



HYUNDAI IT  
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# Digital LCD TV

15 Rev.00



## FCC Information

### User Instructions

The Federal Communications Commission Radio Frequency Interference Statement includes the following warning :

**NOTE :** This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radiocommunications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television receptions, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures :

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

### User Information

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Connecting of peripherals requires the use of grounded shielded signal cables.

## Important Tip

### Image Retention Effect (Image Sticking)

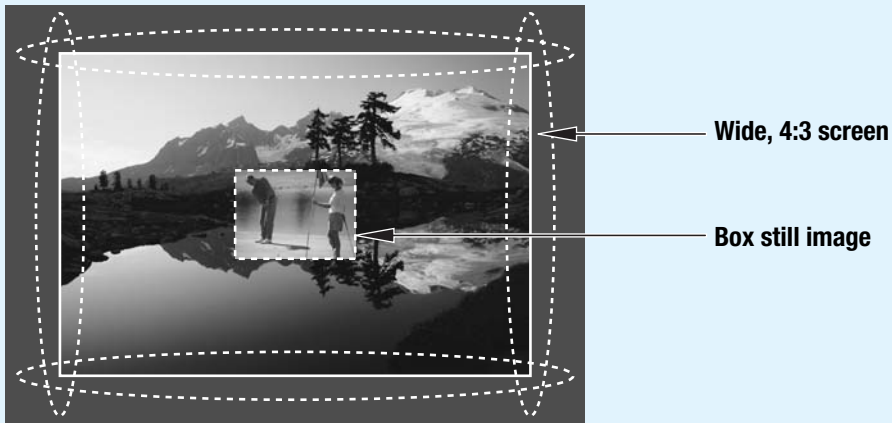
**1. Cause :**

- Image Retention Effect may come from displaying a still picture in certain period of time with at a



## Image Sticking Precaution

### When watching a still Image within motion pictures and Wide/4:3 screen



#### 1. Note :

- When the central area of the screen and the screen edges are fixed, the different brightness level of the edges may cause image retention on the edges when watching for a long time .
- This phenomenon is the same matter to other LCD manufacturers. Please do not watch a still image for a long time.
- If you watch a still image for a long time, this may damage your TV.

\* This matter does not come under the warranty.

## Features

### Integrated HDTV

A HDTV has a built-in ATSC digital tuner. It does not need a separate set-top box to receive over-the-air DTV signal.

### Dual Scan/Multi-Viewing

You can program analog TV broadcasting and digital TV broadcasting automatically at the same time for multi-viewing.

### A Wide Array of Screen Settings

You can choose different screen settings depending on the type of program you are watching or the surrounding conditions (the outside weather conditions). You can switch among STANDARD, MILD, VIVID, MULTIMEDIA options or you can configure the screen settings for yourself.

### A Wide Array of Sound Settings

You can choose an optimal sound setting for the type of program you are watching. You can switch among custom Standard, Movies, Music, and Speech options or you can configure the sound settings for yourself.

### Favorite Channel Memory

You can memorize the channels you are watching frequently.

### SRS TrueSurround XT

You can enjoy dynamic and surround sound with ordinary speakers.

### Dolby Digital

When receiving digital broadcast signal, you can enjoy dynamic and surround sound with two ordinary speakers just like Dolby Digital 5.1.

### A Variety of Aspect Ratios

You can adjust the screen size at your preference.



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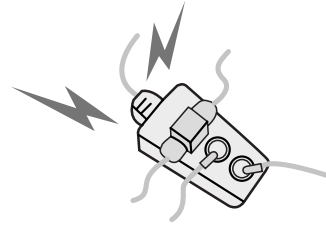
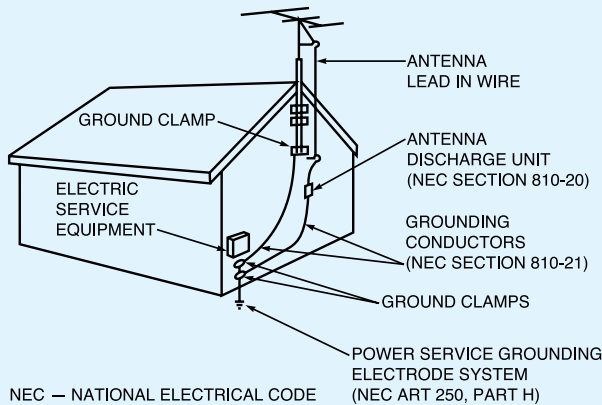
# Safety Precaution

The contents of this section are provided for the safety of users and their property. Please read the instructions carefully before using.

## Outdoor Antenna Grounding

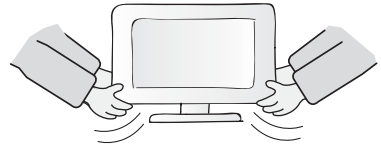
If an outside antenna or cable system is connected to the TV, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No.70-1984, provides information about proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

### Example of Grounding According to National Electrical Code Instruction



**Do not connect multiple electrical appliances to a single outlet.**

- It may cause a fire due to overheating from the outlet.



**Make sure to remove the speakers before moving the TV with speakers mounted on it.**

- When the speakers are detached from the unit while carrying it, this may cause damage to the unit or personal injury.

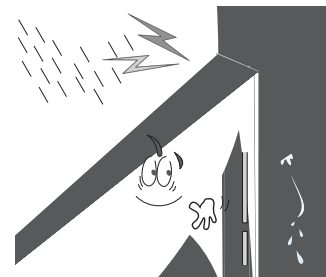
**Do not use or store a flammable spray or inflammable things near the TV.**

- They may cause explosion or fire.



**Do not install the TV in a bookshelf, closet, or a place where there is poor air circulation.**

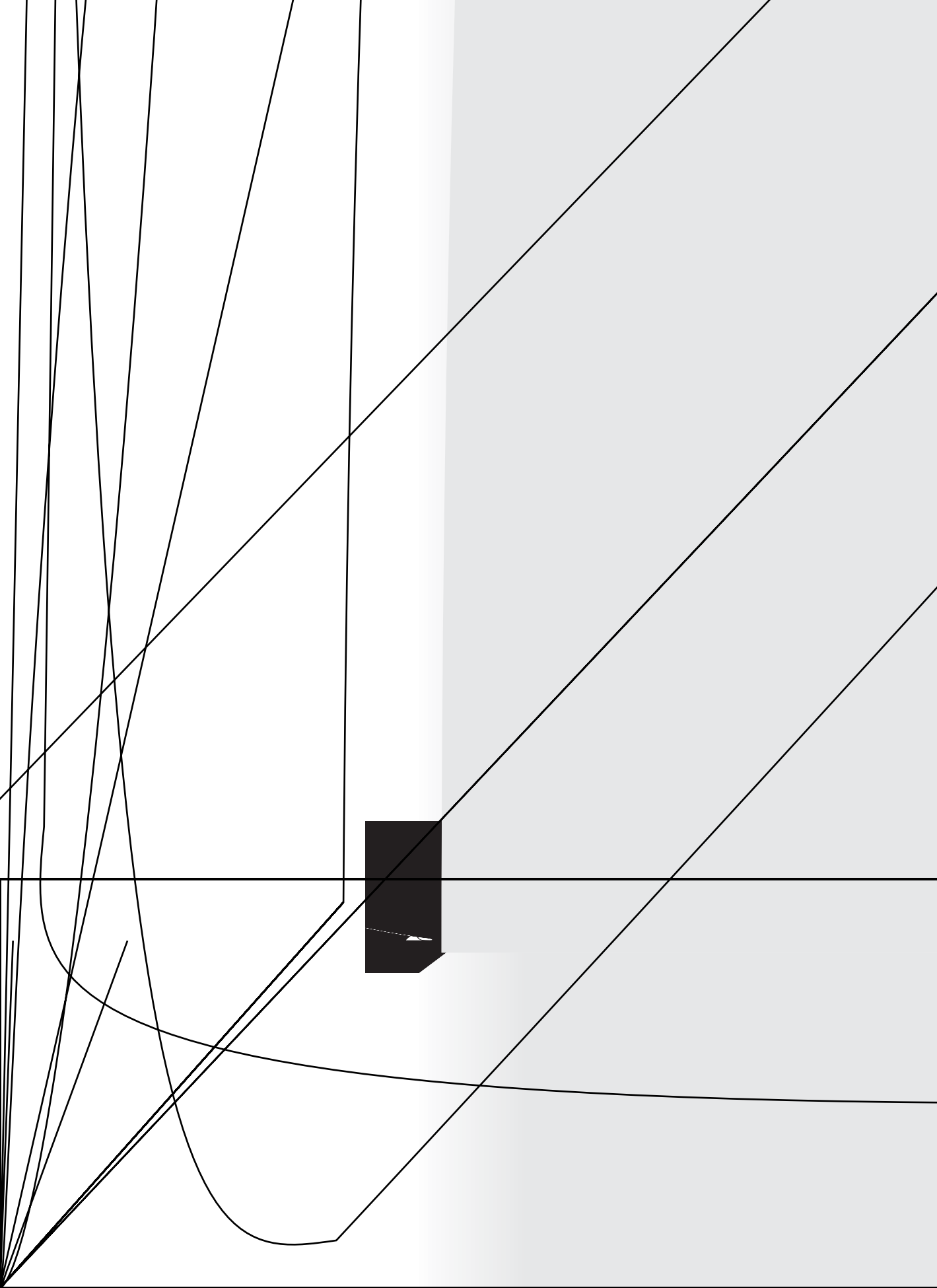
- Fire may be caused due to the rise of internal temperature.

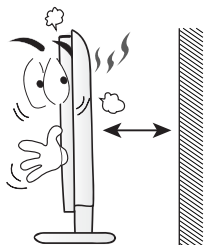


**Any necessary action such as making the antenna cable loop at the entrance of the building should be taken to prevent rainwater on the outdoor antenna cable from possibly running into the indoor.**

- If raindrop gets into the LCD TV, it may cause a fire or an electric shock.







Keep the TV at least 10cm away from the wall for ventilation.

- Fire may be caused due to the rise of inner temperature.

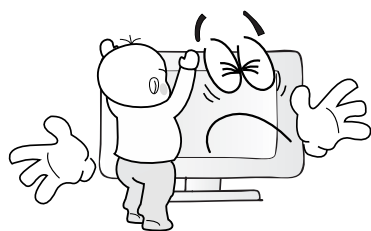


Do not place any heat sources such as radiators and heat registers, etc. near the TV.

- It may cause a fire.

Do not block ventilating slits with a table cloth.

- Blocking the ventilation slits may produce inner heat increase, resulting in a fire.

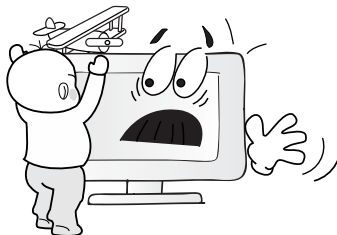


Do not allow children to climb or play on the TV.

- If it falls over on children, it may cause serious injury.

Do not place toys and cookies, etc. on the TV, which may attract children's attention.

- If it falls over on children, it may cause serious injury.

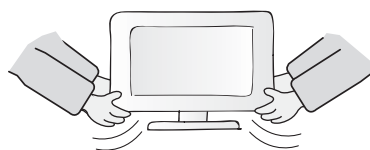


When cleaning the TV, make sure to disconnect the power plug and use a dry, soft cloth for a cleanup.

- Please avoid using chemicals such as wax, benzene, alcohol, thinner, mosquito spray, air freshener, lubricant or synthetic detergent.

Unplug when you do not use your TV for a long time.

- If dust is stacked on the TV, electric shock or fire may be caused from heat, fire, or deterioration of insulation.

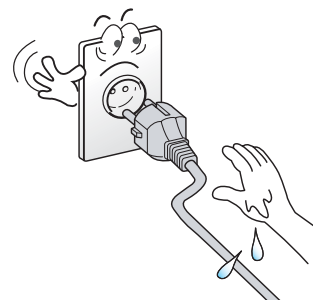


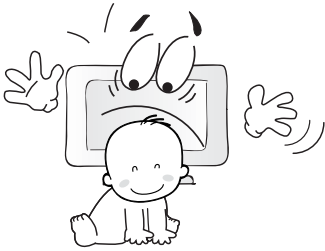
When moving the TV, two or more people are advised to carry it.

- Injury or damage may be caused when the TV falls.

Never touch the power plug or outlet with wet hands.

