in the sequence of following.



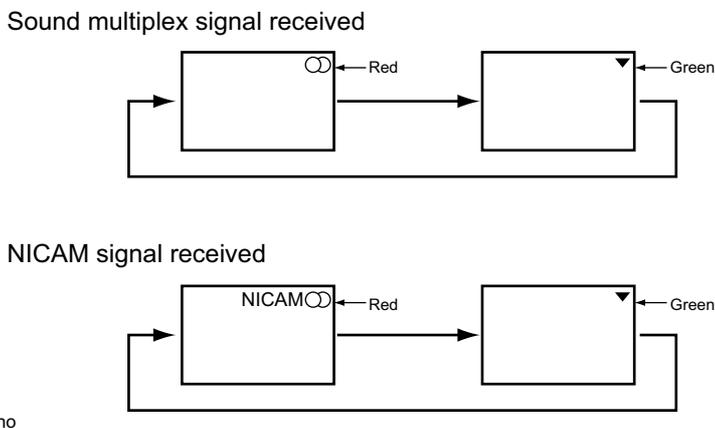
### Stereo broadcast

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  $\text{M}$  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

#### When AV input is selected

- You are provided with 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 AV4 /HDMI1 /HDMI2 and the Standby mode in other AV input. (Please see the table below for details) Refer to [30](#) about “Video Power Save”.

	When no signal is detected		When signal is input during On in “Video Power Save”
	Condition	Indicating Lamp	
AV4,HDMI1, 2	Power Save	Orange	Turns On automatically.
AV1, 2, 3, 5	Standby	Red	Remains as Standby mode.

#### When the RGB input is selected

- When this unit is connected to a VESA DPMS computer, the Power Save mode (Operation mode : Off) can be set to be activated automatically when the computer is not being used to reduce power consumption by this unit.

RGB sync signal	Horizontal	Yes	No	Yes	No
	Vertical	Yes	Yes	No	No
PC signal		Active (normal display)	Blank (no display)		
Operation mode		On	Off		
Indicating lamp		Lights green	Lights orange		

#### Returning to operating status

- Operate the personal computer, or press either the INPUT SELECT button of the control panel or the RGB button of the remote control.

## FUNCTION (continued)

### DVD Player / STB Selection

You can use this remote control to operate DVD Player and Set Top Box of other makers as well as this set. After pressing **SEL** button, press (or hold) the required buttons to select the maker and type as shown below.

#### Set up hint

Example: HITACHI DVD ②

#### 1. Set up the maker.

Press **SEL** button to indicate the DVD LED on the remote control. While the DVD LED is blinking (Approx. 30 Seconds), press **SEL** and ① buttons.

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

Release the ① button while keeping **SEL** button depressed. Then press ② 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.



### <“DVD” Selection>

Makers of DVD Player	Set Maker	Set type	Makers of DVD Player	Set Maker	Set type
HITACHI	<b>SEL</b> ①	① ~ ③	RCA	<b>SEL</b> ①	<b>SEL</b> ①
FUNAI	<b>SEL</b> ②	①	Mitsubishi	<b>SEL</b> <b>SEL</b>	<b>SEL</b> ①
Pioneer	<b>SEL</b> ③	① ~ ⑥	ONKYO	<b>SEL</b> RED	<b>SEL</b> ① ~ ③
Panasonic	<b>SEL</b> ④	① ~ ④	ZENITH	<b>SEL</b> GREEN	<b>SEL</b> ①
TOSHIBA	<b>SEL</b> ⑤	① ~ ④	THOMSON	<b>SEL</b> YELLOW	<b>SEL</b> ①
Philips	<b>SEL</b> ⑥	① ~ ②	SHINCO	<b>SEL</b> BLUE	<b>SEL</b> ①
JVC	<b>SEL</b> ⑦	①	SKYWORTH	<b>SEL</b> <b>SEL</b>	<b>SEL</b> ①
SAMSUNG	<b>SEL</b> ⑧	①	BUBUKO	<b>SEL</b> <b>SEL</b>	<b>SEL</b> ①
Sony	<b>SEL</b> ⑨	① ~ ④	DENON	<b>SEL</b> <b>SEL</b>	<b>SEL</b> ① ~ ②
Sharp	<b>SEL</b> <b>SEL</b> <small>24-12</small>	① ~ ②	YAMAHA	<b>SEL</b> <b>SEL</b>	<b>SEL</b> ① ~ ②

