# USER MANUAL

**HITACHI**
**Inspire the Next**

**LCD Television**

**Model Name**
# L26H01AU
# L32H01AU

In Plane Switching
**PANEL**
by IPS Alpha Technology, Ltd.

**DVB**® **HDTV**

**HDMI**™ **DOLBY DIGITAL**
HIGH-DEFINITION MULTIMEDIA INTERFACE

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

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

# USER MANUAL

Thank you for purchasing the HITACHI LCD 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.

# CONTENTS

# 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" ( 46 ~ 48 )) 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.

# INSTRUCTIONS

Thank you for purchasing the HITACHI LCD Television. We hope that you will enjoy the great performance with this product. This LCD 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 Center.
- Before operating this set, please fully understand the prerequisite such as specifications or constraints of the hardware and software. We are not responsible and have no liability for any loss, damage or injury as a result of misuse.
- Reproduction, copying, use, modification, and/or transmission in whole or in part of this manual are prohibited without any prior written permission.
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## About Software

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

## Features

- Large-screen and high-definition LCD panel.
- Enjoy high resolution display with 1366 (H) x 768 (V) pixels.
- Improved Digital signal processor.
- High quality sound with deeper, richer and dynamic bass tones.
- Accept more digital input devices with HDMI terminals.
- Great diversity of connecting terminals to cover wide range of audio-visual equipment.
- Enjoy the image from PC with large, high-definition LCD screen.
- Easy-to-use On-Screen Display system operating with remote control.
- Low power consumption with power saving feature.
- Swivel feature. (for L32H01AU)

# SAFETY PRECAUTIONS

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

## About the Symbols

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

| ⚠ **WARNING** | Never ignore the instruction. There are risks of serious injuries or possible death to the user. |
|---|---|
| ⚠ **CAUTION** | 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 at 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 at the left indicates that the power plug should be disconnected from the power outlet). |

## ⚠ WARNING

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

■ **Unplug the power cord immediately when serious problems occur.**
  Serious problems such as
  ● Smoke, abnormal odor or sound comes out from the product.
  ● No picture, no sound or distorted picture on the display.
  ● Foreign objects (such as water, metals etc) get inside the unit.
  Do not continue using the product under these abnormal conditions.
  Unplug the power cord, and contact your dealer immediately.

  **For your safety, never try to repair the product by yourself.**

Disconnect the plug from the power outlet.

■ **Do not insert liquids or any foreign objects (such as metals or flammable items) inside the unit.**
  ● In case it happens, 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.

# SAFETY PRECAUTIONS (continued)

## ⚠WARNING

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

■ **Install the unit at a proper area where it does not expose anyone to any danger.**
- If you hit against the edge of the unit, you may be injured.

■ **Do not place any objects on top of the unit.**
Objects such as
- Liquid containers (vase, fish tank, flowerpot, cosmetics or liquid medicine).
- If water or any liquid spill onto the unit, it may cause short-circuit and result in fire or electrical shock.
- In case that it happens, 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 install the unit in an unsuitable place.**
- It could cause a malfunction or in extreme cases danger of electric shock. Places where high moisture is likely such as bathrooms or shower rooms, close to windows, or outside where rain, snow or other inclement conditions could occur should be avoided. Please also avoid installing the unit in a position where fumes from a Hot Spring could come into contact with it.

■ **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 LCD panel is made of glass. In case that it breaks, you may be injured by the broken pieces.
- In case that you drop the unit or the cabinet is damaged, turn off the Main Power, unplug the power cord and contact your local dealer immediately.
- Continuing use of the product with above conditions may cause fire or electrical shock.

■ **Clean dust or metals on or around the blade of the power plug regularly.**
- Continuing use of the product with above condition may cause fire or electrical shock.
- Always unplug the power cord first, and clean the blade with dry cloth.

■ **Do not place the unit on an unstable surface.**
Unstable places such as
- Tilted place or shaky rack, table, stand or trolley.
- If the unit falls down, it could cause personal injury.

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# SAFETY PRECAUTIONS (continued)

## ⚠ CAUTION

■ **Do not cover or block any ventilation holes on the product.**

The unit would overheat, and it could cause fire or damage the product which may shorten its service life.
- Install the product in accordance with the instructions in this manual.
- Do not place the unit with ventilation side down.
- Do not install the unit on the carpet or bedclothes.
- Do not cover the television with table cloth etc.

■ **Be sure to ground the earth cable correctly.**
- 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.
- For your safety, always make sure to unplug the power cord before connect or disconnect the earth cable.

Supply connect the ground wire.

■ **Follow the Anti-tumble measures in this manual.**
- If the television tumbles over, there is a risk of personal injury and possible death. Also, it would damage the product seriously.

■ **Do not install the unit near the medical devices.**
- To prevent malfunction of the medical devices, do not use this product and the medical devices in the same room.

■ **Do not place a CRT-based television near the speakers of the LCD Television.**
- It could cause the partial discoloration or blurring of the image on the CRT-based television.

■ **Disconnect all of the external connection cables and detach the anti-tumble measures before moving the unit.**
- It may cause fire, electrical shock, or personal injuries.

■ **Connect the power plug securely.**
- Improper connection will cause overheating and may result in fire.
- Do not touch the blades of the plug while connecting it to the wall socket. It could cause electrical shock.
- If the plug is not fitted for the wall socket, contact your dearly for replacement.

■ **Do not handle the power cord with wet hands.**
- It could result in electrical shock.

■ **Do not pull the cord when you unplug the power cord.**
- It may damage the cord and could result in fire or electrical shock.
- Hold the plug when disconnecting it.

■ **Unplug the power cord when you do not intend to use the product for long periods of time.**

■ **Handle the batteries properly.**
- Improper or incorrect use of the batteries may cause corrosion or battery leakage, which could cause fire, personal injury or damage to the property.
- Use only the types of the batteries which are indicated in this manual.
- Do not install new batteries with used ones.
- Install the batteries correctly by following the polarity (+ and -) indications on the battery compartment.
- Do not dispose the used batteries as domestic waste. Dispose them in accordance with the local regulations.

■ **Adjust the headphone volume properly.**
- Excessive sound pressure from headphones might cause hearing loss.

# SAFETY PRECAUTIONS (continued)

## PRECAUTIONS

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

It could damage the cabinet or parts of the product.
- Do not install near any heat sources such as radiator, 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 / 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 in 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 come 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 the unit while in use.**

The unit is designed to meet the international EMI standards due to prevent radio interference. However, the unit may generate noise in the radio.
- If the noise is heard on the radio, please try the following actions.
  - Adjust the direction of the radio antenna in order not to receive the interference from the unit.
  - Keep the radio away from the unit.
  - Use coaxial cable for the antenna.

■ **About the infrared communication devices**
- The infrared communication devices such as cordless microphone or cordless headphone may not operate properly around the unit. It is because of the communication failure. Please note that this is not malfunction.

■ **When you dispose 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 LCD 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 damage the coating.
- In case of the greasy dirt such as fingerprint, wipe with a lint-free cloth moistened by a diluted neutral detergent solution, and then wipe with a soft and dry cloth.
- Do not use a spray cleaner. It could remove the coating or cause malfunction by entering inside of the unit.

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

## ABOUT LCD PANEL

### Other Common Characteristics of LCD Panel

The following are the common phenomena when operating LCD Panel due to its structural reason. Please note that they are not malfunctions.

- **Defective Spots on Panel**

  The LCD panel is manufactured with high-precision technology. However, there might be some spots that are not emitted, brighter than the others, or in different colors, etc.

- **Surface on Panel**

  The LCD panel displays images by blinking the fluorescent lamps internally. This could raise the temperature of the display surface.

  In addition, do not impact strongly on the surface of the panel because LCD panel is made with fine processing glass.

- **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.

- **The Usage under the Low Temperature Environment**

  Because of the structural characteristics of the LCD panel, the response speed of the LCD panel becomes slower when the ambient temperature around the television becomes too low. In some cases, it may cause the residual image.

  The residual image will disappear on its own as the temperature goes up and back to normal.

# QUICK START GUIDE

For more information on connecting and using your TV, please be sure to read all instructions in this user manual.

## 1. Supplied Accessories (including option)

| User Manual | Remote Control | AA size batteries X2 | Power Cord* |
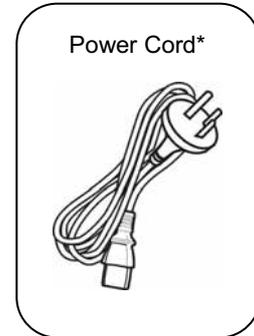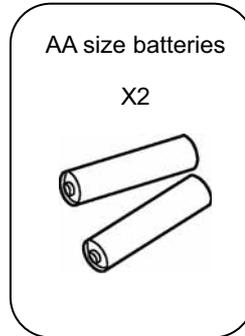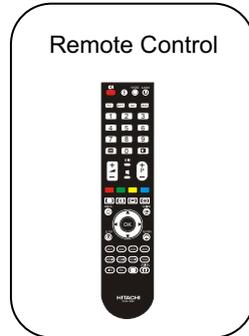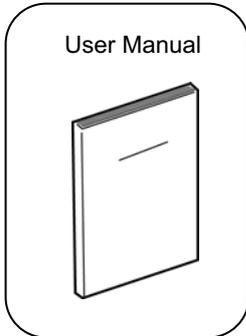
*The type of power plug provided may be different from this drawing for some countries.

## 2. Connection 14 ~ 20

① Connect the power cord to the rear panel.
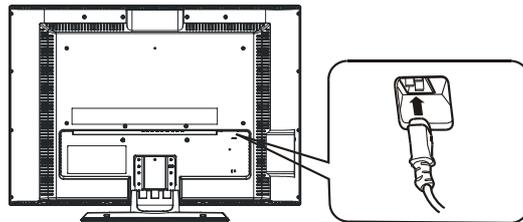
② Connect to the aerial lead and external equipment.
Example: Connecting aerial lead through DVD/STB.

STB    DVD

IN    IN
OUT    OUT

HDMI

SERVICE USE ONLY

INPUT (HDMI1)    INPUT (HDMI2)

RGB
PC ANALOG    AUDIO

INPUT (AV1)
Y  PB  PR    AUDIO

INPUT (AV2)
Y  PB  PR    AUDIO

OUTPUT
VIDEO

INPUT (AV3)
VIDEO

AUDIO    AUDIO

OPTICAL    S-VIDEO

ANT

Outside

Inside

(example:L32H01AU)
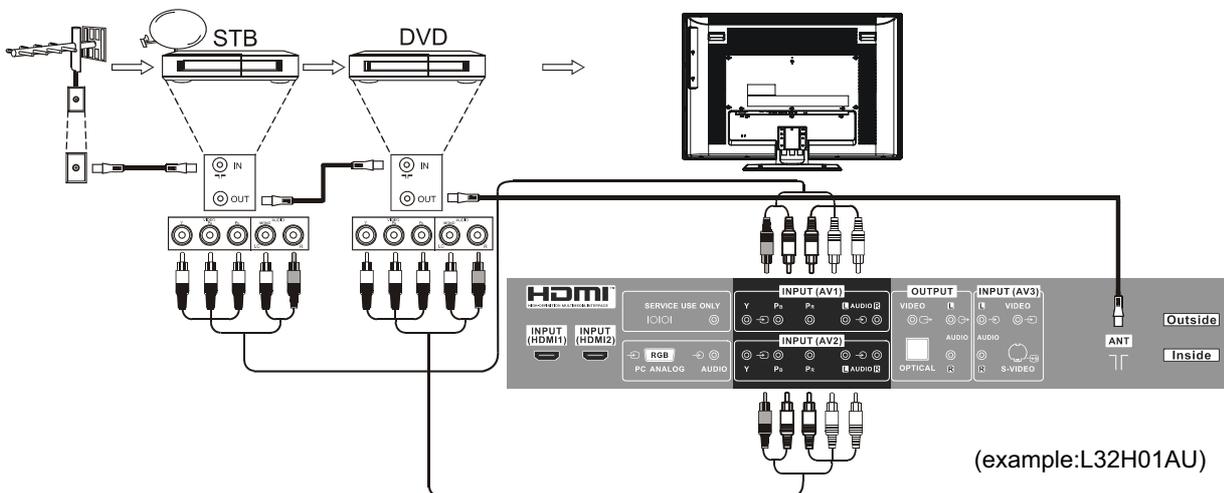
③ Connect the plug into the wall socket after all other connections are completed.

⚠ **CAUTION**

● Ensure that both ends of power cord are easily accessible.

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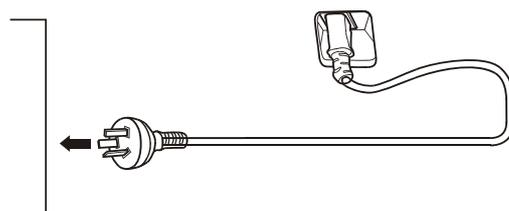
## QUICK START GUIDE (continued)

**3.** **Insert the batteries into the remote control...** ⌐12⌐
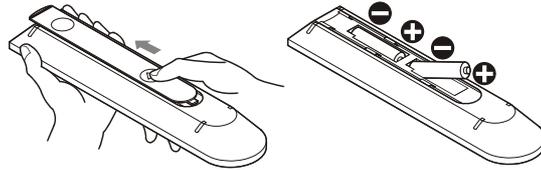
**4.** **Removing the Protective Sheet**

The protective sheet

Before using the TV, remove the protective sheet from the cabinet.

**5.** **Switch On...** ⌐19⌐

Sub Power switch    Sub Power button
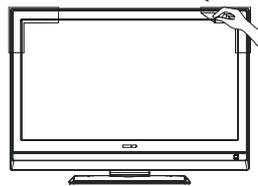
Press either **Power On/ Off** switch on the unit or **Power On/ Off** button on the remote control.

Main Power switch

● The color of the indicating lamp turns from Red to Green.
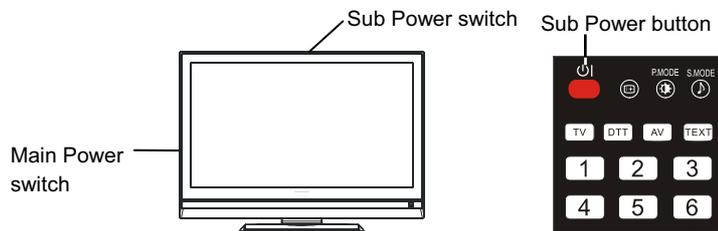
**6.** **Auto Tuning ...** ⌐24⌐ **and** ⌐37⌐

When you turn ON the TV for the first time, a message show up to lead to the DTT channel installation.

[DTT]

① The message **"Database is Empty Press MENU for installation"** appears.

② Press [MENU] button to access DTT main menu.

③ Select **"Installation"** form DTT main menu and press (OK) button.

④ The password box will appear as"∗∗∗∗", and ente**r "0000"** as your initial password.

⑤ Select one of the scanning methods from **"Manual scan","** **Quick scan",** or **"Auto scan."**

[TV]

Then, go to with TV channel installation.

① Press [MENU] button to access TV Main Menu.

② Select **"Setup"** from Main Menu.

③ Select "**Auto scan**." From **"Setup"** menu and press (OK) button.

④ Select "**Search**" to turn the local channels automatically.