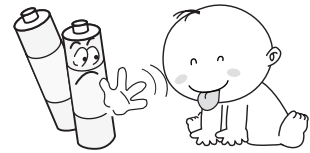
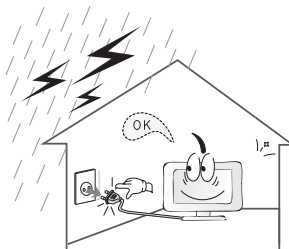
- This may cause electric shock.



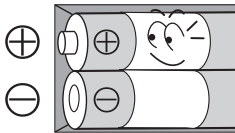


**Do not install the product on the floor.**  
 - This may cause the TV to fall resulting in serious injury.

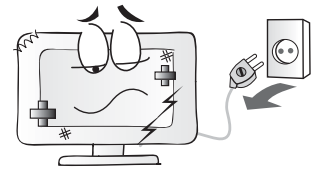
**Unplug the product during lightning or thunderstorms and never touch the antenna cable.**  
 - It may cause a fire or an electric shock.



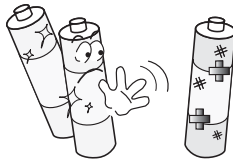
**Keep the remote control batteries out of sight and out reach of children.**  
 - If your child swallows a battery, see your doctor immediately.



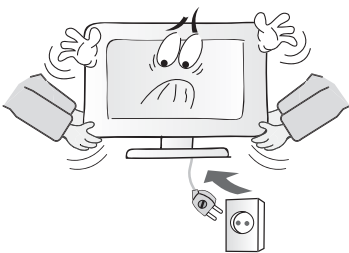
**Always use the standard batteries and avoid using old batteries together with new ones.**  
 - Otherwise it may result in internal damage to batteries, fire due to leakage or contamination.



**When replacing batteries, make sure to match the batteries to the (+) and (-) marks in the battery compartment.**  
 - Mismatching of polarities may result in internal damage to batteries, fire due to leakage or contamination.



**In the event of damaging or dropping the product, switch off the power and remove the plug.**  
 - Using a damaged product may cause an electric shock or a fire.  
 - Contact your local service center.

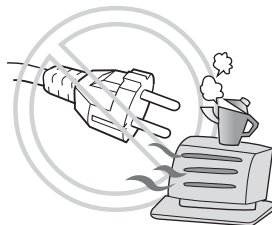


**Ensure the power cord doesn't trail across any hot objects like a heater.**  
 - This may cause a fire or an electric shock.



**Before moving the product, ensure to switch off the power and unplug all the electrical cords and the external connection cords such as an antenna cable and other source connections, etc.**

- Electrical cords may be damaged, resulting in a fire or an electrical shock.



**Consult a service center or customer service for inside cleaning about once a year.**

- When dust is piled inside the TV for long time, fire or malfunction may be caused.



## Contents of the Package

GENERAL INFORMATION



## Products Sold Separately

If you want to purchase separately sold products, consult a service center, electronics shops, or parts seller.

## Buttons and Functions

- E425D/E465D



It may differ from the actual product.

**5 Menu button**

Use this button to display or exit from menus.

**6 Select button**

Use this button to select each item of menu.

**7 Channel buttons**

Use these buttons to change channels. These buttons also serve as the cursor of Down and Up buttons when in Menu mode.

**8 Volume buttons**

Use these buttons for your desired sound level. These buttons also serve as the cursor of Select/Adjust when in Menu mode.

...rd here.  
...ation status.

**Indicator Status -**

	Status
Standby	Standby
Power on	Power on

**Power button**

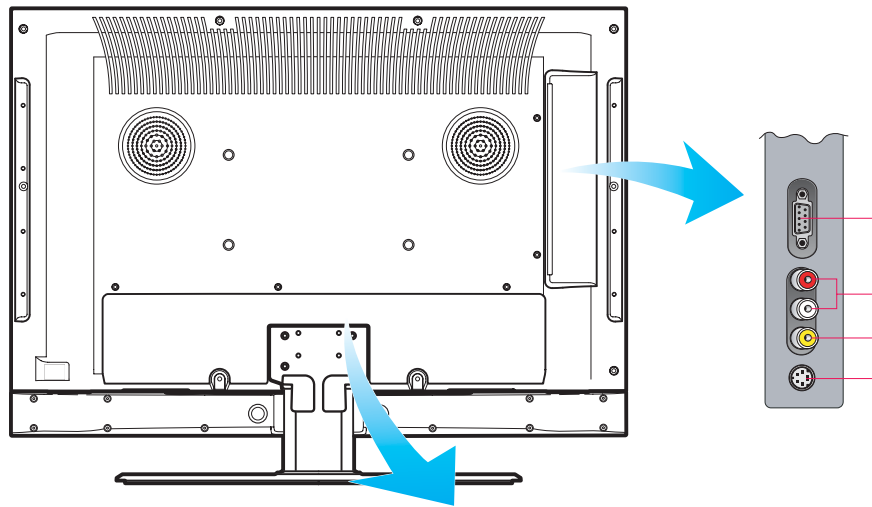
Use this button to turn on or off the TV.

**Source button**

Use this button to switch among inputs connected to the TV.



## Rear View - E425D/E465D



\* This product image may be a bit different from the actual product.

- ❶ Power(AC) input terminal  
connect the power cord to this terminal
- ❷ SPDIF optical digital audio output terminal
- ❸ Mini USB input terminal  
This is used for picture on or service check.
- ❹ Video output terminal
- ❺ Audio output terminal
- ❻ AV 1 (Video 1) input terminal
- ❼ AV 1 (Video 1) audio input terminal
- ❽ Component 2 video input terminal
- ❾ Component 1 video input terminal
- ❿ Component 2 audio input terminal
- ⓫ Component 1 audio input terminal
- ⓬ RS-232C  
This is used for service check.
- ⓭ PC input terminal
- ⓮ PC audio input terminal
- ⓯ HDMI 1 input terminal
- ⓰ HDMI 2 input terminal
- ⓱ Antenna (Analog/DTV) input terminal
- ⓲ AV 3 (S-Video) input terminal
- ⓳ AV 2 (Video 2) input terminal
- ⓴ AV 2 (Video 2) / AV 3 (S-Video) audio input terminal

## Front View - E426D/E466D



### ❶ Speaker

### ❷ Remote sensor and power LED.

- Point the remote control toward here.
- It displays standby or operation status.

#### - Power Indicator Status -

Indicator	Status
Red	Standby
Green	Power on

### ❸ Power button

Use this button to turn on or off the TV.

### ❹ Source button

Use this button to switch among inputs connected to the TV.

### ❺ Menu button

Use this button to display or exit from menus.

### ❻ Select button

Use this button to select each item of menu.

### ❼ Channel buttons

Use these buttons to change channels. These buttons also serve as the cursor of Down and Up buttons when in Menu mode.

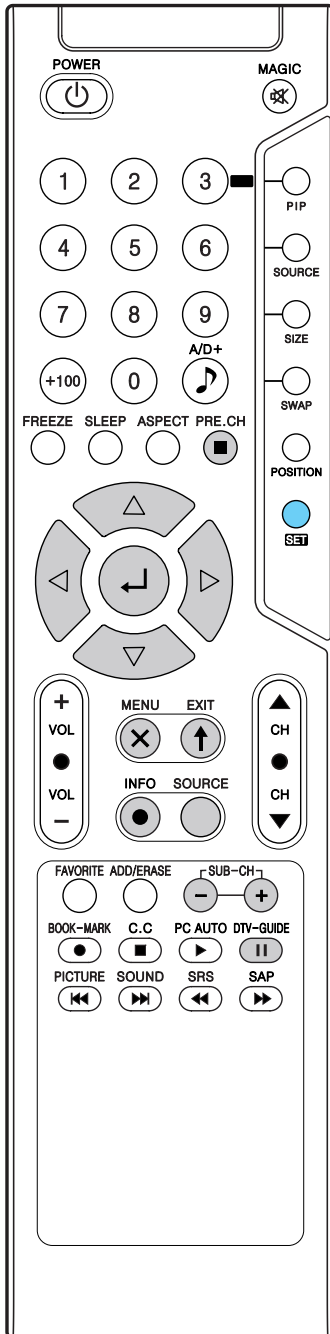
### ❽ Volume buttons

Use these buttons for your desired sound level. These buttons also serve as the cursor of Select/Adjust when in Menu mode.





# Remote Control





**18. PICTURE MODE**

**19. SOUND MODE**

**20. BOOK-MARK**

Use this button to select/deselect your frequently-used channel.

**21. CC(Closed Caption)**

**22. FAVORITE**

Use this button when watching your favorite channel.

**23. ADD/ERASE**

Use this button to add or erase channels.

**24. INFORMATION**

Use this button to display resolution or various program information.

**25. SOURCE**

Use this button to select External Input

**26. VOLUME**

**27. FREEZE**

**28. SLEEP**

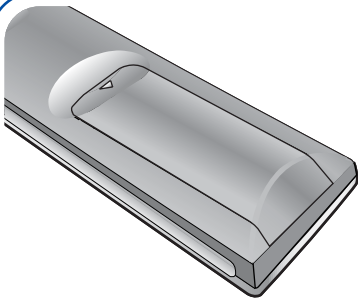
**29. ASPECT RATIO**

Use this button to change the picture size.

**30. NUMERIC KEYS**

**31. Use this buttons to use other manufacturer's DVD or VCR.**

## How to Insert Batteries in Remote Control

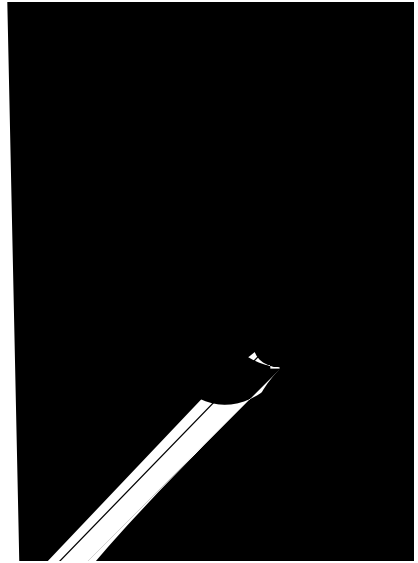


Press and hold  $\Delta$  part and push to open cover.

Insert batteries with proper polarities of + and -.

Use the remote control with cover closed.

\* Battery type :1.5V/AAA





## Before Connecting the Video/Audio Connections to External Devices...

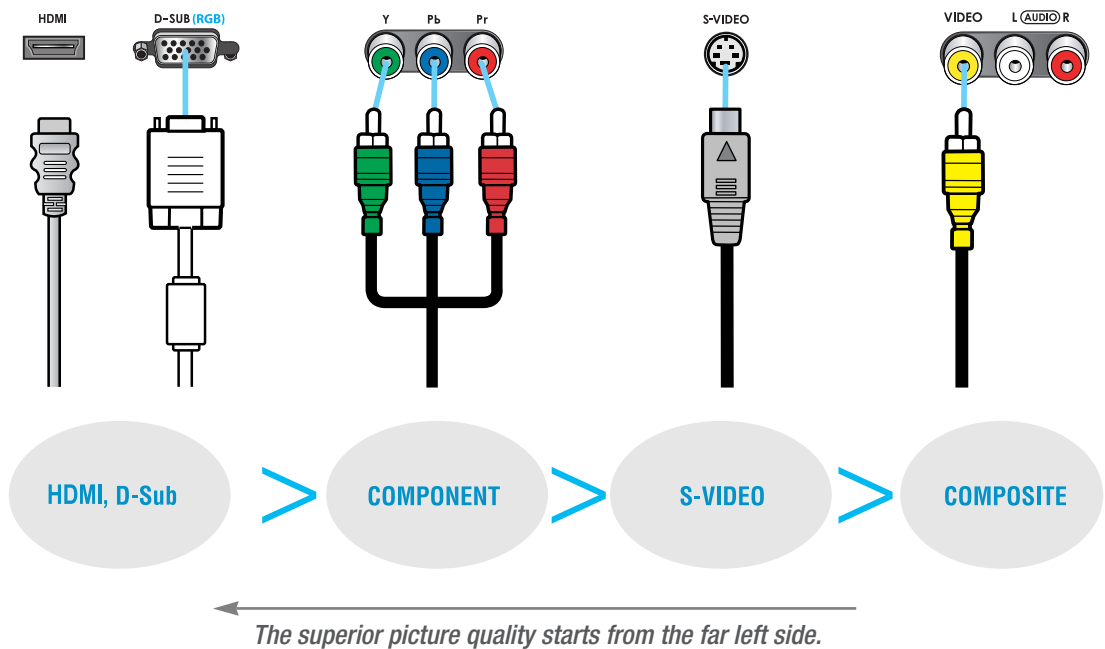
Please make sure to read the following information on connection to enjoy best picture quality.

