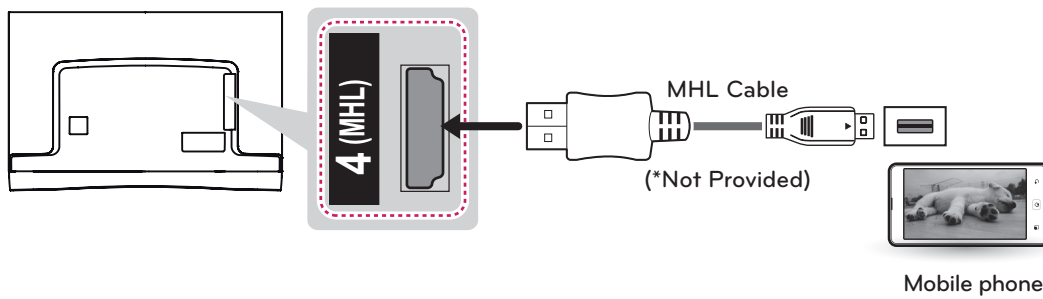


## Connecting to a mobile phone

Mobile High-definition Link (MHL) is an interface for transmitting digital audio/visual signals from mobile phones to television sets.

### ! NOTE

- Connect the mobile phone to the HDMI IN 4 (MHL) port to view the phone screen on the TV.
- This only works with an MHL-enabled phone.
- With some MHL supporting mobile phones, you can use the TV remote to control the phone.
- An MHL passive cable is needed to connect the TV and a mobile phone.
- Remove the MHL cable from the TV when:
  - the MHL function is disabled
  - your mobile device is fully charged in standby mode