[NOTE]

● If you want to change the setting after completing this first time setup, press [MENU] button and set up individually. Refer to ⌐23⌐ , ⌐24⌐ and ⌐25⌐

Database is Empty
Press MENU for Installation

| | |
|---|---|
| 📺 TV Setup | Password ∗∗∗∗ |
| 📝 Edit channels | |
| 📡 Parental guidance | |
| 🔧 Installation | |
| ⚙ General settings | |
| 🔍 System | |

< DTT Main Menu >

- 📺 Picture
- 🔊 Audio
- ⏱ Timer
- 🔧 Setup

◆Select [OK] Set

<TV Main Menu>

🔧 Setup
Auto Tuning
Manual Tuning
Fine Tuning
Sort
Teletext Language

◆Select [OK] Set    Return

9
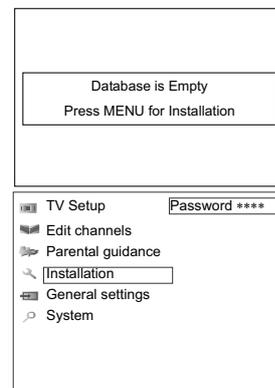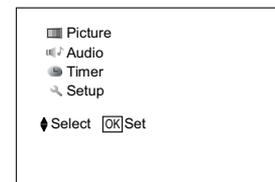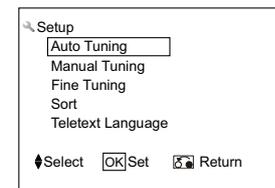
# COMPONENT NAMES

## Main Unit

### Front Panel
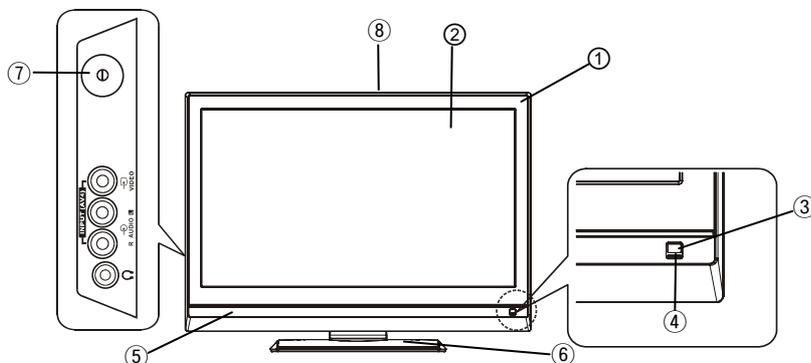
① Cabinet
② Panel
③ Remote Control Receiver
④ Indicating Lamp
⑤ Speaker
⑥ Desktop Stand
⑦ Main Power Switch (on the left side)
⑧ Sub Power Switch (on the top side)

### Rear Panel

**L26H01AU**
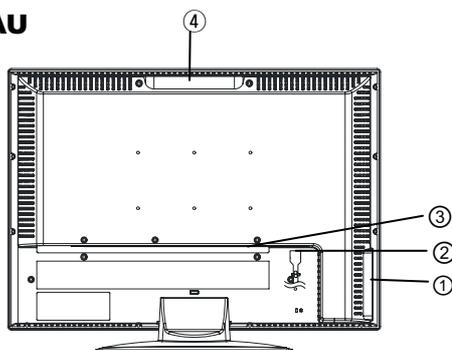
**L32H01AU**
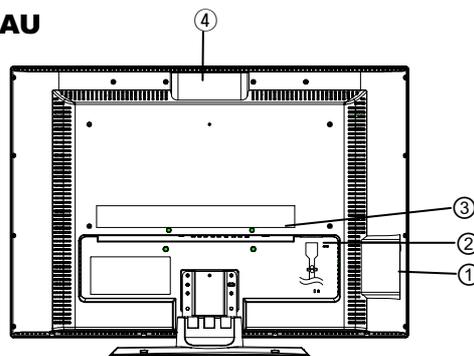
① Side Input
② Power Cord Socket
③ Terminal Board (External Device Connection)
④ Control Panel (see below for details)

<u>Please refer to 14 ~ 18 for the detailed information for the connections.</u>

### Control Panel (including Top Input)
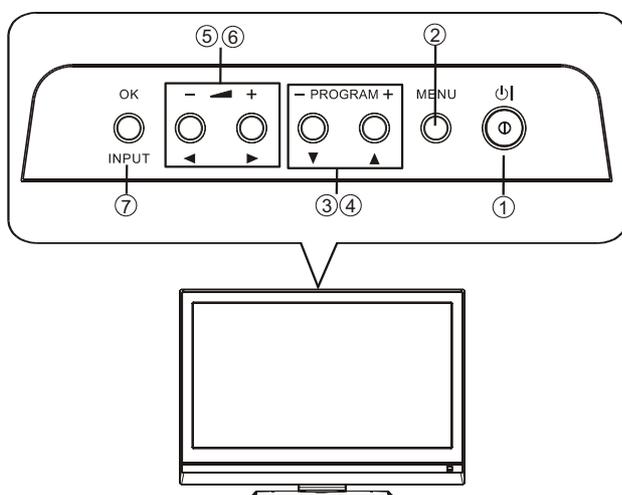
① Sub Power button
② Menu button
③ Channel Up/ ▲ button
④ Channel Down/ ▼ button
⑤ Volume Up ◢ /▶ button
⑥ Volume Down ◣ /◀ button
⑦ Input Select /OK button
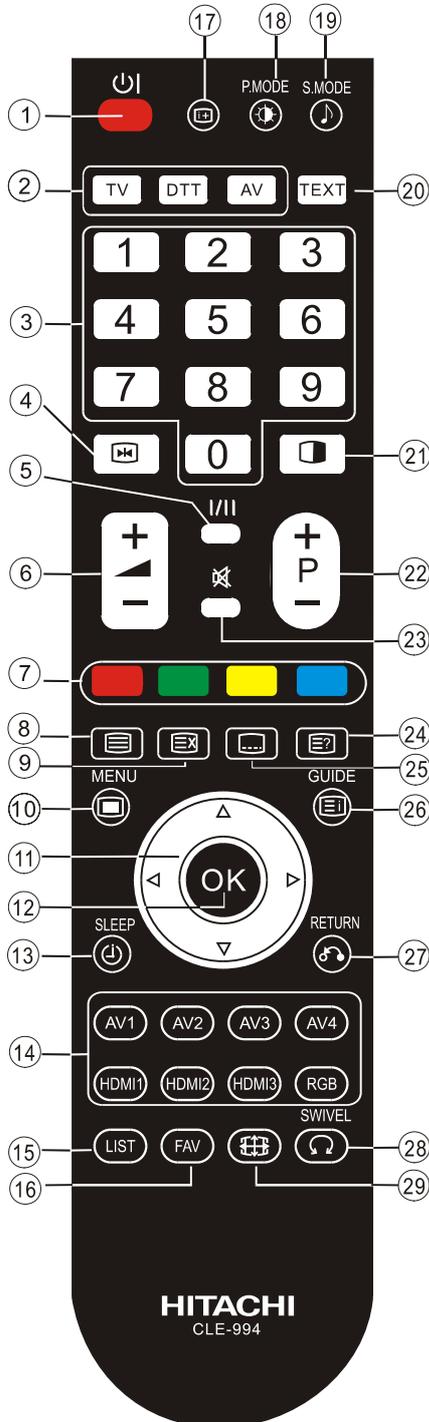
## Remote Control

① **Sub Power**
Press this button to switch TV On or Off standby.

② **Device Select (TV/DTT/AV)**
Press these buttons to select the device (TV/DTT/AV) to be controlled by this remote control.
The selected button will light up to display the selected mode.Normally, select "DTT".

③ **Program Select [Page Select]**
Press these buttons to select a TV program directly.Refer to 26 for details.

④ **Freeze [Hold]**
Press this button to change the picture to freeze mode.
Press it again to return to normal picture. (Also, it holds the page in teletext mode.)

⑤ **CHI/II**
This is exclusively for TV audio A2/NICAM mode.
Also,press this button to select Audio Language in DTT mode.

⑥ **Volume Up/Down**

⑦ **[Color]**

⑧ **TV/Text [TV ⟷ Text]**
This switches between the TV mode and the Teletext mode.

⑨ **Time [Cancel]**
Press this button to display the time when receiving an analog TV program. The time is not displayed if the recevied signal does not have any time information.

⑩ **Menu [Back Light]**

⑪ **Cursor**

⑫ **OK**

⑬ **Off Timer**
This automatically sets the power to standby mode when the selected time period has elapsed. (0→30→60→90→120min.)

⑭ **Input Select/DVD Control**
Press these buttons to change input mode.
HDMI2, HDMI3 input are not available.

⑮ **Program List**
It displays program list in DTT mode.

⑯ **Favorite List**
It displays favorite list in DTT mode.

⑰ **Recall**
Press this button shows the input signal status.

⑱ **Picture Mode**
Picture mode can be changed each time pressed in the following sequence. Dynamic→Natural→Cinema

⑲ **Sound Mode**
Sound mode can be changed each time pressed in the following sequence. Movie→Music→Speech→Favorite.

⑳ **Text**
Press to activate and to exit from Teletext.

㉑ **Not Available**

㉒ **Channel Up/Down[Page select]**

㉓ **Mute**

㉔ **[Reveal]**

㉕ **[Subtitle]**

㉖ **Guide [Index]**
It displays EPG screen in DTT mode

㉗ **Return**
You can use this to return to the previous menu.

㉘ **Not Available**

㉙ **Picture Size [Zoom]**
Press this button to change picture size.

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**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 "Analog Teletext" on 34 and 35 .

# 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 in the direction of an arrow, and remove the cover.
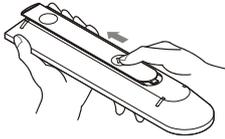
### 2. Installing the batteries

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

Holes
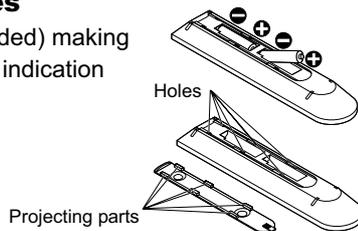
Projecting parts

### 3. Close the battery compartment cover

● Make sure of the positions to fit the projecting parts in the holes, and slide the compartment cover in the direction of an arrow till it clicks shut.
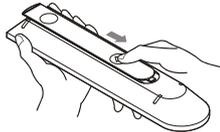
## Handling the Remote Control

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

Within 30 degrees    Within 30 degrees

About 3m    About 3m

About 5m

---
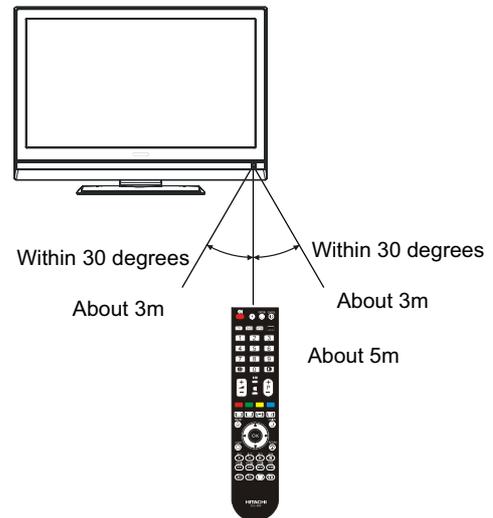
### ⚠ CAUTION

**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 have an impact on 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.
When moving the unit, hold it by the top and bottom frame of the LCD screen. (See the figures below for details.)

**L26H01AU**
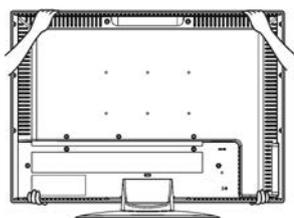
**L32H01AU**
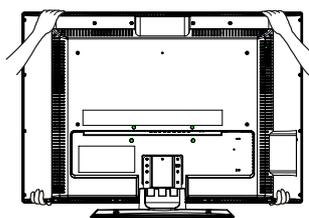
# PREPARATION (continued)

## Safety Precaution on Main Unit Installation

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

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, contac 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 adequate space around this television in order to avoid increasing the internal temperature.

Make sure not to block any ventilation holes.
Do not install the television in the small space such as inside the rack, closet or the box.

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

Without Swivel function: Leave at least 10cm of clearance behind rear unit.

With Swivel functrion: Leave at least 35cm of clearance to obtain the maximum performance of Swivel Function. (for L32H01AU)
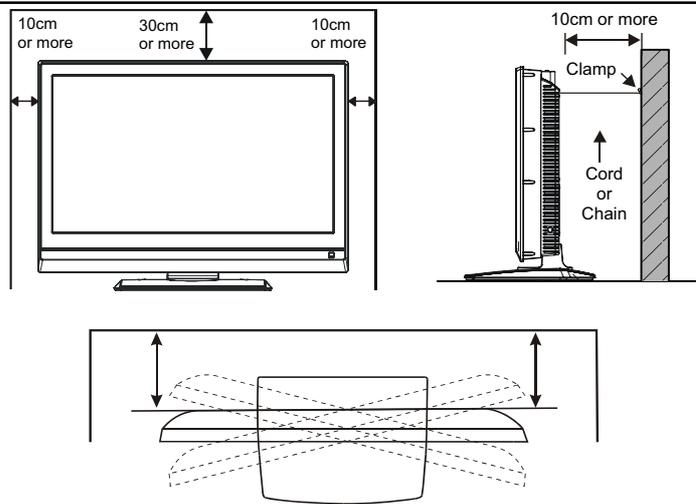


## Anti-Tumble Measures

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

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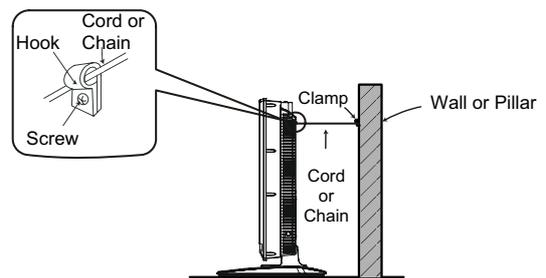


**Securing to ceiling**
Using a commercially available cord, chain, and clamp secure the set to a ceiling.

NOTE ➤

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

# CONNECTION

## Terminal Positions



(example: L32H01AU)

**Rear**
① Power Cord Socket
② Aerial Socket
③ AV1
④ Service Use Only
⑤ AV2
⑥ AV3
⑦ Monitor Out
⑧ PC(RGB)/HDMI Analog Audio Input
⑨ PC Connection Terminal (D-Sub 15 pin)
⑩ HDMI
⑪ Optical Out (Digital Audio)

**Side**
⑫ AV4
⑬ Headphone Terminal
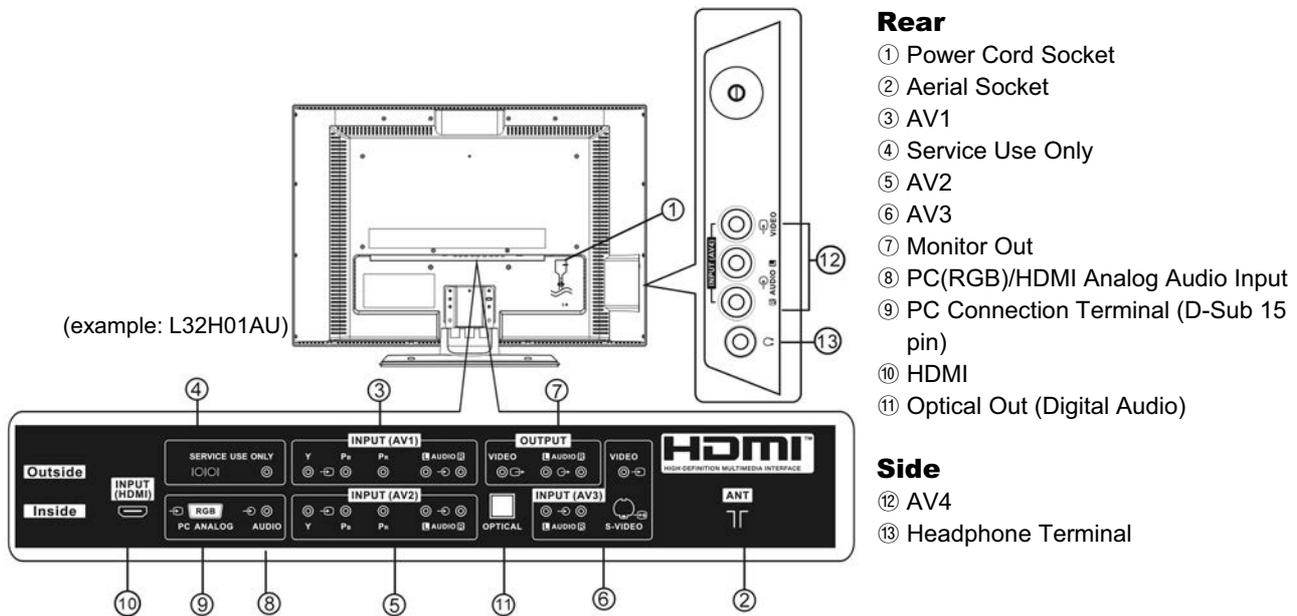
## Connecting Procedure

This unit is ready for various kinds of connections. Make a connection in the following steps. Be sure to unplug the power cord from the wall socket first, when connecting external equipment.
**1.** Connect Power Cord to the rear panel.
**2.** Connect Aerial Lead.
**3.** Connect your external equipment (if any) to the unit.
**4.** Connect the power plug to the wall socket.

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

Connect power cord to the television.
* Make sure not to connect the power plug to the wall socket until all connections are completed.