### Video/Audio connectors

Types of video/audio cable :

① HDMI ② 15-Pin D-Sub ③ COMPONENT ④ S-VIDEO ⑤ COMPOSITE

*Best picture quality is displayed in the following order.*



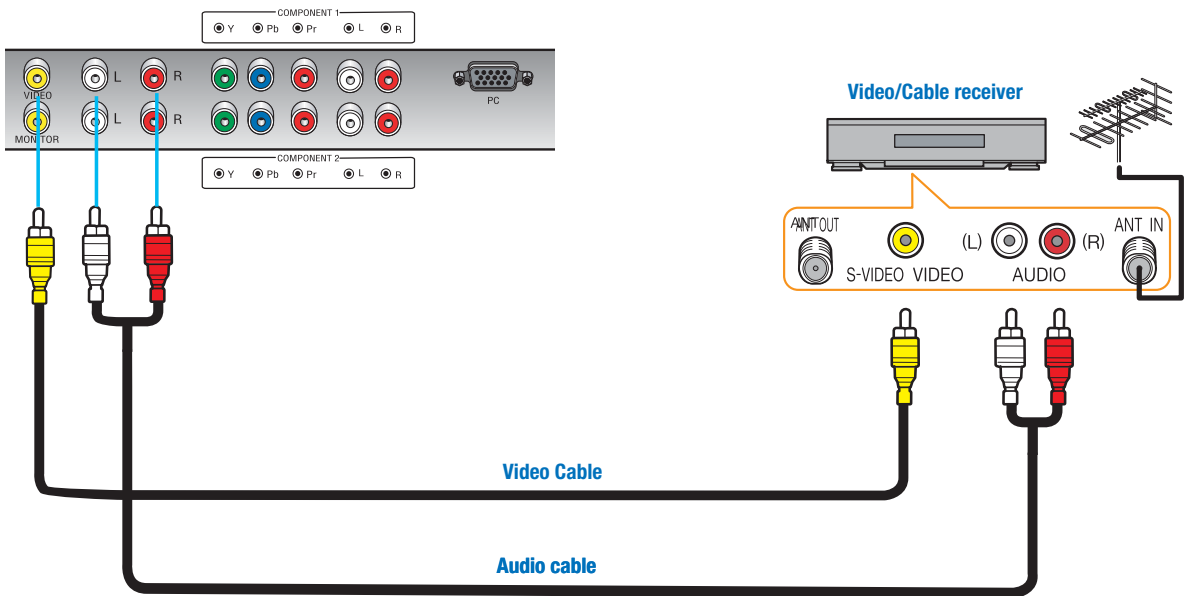
#### TIP

- When connecting an external device, ensure to read the connecting device's manual. The location or the number of the terminals on the external device may be different depending on its model.
- Connect a **HDMI** connection to the output of DVD, cable receiver or satellite receiver. Connecting a **HDMI** connection to a PC may result in a message, "Unknown Signal".
- Do not power on until all necessary connections are made. If power is given before connections completed, this may damage the product.
- Make sure to match the cable in color with the terminal.
- Make sure to check the type of terminals to be connected.


# How to Connect a VCR/Cable Receiver

## Connection Method

- 1 Connect the Video cable or S-Video cable between Video/S-Video output terminal of VCR or Cable receiver and Video/S-Video input terminal of TV. (Connect the jacks to terminals in the same color.)
- 2 Connect the Audio cable (Left: white, Right: red) between Audio output terminal of VCR or cable receiver and Audio input terminal of TV. (Connect the jacks to terminals in the same color.)



## How to Watch

- 1 Turn on TV and press  on remote control and then select AV1/AV2/AV3 banner on the bottom side.

For more information, read the user's guide of VCR or cable receiver.

AV1(Video)

AV2(Video)

AV3(S-Video)



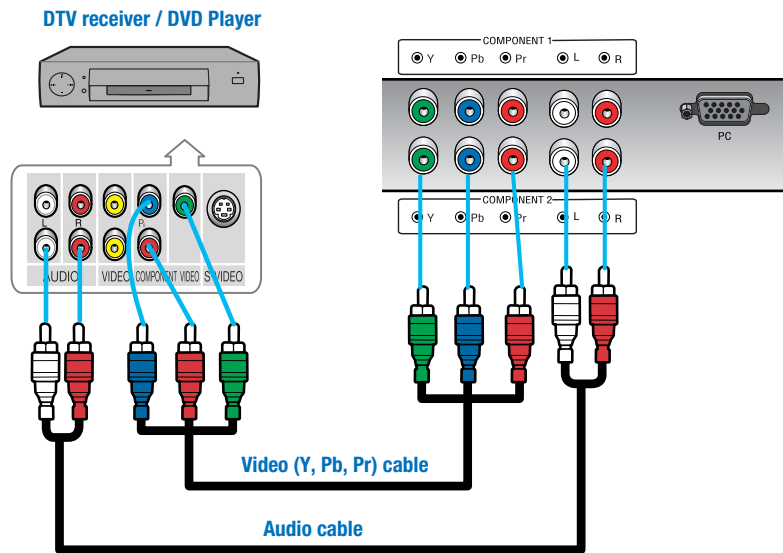
To enjoy better picture quality, use the S-Video cable rather than the composite cable.



# How to Connect a SET-TOP BOX or DVD Player

## Connection Method

- 1 Connect the Video cable (Y, Pb, Pr) between output terminals (Y, Pb, Pr) of DTV receiver or DVD player and the input terminals (Y, Pb, Pr) of DTV/DVD (480i/480p/576i/576p/720p/1080i) on the rear of TV. (Connect the jacks to terminal in the same color.)
- 2 Connect the Audio cable between Audio output terminal of DTV receiver or DVD player and Audio input terminal for DTV/DVD Audio on the rear of TV. (Connect the jacks to terminals in the same color.)



## How to Watch

- 1 Turn on TV and press  on remote control until showing AV4/AV5 banner on the bottom side.

AV4(Component1)

AV5(Component2)

For more information, read the user's guide of DTV receiver or DVD player.

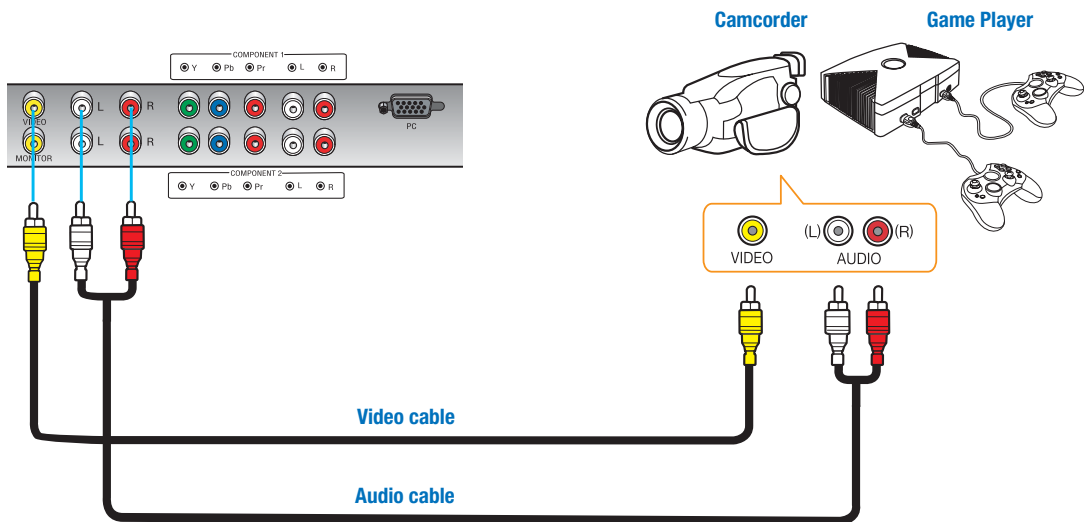
### TIP

- Output terminal mark (Y, Pb, and Pr) of DVD player may be indicated as Y, B-Y, R-Y/Y-Cb-Cr /Y-Pb-Pr according to the type of DVD player models.
- If your DVD player or Set Top Box supports **HDMI** /D-SUB, see Connecting to a PC (page 21) for connection. You can enjoy more clear picture quality.

## How to Connect a Camcorder/Game Player

### Connection Method

- 1 Connect the Video/S-Video cable between Video/S-Video output terminal of Camcorder/Game player and Video/S-Video input terminal of TV. (Connect cables and terminal in the same colors.)
- 2 Connect the Audio cable (Left-white, Right-red) between Audio output terminal of Camcorder/Game player and Audio input terminal of TV. (Connect the jacks to terminals in the same color.)



### How to Watch

- 1 Turn on TV and press  on remote control and then AV1/AV2/AV3 banner on the bottom side.

For more information, read the user's guide of Game player or Camcorder.

AV1(Video)

AV2(Video)

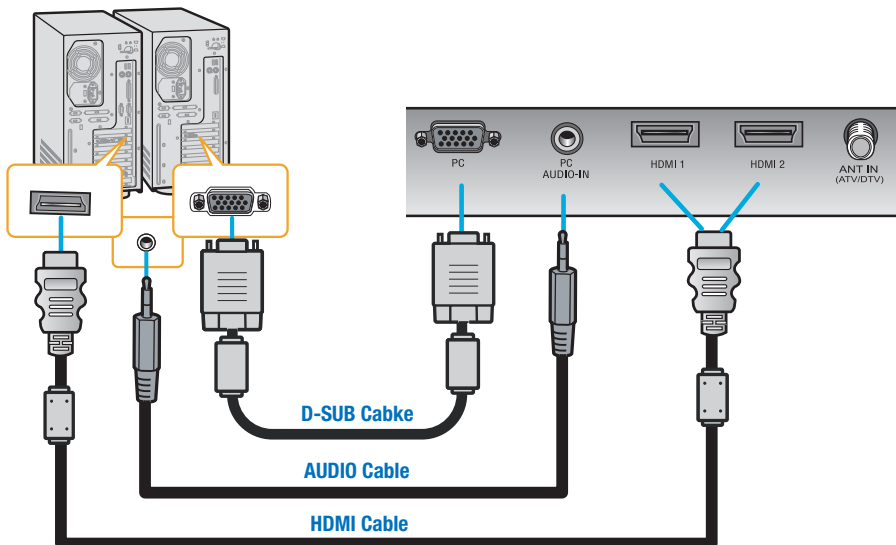
AV3(S-Video)



# How to Connect to a PC

## Connection Method

- 1 Connect the PC signal cable (15-pin D-sub) between the output terminal of PC and the D-sub input terminal of TV.
- 2 Connect the Audio cable between Audio output terminal of PC and Audio input terminal for PC on the rear of TV. (Connect the jacks to terminals in the same color.)



## When Using as a PC Monitor

- 1 Turn on TV and press  on remote control until showing PC/HDMI1/HDMI2 banner on the bottom side.

PC

HDMI1

HDMI2

### TIP

- If you use the **HDMI** connection, you can enjoy better picture quality.
- This product supports Plug-and-Play function.
- We recommend the above method if the DVD player or set top box supports DTV signal with **HDMI/D-Sub** (15 pin) cable for the better picture quality.
- If you input an unsupported resolution in PC or **HDMI** mode, the screen won't be displayed properly.