### <“SAT” Selection>

Makers of STB Player	Set Maker	Set type
HITACHI	<b>SEL</b> ①	<b>SEL</b> ① ~ ②
TOSHIBA	<b>SEL</b> ②	<b>SEL</b> ①
DGTEC	<b>SEL</b> ③	<b>SEL</b> ①
Panasonic	<b>SEL</b> ④	<b>SEL</b> ①

#### NOTE

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

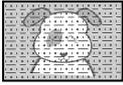
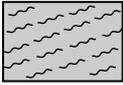
# TROUBLESHOOTING

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. (in AV/RGB mode) The indicating lamp lights in orange.	30, 68
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. • Check if the PC is in Power Save mode or not.	15 ~ 18
Invalid Scan Freq.	The unit receives signals not supported by the monitor. • Check if the cable is connected correctly and firmly. • Check if the input signal is compatible with the specification of the monitor.	73, 75
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.	30
Check Antenna	Check the connection status when this message appears.	14
Auto Adjusting	This indicates that it is in the process of auto adjusting. (in RGB mode)	28
No Signal	• Check aerial lead if it is disconnected / damaged / misaligned. • Check with your dealer if it is out of signal area or not. (in DTT mode)	
Scrambled channel	• Check if the common interface module inserted correctly. (in DTT mode)	

## 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>	14 ~ 18 20, 25, 68
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>	14
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>	14, 25
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>	22
No picture - normal sound		<ul style="list-style-type: none"> <li>• Check the value level of "Brightness" and "Contrast" in "Picture Menu".</li> </ul>	32, 35
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  button on the remote control.</li> <li>• Check if the buttons of the control panel can work.</li> </ul>	11, 12
Normal picture but no colour-normal sound		<ul style="list-style-type: none"> <li>• Check the connection of the external equipments.</li> <li>• Check the "Colour System" in "Setup Menu".</li> </ul>	15 ~ 18

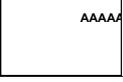
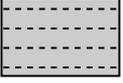
# TROUBLESHOOTING (continued)

## Symptom and Check List (continued)

Symptoms	Check list	Page
<ul style="list-style-type: none"> <li>No picture 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>	19, 20
<ul style="list-style-type: none"> <li>No picture The Indicating lamp → Orange 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 <u>ON</u>.</li> <li>Check if the TV/AV mode has been selected correctly.</li> <li>Check if the PC is in Power Save mode or not.</li> <li>Refer to "Power Save mode" and "When following messages appears on the screen".</li> </ul>	68
<ul style="list-style-type: none"> <li>No picture 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>	15 ~ 18
<ul style="list-style-type: none"> <li>The top of the monitor 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>	73, 75
<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 monitor.</li> </ul>	28, 73, 75
<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>The images are not displayed on sub pictures in "Multi Picture mode"</li> </ul>	<ul style="list-style-type: none"> <li>There are some combinations of input signals that the images are not displayed on sub pictures. Please check the Table of "2-Picture" and "4-picture/2-picture(1080i)" for details.</li> </ul>	57 ~ 59 76
<ul style="list-style-type: none"> <li>Screen display size cannot be switched correctly.</li> </ul>	<ul style="list-style-type: none"> <li>The display size is fixed at "FULL" when the receiving signals are 1080i/60Hz, 1080i/50Hz, 720p/60Hz, or 720p/50Hz.</li> <li>Check the signal status by pressing the  button on the remote control.</li> </ul>	52 ~ 53
<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>	73 ~ 75