### 2. Connecting Aerial Lead.

There are two ways to connect aerial lead.
① **When you do not have any other external equipment**
    Connect the aerial lead directly into the socket at rear panel.
② **When you have one or more external devices to connect:**
    1. Use RF cable to connect between each equipment and aerial.
    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 LCD screen socket.
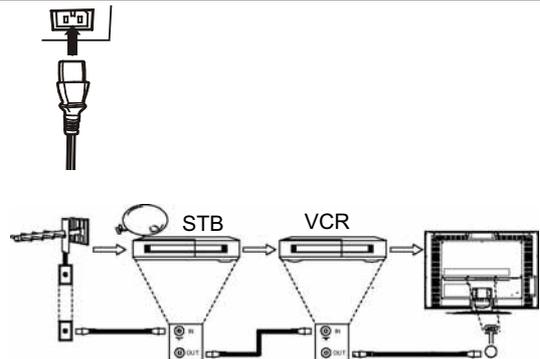
[Example: Connecting Antenna through STB and VCR.]

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

# CONNECTION (continued)

## Connecting Procedure (continued)

### 3. Connecting to External Equipment

#### ● Terminals on Rear

**AV1 and AV2** can be connected to the equipment with Component output.
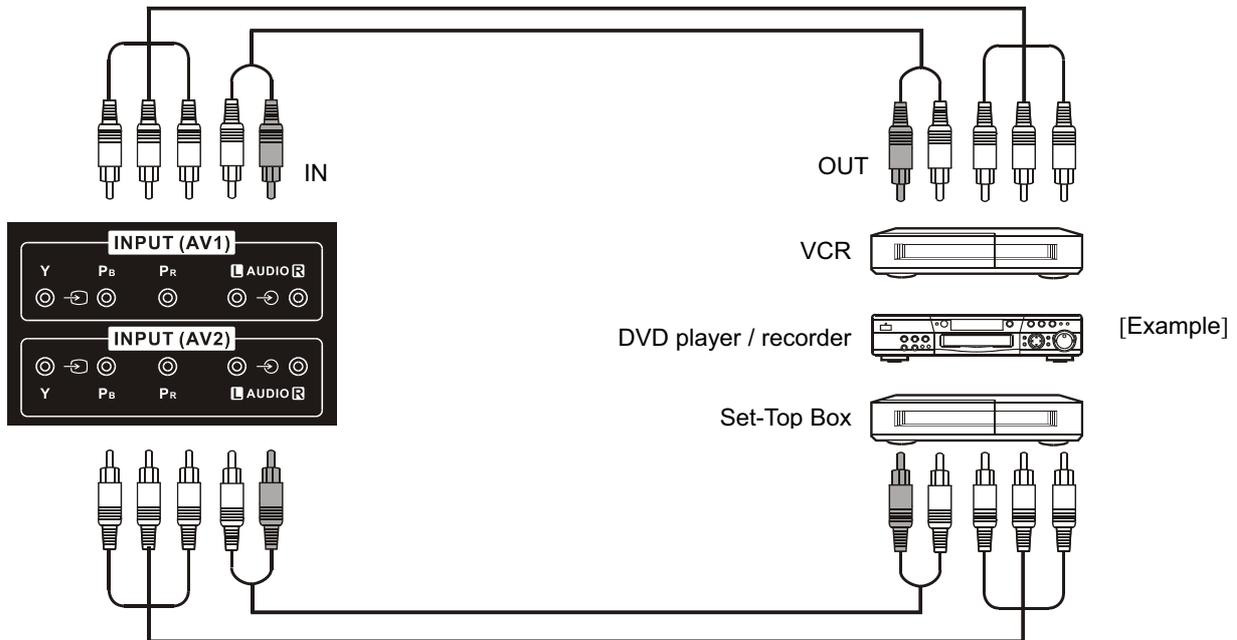


💡 If your external device has a Component terminal, COMPONENT / AUDIO connection is recommended for higher quality picture.

---

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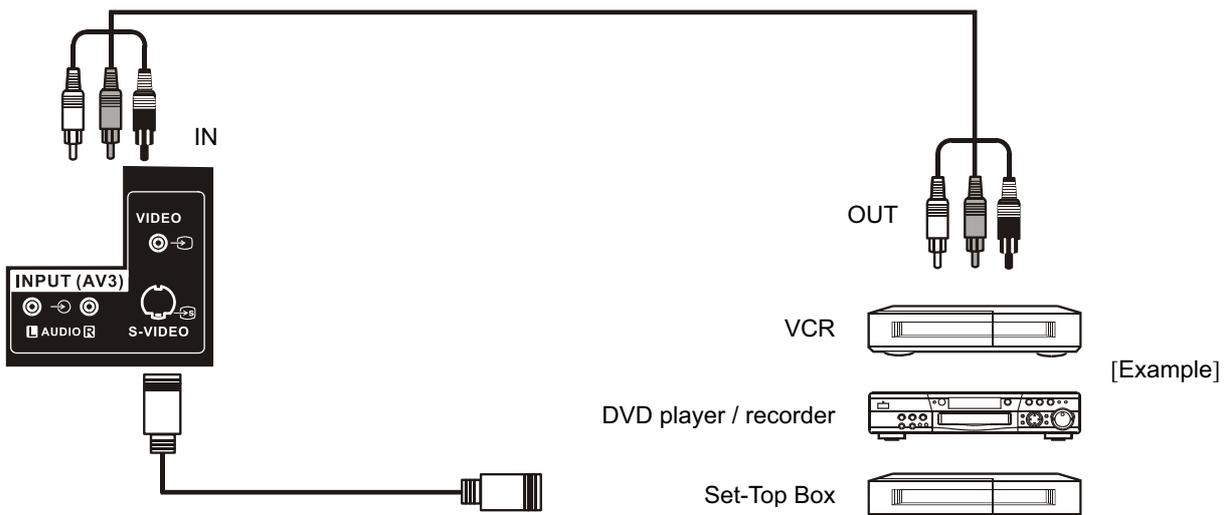


💡 If your external device has a S-Video terminal, S-Video connection is recommended for higher quality picture.

NOTE ▷
● If both S-video and Composite Video input terminals of AV3 are connected at the same time, S-Video will have its priority.

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## Connecting Procedure (continued)

**Monitor Out** can be used to display same image and sound as main unit on another television.
When this output terminal is connected to an external television with a 75 Ohm terminal, the same image and sound from composite (AV3, AV4), or DTT/TV signal can be displayed to the external television.

[Example]

[Example]

IN

OUT

Monitor
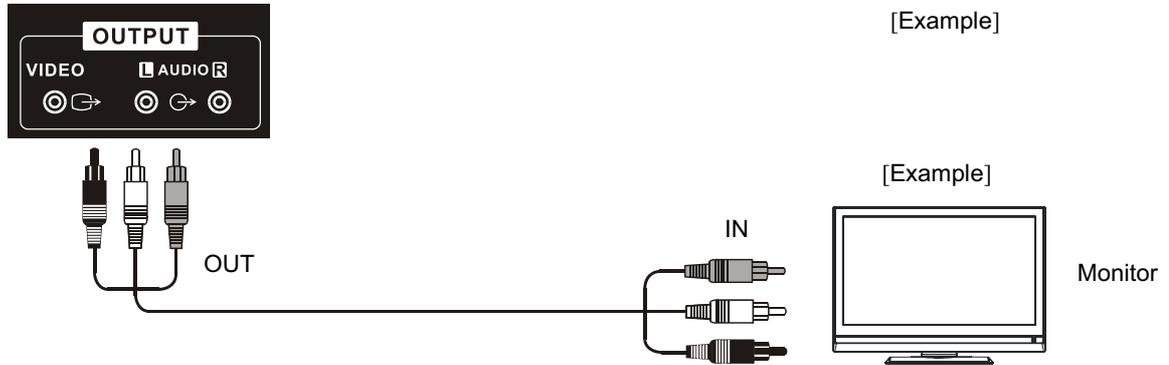
**NOTE**

● Video output is not available from component, RGB, or HDMI input.

**PC** connection terminal (D-sub 15 pin) +**PC(RGB)/HDMI Analog Audio Input** terminal connected to PC, which allows Analog RGB signal.

Mini stereo plug

IN

OUT

[Example]

or
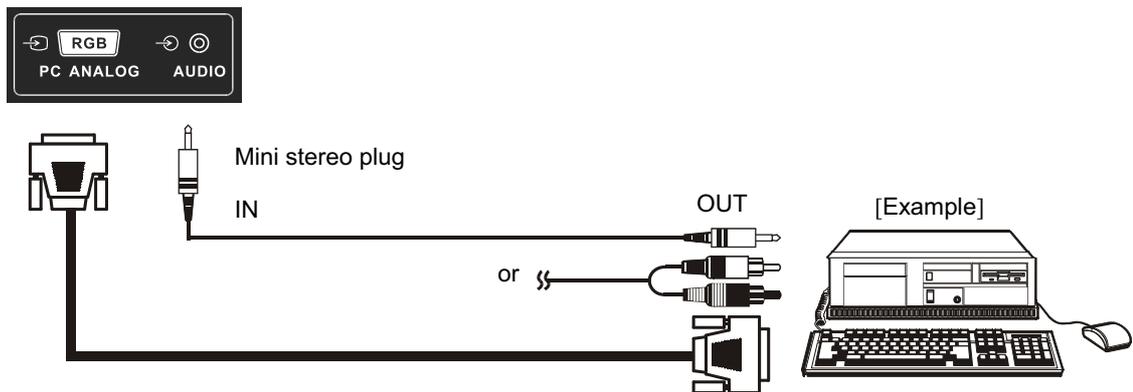
**HDMI** terminals can be connected to the devices with HDMI output .
If the external device has DVI output, this can be available with HDMI-DVI cable. In case of using the HDMI-DVI cable, connect analog audio signal to **PC (RGB)/HDMI Analog Audio Input** terminal.

[Example]

IN

OUT

VCR

DVD player / recorder

Set-Top Box
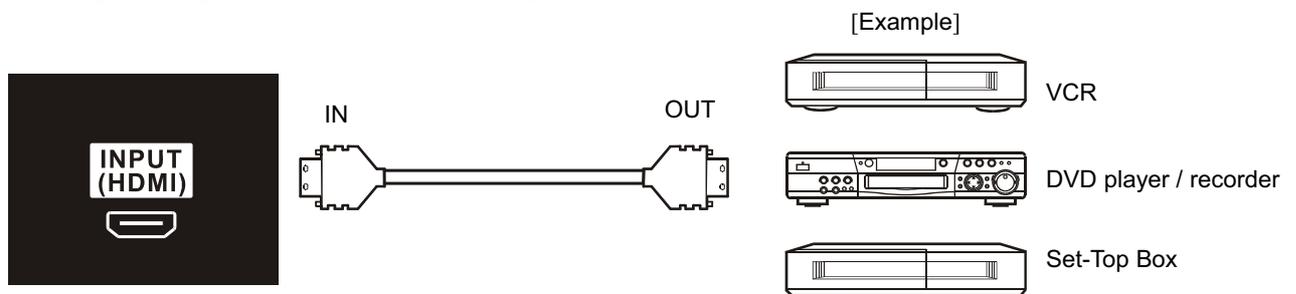
### ✍ Information

HDMI (High Definition Multimedia Interface) is next-generation multimedia I/O interface. Only one cable is used to transmit all video/audio/control signals, which creates easy connection.
Moreover, those digital signals can produce high quality data without any degradation.
You are provided with one 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.

# CONNECTION (continued)

## Connecting Procedure (continued)

> **NOTE** ▶
>
> ● About PC (RGB)/HDMI analog audio input terminal
>
> This terminal can be used in one of the following cases only.
> ① The external device is connected to the PC (RGB) terminal of the TV.
> ② The DVI output of an external device is connected to the HDMI terminal using the HDMI-DVI cable.
>
> 
>
> HDMI Terminal — PC (RGB) / Audio Input Terminal
>
> Make sure that the video and audio terminals are connected to the same external device.
> About the out put format of an external device, refer to "Recomment Signal List" on 51 , 52 .
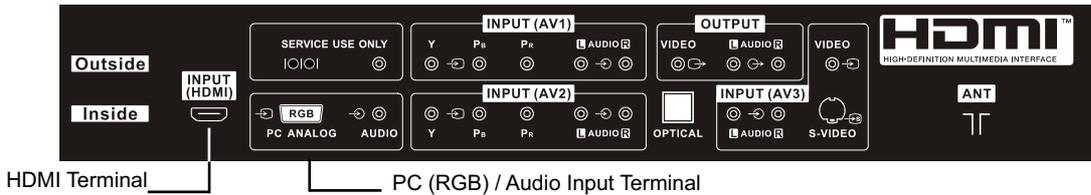
### ● Terminals on Side

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

**AV4** can be connected to the equipment with a composite output.



[Example]

VCR

Camcorder

DVD Player / recorder

Home video game

IN    OUT

AV4

### Headphone



(Mini Stereo Plug)
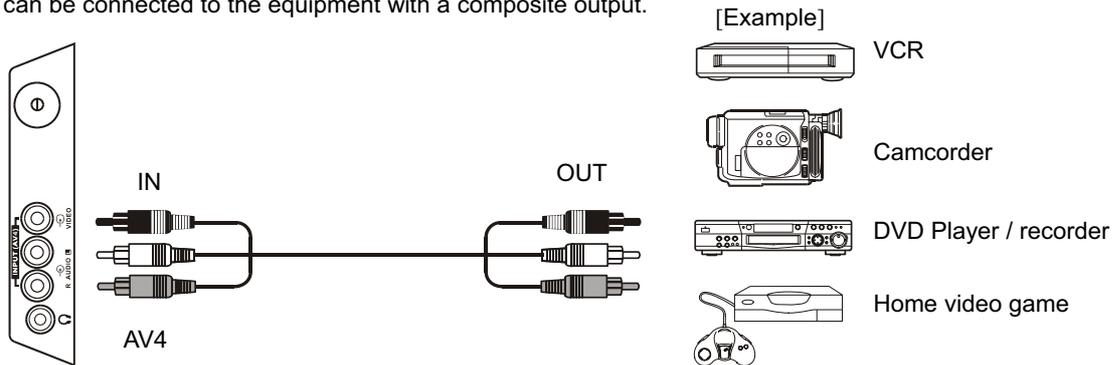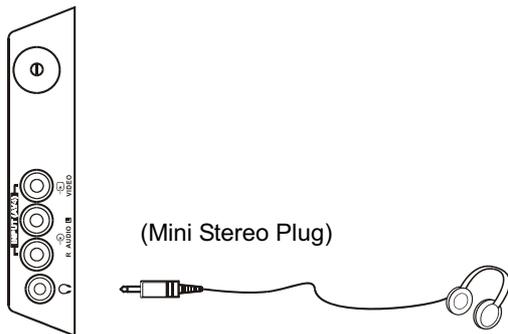
💡 The audio from the speaker will be muted when connecting the headphone to this terminal.

**Optical Out (Digital Audio)** terminal can be connected to an audio amplifier with Optical Audio input.



OUT    IN

[Example]
Stereo System Amplifier
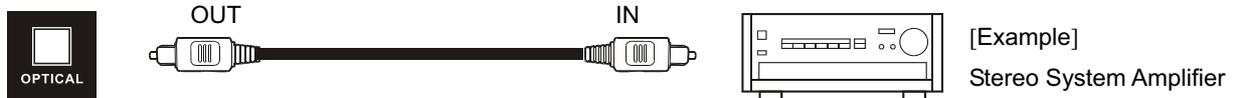
> **NOTE** ▶
>
> ● This output is DTT output but not monitor output.

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# CONNECTION (continued)

## Connecting Procedure (continued)

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

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



---
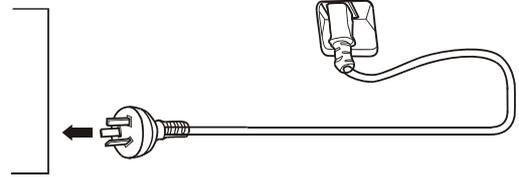
### ⚠ CAUTION

- Use only the power cord provided.
- Do not use a power supply voltage other than that indicated (AC110-240V, 50/60Hz). It may cause fire or electric shock.
- For the LCD panel, 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 power cord and cables

#### Step 1. Secure the power cord

After connecting power cord to the rear panel, secure the power cord with the clamp.