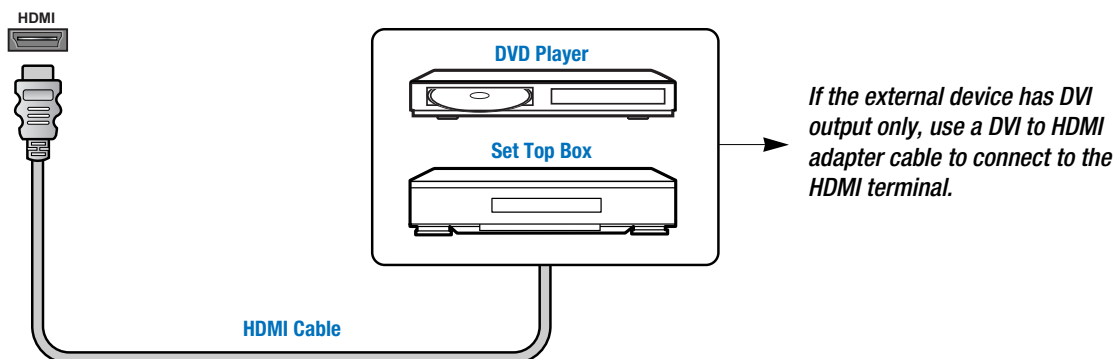
## Resolutions Supported in PC

Resolution	Horizontal frequency(KHz)	Vertical frequency(Hz)
640 x 480	31.47	59.94
	37.50	75.00
720 x 400	31.47	70.08
800 x 600	37.88	60.32
	46.88	75.00
1024 x 768	48.36	60.00
	56.50	70.10
	60.02	75.03
1280 x 1024	63.90	60.00
1920 x 1080	67.50	60.00



## HDMI Connection

HDMI \*1 (High Definition Multi media Interface) is the first all digital consumer electronics A/V interface that supports uncompressed standard. The HDMI terminal supports both video and audio information. To the HDMI input terminal, you can connect an EIA/CEA-861/861B\*2 compliant consumer electronic device, such as a Set Top Box or DVD player with HDMI or DVI output terminal. Input a High-bandwidth Digital Content Protection (HDCP) high-definition picture source to this HDMI terminal, so you can display the high-definition pictures on this TV in the digital form.



### Compatible VIDEO Signal

Resolution	No. of dots(HXV)	Vertical scanning frequency(Hz)
1080 p/i	1920 X 1080 p/i	50/60
720 p	1280 X 720 p	50/60
576 p/i	720 X 576 p/i	50/60
480 p/i	640 X 480 p/i	50/60

**This input terminal is not intended for use with computers.**

**Compatible sampling frequency of AUDIO signal through HDMI (L.PCM) : 48kHz / 44.1kHz / 32 kHz**

**Notes:**

- This HDMI connector is Type A.
- If you connect an equipment without a digital output terminal, connect to the COMPONENT VIDEO, S VIDEO or VIDEO input terminal on the TV so you can enjoy an analog signal.
- The DIGITAL IN terminal can only be used with 480i/576i/480p/576p/720p/1080i/1080p picture signals. Set the Digital Set -Top -Box DIGITAL OUT terminal Output setting to 1080i, 1080p, 480i or 480p. For detailed information, refer to the Digital Set -Top -Box instruction manual. If you cannot display the picture because your Digital Set -Top -Box does not have a DIGITAL OUT terminal Output setting, use the component Video Input (or the S Video Input or Video Input). In this case the picture will be displayed as an analog signal.

## How to Watch

- 1** Turn on TV and Press  on remote control until showing HDMI1/HDMI2 banner on the bottom side.

HDMI1

HDMI2

### TIP

- \*1 HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMILicensing LLC.
- \*2 EIA/CEA-861/861B profiles compliance covers profiles for transmission of uncompressed digital video including high bandwidth digital content protection.

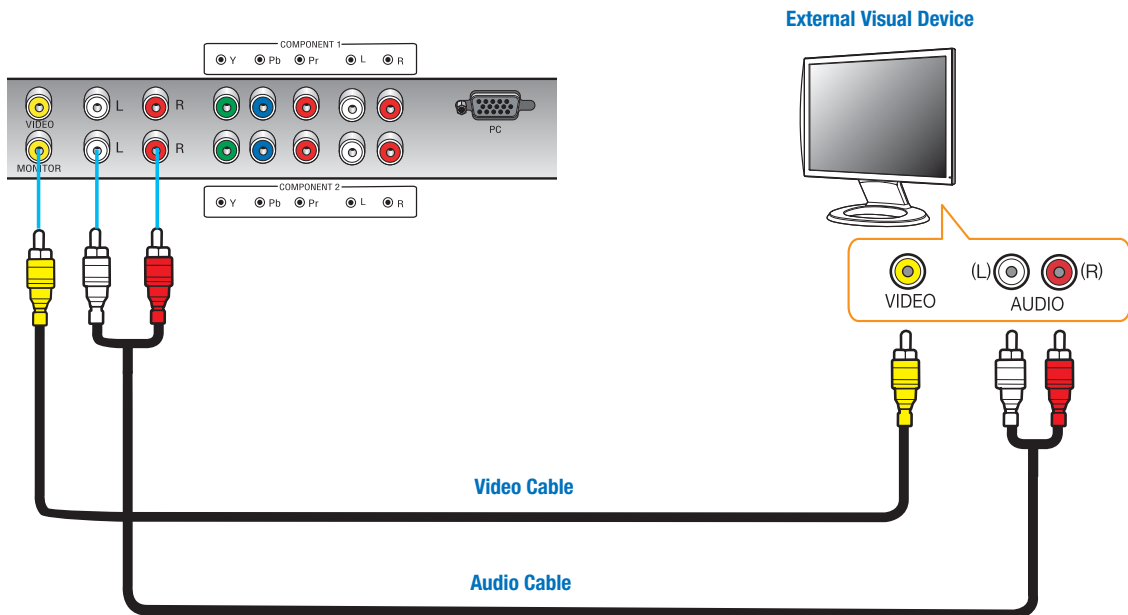


# How to Connect an External Visual Device

You can connect your TV to other visual device to watch TV program at the same time.

## Connection Method

- 1 Connect the Composite Video cable between Video input terminals of an external device and the Video output terminals for Video on the rear of TV. (Connect the jacks to terminals in the same color.)
- 2 Connect the Audio cable between Audio input terminal (Left-white, Right-red) of an external device and Audio output terminal for Video on the rear of TV. (Connect the jacks and terminals in the same color.)
- 3 For more information, read the user's guide of an external device.

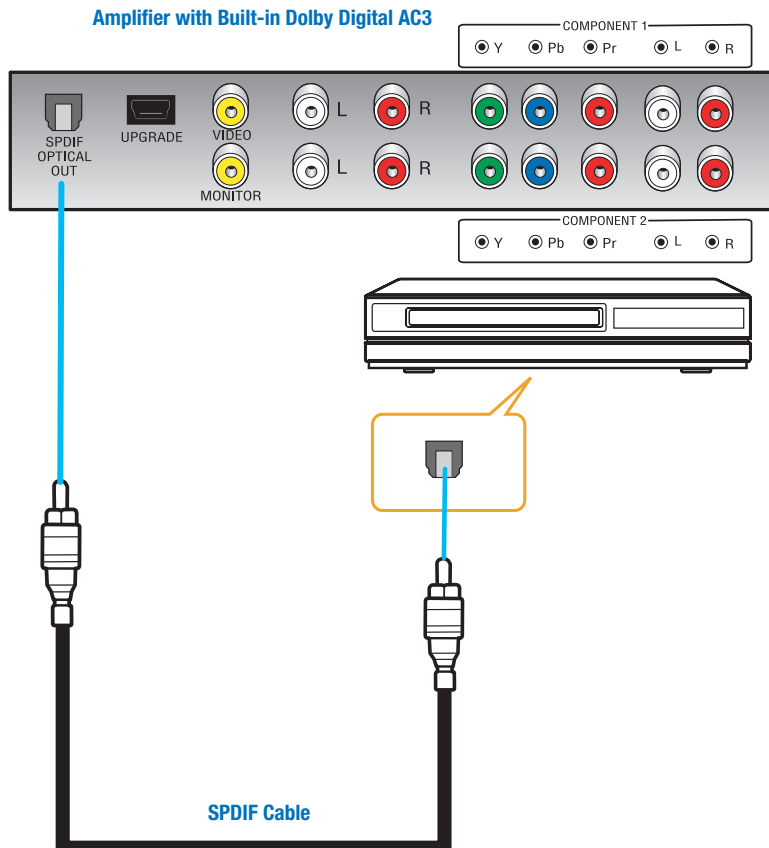


**TIP** Video and Audio outputs are available only when watching an Analog TV, Digital TV or VCR. This is not supported in the Input Mode of Component, HDMI /D-SUB or S-Video.

# How to Use Digital Sound

## Connection Method

- 1 Connect the optical cable to the digital audio output terminal for SPDIF optical digital audio output terminal on the rear of TV.
- 2 Select Digital Sound Output. (See page 43)
- 3 For more information, read the user's guide of the external sound device.



# How to Select TUNER MODE

You can choose the RF-input between off-air and cable.



Press Menu button.  
Menu items appear on the screen.

1



Press up or down button to move to "channel".  
Press or buttons to select "channel".

2



Press up or down button to move to Tuner Mode.  
Press or buttons to select Tuner Mode.

3



Press up or down button to move to Air / Cable  
and press button to select item you want.



Press MENU button after the setting is done and menu goes to the previous menu.  
If the EXIT button is pressed, the menu will disappear.



# How to Store Channels Automatically

- Your TV can memorize and store all of the available analog/digital broadcast signals for both “off-air” (antenna) and cable channels.
- Before your television can begin memorizing the available channels, make sure to specify the type of the signal source (antenna or cable) connected to your TV.

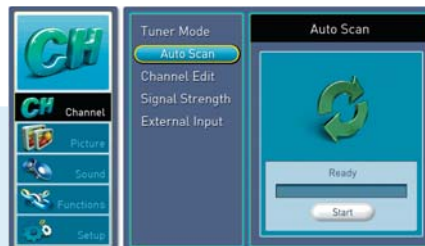


Press Menu button.  
Menu items appear on the screen.

1



Press Up or Down button to move to “channel”.  
Press or button to select “channel”.



2



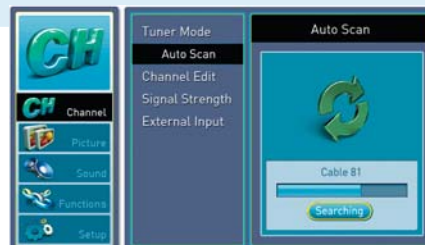
Press Up or Down button to move to “AUTO SCAN”.  
Press or button to select “AUTO SCAN”.



3



Press button and Auto Scan is Activated



CHANNEL

**TIP**

- In the middle of AUTO SCAN, if you press button or Menu Button, AUTO SCAN is interrupted. Then the original channel is returned.
- If you have changed the connection of an antenna or cable, perform AUTO SCAN again.



# How to Add/Eraser Channels Manually

Users can add or erase the desired channels.

CHANNEL

1

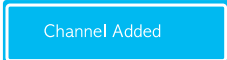


Press the number buttons on remote control to view the channels that will be added.

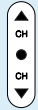
2



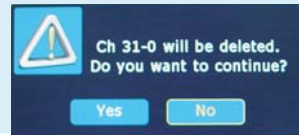
To Add Channel , Add the channel by pressing the ADD/ERASE button.



3



To Delete Channel, Press channel buttons or the number buttons on remote control to erase the channel.



4



Press the ADD/ERASE button to erase the channel Press Left and Right buttons to set 'YES/NO'.



# How to Set Channel Edit and Favorite Channels

Users can store frequently watched channels to quickly access a preferred channel.

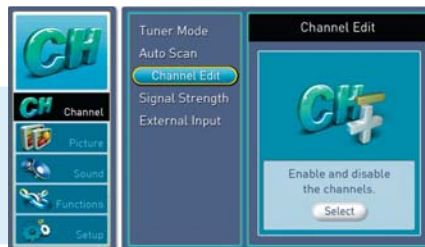


Press Menu button.  
Menu items appear on the screen.

1



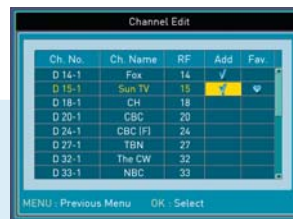
Press Up or Down button to move to "channel".  
Press button or to select "channel".



2



Press Up or Down button to move to "channel edit".  
Press button or to select "channel edit".



3



Press button to "select".

You can channel and Favorite-channels by pressing add/erase, Up/Down, left/right and buttons.



Press MENU or exit button after the setting is done, and you can save the channels you select.

How to Directly Add and Erase Favorite Channels : Press button.

BOOK-MARK

How to Directly See Favorite Channels : Press button.

FAVORITE



The Favorite function is available only with remote control.



# How to See Signal Strength

The function is only for DTV channel.

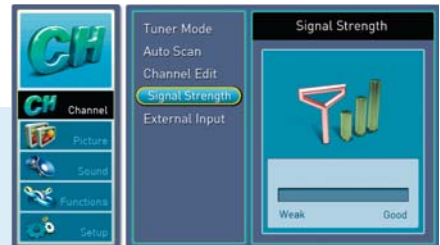


Press menu button.  
menu items appear on the screen.