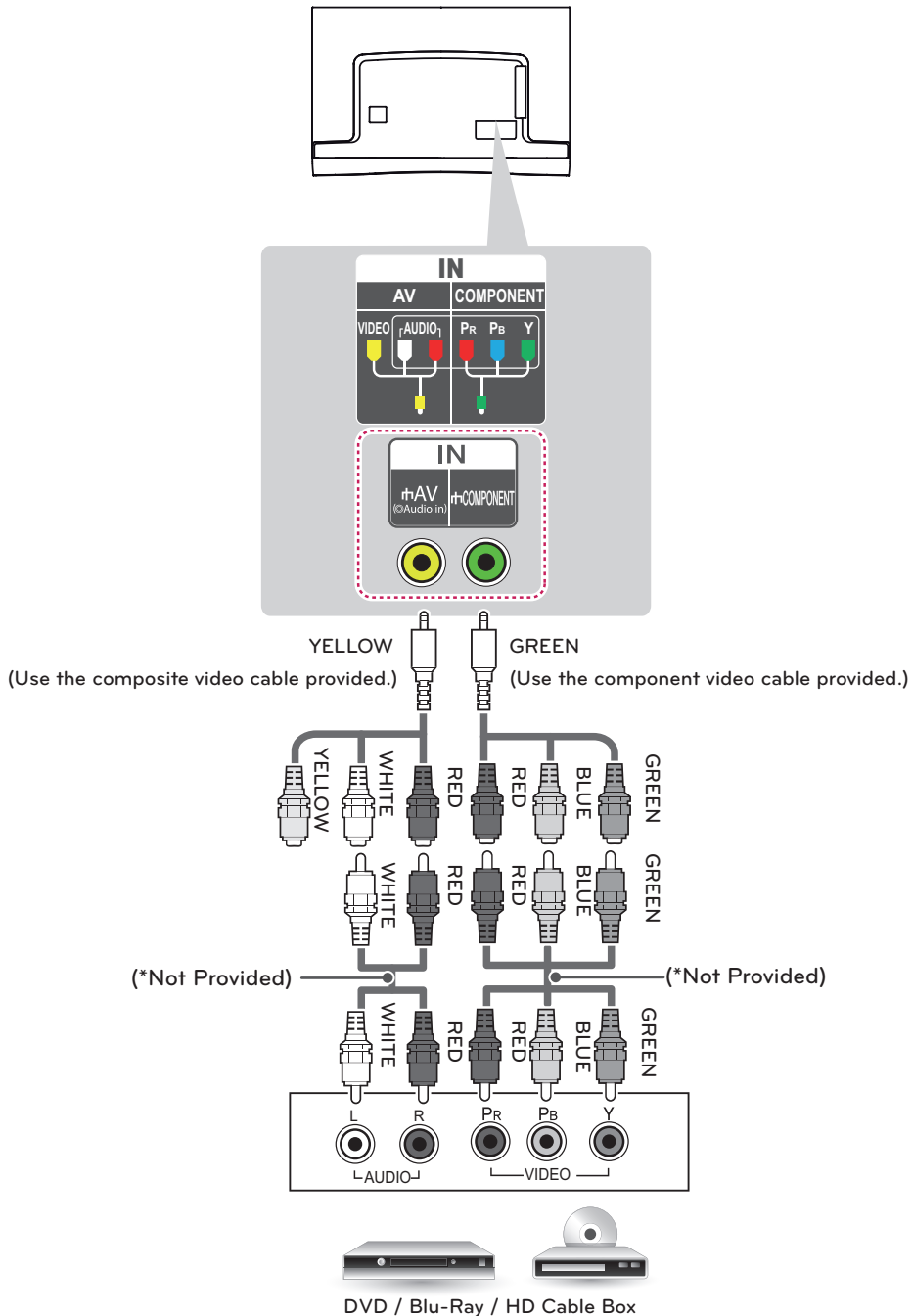


### Component Connection

Transmits analog video and audio signals from an external device to the TV. Connect the external device and the TV with a component cable as shown in the following illustration.

**NOTE**

- If cables are installed incorrectly, it could cause the image to display in black and white or with distorted color.
- Check to ensure the cables are matched with the corresponding color connection.