# TROUBLESHOOTING (continued)

## Symptom and Check List (continued)

Symptoms		Check list	Page
<ul style="list-style-type: none"> <li>Cannot display the image from "Photo Input function".</li> </ul>		<ul style="list-style-type: none"> <li>Check the connecting equipments and image format. (Please refer to "Photo Input function".)</li> </ul>	<b>61</b> , <b>65</b> , <b>66</b>
<ul style="list-style-type: none"> <li>The image on the screen is moving in an oblique direction. (RGB input mode only)</li> </ul>		<ul style="list-style-type: none"> <li>Adjust "Horizontal Clock" and "Clock Phase".</li> </ul>	<b>28</b>
<ul style="list-style-type: none"> <li>The coarse horizontal stripes could be seen in full-display mode. (RGB input mode only)</li> </ul>		<ul style="list-style-type: none"> <li>Adjust "Horizontal Clock".</li> </ul>	<b>28</b>
<ul style="list-style-type: none"> <li>The part of the image is lacking.</li> </ul>		<ul style="list-style-type: none"> <li>Check if the "Screen Saver" is OFF.</li> <li>Try "Auto Adjust". (RGB input mode only)</li> <li>Check if it is in Full 2. Set to Full 1.</li> </ul>	<b>28</b> , <b>30</b> <b>54</b>
<ul style="list-style-type: none"> <li>The horizontal stripes are moving vertically with flickering screen. (RGB input mode only)</li> </ul>		<ul style="list-style-type: none"> <li>Check the Signal status of the PC by pressing (i) button on the remote control.</li> <li>If the Vertical Frequency of the PC is set to less than 85Hz, adjust its level higher (up to 85Hz).</li> <li>Set "Vertical Filter" to ON.</li> </ul> (Please note that you will have lower vertical resolution with this action.)	<b>29</b>
<ul style="list-style-type: none"> <li>When the characters are displayed on the whole screen, <u>the vertical stripes appear and some of the characters are blurred.</u> (RGB input mode only)</li> </ul>		<ul style="list-style-type: none"> <li>Try "Auto Adjust".</li> <li>If the display condition is not improved with Auto Adjust, adjust "Horizontal Clock".</li> </ul>	<b>28</b>
<ul style="list-style-type: none"> <li>When the letter string is displayed in full-screen, <u>all of the characters</u> on the screen are blurred. (RGB input mode only)</li> </ul>		<ul style="list-style-type: none"> <li>Try "Auto Adjust".</li> <li>If the condition is not improved with Auto Adjust, adjust "Clock Phase" till you get clearest image.</li> </ul>	<b>28</b>
<ul style="list-style-type: none"> <li>When the small patterns are displayed on the screen, the entire screen is flickering. (RGB input mode only)</li> </ul>		<ul style="list-style-type: none"> <li>Try "Auto Adjust".</li> <li>If the condition is not improved with Auto Adjust, adjust "Clock Phase" till you get flicker-free display.</li> </ul>	<b>28</b>
<ul style="list-style-type: none"> <li>The thickness of the letters, lines, etc is <u>not</u> displayed evenly. (RGB input mode only)</li> </ul>		<ul style="list-style-type: none"> <li>It could happen when the image with more than 512 lines (42PD9700U/C) / 768 lines (55PD9700U/C) of vertical resolution is displayed. Please note this is not malfunction.</li> </ul>	<b>75</b>
<ul style="list-style-type: none"> <li>No Picture or sound is output. (DTT mode only)</li> </ul>		<ul style="list-style-type: none"> <li>It might occur because it is tuned to digital teletext channel. Return to another channel.</li> </ul>	<b>44</b>
<ul style="list-style-type: none"> <li>Forgotten channel lock code. (DTT mode only)</li> </ul>		<ul style="list-style-type: none"> <li>Re-install channel to cancel channel lock.</li> </ul>	<b>41</b>
<ul style="list-style-type: none"> <li>Forgotten menu lock code. (DTT mode only)</li> </ul>		<ul style="list-style-type: none"> <li>Contact the customer service listed on the rear page.</li> </ul>	-
<ul style="list-style-type: none"> <li>Due to the bad reception, block noise interferes during DTT mode. (DTT mode only)</li> </ul>		<ul style="list-style-type: none"> <li>Check the aerial system to improve signal quality.</li> </ul>	<b>14</b>