1



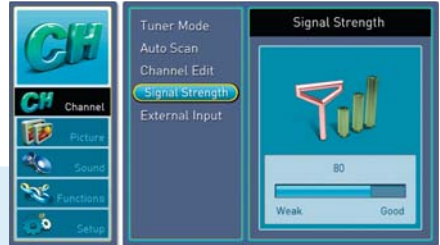
Press Up or Down button to move to "channel".  
Press ◀ or ▶ button to select "channel".



2



Press Up or Down button to move to "signal strength".  
Press ◀ or ▶ button to select "signal strength"  
then the signal strength of antenna appears  
on the screen.



Press MENU button after the setting is done and menu  
goes to the previous menu.  
If the EXIT button is pressed, the menu will disappear.

# How to Set The Input Mode



Press Menu button.  
Menu items appear on the screen.

1



Press Up or Down button to move to "channel".  
Press ◀ or ▶ button to select "channel".



2



Press Up or Down button to move to "external input".  
Press ◀ or ▶ button to select "external input".



3



Press left or right button to set input mode  
Whenever press left/right button to set input mode  
Changes in following order.

- ⇒ TV(Air/Cable) ⇒ AV1(Video1) ⇒ AV2(Video2)
- ⇒ AV3(S-Video) ⇒ AV4(Component1)
- ⇒ AV5(Component2) ⇒ AV6(PC) ⇒ AV7(HDMI1) ⇒ AV8(HDMI2)



Press Menu button after the setting is done and menu goes to the previous Menu.  
If the Exit button is prested, the menu will disappear.

You can set the input mode quickly using the remote control press the  button

Whenever press this button, the input mode changes if following order

- ⇒ TV(Air/Cable) ⇒ AV1(Video1) ⇒ AV2(Video2) ⇒ AV3(S-Video) ⇒ AV4(Component1)
- ⇒ AV5(Component2) ⇒ AV6(PC) ⇒ AV7(HDMI1) ⇒ AV8(HDMI2)



# How to Select the Picture Mode

Users can automatically adjust the picture mode according to the input mode.



Press Menu button.  
Menu items appear on the screen.

1



Press Up or Down button to move to picture.  
Press ◀ or ▶ button to select picture.

2



Press Up or Down button to move to picture mode  
Press ◀ or ▶ button to select

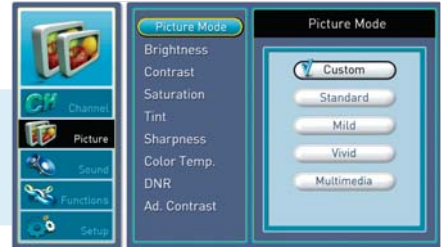
3



Whenever you press Up or Down button, the mode changes in following order.  
⇒ Custom ⇒ Standard ⇒ Mild ⇒ Vivid  
⇒ Multimedia



Press MENU button after the setting is done and menu goes to the previous menu.  
If the EXIT button is pressed, the menu will disappear.



**CUSTOM** : When the user wants to directly set the values → [See the next page](#)

**STANDARD** : Most video contents are appropriate to this mode

**MILD** : Soft display

**VIVID**: Clear and Vivid display

**MULTIMEDIA** : For multimedia screen like movies

PICTURE

How to Directly Select Picture Mode : ◀▶ Press Picture button.

- Whenever press this button, the mode changes in following order. ⇒ CUSTOM ⇒ STANDARD  
⇒ MILD ⇒ VIVID ⇒ MULTIMEDIA.



If the adjustment of Contrast, Brightness, Sharpness, Saturation and Tint is changed, it's changed to the Custom mode automatically.

# How to Set the Desired Picture

Users can manually adjust their desired picture.



Press Menu button.  
Menu items appear on the screen.

1



Press Up or Down button to move to picture.  
Press ◀ or ▶ button to select picture.

2



Press Up or Down button to move to picture mode.  
Press ◀ button or ▶ to select picture mode.

3



Press Up or Down button to move to custom and  
Press ◀ button to make a selection.

4



Press Up or Down button to move to "Brightness".  
Press ◀ or ▶ button to select "Brightness".

5



Press Left or Right button to adjust.



Press MENU button after the setting is done and menu goes to the previous menu.  
If the EXIT button is pressed, the menu will disappear.



PICTURE

- BRIGHTNESS** : Adjust the brightness of the entire picture.
- CONTRAST** : Adjust the brightness and darkness of object and background.
- SATURATION** : Adjust colors into deeper or lighter colors.
- TINT** : Adjust colors naturally.
- SHARPNESS** : Adjust clarity of outline of objects.
- COLOR TEMP** : Whenever You Press left or right button, the mode changes in following order NORMAL ⇄ WARM ⇄ COOL
- DNR** : Reduce the Digital Noise in the DTV mode.
- AD.CONTRAST** : Adaptive contrast

**TIP**






TINT is not applied to PC mode



# How to Select the Aspect Ratio

Users can manually adjust size of the screen.

PICTURE

<b>16 : 9</b>	General broadcast picture is adjusted to 16:9.	
<b>4 : 3</b>	4:3 general picture size	
<b>ZOOM 1</b>	Picture enlarged to 16:9 format, letter box format.	
<b>ZOOM 2</b>	Picture which enlarges 16:9 vertically	
<b>PANORAMA</b>	Picture size for panorama video	
<b>REAL</b>	Real size in HDMI, Component	

ASPECT  
How to Directly Select Picture Mode :  Press Aspect button.



- You can use ASPECT key as follows.
- Digital TV input : 16 : 9 ⇨ 4 : 3 ⇨ Zoom 1 ⇨ Zoom 2
  - Analog TV input (in Video, TV mode) : 16 : 9 ⇨ 4 : 3 ⇨ Zoom 1 ⇨ Zoom 2 ⇨ Panorama
  - PC mode : 16 : 9 ⇨ 4 : 3
  - HDMI,COMPONENT Input : 16 : 9 ⇨ 4 : 3 ⇨ Zoom 1 ⇨ Zoom 2 ⇨ Real

**What is Real Mode?**

- This Mode allows to show original display without over scanning when 1080i/p signal used in component/HDMI Input Mode.
- According to inputted video signal, Some noise can be displayed Mode on side of screen but this noise is originally from inputted video signal.

# How to Watch PIP/Double Window

Press  button to set up PIP

PIP ⇨ POP is selected whenever you press



<PIP>



<Double Window>

Press  button to select input source of sub screen.


Select input source of sub screen by pressing ▲ ▼ button and press OK button.

Press  button to adjust sub screen.

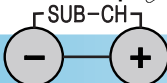
Sub screen's size will change whenever you press.

Press  button to swap main and sub screen.

Main and sub screen will be swapped whenever you press.

Press  button to change the position of sub screen.

⇨ It moves left top ⇨ right top ⇨ right bottom ⇨ left bottom ⇨

Press  buttons to select the channel of sub screen.

Only in case sub screen's input is TV.



Main and sub screen can't be used for same input sources.



## Supported PIP Table

PIP : 0 → Supported, X → Not Supported

Main \ Sub	TV	VIDEO 1	VIDEO 2	S-VIDEO	Component 1	Component 2	PC	HMDI 1	HDMI 2
TV	X	0	0	0	0	0	0	0	0
VIDEO 1	0	X	0	0	0	0	0	0	0
VIDEO 2	0	0	X	X	0	0	0	0	0
S-Video	0	0	X	X	0	0	0	0	0
Component 1	0	0	0	0	X	0	0	0	0
Component 2	0	0	0	0	0	X	0	0	0
PC	0	0	0	0	0	0	X	0	0
HDMI 1	0	0	0	0	0	0	0	X	X
HDMI 2	0	0	0	0	0	0	0	X	X



# How to Select the Audio Mode

Users can adjust sound mode automatically as they want.



Press Menu button.  
Menu items appear on the screen.

1



Press Up or Down button to move to sound .  
Press ◀ or ▶ button to select sound .



2



Press Up or Down button to move to sound mode  
Press ◀ or ▶ button to select sound mode.



3



Mode is selected.  
Whenever you press Up or Down button,  
the mode changes in following order.  
⇒ CUSTOM ⇒ STANDARD ⇒ MOVIES  
⇒ MUSIC ⇒ SPEECH



Press MENU button after the setting is done and menu goes to the previous menu.  
If the EXIT button is pressed, the menu will disappear.

**CUSTOM** : When the user wants to set the value. ➔ See the next page  
**STANDARD** : General sound mode. This fits most audio contents.  
**MOVIES** : For enjoying vivid sound.  
**SPEECH** : For enjoying clear sound.  
**MUSIC** : For enjoying original sound.

SOUND

How to Directly Select Sound Mode : Press SOUND button.

Users can select ⇒ Custom ⇒ Standard ⇒ Movies ⇒ Music ⇒ Speech



# How to Adjust the Desired Audio Mode

Users can adjust sound mode manually as they want.

1



Press Menu button.  
Menu items appear on the screen.



2



Press Up or Down button to move to sound mode  
Press or to select.



3



Press Up or Down button to move to custom.  
and press button to make a selection.

4



Press Up or Down to select items.  
(Table, Bass and blance)



5



Press or button to select items.  
Move between the items listed using UP or Down button.  
Adjust the level of the item selected using  
Left or Right button.

Press MENU button after the setting is done and menu goes to the previous menu.  
If the EXIT button is pressed, the menu will disappear.








**TREBLE:** Adjusts the range size of high sound.

**BASS:** Adjusts the range size of low sound.

**BALANCE :** Adjusts the balance of left and right speakers.

# How to Use the Automatic Volume Control

With this Automatic Volume Level Control, everything you watch will always maintain the volume level that you decide. Basically it is set to "ON"

	<p>Press Menu button. Menu items appear on the screen.</p>	
<p>1</p>		<p>Press Up or Down button to move to sound . Press ◀ or ▶ button to select sound .</p>
<p>2</p>		<p>Press Up or Down button to move to AVL. Press ◀ or ▶ button to select AVL.</p>
<p>3</p>		<p>Press ◀ or ▶ button to set to on/off. Press ◀ button to set to on/off.</p>
	<p>Press MENU button after the setting is done and menu goes to the previous menu. If the EXIT button is pressed, the menu will disappear.</p>	



If the SRS TruSurround XT function is activated, the AVL is disabled.



# How to Listen to SRS TruSurround XT (Surround)

Users can enjoy spectacular 3D sound.

- MENU**
- 1** **Press Up or Down button to move to sound.**  
**Press** **or** **button to select sound.**
- 2** **Press Up or Down button to move to Surround.**  
**Press** **or** **button to select Surround.**
- 3** **Press Left and Right buttons to set to ON/OFF.**
- EXIT**



**How to Directly Select Surround :** Press the **button.**










- User can select TruSurround XT ON ⇌ TruSurround XT OFF



is a trademark of SRS Labs, Inc.  
TruSurround XT technology is incorporated under  
license from SRS Labs, Inc.

# How to Set Audio Language

While watching a digital program, you can listen to foreign language if the program is supported with foreign language.

  <b>1</b>   <b>2</b>   <b>3</b>   	<p><b>Press Menu button.</b> Menu items appear on the screen.</p> <p><b>Press Up or Down button to move to sound .</b> Press ◀ or ▶ button to select sound .</p> <p><b>Press Up or Down button to move to 'Pref.Aud.Lang'.</b> Press ◀ or ▶ button to select 'Pref.Aud.Lang'.</p> <p><b>Whenever you press Left or Right button,</b> the mode shifts in following order. ⇒ ENGLISH ⇒ SPANISH ⇒ FRANCE</p> <p><b>Press MENU button after the setting is done and menu goes to the previous menu.</b> If the EXIT button is pressed, the menu will disappear.</p>	    
---	---	--

SOUND

**How to Directly Select Audio Language :** Press the  button.

- Whenever you press this button, the mode shifts ⇒ MONO ⇒ STEREO ⇒ SAP in order when receiving analog signals.
- You can select one of the languages listed you prefer when receiving digital signals.



# How to Set the Digital Audio Output

The digital audio output terminal allows you to enjoy digital sound.



Press Menu button.  
Menu items appear on the screen.

1



Press Up or Down button to move to sound .  
Press or button to select sound.



2



Press Up or Down button to move to "Dig.Audio Out"  
Press or buttons to select "Dig.Audio Out"



3



Whenever you press Left or Right button, the mode shifts in following order.  
⇒ Dolby ⇒ PCM



Press MENU button after the setting is done and menu goes to the previous menu.  
If the EXIT button is pressed, the menu will disappear.