Clamp for power cord



(example: L32H01AU)
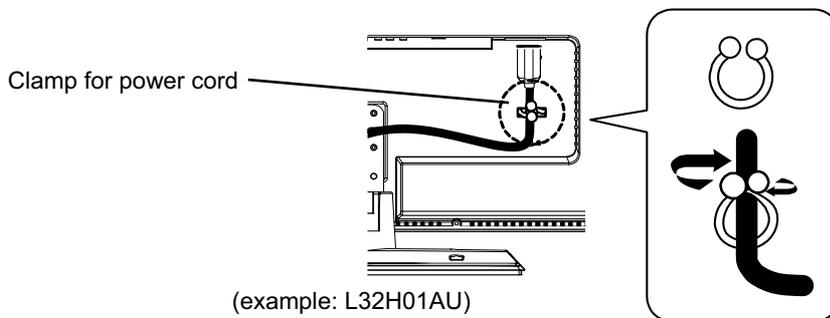
#### Step 2. Secure all cables

Secure all cables together with power cord by using large clamp.



(example: L32H01AU)   Large clamp
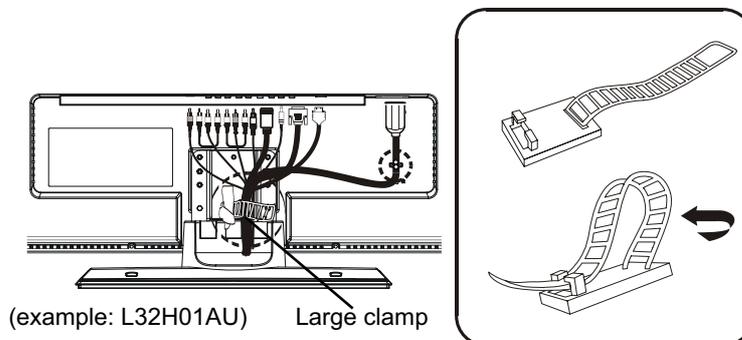
NOTE ▶

● When you secure the cables, please be careful not to tighten too much.

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# BASIC OPERATION

## POWER On/Off

Now, turn On the main power of the unit.



Main Power switch

Indicating Lamp

● **To turn On the power of the television**

   **1.** Press the **Main Power switch** on the television.
     ● The Indicating Lamp will illuminate in **Red** (Standby mode).

   **2.** Press either **Sub Power button** on the control panel or **Sub Power button** on the remote control.
     ● The color of the Indicating Lamp turns into **Green**, and the image will display on the screen.
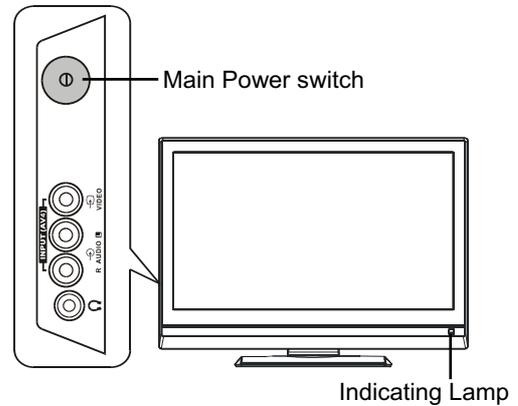
● **To turn Off the power of the television**

   **1.** Press either **Sub Power button** on the control panel or **Sub Power button** on the remote control.
     ● The image disappears from the screen and the Indicating Lamp turns into **Red** (Standby mode).

   **2.** Press **Main Power switch** to completely turn Off the power of the unit.
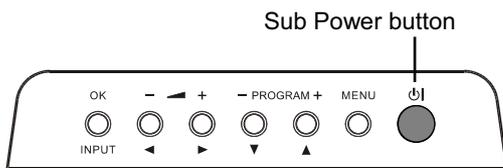
Sub Power button



Sub Power button

### The Indicating Lamp Status

| Indicating Lamp Status | Power Status | Power Switch Status |
|---|---|---|
| **Off** | Off | Main power → Off |
| **Red** | Standby mode | Main power → On<br>Sub Power button → Off |
| **Green** | On | Main power → On<br>Sub Power button → On |
| **Orange** | Power Save mode | Main power → On<br>Sub Power button → On |

**NOTE**

● If the image does not appear on the screen at all, or have any problem, see TROUBLESHOOTING on 46 ~ 48 . 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, unplug the power cord before you leave if there is a power cut during use of the unit.

# 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.

Volume Up / Down button

Mute button

Volume Up / Down button
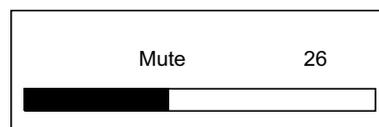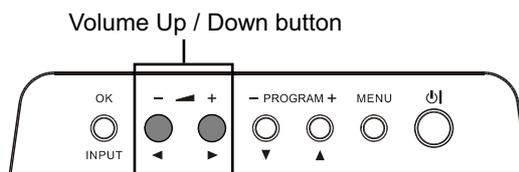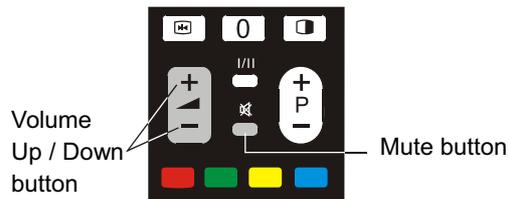
## Mute

**1.** To mute the sound, press 🔇 button on the remote control.
   • The sound of the unit is temporarily turned Off.
   • The color of the Volume indicator will turn into **magenta** while muting the volume.

**2.** To turn the sound back, press 🔇 button again, or Volume Up button on either remote control or the control panel.

Mute                26

NOTE
• You can decrease the volume by pressing ⬇ button while the sound is muted.

The Volume indicator

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

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

 • To watch actual broadcast, press **Input Selec**t button on the control panel, the numeric buttons, **DTT/TV** button or **Channel Up / Down** button on the remote control.
 • To display the image outputting from the external equipment connected to each terminal ( DTT/TV, AV1~4, HDMI and RGB), select corresponding mode.

**1.** Press **Input Select** buttons on the remote control.
   (Use " AV " button to switch between DTT and TV mode.)

**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.

   DTT → TV → AV1 → AV2
   RGB ← HDMI ← AV4 ← AV3

**3.** To go to **TV** mode, press **Channel Up/Down** buttons on remote control or **Program UP/Down** on the control panel.

   Also, you can use the numeric buttons or **TV / DTT** button on the remote control.

AV button

Channel Up/Down buttons

Input Select buttons

Input Select          Channel Up / Down
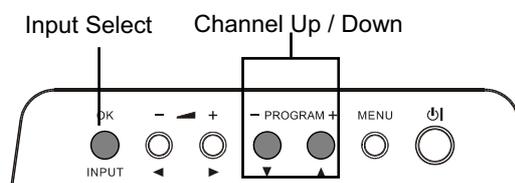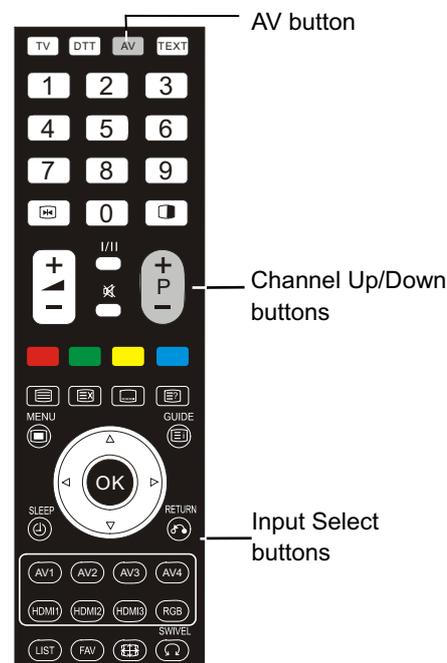
# BASIC OPERATION (continued)

## Input Signal Screen Display

The input signal status and off timer staturs can be displayed on the screen by pressing the ⊞ button of the remote control.

- The display in DTT mode will appear when changing the channels.
  (Refer to ⌊38⌋,⌊39⌋ )
- The display will go out in approximately 5 seconds.

**Recall button**

**DTT**

Channel number
Signal Type
Rating
Channel name

| 06-0072 | Now |
| SD | C |
| ABCDE | |

Program name
Broadcasting time
Start time
End time
Program progress indicator

**TV**

1
ABCDE
▼

TV position
Name
Sound mode

Off-timer → ⏱OFF  - - Min.

**VIDEO**

AV1
Component

Input mode
Signal mode

Off-timer → ⏱OFF  - - Min.

**RGB**

RGB
H: 48.4 kHz
V: 60.1  Hz

Input Mode
Input horizontal frequency
Input vertical frequency

Off-timer → ⏱OFF  - - Min.

HITACHI
CLE-994

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# 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 MENU 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 OK 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 OK button to set your selection.

**5.** Use buttons to adjust the item values or choose options.
Press OK button to set your selection.

**6.** To exit from the menu, press MENU button.

NOTE

● The OSD menu screen will be closed automatically when no operation has been made for about 30 seconds.
● If the item in menu is shown in gray, it means that it cannot be selected or adjusted.

Picture
Audio
Timer
Setup

Select  OK Set

<Main Menu>

Menu button

Menu button
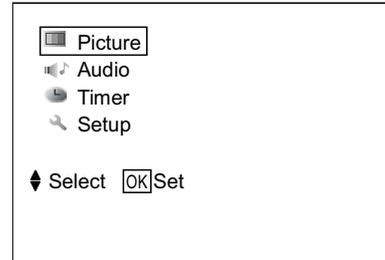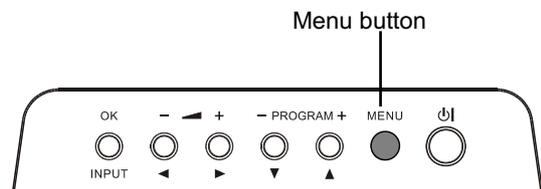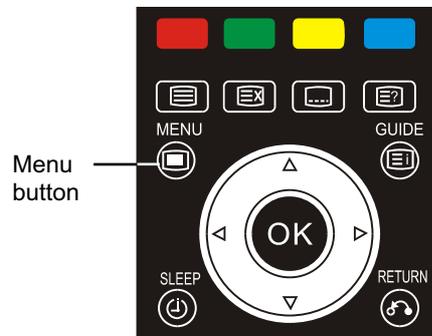
# TV SETUP OPERATION (continued)

## Main Menu List

<table>
<tr><th colspan="2">Menu</th><th>Page</th></tr>
<tr><td rowspan="17">Picture(TV/AV)</td><td>Picture Mode</td><td>27</td></tr>
<tr><td>Contrast</td><td>27</td></tr>
<tr><td>Brightness</td><td>27</td></tr>
<tr><td>Color</td><td>27</td></tr>
<tr><td>Sharpness</td><td>27</td></tr>
<tr><td>Tint</td><td>27</td></tr>
<tr><td>Color Temperature</td><td>27</td></tr>
<tr><td>Back Light</td><td>27</td></tr>
<tr><td>Reset</td><td>27</td></tr>
<tr><td>Black Enhancement</td><td>28</td></tr>
<tr><td>DNR</td><td>28</td></tr>
<tr><td>MPEG NR</td><td>28</td></tr>
<tr><td>Film Mode</td><td>28</td></tr>
<tr><td>3D Comb Filter</td><td>28</td></tr>
<tr><td>Picture Size</td><td>28</td></tr>
<tr><td>Reset</td><td>28</td></tr>
<tr><td rowspan="5">Picture(RGB)</td><td>Contrast</td><td>33</td></tr>
<tr><td>Brightness</td><td>33</td></tr>
<tr><td>Color Temperature</td><td>33</td></tr>
<tr><td>Back Light</td><td>33</td></tr>
<tr><td>Reset</td><td>33</td></tr>
<tr><td rowspan="6">Audio</td><td>Audio Mode</td><td>29</td></tr>
<tr><td>Treble</td><td>29</td></tr>
<tr><td>Bass</td><td>29</td></tr>
<tr><td>Balance</td><td>29</td></tr>
<tr><td>Matrix Surround</td><td>29</td></tr>
<tr><td>Dynamic Bass</td><td>29</td></tr>
</table>

<table>
<tr><th colspan="3">Menu</th><th>Page</th></tr>
<tr><td rowspan="3">Audio</td><td colspan="2">Perfect Volume</td><td>29</td></tr>
<tr><td colspan="2">TV Speakers</td><td>29</td></tr>
<tr><td colspan="2">Reset</td><td>29</td></tr>
<tr><td>Timer</td><td colspan="2">Off Timer</td><td>30</td></tr>
<tr><td rowspan="14">Setup(TV)</td><td rowspan="2">Auto Tuning</td><td>Mode</td><td>24</td></tr>
<tr><td>Search</td><td>24</td></tr>
<tr><td rowspan="8">Manual Tuning</td><td>Position</td><td>24</td></tr>
<tr><td>Frequency</td><td>24</td></tr>
<tr><td>Name</td><td>24</td></tr>
<tr><td>Sound System</td><td>24</td></tr>
<tr><td>Color System</td><td>25</td></tr>
<tr><td>Skip</td><td>25</td></tr>
<tr><td>Anteena Att.</td><td>25</td></tr>
<tr><td colspan="2">Fine Tuning</td><td>25</td></tr>
<tr><td colspan="2">Sort</td><td>25</td></tr>
<tr><td colspan="2">Teletext Language</td><td>34</td></tr>
<tr><td rowspan="2">Setup(AV)</td><td colspan="2">Video Power Save</td><td>45</td></tr>
<tr><td colspan="2">Reset</td><td>—</td></tr>
<tr><td rowspan="7">Setup(RGB)</td><td colspan="2">Auto Adjust</td><td>32</td></tr>
<tr><td colspan="2">Image Position</td><td>32</td></tr>
<tr><td colspan="2">Horizontal Clock</td><td>32</td></tr>
<tr><td colspan="2">Clock Phase</td><td>32</td></tr>
<tr><td colspan="2">Reset</td><td>32</td></tr>
<tr><td colspan="2">Frequency Display</td><td>32</td></tr>
<tr><td colspan="2">WXGA</td><td>32</td></tr>
</table>

# TV SETUP OPERATION (continued)

## Setup Menu (TV mode)

You can install channels and make the various settings related channels.

🔍 Setup

| Auto Tuning |
| --- |
Manual Tuning
Fine Tuning
Sort
Teletext Language

1. Press ⏺ button.

2. Select " **Setup** " menu and press ⓞⓚ button.

3. Select the preferred menu item and press ⓞⓚ button.

⬍Select  OK Set  Return

| Selected Items | | | Setup hint |
|---|---|---|---|
| **Auto Tuning** | Mode | Position | Searches every channel. Store the channels in order of tuning.(1~125) |
| | | Direct | Searches available channel. Store the channels in fixed number according to broadcasting standard. The channel number 1~12 and 21~69 are displayed as C∗ ∗, and the channel number 101~146 are displayed as S∗ ∗. |
| | Search | | Tune the local channels automatically. Press ⓞⓚ button to start searching. |
| **Manual Tuning** | Position | | Press channel up (+) down (-) buttons to input position number (1~125) or channel number (C** or S** ). |
| | Frequency | | Search the frequency by using ⊕ button when Auto Tuning Mode is set to [position]. When Auto Tuning Mode is set to [Direct], this function is not available (grayed out). |
| | Name | | 1. Move the cursor to the first digit and select the letters with ⊕ buttons. <br> 2. Move to the next digit with ⊕ button. <br> 3. Press ⓞⓚ button again when you finish inputting all the letters. <br> • The selectable letters are as follows: "0"~"9", "A"~"Z", " " (blank), "+", "- ", "." (Period) and "?". |
| | Sound System | Auto | Select [Auto] normally. In case that sound is not output correctly, select the other modes depending on the received signal. |
| | | M | |
| | | D/K | |
| | | I | |
| | | B/G | |

**NOTE** ▶

When you turn ON the television for the first time, your television is at "the original factory setting" and may not be able to display the image normally on the TV screen. Please select **Auto Tuning** to set the TV channel.