# PRODUCT SPECIFICATIONS

SPECIFICATION			
Panel	Display dimensions	Approx. 42 inches (922 (H) x 524 (V) mm, diagonal 1059mm)	Approx. 55 inches (1230 (H) x 692 (V) mm, diagonal 1412mm)
	Resolution	1024(H) x 1080 (V) pixels	1366 (H) x 768 (V) pixels
Net dimensions		including Stand: 1134(W)x728(H)x350(D) mm excluding Stand: 1134(W)x648(H)x108(D) mm	including Stand: 1510(W)x933(H)x450(D) mm excluding Stand: 1510(W)x840(H)x105(D) mm
Net weight		including Stand: 45.0kg excluding Stand: 39.3kg	including Stand: 73.5kg excluding Stand: 62.0kg
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		AC100 - 240V, 50/60Hz	
Power consumption/ at standby		380W / <3W	490W / <3W
Audio output		speaker total 36W	speaker total 36W
(VIDEO input)			
Input terminals		AV1 : composite video input terminal (SCART) S video input terminal (SCART) L/R audio input terminal (SCART) AV2*3 : composite video input terminal (SCART) RGB video input terminal (SCART) L/R audio input terminal (SCART) AV4 : composite video input terminal (RCA) component video input terminal.(RCA) L/R audio input terminal (RCA) AV5 : composite video input terminal (RCA) S video input terminal (Mini DIN) L/R audio input terminal (RCA) HDMI 1*2 : HDMI input terminal Audio input terminal (3.5mm Stereo Mini Jack) Photo Input : Photo Input terminal / SD card slot	
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	
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 AV1 : composite video output terminal (SCART) L/R audio output terminal (SCART) AV2*3 : composite video output terminal (SCART) L/R audio output terminal (SCART)	
(RF input)			
Input terminal / Receiving range		ANT : 75Ω Unbalanced / 44~870MHz	
RF Video System		PAL B, G, H / I / D, K SECAM B, G / K1 / L, L' / (D,K) DVB-T	
(RGB input)			
Input terminals		Analogue RGB input terminal (D-sub 15-pin) Audio input terminal (3.5mm Stereo Mini Jack)	
Input signals		0.7 V/1.0 Vp-p, analogue RGB (Recommended Signal)	
Sync signals		H/V separate, TTL level [2KΩ] H/V composite, TTL level [2KΩ] Sync on green, 0.3 Vp-p [75Ω]	

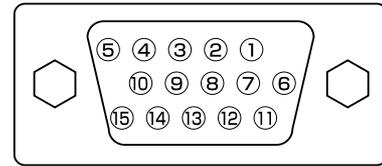
- The monitor takes at least 30 minutes to attain the status of optimal picture quality. The SECAM D, K system might not be normally received, depending on the model.

# PRODUCT SPECIFICATIONS (continued)

## Signal Input

### RGB terminal (D-sub 15-pin connector)

Pin	Input signal
1	R
2	G or sync on green
3	B
4	No connection
5	No connection
6	R.GND
7	G.GND
8	B.GND
9	No connection
10	GND
11	No connection
12	[SDA]
13	H. sync or H/V composite sync
14	V.sync. [V.CLK]
15	[SCL]



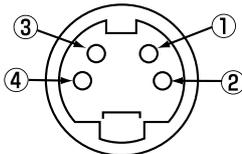
- When different kinds of input signals are simultaneously input to the monitor via a graphics board or the like, the monitor will automatically select the signals in the following priority order:

Sync signal type	Priority
H/V separate sync.	1
H/V composite sync.	2
sync.on Green *	3

\* Even in the case of the recommended signals shown on the following page, there may be instances when correct display is not possible. In this case, use H/V separate sync, H/V composite sync.