Manufactured under license from Dolby Laboratories.  
"Dolby Digital" and the double-D symbol are trademarks of Dolby Laboratories.

# How to Set Auto Lock

This function is used to prevent from using the control buttons on the front top of the TV or from connecting external devices to the TV. You make sure to set a PIN number to use this function.



Press Menu button.  
Menu items appear on the screen.

1



Press Up or Down button to move to function .  
Press ◀ or ▶ button to select function .

2



Press Up or Down buttons to move to "AUTO LOCK".  
Press ◀ or ▶ button to select "AUTO LOCK".

3



Then the Enter PIN number window appears.  
The default is 4 digits (0-0-0-0).

4



**- To set Blocking :**  
Press Up or Down button to move to "SET BLOCKING".  
Press ◀ or ▶ button to select "SET BLOCKING"

5



Press Up or Down button to move to "ON/OFF".  
Press ◀ button to make a selection.

6



**- To set Channel blocking :**  
Press Up or Down button to move to "CHANNEL BLOCKING".  
Press ◀ button to select "BLOCK CHANNEL".

7



Then the AUX BLOCK items appear.  
Press Up or Down button to move to the item you want.  
Press ◀ button to set to "LOCK/UNLOCK".  
If the item is set to ON, such item is disabled.

Continued on next page .....



FUNCTION



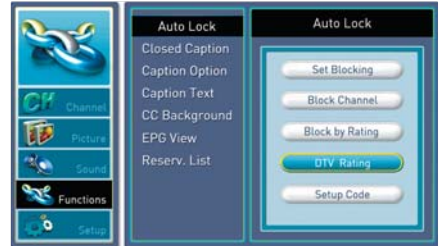


Continued from previous page..... (Set the Lock External Signal function.)

8



**- To update DTV rating :**  
Press Up or Down button to move to "DTV Rating".  
Press button to select "DTV Rating".



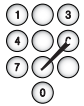
9



**- To set setup code :**  
Press Up or Down button to select "SETUP CODE".  
Press button to select "SETUP CODE".  
Then the Enter PIN number window appears.



10



Enter a 4- digit PIN number.  
When the Confirm PIN number window appears,  
enter the PIN number again.



EXIT



Press MENU button after the setting is done  
and menu goes to the previous menu.  
If the EXIT button is pressed, the menu will disappear.



**TIP**

If you forgot your PIN number, Enter a 4-digit number (0-7-1-1)twice in the pin number window.



## How To Set Block By Rating

This(V-Chip) is used to block program viewing based on the ratings sent by the broadcasting station. The default setting is to allow all programs to be viewed. Viewing can be blocked by the type of program and by the categories chosen to be blocked.

### V-Chip rating and categories

Rating guidelines are provided by broadcasting stations. Most television programs and television movies can be blocked by TV Rating and/or Individual Categories. Movies that have been shown at the theaters or direct-to-video movies use the Movie Rating System (MPAA) only.

### Ratings for Movies previously shown in theaters :

Movie Ratings :	- Blocking Off	(Permits all programs)
	- G	(General audience)
	- PG	(Parental guidance suggested)
	- PG-13	(Parents strongly cautioned)
	- R	(Restricted)
	- NC-17	(No one 17 and under admitted)
	- X	(Adult only)
	- NR	(Not Rated)

*If you set PG-13 : G and PG movies will be available , PG-13, R, NC-17 and X will be blocked.*

### Ratings for Television programs including made-for-TV movies :

- TV-G	(General audience)
- TV-PG	(Parental guidance suggested)
- TV-14	(Parents strongly cautioned)
- TV-MA	(Mature audience only)
- TV-Y	(All children)
- TV-Y7	(Children 7 years older)

TV Rating Children : - Age	(applies to TV-Y, TV-Y7)
- Fantasy Violence	(applies to TV-Y7)

TV Rating General : - Age	(applies to TV-G, TV-PG, TV-14, TV-MA)
- Dialogue-sexual dialogue	(applies to TV-PG, TV-14)
- U Language-adult language	(applies to TV-PG, TV-14, TV-MA)
- Sex-sexual situations	(applies to TV-PG, TV-14, TV-MA)
- Violence	(applies to TV-PG, TV-14, TV-MA)

*Continued on next page .....*



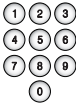
Press Menu button.  
Menu items appear on the screen.

1



Press Up or Down button to move to Auto Lock.  
Press or button to select Auto Lock.  
The message "Enter PIN" will appear.

2



Enter your 4-digit PIN number.

3



Press Up or Down button to move to "BLOCK BY RATING" and press buttons to make a selection.  
The new screen will appear.

4



Press Up/Down and left/right buttons to select the items (MPAA and TV Parental midelines)

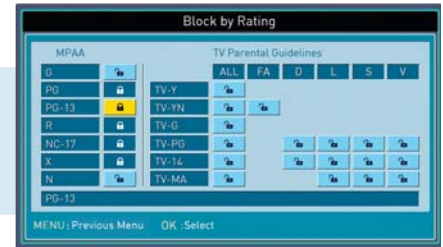
5



Press up/down and left/right buttons to select the item.  
Press button to make a selection.



Press MENU button after the setting is done and menu goes to the previous menu.  
If the EXIT button is pressed, the menu will disappear.



## How to View Closed Captions

Choices in the closed caption menu are : CC Mode, Priority (Analog caption or Digital caption), and Option.

### 1. CC MODE :

**Always On** : Captioning information is always shown, when available.

**Off** : No captioning information is displayed.

**On When Muted** : Captioning information is shown, when mute.

### 2. PRIORITY :

You can choose whether the TV uses digital or analog captions for digital TV programs that have both or either.

- **ANALOG (CAPTION)** : You can select a closed caption mode, which is the mode, or source, used for displaying captioning information for analog channels or digital channels, if available.

#### • CAPTION :

The form for the words that scroll across the bottom of the TV screen : usually the audio portion of the program provided for the hearing impaired.

**CC 1** : For video related information that can be displayed. Script can be in any language.

**CC 2/3/4** : Other modes used for video related information.

#### • TEXT :

The term for the words that appear in a large black frame and almost cover the entire screen : Usually message provided by the broad caster.

**T 1** : Blanks out a large portion of the picture on the television screen, and display program guide or any other information currently being transmitted.

**T 2/3/4** : other modes that display information and blank out a large portion of the picture of the TV screen.

- **DIGITAL (CAPTION)** : You can select a closed caption, service mode(1-6) for digital channels.

The service modes support MPEG-2 based transport sources Service 1 and Service2 are the primary and secondary languages, respectively.

Service3 and service4.5.6 are additional caption sources that may be available.

*Continued on next page .....*



..... Continued from previous page.

### 3. OPTION :

Customized closed captioning for the digital caption by choosing the settings for the following options :

#### 1) Caption Text

**CAPTION SIZE :** Set the size of the words - AUTO -> SMALL -> STANDARD -> LARGE

**CAPTION STYLE :** Set the style of the words - AUTO -> STYLE1 -> STYLE2 -> STYLE3 -> STYLE4 -> STYLE5 -> STYLE6 ->STYLE7.

**TEXT COLOR :** Choose a color for the text - AUTO -> BLACK -> WHITE -> RED -> GREEN -> BLUE -> YELLOW -> MARGENTA -> CYAN

**TEXT OPACIFY :** Specify the opacity for the text - AUTO -> SOLID -> TRANSPARENT -> TRANSLUCENT -> FLASHING

**EDGE STYLE :** Select Edge style for the text - AUTO -> NONE -> RASIED -> DEPRESSED -> UNIFORM -> L-DROPSHADOW -> R-DROPSHADOW

**EDGE COLOR :** Select Edge color for the text - AUTO -> BLACK -> WHITE -> RED -> GREEN -> BLUE -> YELLOW -> MARGENTA -> CYAN

**ITALIC :** Convert the text in to italic - AUTO -> ON -> OFF

**UNDERLINE :** Add the underline to the text - AUTO -> ON -> OFF

#### 2) cc Background

**COLOR :** Set the color of the cc Background AUTO -> BLACK -> WHITE -> RED -> GREEN -> BLUE -> YELLOW -> MARGENTA -> CYAN

**OPACIFY :** Specify the opacity for the - AUTO -> SOLID -> TRANSPARENT -> TRANSLUCENT -> FLASHING

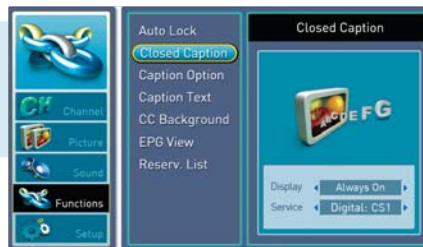


Press Menu button.  
Menu items appear on the screen.

1



Press Up or Down button to move to function and press or to select function.



2



Press Up and Down buttons to move to "CLOSED CAPTION" and press or button to make a selection.



3

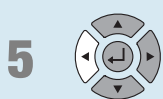


Display MODE is highlighted.  
Press Left and Right buttons to select Off" or "Always On" or "On When Muted".  
Sub menu items are activated.

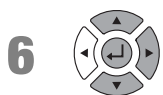
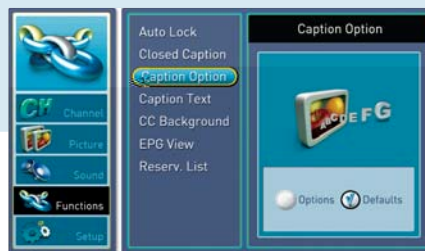
4



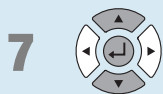
Press Up or Down button to move the item.  
Press Left or Right button to select the item.



**5** - To select caption option  
Press Up or Down button to move to caption option.  
Press or button to select caption option.



**6** Press left/right buttons to select Auto/Option and press to select make a selection.  
If caption option selected options, CC Background and caption Text are highlighted When selecting the CC Background and caption text, press button.



**7** Press Up or Down button to move between the items (cc Background and Caption text)  
Press left/right buttons to select the item



**8** Then you can choose the CC Background and caption text by pressing up/down and left/Right buttons.



Press MENU button after the setting is done and menu goes to the previous menu.  
If the EXIT button is pressed, the menu will disappear.



# How to Set the EPG View

- This service is only for DTV model.



Press Menu button.  
Menu items appear on the screen.

1



Press Up or Down button to move to function.  
Press ◀ or ▶ button to select function.

2



Press Up or Down button to move to EPG View.  
Press ◀ or ▶ button to select EPG View.

3



Press ◀ or ▶ button to see the EPG.  
Then you can get information on the broadcasting time and program.

4



Press Up or Down button to select the program for reservation.  
Press ◀ to reserve the selected program.  
If reserved, clock mark will appear on the program.



Press MENU button after the setting is done and menu goes to the previous menu.  
If the EXIT button is pressed, the menu will disappear.



FUNCTION

DTV-GUIDE

How to Directly Move to EPG : Press the  button.



Five programs can be reserved.

# How to View Reservation List

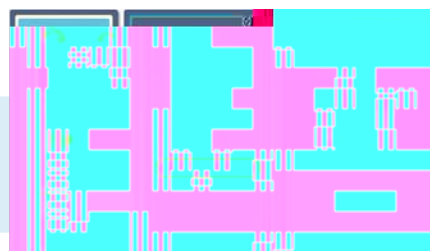


Press Menu button.  
Menu items appear on the screen.

1



Press Up or Down button to move to function.  
Press or button to select function.



2



Press Up or Down button to move to Reserv. List .  
Press or button to select Reserv. List .



3



Press or to activate Reservation List.  
If you reserved programs, Reservation List will appear.  
If not, No program schedule will appear.

4



To cancel reserved programs, move to Reservation List and  
press to cancel.  
The clock symbol will disappear.



Press MENU button. If the message "Do you want to save ?"  
appears, select Yes.  
After saving, Reservation List will disappear.





# How to Set Date / Time



Press Menu button.  
Menu item appear on the screen.



1



Press Up or Down button to move to setup .  
Press ◀ or ▶ button to select setup.



2



Press Up or Down button to move to "DATE/TIME" .  
Press ◀ or ▶ button to select "DATE/TIME".

3



Press ◀ or ▶ button to select "Observe or Do not observe",  
DayLight Saving Time.  
Press ◀ button to select function

4



Press left/right buttons to timezone.  
Whenever you press the buttons, timezone  
is changed in following order.  
Pacific ⇨ Mountain ⇨ Central ⇨ Eastern  
⇨ Alaska ⇨ Hawaii ⇨ Atlantic  
Press ◀ button to select "SETTING".