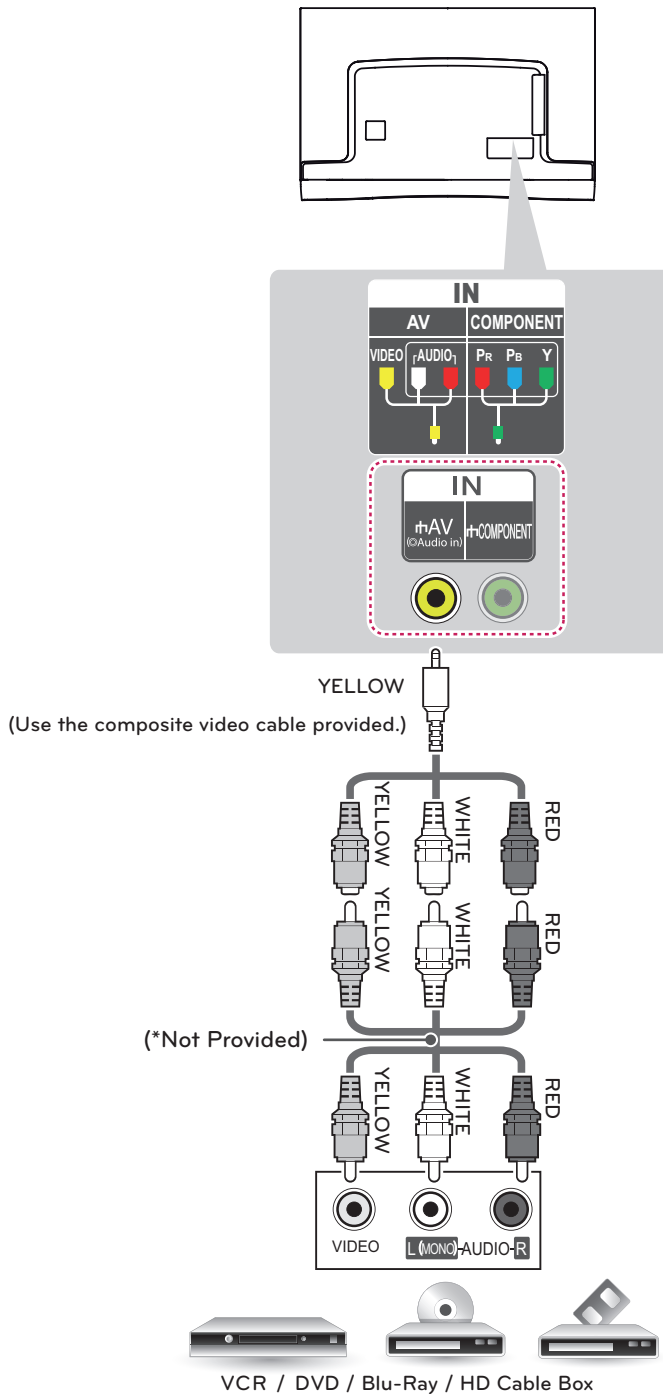


## Composite Connection

Transmits analog video and audio signals from an external device to the TV. Connect the external device and the TV with the composite cable as shown in the following illustration.

**NOTE**

- If you have a mono VCR, connect the audio cable from the VCR to the AUDIO L/MONO jack of the TV.
- Check to ensure the cables are matched with the corresponding color connection.



## Connecting a PC

### NOTE

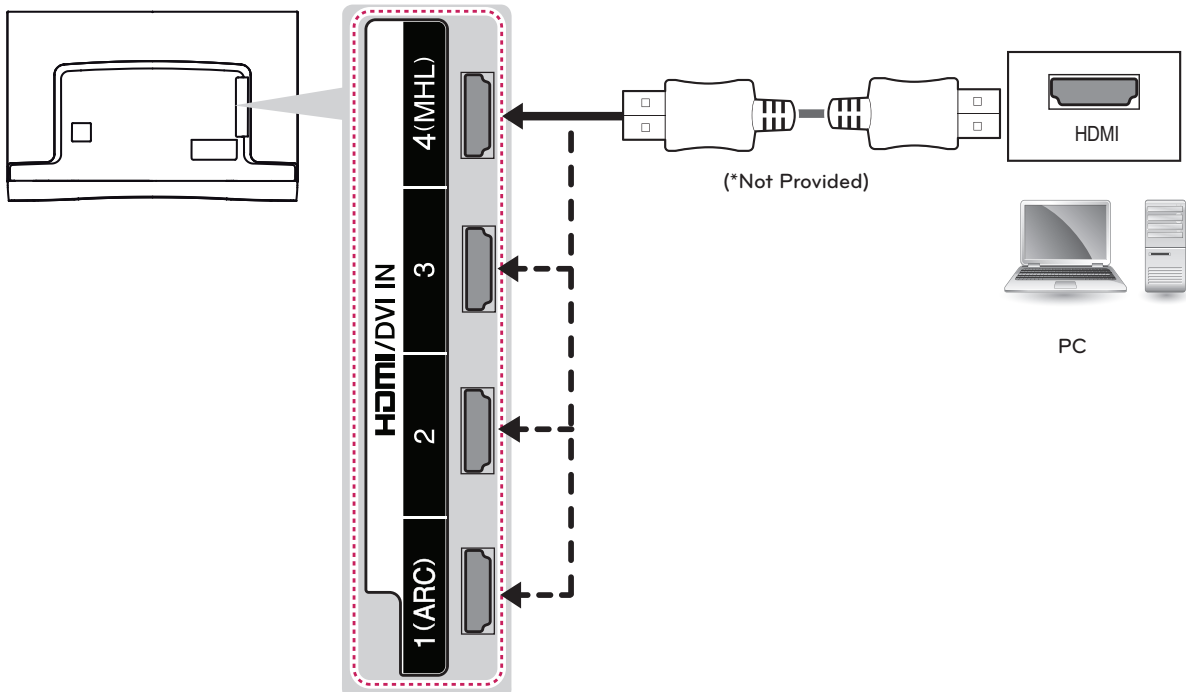
- It is recommended to use an HDMI connection for the best image quality.
- Depending on the graphics card, DOS mode video may not work if a HDMI to DVI Cable is in use.
- In PC mode, there may be noise associated with the resolution, vertical pattern, contrast or brightness. If noise is present, change the PC output to another resolution, change the refresh rate to another rate or adjust the brightness and contrast on the PICTURE menu until the picture is clear.
- The synchronization input form for Horizontal and Vertical frequencies is separate.
- Depending on the graphics card, some resolution settings may not allow the image to be positioned on the screen properly.
- If you are using DVI out from a PC, you have to connect analog audio separately. Refer to the instructions on the next page.
- When using the HDMI/DVI cable, Single link is only supported.