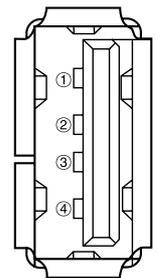
### S-input connector pin specifications

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



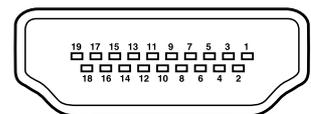
### Photo-input connector pin specifications

Pin	Input signal
1	5V
2	DM
3	DP
4	GND



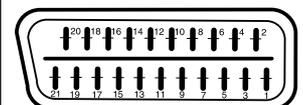
### HDMI connector pin specifications

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+		



### SCART connector pin specifications

Pin	Input signal	Pin	Input signal
1	AUDIO OUT (RIGHT)	12	Not Used
2	AUDIO IN (RIGHT)	13	RGB-R GND
3	AUDIO OUT (LEFT / MONO)	14	GND
4	AUDIO GND	15	RGB-R / S.VHS CHROMINANCE IN
5	RGB-B GND	16	BLANKING SIGNAL
6	AUDIO IN (LEFT / MONO)	17	COMPOSITE VIDEO GND
7	RGB-B IN	18	BLANKING SIGNAL GND
8	AUDIO / RGB SWITCH / 16:9	19	COMPOSITE VIDEO OUT
9	RGB-G GND	20	COMPOSITE VIDEO / S.VHS LUMINANCE IN
10	Not Used	21	GND / SHIELD (CHASSIS)
11	RGB-G IN		



# PRODUCT SPECIFICATIONS (continued)

## 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-861B
2	576i	720(1440) X 576	50.00	15.63	27.00	EIA-861B
3	480i	720(1440) X 480	59.94	15.73	27.00	EIA-861B
4	576p	720 X 576	50.00	31.25	27.00	EIA-861B
5	480p	720 X 480	59.94	31.47	27.00	EIA-861B
6	1080i/50	1920 X 1080	50.00	28.13	74.25	EIA-861B
7	1080i/60	1920 X 1080	60.00	33.75	74.25	EIA-861B
8	720p/50	1280 X 720	50.00	37.50	74.25	EIA-861B
9	720p/60	1280 X 720	60.00	45.00	74.25	EIA-861B

### With RGB input

No.	Signal mode			Horizontal frequency (kHz)	Dot clock frequency (MHz)	Remarks
	Signal Name	Resolution	Vertical frequency (Hz)			
1	VGA	640 X 400	70.08	31.47	25.18	
2		640 X 480	59.94	31.47	25.18	
3	W-VGA	864 X 480	59.94	31.47	34.24	WVGA type : On
4	VESA	640 X 480	72.81	37.86	31.50	
5		640 X 480	75.00	37.50	31.50	
6		640 X 480	85.01	43.27	36.00	
7		800 X 600	56.25	35.16	36.00	
8		800 X 600	60.32	37.88	40.00	
9		800 X 600	72.19	48.08	50.00	
10		800 X 600	75.00	46.88	49.50	
11		800 X 600	85.06	53.67	56.25	
12		1024 X 768	60.00	48.36	65.00	
13		1024 X 768	70.07	56.48	75.00	
14		1024 X 768	75.03	60.02	78.75	
15		1024 X 768	85.00	68.68	94.50	
16		1152 X 864	75.00	67.50	108.00	
17		1280 X 1024	60.02	63.98	108.00	
18		1280 X 1024	75.03	79.98	135.00	
19		1280 X 1024	85.02	91.15	157.50	
20		1600 X 1200	60.00	75.00	162.00	
21		1600 X 1200	75.00	93.75	202.50	
22		1600 X 1200	85.00	106.25	229.50	
23		Macintosh	640 X 480	66.67	35.00	30.24
24	832 X 624		74.55	49.72	57.28	
25	1024 X 768		74.93	60.24	80.00	
26	1152 X 870		75.06	68.68	100.00	
27	W-XGA	1280 X 768	59.833	47.986	81.00	
28		1280 X 768	69.997	56.137	94.760	
29	W-XGA	1280 X 768	59.876	47.776	79.50	WXGA Mode : 1280x768
30		1366 X 768	60.015	47.712	85.50	WXGA Mode : 1366x768