5



Press Up or Down button to move to manual manually.  
Press ◀ button to set the current "DATE/TIME"  
Press Up/Down and Left/Right buttons to set  
year, month, day, Hour, Minute and AM/PM



6



After setting,  
Press ◀ or ▶ button to exit

7



"AUTO" is only for DTV mode.  
If you select "AUTO",  
Press ◀ or ▶ button to select function



Press MENU button after the setting is done and  
menu goes to the previous menu.  
If the EXIT button is pressed, the menu will disappear.



# How to Set Power on Time

- Yes can automatically turn on or off the TV at a present time, To do this, you must set the time it you wish to use the automatic on or off timers



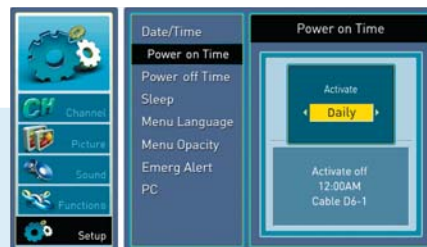
Press Menu button.  
Menu items appear on the screen.



1



Press Up or Down button to move to setup.  
Press or button to select setup.



2



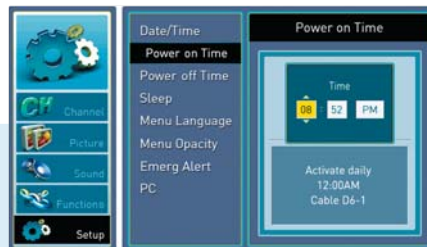
Press Up/Down button to select power on time  
Press or button to select power on time.

3



Press button to activate power on time whenever you press left and right button, the mode shifts in following order  
OFF ⇌ ONCE ⇌ DAILY

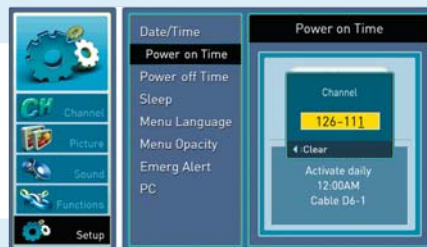
If you select once or daly in the "ACTIVATE"  
You can set time and channel



4



Press up/down button to select Time.  
Press button to set Time.  
Press Left or Right button to move between Hour, minute and AM/PM and press up or down buttons to set Hour, minute and AM/PM



5



Press Up/Down buttons to select channel.  
Press button to set channel.  
Press numeric key to set channel number.  
Press button to set.



Press MENU button after the setting is done and menu goes to the previous menu.  
If the EXIT button is pressed, the menu will disappear.



# How to Set Power Off Time



Press Menu button.  
Menu items appear on the screen.



1

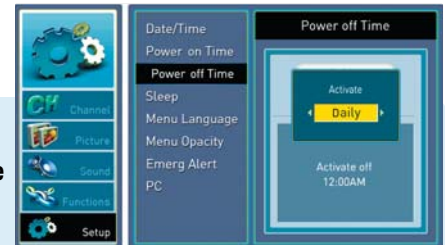


Press Up or Down button to move to setup  
Press  or  button to select setup.

2




Press Up/Down button to move to power off time  
Press  or  button to select power off time.

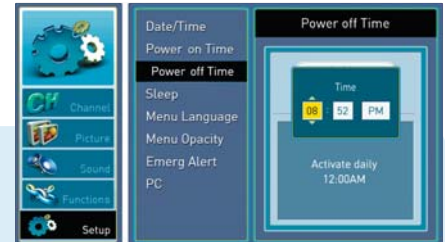


3





Press  button to activate power off time.  
Whenever you press left and right button, the mode shift in following order.  
OFF ⇌ ONCE ⇌ DAILY

If you select once or daily in the "ACTIVATE"  
You can set time.



4



Press Up/Down buttons to select time.  
Press  button to set time.  
Press Left or Right button to move between  
hour, minute and AM/PM  
Press Up or Down buttons to set  
hour, minute and AM/PM.  
Press  button to set.



Press MENU button after the setting is done and menu goes to the previous menu.  
If the EXIT button is pressed, the menu will disappear.

# How to Set Sleep Time



Press Menu button.  
Menu items appear on the screen.



1



Press Up or Down button to move to setup  
Press or button to select setup.

2



Press Up or Down button to move to sleep time.  
Press or button to set sleep time.



3



Press up or down button to set sleep time  
Whenever you press up or down button the mode shifts in following order.  
OFF ⇨ 15 ⇨ 30 ⇨ 45 ⇨ 60 ⇨ 90 ⇨ 120  
⇨ 180 ⇨ 240 MINUTES

4



Press button to set.



Press MENU button after the setting is done and menu goes to the previous menu.  
If the EXIT button is pressed, the menu will disappear.

How to Directly Set the sleep timer : Press the button.

- Whenever press this button, the mode shifts off ⇨ 15 ⇨ 30 ⇨ 45 ⇨ 60 ⇨ 90 ⇨ 120  
⇨ 180 ⇨ 240 minutes



# How to Choose Menu Language

Users can select their language preference in order to display main menus and sub menus, etc.



Press Menu button.  
Menu items appear on the screen.

1



Press Up or Down button to move to setup.  
Press ◀ or ▶ button to select setup.



2



Press up/down button to move to menu language.  
Press ◀ or ▶ button to select menu language.



3



Press ◀ or ▶ button to set language  
Whenever you press Left or Right button,  
the mode shifts in following order.  
⇒ ENGLISH ⇒ SPANISH ⇒ FRENCH



Press MENU button after the setting is done and menu goes to the previous menu.  
If the EXIT button is pressed, the menu will disappear.

# How to Set Menu Opacity

Users can select their language preference in order to display main menus and sub menus, etc.



Press Menu button.  
Menu items appear on the screen.



1

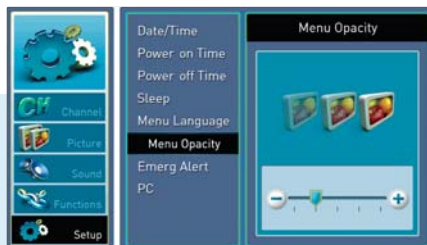


Press Up or Down button to move to setup.  
Press ◀ or ▶ button to select setup.

2



Press Up or Down button to move to move to menu opacity.  
Press ◀ or ▶ button to select menu opacity.



3



Press left or right to set menu opacity you want.



Press MENU button after the setting is done and menu goes to the previous menu.  
If the EXIT button is pressed, the menu will disappear.



# How to Set Emergency Alert



Press Menu button.  
Menu items appear on the screen.

1



Press Up or Down button to move to setup .  
Press or button to select setup



2



Press Up or Down button to move to Emerg Alert.  
Press or button to select Emerg Alert.



3




Press Up or Down button to move to Low/medium.  
Press left or right button to select present/discard.







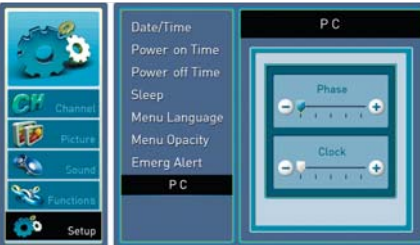



Press MENU button after the setting is done and menu goes to the previous menu.  
If the EXIT button is pressed, the menu will disappear.

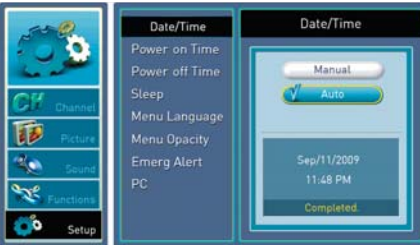



# How to Set the Geometry in PC Mode

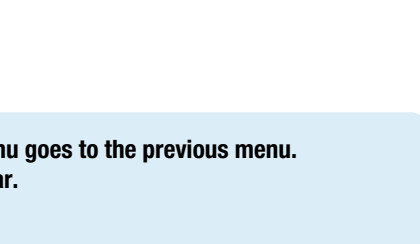

This function is only available in PC mode.

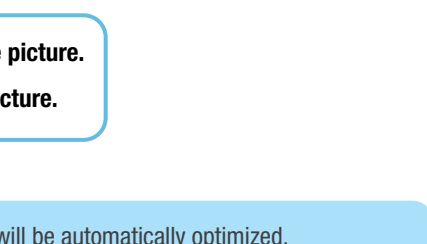



- 1**  Press Menu button. Menu item appear on the screen.

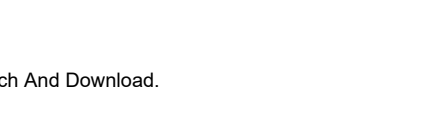





- 2**  Press Up or Down button to move to setup. Press  or  button to select setup.



- 3**  Press Up or Down buttons to move to "PC". Press  or  button to select "PC".


- 4**  Press Up and Down buttons to move to "Auto Adjustment". Press  or  button to adjust H/V-position auto.


- 5**  Press Up and Down buttons to move to "TRACKING". After pressing OK button, you can select Phase, Clock with Up or Down button and change the value with Left or Right button.


- 6**  Press Up or Down button to move to position. Press  or  button to select position.


- 7**  Press Up and Down buttons to adjust V-position . Press  or  button to adjust H-position. After setting press  button to exit


- 8**  Press MENU button after the setting is done and menu goes to the previous menu. If the EXIT button is pressed, the menu will disappear.

**H. POSITION :** To adjust the horizontal position of the picture.  
**V. POSITION :** To adjust the vertical position of the picture.



If the display input signal (resolution) has been changed, the picture will be automatically optimized.



## Picture On Function Guide

Picture On function allow user to change factory power on screen “Hyundai IT Logo”.

- 1) Using PC image editor software to open your image file.
- 2) Resize the image pixel size to 960 x 550 using image editor software.
- 3) Set your image color to hi-color (16bit).
- 4) Save your image file name to “logo.bmp”.
- 5) Create new file folder name “DDM40” on your USB Flash drive. Copy the “logo.bmp” file to “DDM40” file folder and connect USB Flash drive to TV using mini USB cable while TV power LED in Red (Standby mode).
- 6) Press “Power” button on remote controller. Image file will upload to TV.
- 7) TV will display “SPLH: OK”, Press “Power” button to turn off the TV.
- 8) Disconnect the Mini USB cable from the TV and press “Power” button to turn on TV.
- 9) Power on screen is set and TV will display “logo.bmp” image.



- Requirements: File Format - Bit Map(\*.BMP) / Image pixel size 960X540 / BIT- 16bit
- Free image editor software can be found at the [www.download.com](http://www.download.com)
- Recommended USB Flash Drive: SanDisk Cruzer, Micro USB Flash Drive 256Mb, Hana Micro







## DVD Setting Number Table

MAKER	Setting Number	MAKER	Setting Number
APEX DIGITAL	022	ORION	026
DAEWOO	001, 029, 032	PANASONIC	042, 055
DAEWOO INTERNATIONAL	028	PHILIPS	002, 056
DENON	015, 042	PIONEER	051
ELTA	001, 025, 046, 047	PROSCAN	003
FERGUSON	018	RCA	003, 018
GE	034	SAMSUNG	009, 042
GOODMANS	018, 025, 045, 047, 049, 050	SANYO	021, 026, 047
GRUNDIG	018, 021, 026, 029, 031, 047	SCHNEIDER	018, 029, 045, 046, 047
HANSEATIC	039	SEG	020, 031
JVC	002, 011, 057	SHARP	013, 026
LG	010, 039, 054	SONY	004, 009, 053
MAGNAVOX	002, 049	THOMSON	003, 007
MATSUI	018, 026	TOSHIBA	002
MITSUBISHI	031	YAMADA	050
MUSTEK	037	YAMAHA	042
NAD	039	ZENITH	002, 010, 039
ONKYO	002, 012	MARANTZ	006

## Satellite Receiver Setting Number Table

MAKER	Setting Number	MAKER	Setting Number
HANSEATIC	090	PHILIPS	020, 024, 025, 064, 084, 087, 092, 101, 102, 109, 117, 123, 126, 147
HITACHI	064	PREMIERE	140
HOUSTON	025, 066, 088, 102	PROSAT	034, 096
KATHREIN	004, 020, 039, 049, 057, 063, 067, 073, 092, 102, 111, 126, 147	QUADRAL	034, 054, 077, 087, 096, 102, 109
HUMAX	032, 137	SAMSUNG	033, 062
LG	042	SEG	006, 040, 054, 062, 076, 077, 082, 090, 116
LUXOR	046, 071, 140	SMART	011
MATSUI	020, 045, 084, 109	SONY	064, 108
NEXTWAVE	114	TECHNISAT	031, 065, 071, 076, 083
PACE	026, 027, 043, 064, 069, 112, 119, 122, 146	TELESTAR	071
PANASAT	094, 141	TOSHIBA	015, 064
PANASONIC	064	UNIDEN	022, 120, 130