## Setup Menu (TV mode) (continued)

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

```
🔍 Setup
   ┌─────────────────┐
   │ Auto Tuning     │
   └─────────────────┘
     Manual Tuning
     Fine Tuning
     Sort
     Teletext Language

  ⬍ Select   OK Set   👓 Return
```

| Selected Items | | | Setup hint |
|---|---|---|---|
| **Manual Tuning** | Color System | Auto | Select [Auto] normally. In case that color is not displayed correctly, select the other modes depending on the received signal. |
| | | NTSC 4.43 | |
| | | SECAM | |
| | | PAL | |
| | | NTSC 3.58 | |
| | Skip | Off | It allows you to skip unregistered channels automatically when you use channel up (P+) down (P-) buttons to select channels. This function will automatically skip unavailable channels when set to on. |
| | | On | |
| | Anteena Att. | Off | The noise on the screen or interference could be reduced in case that the receiving field strength are too strong. • The selection on this item is applied to all the channels. |
| | | On | |
| **Fine Tuning** | -56~+56 | | ▶: Increase the frequency data for the main tuner. ◀: Decrease the frequency data for the main tuner. |
| **Sort** | | | You can change the order of channels as follows. 1. Move the cursor to the channel row you want to change order and then, press ⓞⓚ button. 2. The color of the letters on the designated line will be turned into yellow bracket and with [ ]. 3. Move the designated row by using ⬍ buttons. 4. Press ⓞⓚ button to fix the position. • This function is not available (grayed out) when the Auto Tuning Mode is set to [Direct]. |

# TV SETUP OPERATION (continued)

## Channel Selections

There are 2 ways to select the channels: stepping through the channel, and selecting by number.
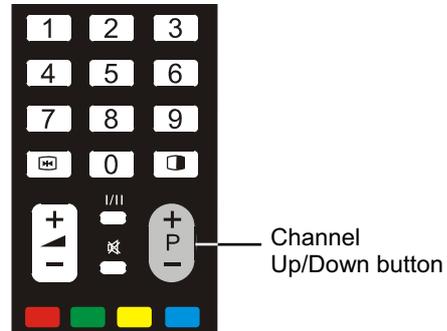


Channel
Up/Down button

### Stepping through the Channel

Press **Channel Up/Down** button to switch the next or previous channel on the list.

Channel Up/ Down button
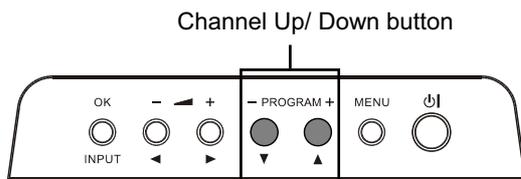


### Selecting by Number

Enter the number of acquired channel by using numeric buttons on the remote control.
The selectable channel number and method differ depending on the modes
("**Position**" or "**Direct**") of **Auto-tuning**. See  24  for the details.

● **If you have tuned channels with "Position" mode:**

The position number of 0~125, of which you have tuned with "**Position**" mode, can be selected by using numeric buttons on the remote control.

● **If you have tuned channels with "Direct" mode:**

Input the number "001~012 (displayed as C1~C12) or 021~069 (displayed as C21~C69) or 101~146 (displayed as S1~S46)" by using numeric button on the remote control.

## Picture Setting

You can make specific adjustments for the picture based on your preference.

**1.** Press 🔘 button.

**2.** Select **"Picture"** menu and press (OK) button.

**3.** Select the preferred menu item and press (OK) button.

(By pressing ▼ button at the bottom of each menu page, the next Picture menu will appear on the screen.)

NOTE ►

Please see ⌂32⌂ about picture setting of PC

| Page 1 | Page 2 |
|---|---|

```
Page 1

▣Picture
  Picture Mode      Dynmaic
  Contrast          +31 ▭
  Brightness        0 ▭
  Color             0 ▭
  Sharpness         0 ▭
  Tint              0 ▭
  Color Temperature  Cool
  Back Light        High
  Reset             Reset
  ♦Select  OK Set  🔙Return
```

```
Page 2

▣Picture
  Black Enhancement   Off
  DNR                 Off
  MPEG NR             Off
  Film Mode           Off
  3D Comb Filter      Off
  Picture Size        1
  Reset               Reset
  ♦ Select  OK Set  🔙 Return
```
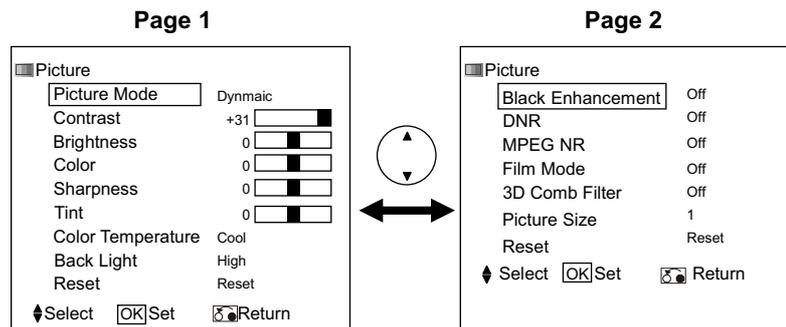
| Selected Items | | Setup hint |
|---|---|---|
| **Picture Mode** | Dynamic | You can make the better selection from 3 modes Depending on the lighting condition and intended use. Dynamic : Suitable for the brighter conditions. Natural : Suitable for the normal lighting condition. Cinema : Suitable for watching movie. |
| | Natural | |
| | Cinema | |
| **Contrast*** | -31~+31 | This adjusts the contrast to meet the lighting environment by using ⊕ button. |
| **Brightness*** | -31~+31 | With this function, black is adjusted to change the overall brightness by using ⊕ button. |
| **Color*** | -31~+31 | It can adjust color density based on your preference by using ⊕ button |
| **Sharpness*** | -15~+15 | Preferred sharpness can be adjusted by pressing ◁ button for softer image or ▷ button for sharper image. |
| **Tint*** | -31~+31 | Pressing ◁ button enhances red and weakens Yellow, while pressing ▷ button weakens red and enhances Yellow. The setup hint is adjusting for the realistic skin color. This is not available by PC mode when receiving RGB signal. |
| **Color Temperature*** | Cool | You can select from 3 settings (default): Cool, Normal, Warm depending on the color condition with ⊕ buttons. You can adjust the setting in "User" item. |
| | Normal | |
| | Warm | |
| | User | |
| **Back Light** | High | Adjust the brightness of the Back Light for the maximum visibility. |
| | Middle | |
| | Low | |
| **Reset** | | Each item on this menu screen can be restored to the original factory settings by pressing (OK) button. |

✍ **Information**

The setting of the items indicated by " ✱ " can be stored for each of inputs and picture modes (Dynamic/Natural/Cinema).
You can enjoy different setting depending on the selected input such as VCR in AV3.

## Picture Setting (continued)

| Selected Items | | Setup hint |
|---|---|---|
| **Black Enhancement** | Off | Adjusts the black level compensation. |
| | Low | |
| | Middle | |
| | High | |
| **DNR** | Off | The noise on the screen or interference could be reduced, especially at the area of weak electric field. |
| | Low | |
| | Middle | |
| | High | |
| **MPEG NR\*** | Off | This is a noise reduction system for MPEG picture signal. (ex. against mosquito noise and block noise) |
| | Low | |
| | High | |
| **Film Mode** | Off | This helps to make the moving image smooth. |
| | On | 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. |
| **3D Comb Filter** | Off | This is available only when receiving PAL/ NTSC 3.58 composite signal. This reduces the dot and color blurring in minute scales so that it can reproduce purer color. |
| | On | |
| **Picture Size** | 1 | Select [1] it will display the original picture completely. If the images from TV signal (especially CATV) has blacken gap in Panoramic mode, and select [2], it will make up for the gap. But when display is no available in "Cinema" size. This function only works for TV, Composite, Component and HDMI input. |
| | 2 | |
| **Reset** | | Each item on this menu screen can be restored to the original factory settings by pressing ⓞⓚ button. |

✎ **Information**

The settings of the item indicated by " ✱ " can be automatically stored depending on the signal mode.

---

NOTE ▶ About "Film Mode"

- The image might not look natural depending on the image contents.

Phenomena such as
  ① When switching the subtitles of a film or images, the image displays fine horizontal streak lines.
  ② When switching the scenes such as commercial and animation, the image displays fine horizontal streak line.
  ③ When displaying a ticker or subtitle, the text on the image becomes rough ( aliasing).
  ④ When watching the image form AV input which is connected to any external equipment, the OSD of external equipment displays fine horizontal streak lines.

These phenomena occur due to the method of converting the image.
Please note that this is not malfunction.
In case that it is disturbing, please set to Off.
In addition, the effect of this menu might vary depending on the size setting (See 43 )
Also, this might not be ineffective depending on the scene of image.

# TV SETUP OPERATION (continued)

## Audio Setting

You can adjust and customize the audio condition as you like.

**1.** Press MENU button.

**2.** Select " **Audio**" menu and press (OK) button.

**3.** Select the preferred menu item and press (OK) button.

```
┌────────────────────────────────────────┐
│ ◀♪ Audio                               │
│   ┌──────────────┐                      │
│   │ Audio Mode   │      Favorite        │
│   └──────────────┘                      │
│     Treble            0 ▭▭▭■▭▭          │
│     Bass              0 ▭▭▭■▭▭          │
│     Balance          0L ▭▭■▭▭ R         │
│     Matrix Surround   Off               │
│     Dynamic Bass      Off               │
│     Perfect Volume    Off               │
│     TV Speakers       On                │
│     Reset             Reset             │
│   ♦Select    OK Set      ▱▱ Return      │
└────────────────────────────────────────┘
```
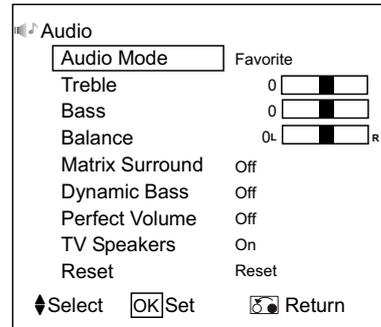
| Selected Items | | Setup hint |
|---|---|---|
| **Audio Mode** | Movie | You can select the most suitable sound condition from these 4 items. You can adjust any value you preferred in "Favorite" item. |
| | Music | |
| | Speech | |
| | Favorite | |
| **Treble** | -15~+15 | Adjust the Treble of the sound. |
| **Bass** | -15~+15 | Adjust the Bass of the sound. |
| **Balance** | -10~+10 | Adjust the balance of the sound comes out from right and left side of the speakers. (Notice: When Matrix Surround is enabled, adjusting the Balance will not completely mute any one speaker.) |
| **Matrix Surround** | Off | The surround sound is mixed to left and right in order to create the illusion of virtual surround speakers. (Recommendation: when the Matrix Surround is on, ensure the Balance is set to "0" for optimum surround sound effect.) |
| | On | |
| **Dynamic Bass** | Off | Dynamic Bass gives you the enhanced bass sound. Low frequency signals can be boosted while the output signal amplitude is measured. |
| | On | |
| **Perfect Volume** | Off | Automatically adjusts audio input levels to stay within a safe volume range. For example, when the input sound is too loud, the volume is automatically decreased. |
| | On | |
| **TV Speakers** | Off | This needs to be switched to Off when you want to listen to audio from external equipment. It is normally set to On when you operate the set using the built in speakers. |
| | On | |
| **Reset** | | Each item on this menu screen can be restored to the original factory settings by pressing (OK) button. |

# TV SETUP OPERATION (continued)

## Timer Menu

This allows your **television** to turn Off (Standby mode) at set time automatically, which you may find useful.

```
Timer
  Off Timer                - -  Min.

  ◄► Adjust      Return
```
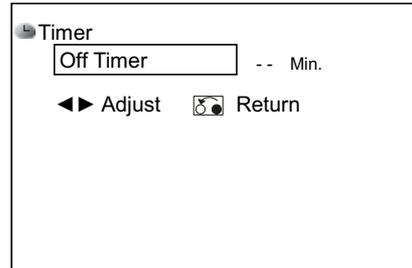
| Selected Items | | Setup hint |
|---|---|---|
| **Off Timer** | - - Min. | This function automatically sets the power to Standby mode when the selected time period has elapsed. |
| | 30Min. | |
| | 60Min. | |
| | 90Min. | |
| | 120Min. | |

✍ **Information**

One minute before the time you set, the screen will display "Time off within one minute".

# TV SETUP OPERATION (continued)

## Audio Switching (TV)

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

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

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

### Bilingual/Dual Sound broadcast

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

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

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



Sound multiplex signal received



NICAM signal received

[I]…Main language/Primary Sound
[II]...Sub language/Secondary Sound
▼…force mono: This selects main language or primary sound.
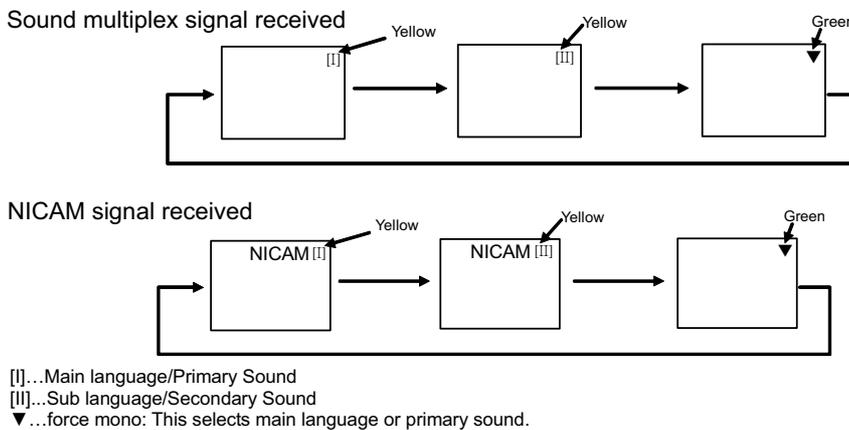
### Stereo broadcast

With stereo broadcast, you can enjoy different sound from either side.
When a stereo program is received, sound mode display will appear in red as shown.
Also, when receiving NICAM signals, NICAM display will appear.

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



Sound multiplex signal received



NICAM signal received
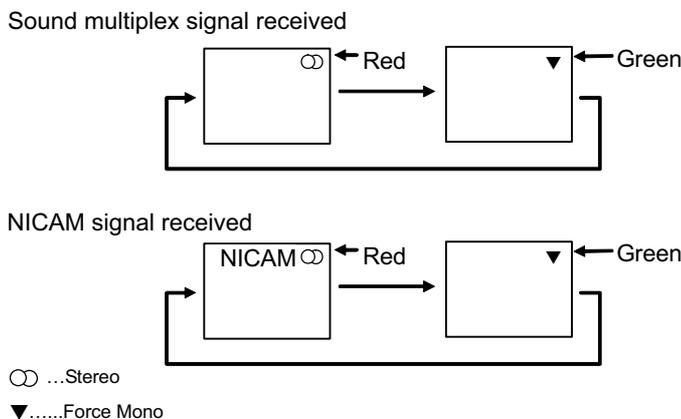
◯◯ …Stereo

▼......Force Mono

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.

## PC Adjustment Setting

You can adjust the display condition such as position adjustment and color setting while connecting to the PC and being RGB mode. See 16 for the PC connection.

### From Setup Menu (RGB)

1. Press [MENU] button.

2. Select " **Setup**" menu and press (OK) button.

3. Select the preferred menu item and press (OK) button.

```
🔍 Setup
   Auto Adjust          ►
   Image Position       ►
   Horizontal Clock     +4 ▮▮
   Clock Phase          21 ▮▮
   Reset                Reset
   Frequency Display    Off
   WXGA                 Off

  ♦ Select    ⟳ Return   ▣ Exit
```

| Selected Items | | Setup hint |
|---|---|---|
| **Auto Adjust** | | Adjust Horizontal Position, Vertical Position, Horizontal Clock, and Clock Phase automatically.<br>• Press (OK) or ▶ button to start auto adjustment as needed. The message "Auto Adjust" is displayed.<br>• 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. |
| **Image Position*** | | • Press (OK) button and ✛ button to adjust the horizontal and vertical display positions.<br>(For example: When user connect PC terminal to LCD TV set. PC Display card provide timing is 1024x768 60Hz that Horizontal range: -100~+100 and Vertical range: -22~+22.) |
| **Horizontal Clock*** | -31~+31 | Minimize the vertical stripes on the screen. |
| **Clock Phase*** | 0~+63 | Minimize the blurring of the letters and stripes on horizontal row.<br>• Make sure to adjust <u>Horizontal Clock first</u> before adjusting Clock Phase. |
| **Reset** | | Each item on this menu screen can be restored to the original factory settings by pressing (OK) button. |
| **Frequency Display** | Off | Select whether indicating the PC signal frequency information on Input Signal Screen Display or not. |
| | On | |
| **WXGA** | Off | • This function is available only for WXGA signal.<br>• Refer to "Recommended Signal List" on 52. |
| | 1280x768 | |
| | 1360x768 | |

✍ **Information**

The setting of the items indicated by " ✱ " can be automatically stored depending on the signal mode.