- The type of video board or connecting cable used may not allow for correct displays adjustment of Horizontal Position, Vertical Position, Horizontal Clock and Clock Phase.
- The monitor may fail to display an animation image correctly when a signal having a vertical frequency of 85Hz or higher is input to it.
- The monitor differentiates the signal modes according to the horizontal and vertical frequencies and the horizontal and vertical sync signal polarities. Note that different signals having all these elements alike may be handled as the same signal.
- Displaying images with more than 540 lines (42PD9700U/C) / 768 lines (55PD9700U/C) of vertical resolution at Full display (compressed display) can result in the interpolation of stripes.

# PRODUCT SPECIFICATION (continued)

## Recommended Signal List (continued)

### With Multi Picture Function

#### • 2-Picture / (1080i)\*

Input terminal	Main \ Sub	DTT	TV	AV1~AV5		AV2, AV3	AV4				TELE TEXT
				PAL SECAM	NTSC3.58 NTSC4.43	RGB	576i 576p	480i 480p	720p/50 720p/60	1080i/50 1080i/60	
	DTT		○	○	○	○	○	○	○	○	○
	TV	○		○	○	○	○	○	○	○	○
AV1 ~AV5	PAL, SECAM	○	○	○	○	○	○	○	○	○	
	NTSC3.58/4.43	○	○	○	○	○	○	○	○	○	
AV2, AV3	RGB	○	○	○	○	○	○	○	○	○	
AV4	576i, 576p	○	○	○	○	○					
	480i, 480p	○	○	○	○	○					
	720p/50, 60	○	○	○	○	○					
	1080i/50, 60*	○	○	○	○	○					

(○ : Available)

#### • 4-Picture

Input terminal	Main \ Sub	DTT	TV	AV1~AV5		AV2, AV3	AV4				TELE TEXT
				PAL SECAM	NTSC3.58 NTSC4.43	RGB	576i 576p	480i 480p	720p/50 720p/60	1080i/50 1080i/60	
	DTT		○	○	○	○					
	TV	○		○	○	○					
AV1 ~AV5	PAL, SECAM	○	○	○	○	○					
	NTSC3.58/4.43	○	○	○	○	○					
AV2, AV3	RGB	○	○	○	○	○					
AV4	576i, 576p	○	○	○	○	○					
	480i, 480p	○	○	○	○	○					
	1080i/50, 60	○	○	○	○	○					
	720p/50, 60	○	○	○	○	○					

(○ : Available)

### With Picture Freezing Function

	Split	Strobe
DTT	○	○
TV	○	○
PAL, SECAM	○	○
NTSC3.58/4.43	○	○
576i	○	○
480i	○	○
576p	○	
480p	○	
720p/50, 60	○	
1080i/50, 60	○	
HDMI		
RGB(AV2, 3)	○	
RGB(PC)		

(○ : Available)

# Guarantee

Thank you for purchasing this Hitachi Television.

In the unlikely event that this product should develop a fault, we undertake to repair or replace any part of the product which fails due to a manufacturing defect within 12 months of the date of purchase provided that ...

1. the product has been installed and used only in accordance with the instructions supplied with the product.
2. the product has not been repaired, maintained, or modified by any person other than a Hitachi authorized dealer.
3. the product serial number has not been removed or altered.

- This guarantee does not apply to a product acquired second hand or for commercial or communal use.
- This guarantee does not cover the replacement of exhausted batteries, the adjustment of user controls, or aerial alignment.
  - Any parts replaced under this guarantee shall become the property of HITACHI EUROPE LTD.
- Please note that evidence of the date of purchase will be required before any service under this guarantee is carried out.

Use the boxes provided below to record your TV's Model and Serial Number - these are found on the rating plate located on the rear of the Plasma panel. Also, record where and when you purchased this TV. This information will help any future queries you may have and should be used in all correspondence with Hitachi service centres.

MODEL

SERIAL NUMBER

DEALER/STORE

DATE PURCHASED

**This guarantee does not affect your statutory rights.**

**In all cases of difficulty,  
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