# Glossary 1

- Component video** Component video is sent through three cables: two color shade (chrominance) signals and one brightness (luminance) signal. Component video achieves greater color accuracy than composite video or S-VIDEO by splitting chrominance into two separate portions.
- Composite video** Composite video is sent through a single cable. Composite video combines the color shade (chrominance) and brightness (luminance) information into one video signal.
- S-VIDEO** S-VIDEO requires a single cable, which carries the brightness (luminance) and color (chrominance) signals of the picture separately. S-VIDEO provides better resolution than composite video, which carries the signals together.
- 480i** Provides 480 lines of resolution. Displays images using interlaced scanning, which first transmits all the odd lines on the TV screen and then the even lines.
- 480p** Provides 480 lines of resolution. Displays images using progressive scanning, which transmits each line from top to bottom.
- 720p** Provides 720 lines of resolution. Displays images using progressive scanning, which transmits each line from top to bottom.
- 1080p** Provides 1080 lines of resolution. Displays images using progressive scanning, which transmits each line from top to bottom.
- 1080i** Provides 1080 lines of resolution. Displays images using interlaced scanning, which first transmits all the odd lines on the TV screen and then the even lines. 1080i is one of the formats used by HDTV (High Definition TV).
- Digital television (DTV)** A new technology for transmitting and receiving broadcast television signals. DTV provides higher resolution and improved sound quality over analog television.
- HDTV(High Definition TV)** HDTV is a new kind of digital TV, creating a high quality picture, high definition. The HDTV provides a theater-like screen with an aspect ratio of 16:9. Supports 720p or higher.
- SDTV(Standard Definition TV)** SDTV is a new kind of standard definition digital TV, having a range of lower resolution than the HDTV. Supports 480i.
- Cable Broadcast Receiver (Converter)** A device that receives cable broadcasting. Connecting it to your TV set allows you to watch a various channels.
- Satellite Broadcasting** Provides crisp picture and clear audio quality throughout the country via a satellite.
- VHF/UHF** VHF (Very High Frequency) is the part of the frequency spectrum from 30 to 300 megahertz. UHF (Ultra High Frequency) is the part of the frequency spectrum from 300 to 3,000 megahertz.



## Glossary 2

- DVD** DVD (Digital Versatile Disc) is an optical disc that can store a huge volume of multimedia such as video, game, and audio application, etc.
- Coaxial Cable** Coaxial cable is the kind of rounded copper cable, which is generally used for TV antenna.
- Aspect ratio** Refers to the ratio between the width and height of the screen. This TV has a 16:9 (widescreen) aspect ratio, as opposed to a 4:3 aspect ratio.
- Picture Mode** Picture Mode features the optimal picture quality. There are Standard-Mild-Vivid - Multimedia-Custom features in order. "CUSTOM" allows you to adjust Contrast, Brightness, Sharpness, Color and Tint.
- Sound Mode** Sound Mode features the optimal sound quality. There are Standard-Movies-Speech-Music-Custom features in order. "CUSTOM" allows you to adjust high frequency sound, middle frequency sound and low frequency sound.
- Digital Broadcasting** Video and Audio signals digitized and transmitted by broadcasting companies complying with the new digital television standard developed by the ATSC (Advanced Television System Committee). Digital Broadcasting technology provides multimedia services including a variety of additional services as well as high-definition quality picture.
- Analog Broadcasting** ATSC-based Video and Audio signals transmitted by broadcasting companies.
- SRS TruSurround TX** A well-recognized 3D sound technology developed by US SRS Labs, Inc. This technology delivers the ultimate audio experience only with two speakers as if through multi-channel speakers.
- Dolby Digital** Formerly known as AC-3, Dolby Digital is a digital audio coding technique that reduces the amount of data needed to produce high quality sound.
- Mono** Audio signals are produced through a single channel. It is difficult to experience a spectacular sound since audio signals are reproduced with a single speaker.
- Stereo** Audio signals are produced through two channels. A spectacular sound is reproduced with two separated speakers.
- Widescreen** Term given to picture displays with a wider aspect ratio than NTSC 4:3. Digital HDTV is 16:9 widescreen. Most motion pictures also have a widescreen aspect ratio, some even wider than 16:9.
- External source** Refers source signals that come from other external devices such as a VCR, camcorder and DVD player, etc. than a TV set.



## Glossary 3

**MTS** A bilingual service provided when an overseas film, foreign drama or overseas news, etc. is aired. You can select one of two choices: mother tongue and foreign language. Or you can listen to both languages at the same time.

**DVI** Digital Visual Interface is a specification for digital signals. This interface using TMDS transmission reduces the loss of signal, allowing to enjoy a clear and crisp image.

**HDMI** HDMI (High-Definition Multimedia Interface) is the first and only industry-supported, uncompressed, all-digital audio/video interface. HDMI provides an interface between any audio/video source, such as a set-top box, DVD player, or A/V receiver and an audio and/or video monitor, such as a digital television (DTV), over a single cable.

**Virtual channels** There is a new numbering system for DTV channels. The system, called the “DTV virtual channels,” gives a number for each DTV program service, and almost always uses the analog NTSC channel number as the first number for that station. The use of virtual channels allows stations to use the same channel number “brand” for both NTSC and DTV. The printed listing services have not yet changed their format to show only the DTV virtual channel numbering system. So in the example, the station is using RF Channel 38 for DTV and is transmitting DTV programs with virtual channel numbers 15.n. The 15.n is short hand for 15.1, and 15.2 and 15.3, etc., as there can be more than one DTV program lineup from the station. So, 15.1 is the first DTV program lineup, 15.2 is the second, 15.3 is the third. Some DTV stations may have only one virtual channel, others perhaps as many as six.



# Troubleshooting

## Installation Problems

Symptom	Possible solution
How can I install an antenna?	Refer to page 16.
TV screen is not clear after installing an indoors antenna.	Indoors antenna may experience poor reception due to surrounding buildings. Please install an outdoors antenna or wireless antenna.
How can I view cable broadcasting?	Please install a cable broadcasting receiver (Converter).

## Picture Problems

Symptom	Possible solution
Neither picture nor sound comes up.	Check whether power is on. Check whether the power is cut or whether power cord is properly connected. Try to plug another product's power cord to the outlet the TV is plugged into.
Picture turns on slowly after power is on.	This symptom is not a malfunction. This delay is designed to prevent the distorted and noisy picture when power is on. However, if the picture does not appear more than 5 minutes after power is on, call a service center.
Picture is distorted or frozen while watching digital broadcasting.	This symptom may be caused by weak reception. Contact your local station or cable company.
Input Source information only appears on black screen.	Check whether your TV is properly connected to external devices.
Poor reception on some channels.	Check whether you selected proper channels. Try re-orienting your antenna.
Black and white on some channels.	Check other channels for black and white screen. Adjust colour.
TV won't turn on.	Ensure the power cord is plugged.
Screen is too bright or too dark.	Adjust brightness.

**Auto On does not work.**

Ensure to use the remote control or power button on the product to turn off your TV. If you unplug the power cord, the stand-by consumption power becomes 0 (zero), which causes the programmed time to be erased.

**After setting the time, I turned TV off and turn it on. The programmed information has been erased.**

Ensure to use the remote control or power button on the product to turn off your TV. If you unplug the power cord, the stand-by consumption power becomes 0 (zero), which causes the programmed time to be erased.

## Sound Problems

Symptom	Possible solution
---------	-------------------

**Too much noise occurs.**

Check whether the audio setting is in the Stereo mode. In the Stereo mode, the sound may be distorted in the area where experiences poor reception or is located far away from a TV broadcasting station.

**No sound while viewing a cable channel**

Make sure an audio or audio/video component is securely inserted into the appropriate jacks. Check other channels for sound. Check the volume settings on the cable broadcasting receiver.

**Picture is OK but sound does not come out.**

Try to press volume up/volume down buttons of your remote control.  
Try to press MUTE buttons of your remote control.

**One of the speakers does not produce sound.**

Select sound balance and make proper adjustment. (Page 39)  
Check the speaker connection cables.

## General

Symptom	Possible solution
---------	-------------------

**Remote control won't work.**

Check whether there is a blocking object between the remote control and TV.  
Make sure your TV is Power On. (In case of normal, LED on the front panel is in Red.)  
Check whether batteries are inserted with proper polarities(+, -).  
When the batteries are worn out, replace with new ones.

**Where does the S-Video cable plug in for audio output?**

Connect the two Audio jacks from the S-Video cable to the left and right ports on the Composite.

**Strange noises are heard.**

Ticking noise during or after watching is caused by the change of ambient environment such as humidity and temperature, which is characterized by plastic products. Strange ticking noise occurs because a signal is suddenly transmitted to the TV panel. So, this is not a malfunction.

**I tried to use the TV screen as a PC monitor but it doesn't work.**

Adjust the resolution referring to the standard signal mode table. Check the specification of your video card installed in your PC. If your video card does not work in supported hardware. Try upgrading the video card's driver.



## Care and Cleaning

### Cabinet Cleaning

Wipe a soft dry cloth.

Do not use inflammables like Benzene or Thinner, or wet clothes.  
Do not scratch the panel of LCD with a fingernail or pointed object.



### Screen Cleaning

Clean the screen with a soft cloth moistened in mild glass detergent and dry with a soft cloth.

Never use any solvent on the screen such as Acetone, Benzene, or Thinner, etc.

### Cleaning Inside

When the inside needs to be cleaned, contact a service center or distribution agent where the item is purchased.

It is recommended cleaning is complete before the rainy season.



## Product Specifications - E425D/E465D

Model		E425D	E465D
Input	S-Video	1(A/V audio common)	1(A/V audio common)
	Video (RCA)	2(Audio included)	2(Audio included)
	Component(Y/Cb/Cr)	2(Audio included)	2(Audio included)
	Antenna	1	1
	PC Connection jack	D-SUB	D-SUB
	Max. resolution	1920 X1080 @ 60 Hz	1920 X 1080 @ 60 Hz
	Audio	L/R	L/R
	HDMI	2	2
	Memory Slot	No	No
Output	Video	1	1
	Audio	2(L/R, SPDIF)	2(L/R, SPDIF)
TV/Video	Analog	NTSC M / FM	NTSC M / FM
	Digital	ATSC	ATSC
	Video system	Component, S-Video, Composite, PC, HDMI	Component, S-Video, Composite, PC, HDMI
Power	Supply	AC 100 - 240 V, 50/60 Hz	AC 100 - 240 V, 50/60 Hz
	Consumption power	200W (Typical )	260W (Typical )
	Stand-by power	< 1W	< 1W
Dimension (W x D x H mm - Stand included)		1057 x350 x 796	1143 x350 x 845
Weigh (Stand included)		32.6 Kg	31.5 Kg
Control type		Remote control, Key control	Remote control, Key control

- The above specifications may be subject to change without prior notice.



## Product Specifications - E426D/E466D

Model		E426D	E466D
Input	S-Video	1(A/V audio common)	1(A/V audio common)
	Video (RCA)	2(Audio included)	2(Audio included)
	Component(Y/Cb/Cr)	2(Audio included)	2(Audio included)
	Antenna	1	1
	PC Connection jack	D-SUB	D-SUB
	Max. resolution	1920 X1080 @ 60 Hz	1920 X 1080 @ 60 Hz
	Audio	L/R	L/R
	HDMI	2	2
Memory Slot	No	No	
Output	Video	1	1
	Audio	2(L/R, SPDIF)	2(L/R, SPDIF)
TV/Video	Analog	NTSC M / FM	NTSC M / FM
	Digital	ATSC	ATSC
	Video system	Component, S-Video, Composite, PC, HDMI	Component, S-Video, Composite, PC, HDMI
Power	Supply	AC 100 - 240 V, 50/60 Hz	AC 100 - 240 V, 50/60 Hz
	Consumption power	200W (Typical )	260W (Typical )
	Stand-by power	< 1W	< 1W
Dimension (W x D x H mm - Stand included)		1237 x310 x 708	1323 x310 x 757
Weigh (Stand included)		32.6 Kg	31.5 Kg
Control type		Remote control, Key control	Remote control, Key control

- The above specifications may be subject to change without prior notice.



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