# TV SETUP OPERATION (continued)

## PC Adjustment Setting (continued)

### From Picture Menu (RGB)

**1.** Press 🔘 button.

**2.** Select " **Picture**" menu and press ⓞ button.

**3.** Select the preferred menu item and press ⓞ button.

```
■Picture
  Contrast            +31  ▭▭▭▭■
  Brightness           0   ▭■▭▭▭
  Color Temperature   Cool
  Back Light          High
  Reset               Reset


  ♦Select   OK Set   🔄 Return
```
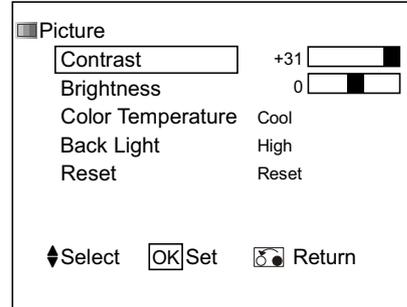
| Selected Items | | Setup hint |
|---|---|---|
| **Contrast** | -31~+31 | This adjusts the contrast to meet the lighting environment by using ⟨•⟩ button. |
| **Brightness** | -31~+31 | With this function, black is adjusted to change the overall brightness by using ⟨•⟩ button.. |
| **Color Temperature** | Cool | You can select from 3 settings (default): Cool, Normal, Warm depending on the color condition with ⟨•⟩ buttons. You can adjust the setting in "User" item. |
| | Normal | |
| | Warm | |
| | User | |
| **Back Light** | High | Adjust the brightness of the Back Light for the maximum visibility. |
| | Middle | |
| | Low | |
| **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.

# TV SETUP OPERATION (continued)

## Analog Teletext

### What is " Teletext"

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

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

Page number
11:37:56

Link Page

Red  Green  Yellow  Blue

### Select Teletext Language

1. Press MENU button.

2. Select "**Setup**" menu and press OK button.

3. Select "**Teletext Language**" and press OK button.

Setup
Auto Tuning
Manual Tuning
Fine Tuning
Sort
Teletext Language

Select   OK Set   Return

| Selected Items | Setup hint |
|---|---|
| **Teletext Language** | Select Teletext Language from 5 different categories (West Europe, East Europe, Russian, Arabic and Farsi) According to the area.<br>West Europe : Asian countries where the Teletext Is broadcasting in English such as Singapore, Australia, and Malaysia<br>East Europe : Poland, Sweden, Hungary<br>Russian      : Russia<br>Arabic        : Arab countries<br>Farsi          : Iran |

# TV SETUP OPERATION (continued)

## Analog Teletext (continued)

### How to Operate the Teletext

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

| Operation | Press |
|---|---|
| To activate Teletext mode.*<br>To exit from the Teletext mode. | [TV ⇔ Text] |
| To move to the next or previous page. | + P − [Page Select] |
| To jump to the indicated page. ( Enter 3 digits.) | 0 ~ 9 [Page Select] |
| To change Teletext picture size. | [Zoom] |
| To display Index page. | [Index] |
| To adjust Back Light of the image. | [Back Light] |
| To access Subtitle service directly (if the channel has the Subtitle service broadcasting).* | [Subtitle] |
| To display Hidden text.<br>Ex. The answers of the Quiz or the Game page.<br>Press again to close the revealed answer. | [Reveal] |
| To return to actual broadcast temporarily while searching for the Teletext page you request.<br>When the search is done, the designated page # will be displayed on the upper left of the screen.<br>Press again to return to Teletext page. | [Cancel] |
| To access the link pages which are displayed at the bottom of the page.<br>(Select the buttons corresponding to the colors of the letters on screen.) | [Color] |
| To hold the text picture. | [Hold] |
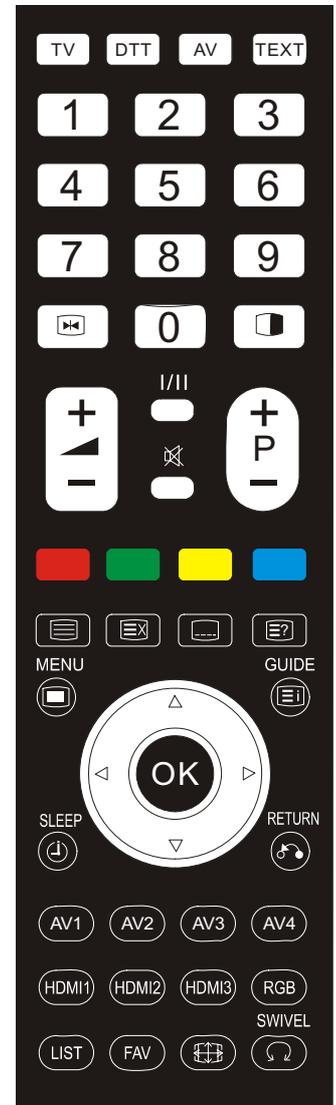
✱ This is not available in the following conditions.

- Color system : NTSC 3.58, NTSC 4.43, PAL60, PAL-M
- No input signal

### Information

- Each time the button is pressed, the Teletext pages size will be change in single screen.

- Some Teletext pages do not display Link Pages at the bottom of the screen. Press GUIDE button to display them.

**NOTE**

- Teletext function is different between Analog and Digital. Refer to 40 about Digital Teletext.

# 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.

### ● Basic Operation

1. Press <sup>MENU</sup> button on the remote control or **Menu** 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.

3. Press OK 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 OK button to set your selection.

5. Use ⬌ buttons to adjust the item values or choose options. Press OK button to set your selection.

6. To exit from the menu, press <sup>MENU</sup> button.

| TV Setup |
|---|
| Edit channels |
| Parental guidance |
| Installation |
| General settings |
| System |

(DTT Main Menu)

Menu button
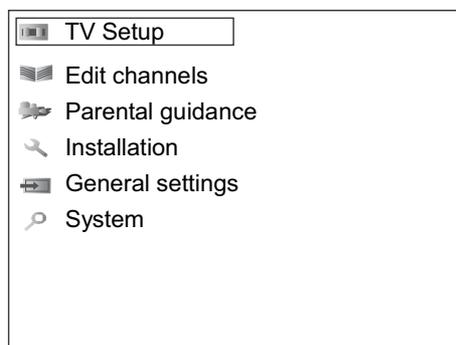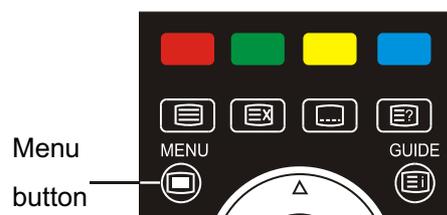
**NOTE**

• The OSD menu screen will be closed automatically when no operation has been made for about 30 seconds.

• During DTT input, the part of OSD might not be displayed in 4:3 mode. To display fully, select the ⊞ other display size with button. (Refer to [46] )

## DTT Main Menu List

Check the reference page for details.

| Menu | Function | Page |
|---|---|---|
| TV Setup | This jumps to the TV main menu containing Analog TV functions, such as Picture menu and Audio menu. | 42 |
| Edit channels | You can set a list of favorite channels. | 39 |
| Parental guidance | This blocks programs with the selected rating. | 41 |
| Installation | This searches the available channels. | 37 |
|     Manual scan | Search by its channel number, frequency, bandwidth, or priority. | 37 |
|     Quick scan | Search by the resident area. | 37 |
|     Auto scan | Automatically search one by one. | 37 |
|     Restore default | Restore the channel setting. | 37 |
| General settings |  | 39 |
|     Option setup | Set up the display time of information banner. | 39 |
|     Change pin | Change the Password. | 42 |
|     Local time | Set up the local time. | 42 |
|     Subtitle setting | Enable or disable the subtitle. | 41 |
|     Audio setting | Select optical digital audio output between PCM and Dolby® digital. | 41 |
| System | This displays the current DTT system information. | 42 |

## Installing Channels

You can search available channels in any of the following 3 methods.

1. Press MENU button on the remote control in DTT mode.

2. Select **"Installation"**, on the DTT main menu with buttons and press OK button.

3. The password is required to enter the Installation menu. The initial password is 0000.
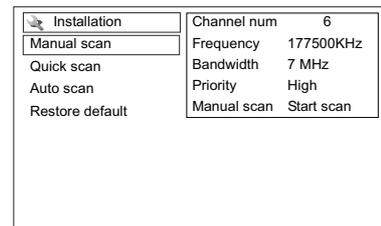
4. You can select either of the followings by pressing OK button.

- **Manual scan:** Searches by individual settings manually.
  The box shown on the right appears. Fill out the following 4 items as needed.

| Channel num | Use buttons or numeric button to enter the number. (Ch2-Ch69) *In case of tuning Ch9A, select Ch2 (Frequency: 205.5MHz.). |
|---|---|
| Frequency | Use numeric button to enter the frequency. |
| Bandwidth | Select either 7MHz or 8MHz by using buttons. Set to 7MHz normally. |
| Priority | Select High or Low by using buttons. Set to High normally. |

| Installation | Channel num | 6 |
|---|---|---|
| Manual scan | Frequency | 177500KHz |
| Quick scan | Bandwidth | 7 MHz |
| Auto scan | Priority | High |
| Restore default | Manual scan | Start scan |

Then, press OK button on "**Start scan**" of "**Manual scan**" column. If it finds a channel, **"Success"** shows up. If not, "**Timeout error**" is displayed.

- **Quick scan:** Searches channels of the selected area.

  The list of the area shows up. Select one of those with buttons and press OK button.

| Installation | Adelaide |
|---|---|
| Manual scan | Brisbane |
| Quick scan | Melbourne |
| Auto scan | Perth |
| Restore default | Sydney |
| | Batchelor |
| | Canberra |
| | Darwin |

Press ▲ ▼ to select city.
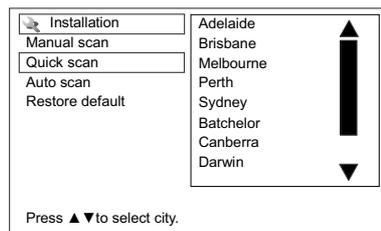
**NOTE**

- If you are uncertain about the area, please select "Auto scan" method or contact the local dealer in your area.

- **Auto scan:** Searches every channel.

  The message **"Auto scan will take more than 10 minutes. Do you want to continue?"**

  Select **"Yes"** and press OK button to precede it.

| Installation | Auto scan will take more than 10 minutes. |
|---|---|
| Manual scan | Do you want to continue? |
| Quick scan | |
| Auto scan | Yes    Exit |
| Restore default | |
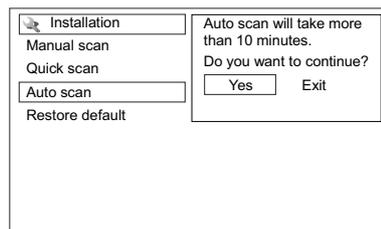
## Restoring Channels

This restores the all channel settings.

1. Press MENU button on the remote control in DTT mode.

2. Select **"Installation"**, on the DTT main menu with buttons and press OK button.

3. The password is required to enter the Installation menu. The initial password is 0000.

4. Select "**Restore default**" and press OK button. The message "**All setting would be lost**" appears. Select **"Yes"** and press OK button.

| Installation | All setting would be lost. |
|---|---|
| Manual scan | Yes    Exit |
| Quick scan | |
| Auto scan | |
| Restore default | |

**NOTE**

- The password will return to the default setting when activating "**Restore default**".

## Channel Selections

There are 4 ways to select the channels: stepping through the channel, selecting by number, selecting from the program/favorite list, and using the Electronic Program 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 ⌗39⌗ about the information banner.

### Selecting from the Program / Favorite List

#### • Program List:
All tuned channel is selectable from Program List.

1. Press ⌗LIST⌗ button on the remote control to show up the Program List.

2. Use ⊕ buttons to select and press ⊙K⊙ button. Then it jumps to the selected channel.

| Program list | |
|---|---|
| 06-0007 | 7 Channel 1 |
| 06-0070 | 7 Channel 2 |
| 06-0071 | 7 Channel 3 |
| 06-0072 | 7 Channel A |
| 06-0073 | 7 Channel B |
| 06-0077 | 7 Channel Digital |

#### • Favorite List:
Your favorite channels can be selected from Favorite List.

1. Press ⌗FAV⌗ button on the remote control to show up the Favorite List.
   Each time pressed, it switches to Favorite list 1, Favorite list 2 and off.

2. Use ⊕ buttons to select and press ⊙K⊙ button. Then it jumps to the selected channel.
   About how to set the channel in Favorite list, please refer to ⌗39⌗.

| Favorite list 1 | |
|---|---|
| 06-0007 | 7 Channel 1 |

### Selecting by Number

Enter the number (the last 4 digits) based on the list by using numeric buttons on the remote control. An empty information banner shows up with the entered number. Channel is switched if the number is valid. If the entered number is not valid for one of the setup channels, it automatically selects the closest channel.

### Using the Electronic Program Guide (EPG)

The EPG screen displays a list of the stored channel along with the program information. You can select a channel from the EPG channel List.

1. Press (🖼) GUIDE button to access EPG screen.

2. Use ⊕ buttons to select and press ⊙K⊙ button. Then it jumps to the selected channel.

3. Press (↺) RETURN button or (🖼) GUIDE button again to return to normal screen.

Refer to ⌗40⌗ about Electronic Program Guide for details.

Electronic Program Guide
Page 1/1                         Monday 19 March 2007

◄ 06-0070 Seven HD Digital ►
| 22:00 – 23:00 | Movie News | |
| 23:00 – 00:00 | Sports News | ★ |

○Prev Day ○Next Day ○Prec Page ○Next Page  OK Reserve

Sports News 23:00 – 00:00
Highlights and features on today's sports in the world.

## Making Favorite List

The "Edit channels" menu allows you to select your favorite channels and make a Favorite List in order to access easily to the channel you watch most often.

1. Press (MENU) button on the remote control and select **"Edit channels"** and press (OK) button.

2. Use (↕) buttons to select the channel, and (▶) button to select **Fav. 1** or **Fav. 2**.

3. Press (OK) button to set up as Fav. List. The ♥ mark will show up, which means as favorite channel. Pressing (OK) button again on the mark will cancel the setting.

You can display favorite list by pressing (FAV) button. (Refer to [38].)

| Edit channels | CH No. | CH name | Fav.1 Fav.2 |
|---|---|---|---|
| | 06-0007 | 7 Channel 1 ♨ | |
| | 06-0070 | 7 Channel 2 | |
| | 06-0071 | 7 Channel 3 | |
| | 06-0072 | 7 Channel A | |
| | 06-0073 | 7 Channel B | |
| | 06-0077 | 7 Channel Digital | |

Press ▲▼◄►to select. Then press [OK].
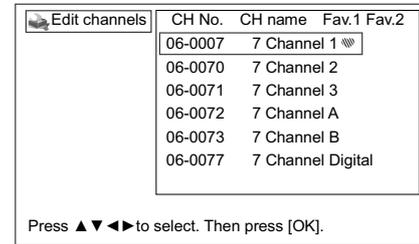
## Information Banner

### • Display information by changing channel

Whenever a channel is switched, the TV displays the banner containing the brief channel information(name of channel and program, etc.)

| 06-0072 | Now | | IT'S ACADEMIC | 05 : 02 |
| SD | C | | 05 : 00 | 05 : 30 |
| 7 Channel A | | | | |

### • Display information by changing channel

The TV displays not only brief information but also program description.

Each time (⊞) button is pressed, it displays information by following order.

Brief Channel Information → Current Program Description →

Next Program Description → Normal Screen

### • Set up the display time

The display time of information banner can be set up from 1 to 20 sec.

| General settings | Information box timeout | 6 sec |
|---|---|---|
| Option setup | | |
| Change pin | | |
| Local time | | |
| Subtitle setting | | |

Press ◄►to select. Then press [OK].

1. Press (MENU) button on the remote control.

2. Select "**General settings**" and press (OK) button.

3. Select "**Option setup**" and press (OK) button.

4. The box shows up, and selects the display time by using (◄►) buttons.

NOTE ➤
• When you select "**0 sec**" for "**Information box timeout**", the information banner will not show up.
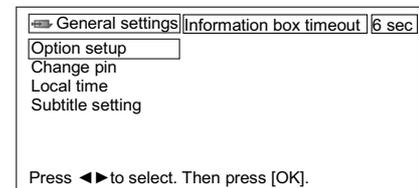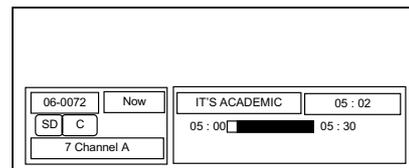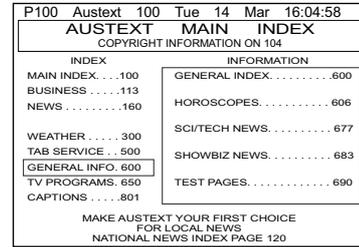
## Digital Teletext

Teletext can provide various information with text on the screen.

Press ⊜ button to access. Press it again to return to the normal screen.

| Operation | Press |
|---|---|
| To activate Teletext mode.<br>To exit from the Teletext mode. | ⊜<br>[TV⇔Text] |
| To move to the next or previous page | +<br>P<br>−<br>[Page Select] |
| To jump to the indicated page. | 0 ~ 9<br>[Page Select] |
| To access Subtitle service directly ( if the channel has the Subtitle service broadcasting). | ▭<br>[Subtitle] |

**NOTE**

• See 34 how to operate at Analog teletext.

• The service of digital broadcasting signal varies depending on the area.

• When you press the color buttons along with the direction on the screen, you can access the linked pages.

P100　Austext　100　Tue　14　Mar　16:04:58

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COPYRIGHT INFORMATION ON 104

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MAKE AUSTEXT YOUR FIRST CHOICE
FOR LOCAL NEWS
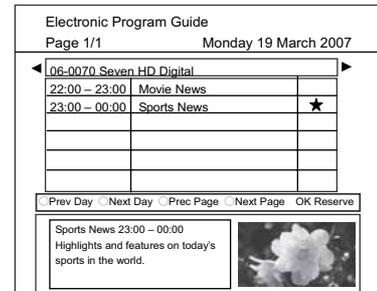NATIONAL NEWS INDEX PAGE 120

## Electronic Program Guide (EPG)

The EPG screen displays a list of the stored channels along with information. This provides the information for 7 days.

1. Press ⊟ (GUIDE) button to display EPG screen.

2. You can adjust the EPG screen with the following remote control keys.

| Button | Select a channel/program, Display information |
|---|---|
| ↕ | Select a program from the list.<br>• The picture of selected program is displayed at lower right screen.<br>• The detailed information of selected program is displayed at lower left screen. |
| ◄► | Select a channel.<br>• The picture of selected program is displayed at lower right screen.<br>• The detailed information of selected program is displayed at lower left screen. |
| Red/Green | Select date. (up to 7 days) |
| Yellow/Blue | Move to the next or previous page if more than on e page. |

| Button | Preserve a program |
|---|---|
| OK | Set the view timer by pressing OK button on the selected item.<br>• ☆ mark will be displayed.<br>• Up to 5 items can be selected.<br>• A message appears when the desired program is about to start while you are watching another channel.<br>• Press OK button to cancel the reservation. |

3. Press ⟲ (RETURN) button or ⊟ (GUIDE) button to return to the normal screen.

**NOTE**

• Not all channels broadcast all program information data. Some channels do not provide program name and details. In that case, only channel name are displayed.

Electronic Program Guide

Page 1/1　　　　　Monday 19 March 2007

◄ 06-0070 Seven HD Digital ►

| 22:00 – 23:00 | Movie News | |
|---|---|---|
| 23:00 – 00:00 | Sports News | ★ |

○Prev Day ○Next Day ○Prec Page ○Next Page　OK Reserve

Sports News 23:00 – 00:00
Highlights and features on today's sports in the world.

**NOTE**

• The message appears only during DTT mode. ( Please note that this does not appear in TV, AV, RGB, and HDMI mode.)

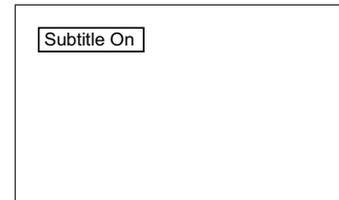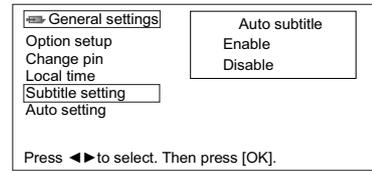• This setting will be canceled once turns Off the TV.

## Subtitle

The enables (disable) the subtitle if available as your useful tool.

1. Press [MENU] button to display DTT main menu.

2. Select "**General settings**" and press (OK) button.

3. Select "**Subtitle settings**" and press (OK) button.

4. With ($) buttons select **"Enable"** and press (OK) button.

You can also activate the subtitle by pressing button on the remote control. **"Subtitles On"** or **"Subtitles Off"** will appears on the upper left corner.

NOTE

• Once Turing TV off, **"Auto subtitle"** returns to **"Disable"**.

| General settings | Auto subtitle |
|---|---|
| Option setup | Enable |
| Change pin | Disable |
| Local time | |
| Subtitle setting | |
| Auto setting | |

Press ◄► to select. Then press [OK].

Subtitle On

## Parental Guidance

Any channel can be locked so that it cannot be selected for viewing without 4 digits pin code.

1. Press [MENU] button on the remote control.

2. Select **"Parental guidance"** and press (OK) button.

3. The password is required to enter. (The initial password is **0000**.)
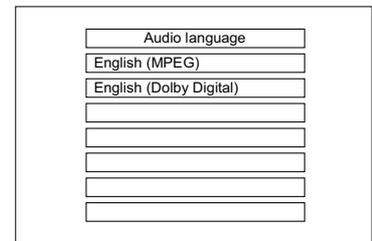
4. With ($) buttons, select the rating and press (OK) button.

After this protection, when encounter the channel blocked, the message show up and the password is required to view the channel.

| Parental guidance | Child lock |
|---|---|
| | No Block |
| | Block G and above |
| | Block PG and above |
| | Block M and above |
| | Block MA and above |
| | Block AV and above |
| | Block R and above |
| | Block All |

Parental Guidance Control is activated for this program. select another channel or enter password to overwrite.

Password ☐ ☐ ☐ ☐

| 06-0070 | Now | IT'S ACADEMIC | 05 : 01 |
|---|---|---|---|
| - | C | 05 : 00 | 05 : 30 |
| 7 Channel 2 | | | |
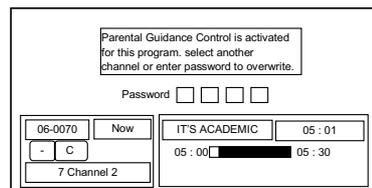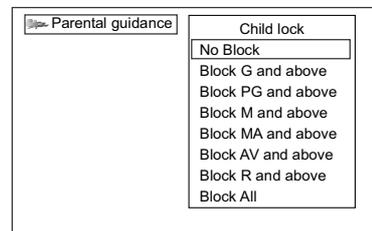
## Audio Language (MPEG/Dolby® Digital)

The available Audio language (MPEG/Dolby® Digital) can be selected.

1. Press (I/II) button on the remote control in DTT mode.

2. The available audio language (MPEG/Dolby® Digital) appears.

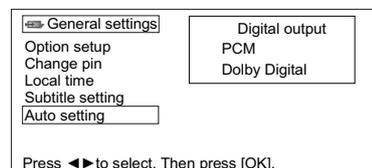3. With ($) buttons, select the audio language and press (OK) button.

| Audio language |
|---|
| English (MPEG) |
| English (Dolby Digital) |
| |
| |
| |
| |
| |

## Digital Audio Output

This enables you to select the optical digital audio output between PCM and Dolby® digital.

1. Press [MENU] button to display DTT main menu.

2. Select **"General setting"** and press (OK) button.

3. Select **"Audio setting"** and (OK) button.

4. With ($) button, select either "**PCM**" or "**Dolby Digital**" and press (OK) button.

| General settings | Digital output |
|---|---|
| Option setup | PCM |
| Change pin | Dolby Digital |
| Local time | |
| Subtitle setting | |
| Auto setting | |

Press ◄► to select. Then press [OK].

NOTE

• In case that MPEG audio is selected by using I/II button, or the broadcasting program has only MPEG audio, it outputs only PCM audio even if "**Dolby Digital**" is selected in "**Audio setting**" menu.

• If Dolby® Digital audio is selected by using I/II button, you can select either "**Dolby Digital**" or "**PCM**" from "**Audio setting**" menu.

## Change Pin

| General settings | Old password | * * * * |
|---|---|---|
| Option setup | New password | * * * * |
| Change pin | Confirm new password | * * * * |
| Local time | | |
| Subtitle setting | | |

To use the locks effectively, do change the pin number from the 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 **"General setting"** and press ⊚K button.

3. Select **"Change pin"** and ⊚K button.

4. The box appears to fill out the old and new password, and the confirmation of the new password.

5. Use the numeric number to enter.
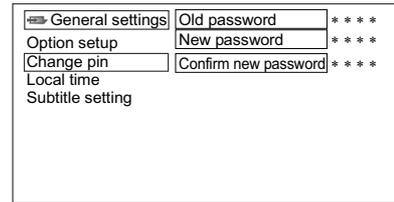
NOTE ➡

• In case that you forget your password, please refer to Troubleshooting on 48

## Local Time

| General settings | Current time zone |
|---|---|
| Option setup | Greenwich mean time |
| Change pin | Adelaide, Aust. |
| Local time | Brisbane, Aust. |
| Subtitle setting | Canberra, Aust. |
| Audio setting | Darwin, Aust. |
| | Melbourne, Aust. |
| | Perth, Aust. |
| | Sydney, Aust. |
| | Tasmania, Aust. |

Press ◄► to select. Then press [OK].

Make sure to select your resident area to set up the correct local time.

1. Press ⊚ button on the remote control.

2. Select **"General setting"** and press ⊚K button.

3. Select **"Local time"** and ⊚K button.

4. With ↕ buttons, select the area and press ⊚K button.
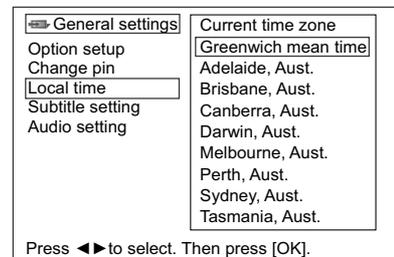
## Checking DTT System Information

| System | |
|---|---|
| Status | System information |
| | H/W Version : H2-DT640HD |
| | S/W Version : 1.2.0 |
| | Release time : JUL 27 2007 21:06:23 |

System information. Press [Return] to return.

This can display current DTT system information.

1. Press ⊚ button on the remote control.

2. Select **"System"** and press ⊚K button.

3. Pressing ⊚K button on **"Status"** shows up System information.
(H/W version, S/W version, and Release time)
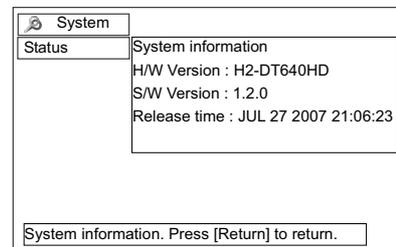
*The above is an example

## Jump to TV Setup Menu

▣ Picture
◀♪ Audio
🕑 Timer
🔍 Setup

↕Select  OK Set

**"TV Setup"** menu can be accessed from the DTT main menu.
It jumps to the TV main menu containing Analog TV function, such as Picture menu and Audio menu.
Refer to 23 ~ 34 regarding the setting form the details.
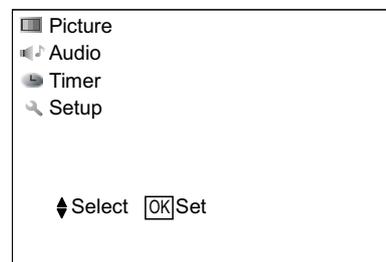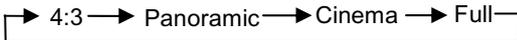
# FUNCTION

## Size Switching

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

### TV/AV signal input
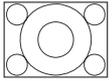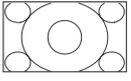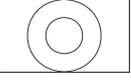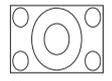
#### • Display Size

**Watching standard Definition Picture(480i,480p,576i,576p)**
DTT/TV/AV1/AV2/AV3/AV4 /HDMI

→ 4:3 → Panoramic → Cinema → Full ┐

— Picture Size

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

| Input Signal | Display Screen | Display Size | To display suitable screen as follows. |
|---|---|---|---|
| **When Watching Standard Definition Picture (TV, 480i, 480p, 576i, 576p)** | | | |
| (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. |
| (Cinema) | | Cinema | Play a 21:9 image in 4:3 frame (Cinema size) expanding vertically. *In some case, slight blanking may remain at the top and bottom. |
| (Squeeze) | | Full | Play a 4:3 image faithfully in the standard vertical size and horizontally squeezed. |

✍ **Information**

Aspect ratio represents horizontal: vertical ratio on screen.
**Watching High Definition Picture(720p, 1080i, 1080p (HDMI only))**
DTT/AV1,2/HDMI: Only Full mode signal output.
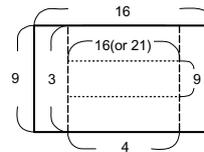
NOTE ▶

- The size will fix as Full mode and not change when receiving High Definition Picture (720p, 1080i, 1080p (HDMI only)).

- If the images from High Difinition Picture has blacken gap and select Picture Size [ 2 ], it will make up for the gap. Refer to 28 .

---

⚠ **CAUTION**

**Using a wide-screen television**

- This television has a screen mode selection feature. If an incompatible screen mode is selected to play certain software, such as a TV program, the image would appear different form the original. Take this into consideration when making screen mode choices.

- Use of the wide feature displaying enlarged pictures in coffee shops, hotel and other establishments for commercial or public viewing purposes could infringe on the copyright holder's right protected by Copyright Law.

- When a normal 4:3 image (not wide screen) is displayed over the entire screen in the Panoramic mode, the peripheral image may disappear partly and/or appear distorted in some cases. Use 4:3 mode to view the image reflecting original intention.
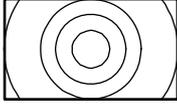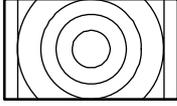
# FUNCTION (continued)

## Size Switching (continued)

### RGB signal input

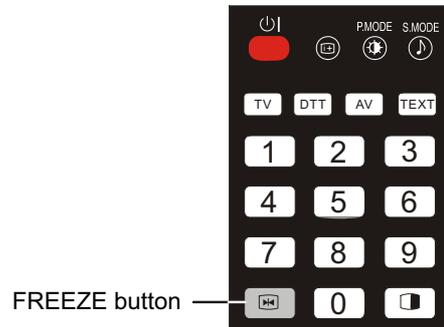You can select a suitable size depending on the resolution.

Full ⟶ 4:3

Display Area Selection Diagram

| Resolution | Full | 4:3 |
|---|---|---|
| 640 x 400 (VGA) | | |
| 640 x 480 (VGA) | | |
| 800 x 600 (SVGA) | | |
| 1024 x 768 (XGA) | | |
| 1280 x 768 (WXGA) | | |
| 1280 x 1024 (SXGA) | | |
| 1360 x 768 (WXGA) | | |

## 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

# FUNCTION (continued)

## Power Save Mode

### When the AV input is selected

You are provided the function to save power consumption when no signal is detected in AV input. Set to On in "**Video Power Save**" from Function Menu, which leads to the power save mode in AV1 /AV2 /AV3 /AV4 /HDMI and the Standby mode in other AV input. Please see the table below for details.

**1.** Press ⊙ (MENU) button.

**2.** Select "**Setup**" menu and press ⓞⓚ button.

**3.** Select "**Video Power Save**" and press ⓞⓚ button.

| Video Power Save | Off |
|---|---|
| | On |

```
🔍 Setup
  Video Power Save      Off
  Reset
  ↕ Select   OK Set   📺 Return
```
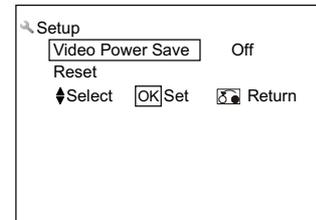
| | When no signal is detected | | When signal is input during on in "Video Power Save" |
|---|---|---|---|
| | **Condition** | **Indicating Lamp** | |
| **AV1~AV2, AV3~AV4, HDMI** | Power Save* | Orange | Turns On automatically |

**Returning to operating status**

*Power Save that only control Back Light On/Off.

• Press the **Input Select** button of the control panel or the remote control to restart the television.

### 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, then input computer's H. sync, V. sync or press the **Sub Power** button of the control panel or the remote control to restart the television.
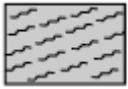
# TROUBLESHOOTING

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 RGB mode)<br>The indicating lamp lights in orange. | 45 |
| **No Sync. Signal** | The unit cannot detect any signals from any input terminals.<br>• Check if the cable is connected correctly and firmly.<br>• Check if the power of the external equipment is ON.<br>• Check if the input selection matches the connection terminal.<br>• Check if the PC is in Power Save mode or not. | 14 ~ 19 |
| **Auto Adjust** | This indicates that it is in the process of auto adjusting.<br>(in PC input mode) | 32 |
| **Invalid Mode** | The unit receives unsupported signals.<br>• Check if the cable is connected correctly and firmly.<br>• Check if the input signal is compatible with the specification of the television. | 49, 51<br>52 |
| **Not Available** | This shows when the selected operation is not available. | |
| **Weak signal** | | |
| **Bad or No signal** | • Check aerial lead if it is disconnected/damaged/misaligned. (in DTT mode)<br>• Check with your dealer if it is out of signal area or not. (in DTT mode) | |
| **Database is Empty** | | |

## Symptom and Check List

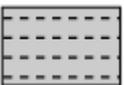| Symptoms | Check list | Page |
|---|---|---|
| **No picture – no sound** | • Check the Indicating lamp status (Off, Red, Green, or Orange).<br>• Check the connection of the Power Cord and/or other cables.<br>• Check if the Main Power of the unit or external equipment is ON.<br>• Check if the TV mode is selected.<br>• Check if the TV is in "Standby mode" or "Power Save mode".<br>• Adjust the values in "Picture menu" and "Audio menu". | 14 ~ 20<br>45 |
| **Snowy picture-poor sound** | • Check the aerial connection and direction.<br>• The TV station may have broadcast difficulties.<br>• Try another channel. | 14 |
| **Multiple images-normal sound** | • Check the aerial connection and direction.<br>• Fine tuning the TV.<br>• Check the connection of the external equipment.<br>• The TV station may have broadcast difficulties. Try another channel. | 14, 25 |
| **Intermittent interference** | • Check if the source of interference is shielded well.<br>• Remove those kinds of electrical devices away from the TV. | |
| **Normal picture, but no sound** | • Check the volume level.<br>• Check if the ⊠ button has been press or not.<br>• Make sure that the headphone is NOT connected.<br>• Check the connection of the external equipment. | 15 ~ 17<br>20 |

# TROUBLESHOOTING (continued)

## Symptom and Check List (continued)

| Symptoms | Check list | Page |
|---|---|---|
| • No picture – normal sound | • Check the value level of "Brightness" and "Contrast" in "Picture Menu". | 27 |
| • The remote control does not work. | • Check if the batteries are installed correctly.<br>• The batteries might be exhausted. Replace them with new ones.<br>• Remove all the obstructions in front of the sensor window on the unit.<br>• Check if the buttons of the control panel can work. | 11 , 12 |
| • Normal picture but no color-normal sound | • Check the connection of the external equipment.<br>• Check the "Color" in "Picture Menu". | 14 ~ 19<br>27 ~ 28 |
| • Image is paused. | • Check if the TV is in freeze mode by pressing ▣ button. | 44 |
| • No picture<br> The Indicating lamp → Off | • Check if the Power Cord is plugged into the socket firmly.<br>• Check if the Main Power is ON. | 10 ,<br>14 , 18 |
| • No picture<br> The Indicating lamp → Orange<br> It means that the unit is in "Power Save Mode". | • Check if all the cables of the external equipment are connected correctly and firmly.<br>• Check if the power of the external equipment is ON.<br>• Check if the TV/AV mode has been selected correctly.<br>• Check if the PC is in Power Save mode or not.<br>• Refer to "Power Save mode" and "When following messages appears on the screen" | 45 |
| • No picture<br> The indicating lamp → Green | • Check if the signal cable is connected correctly and firmly.<br>• Adjust the level of Brightness and Contrast lower. | 14 ~ 18 |
| • The top of the television and surface of the panel heat up. | • 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 all function. | 19 |
| • Image cannot be displayed in the correct position. | • Press Recall button ⊚ to check if the input signal of the displayed image is compatible with the specification of the television. | 21 , 49 |
| • When the VCR is in special playback features (Fast forward or Rewind), the screen gets dark and cannot see the image at all. | • It could happen when the VCR is connected to Component output, such as 480i. This is not malfunction.<br>• Try Composite output or S-video output and check the picture again. | |
| • Some screen display size cannot be switched. | • Check the signal status by pressing the ⊚ button on the remote control. The available screen display size is different depending on the current signal status. | 21<br>43 , 44 |
| • Cannot be displayed the image from HDMI | • Check if the cables are connected correctly.<br>• Check the output format of the equipment.<br>• (Please refer to "Connecting Procedure" and "Recommended Signal List".) | 16<br>49 ~ 51 |
| • The image and audio are mismatched when in RGB or HDMI mode. | • Check if the PC (RGB)/HDMI analog audio input terminal is connected to the same external device. | 16 , 17 |

## Symptom and Check List (continued)

| Symptoms | | Check list | Page |
|---|---|---|---|
| • The image on the screen is moving in an oblique direction. (PC input mode only) | | • Adjust "Horizontal Clock" and "Clock Phase". | 32 |
| • The coarse horizontal stripes could be seen in full-display mode. (PC input mode only) | | • Adjust "Horizontal clock". | 32 |
| • The part of the image is lacking. (PC input mode only) | AAAAA | • Try "Auto Adjust". | 32 |
| • The horizontal stripes are moving vertically with flickering screen. (PC input mode only) | | • Check the Signal status of the PC by pressing Recall button on the remote control. | 32 |
| • When the characters are displayed on the whole screen, the vertical stripes appear and some of the characters are blurred. (PC input mode only) | ABCDEFGHIJ abcdefgABCDEFGabcd ABCDEFGHIJ abcdefgABCDEFGabcd | • Try "Auto Adjust". • If the display condition is not improved with Auto Adjust, adjust "Horizontal Clock". | 32 |
| • When the letter string is displayed in full-screen, all of the characters on the screen is blurred. (PC input mode only) | ABCDEFGHIJ abcdefgABCDEFGabcd ABCDEFGHIJ abcdefgABCDEFGabcd | • Try "Auto Adjust". • If the condition is not improved with Auto Adjust, adjust "Clock Phase" till you get clearest image. | 32 |
| • When the small patterns are displayed on the screen, the entire screen is flickering. (PC input mode only) | | • Try "Auto Adjust". • If the condition is not improved with Auto Adjust, adjust "Clock Phase" till you get flicker-free display. | 32 |
| • Image cannot be displayed in the correct position. (PC input mode only) | | • Press button to check if input signal of the displayed image is compatible with the specification of the television. | 49 , 52 |
| • No Picture or sound is output. (DTT mode only) | | • It might occur because it is tuned to digital teletext channel. • Return to another channel. | 40 |
| • Forgotten password. (DTT mode only) | | • Press and hold down [Yellow], [Blue] and [LIST] buttons on the remote control simultaneously for over 3 seconds so that the password returns to the default setting (0000). | 42 |
| • Due to the bad reception, block noise (DTT mode only) | | • Check the aerial system to improve signal quality. | 14 |
| • Local time displays incorrectly. (DTT mode only) | | • Check if you select correct area in "Local time" from "General setting". | 42 |

# PRODUCT SPECIFICATIONS

| SPECIFICATION | | L26H01AU | L32H01AU |
|---|---|---|---|
| Panel | Display dimensions | Approx. 26inches:<br>(576 (H) × 324 (V)mm diagonal 660.5mm) | Approx. 32inches:<br>(698 (H) × 392 (V)mm diagonal 801mm) |
| | Resolution | 1366(H) x 768 (V) pixels | |
| Net dimensions | | including Stand:<br>663(W)x509(H)x262(D)mm<br>excluding Stand:<br>663(W)x470(H)x124(D)mm | Including Stand:<br>790(W)x602(H)x365(D)mm<br>Excluding Stand:<br>790(W)x550(H)x122(D)mm |
| Net weight | | including Stand: 13 kg<br>excluding Stand: 12.4kg | including Optional Stand: 20.1 kg<br>excluding Optional Stand: 16 kg |
| Ambient conditions | Temperature | Operating: 5°C to 35°C, Storage: 0°C to 40°C | |
| | Relative humidity | Operating: 20% to 80%, Storage: 20% to 90% (non-condensing) | |
| Power supply | | AC110 - 240V, 50/60Hz | |
| Power consumption/at standby | | 105W/< 2W | 144W/< 2W |
| Audio output | | speaker total 14 W | speaker total 20 W |
| **(VIDEO input)** | | | |
| Input terminals | | AV1 ・AV2: component video input terminal (RCA)<br>        L/R audio input terminal (RCA)<br>AV3    : composite video input terminal (RCA)<br>     S video input terminal<br>     L/R audio input terminal (RCA)<br>AV4    : composite video input terminal (RCA)<br>     L/R audio input terminal (RCA)<br>HDMI: HDMI input terminal | |
| Input signals | | Composite video : PAL, SECAM, NTSC3.58, NTSC4.43, PAL60<br>Component video: 480i, 576i, 480p, 576p, 720p/50, 720p/60, 1080i/50, 1080i/60<br>HDMI: 480i, 576i, 480p, 576p,720p/50, 720p/60,1080i/50,1080i/60,1080p/50, 1080p/60, 1080p/24 | |
| Output signals | | OUTPUT (MONITOR): composite video monitor-output terminal (RCA)<br>OUTPUT (MONITOR): L/R audio monitor- output terminal (RCA)<br>OUTPUT (HEADPHONE): L/R audio monitor- output terminal (Mini-pin)<br>OPTICAL OUT (Digital Audio) : PCM, Dolby® Digital | |
| **(RF input)** | | | |
| Input terminal / Receiving range | | ANT: 75Ω Unbalanced / 44~870MHz | |
| RF Video System | | PAL B/G, H , I ,D/K<br>SECAM B/G , D/K , K1<br>NTSC-M<br>DVB-T | |
| **(RGB input)** | | | |
| Input terminals | | Analog RGB input terminal (D-sub 15-pin)<br>Audio input terminal (3.5mm Stereo Mini Jack)*[1] | |
| Input signals | | 0.7 V, analog RGB (Recommended Signal) | |
| Sync signals | | H/V separate, TTL level [2kΩ] | |

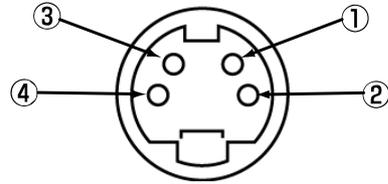- The television takes at least 30 minutes to attain the status of optimal picture quality.

*[1] This analog audio input terminal can be used for PC (RGB) or HDMI(DVI) only.

# PRODUCT SPECIFICATIONS (continued)

## Signal Input

### S-input connector pin specifications

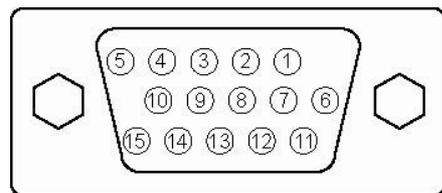| Pin | Input signal |
|-----|-------------|
| 1 | Y |
| 2 | Y-GND |
| 3 | C |
| 4 | C-GND |
| Frame | GND |

### HDMI connector Input pin specifications

| Pin | Input signal | Pin | Input signal |
|-----|-------------|-----|-------------|
| 1 | T.M.D.S. Data2+ | 11 | TMDS Clock Shield |
| 2 | T.M.D.S. Data2 | 12 | TMDS Clock - |
| 3 | T.M.D.S. Data2- | 13 | CEC |
| 4 | T.M.D.S. Data1+ | 14 | Reserved (N.C.) |
| 5 | T.M.D.S. Data1 | 15 | SCL |
| 6 | T.M.D.S. Data1- | 16 | SDA |
| 7 | T.M.D.S. Data0+ | 17 | DDC/CEC Ground |
| 8 | T.M.D.S. Data0 | 18 | +5V Power |
| 9 | T.M.D.S. Data0- | 19 | Hot Plug Detect |
| 10 | T.M.D.S. Clock+ | | |
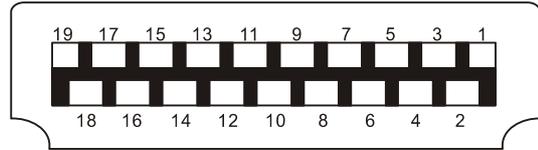
### RGB terminal (D-sub 15-pin connector)

| Pin | Input signal |
|-----|-------------|
| 1 | R |
| 2 | G |
| 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 |
| 14 | V.sync. |
| 15 | [SCL] |

When different kinds of input signals are simultaneously input to the television via a graphics board or the like, the television only support H/V separate sync signal.

# PRODUCT SPECIFICATIONS (continued)

## Recommended Signal List

**With Component Video INPUT**

| No | Signal mode | | | Horizontal frequency (kHz) | Dot clock frequency (MHz) | Remarks |
|----|-------------|------------|---------------------------|---------------------------|--------------------------|---------|
| | Signal name | Resolution | Vertical frequency (Hz) | | | |
| 1 | 576i | 720(1440) x 576 | 50.00 | 15.63 | 27.00 | EIA-861D |
| 2 | 480i | 720(1440) x 480 | 59.94 | 15.73 | 27.00 | EIA-861D |
| 3 | 576p | 720 x 576 | 50.00 | 31.25 | 27.00 | EIA-861D |
| 4 | 480p | 720 x 480 | 59.94 | 31.47 | 27.00 | EIA-861D |
| 5 | 1080i/50 | 1920 x 1080 | 50.00 | 28.13 | 74.25 | EIA-861D |
| 6 | 1080i/60 | 1920 x 1080 | 60.00 | 33.75 | 74.25 | EIA-861D |
| 7 | 720p/50 | 1280 x 720 | 50.00 | 37.50 | 74.25 | EIA-861D |
| 8 | 720p/60 | 1280 x 720 | 60.00 | 45.00 | 74.25 | EIA-861D |

**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-861D |
| 2 | 576i | 720(1440) x 576 | 50.00 | 15.63 | 27.00 | EIA-861D |
| 3 | 480i | 720(1440) x 480 | 59.94 | 15.73 | 27.00 | EIA-861D |
| 4 | 576p | 720 x 576 | 50.00 | 31.25 | 27.00 | EIA-861D |
| 5 | 480p | 720 x 480 | 59.94 | 31.47 | 27.00 | EIA-861D |
| 6 | 1080i/50 | 1920 x 1080 | 50.00 | 28.13 | 74.25 | EIA-861D |
| 7 | 1080i/60 | 1920 x 1080 | 60.00 | 33.75 | 74.25 | EIA-861D |
| 8 | 720p/50 | 1280 x 720 | 50.00 | 37.50 | 74.25 | EIA-861D |
| 9 | 720p/60 | 1280 x 720 | 60.00 | 45.00 | 74.25 | EIA-861D |
| 10 | 1080p/50 | 1920 x 1080 | 50.00 | 56.25 | 148.50 | EIA-861D |
| 11 | 1080p/60 | 1920 x 1080 | 60.00 | 67.50 | 148.50 | EIA-861D |
| 12 | 1080p/24 | 1920 x 1080 | 24.00 | 27.00 | 74.25 | EIA-861D |

# PRODUCT SPECIFICATIONS (continued)

## Recommended Signal List (continued)

**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 | 70.09 | 31.47 | 25.18 | |
| 2 | | 640 x 480 | 59.94 | 31.47 | 25.18 | |
| 3 | VESA | 800 x 600 | 60.32 | 37.88 | 40.00 | |
| 4 | | 1024 x 768 | 60.00 | 48.36 | 65.00 | |
| 5 | | 1280 x 1024 | 60.02 | 63.98 | 108.00 | |
| 6 | VESA | 1280 x 768 | 59.88 | 47.78 | 79.50 | |
| 7 | | 1360 x 768 | 60.02 | 47.71 | 85.50 | |

- 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 unit 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 768 lines of vertical resolution a Full display (compressed display) can result in the interpolation of stripes.