### HDMI Connection or DVI to HDMI Connection

Choose method A or B to make connection.

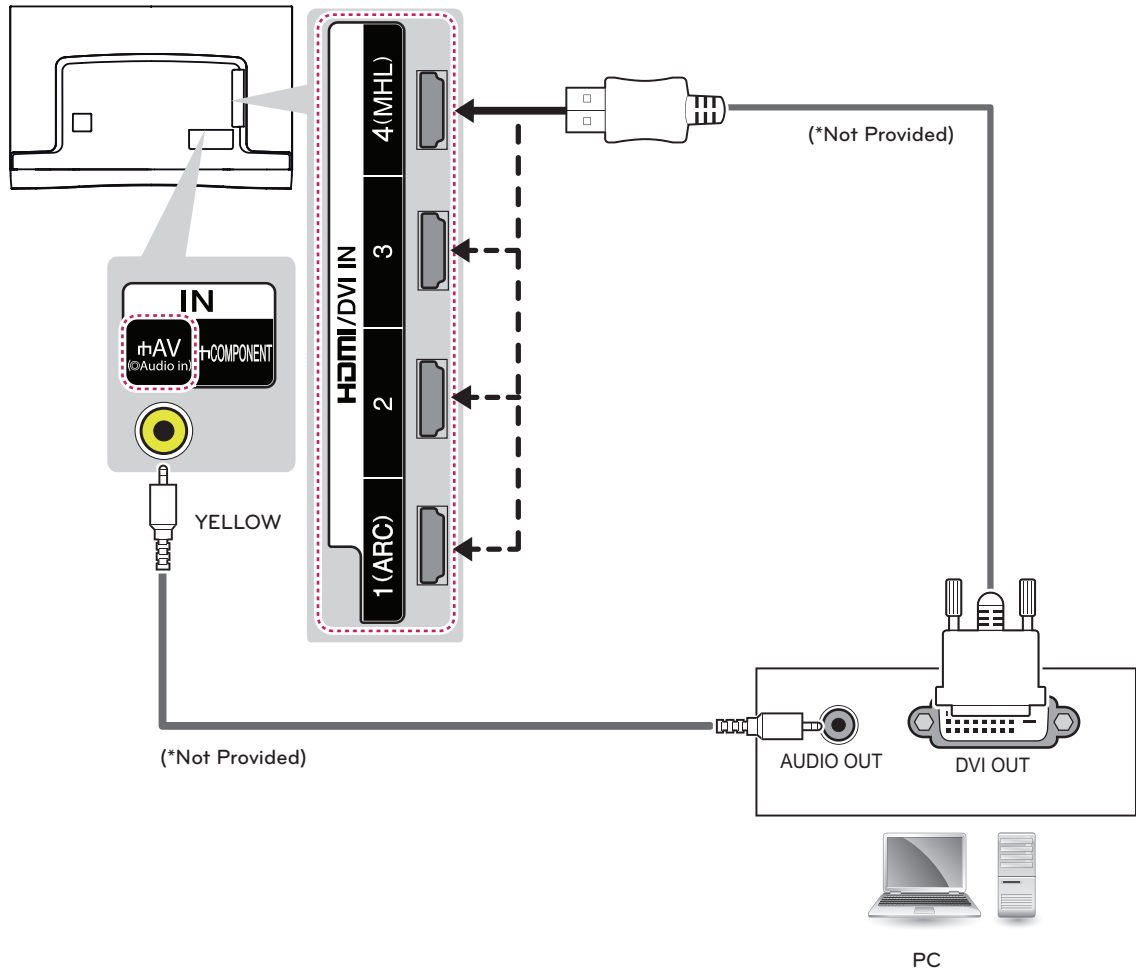
#### Method A: HDMI Connection

Choose any HDMI input port to connect.  
It does not matter which port you use.



Method B: DVI to HDMI Connection

Choose any HDMI input port to connect.  
It does not matter which port you use.



## Connecting to an Audio System

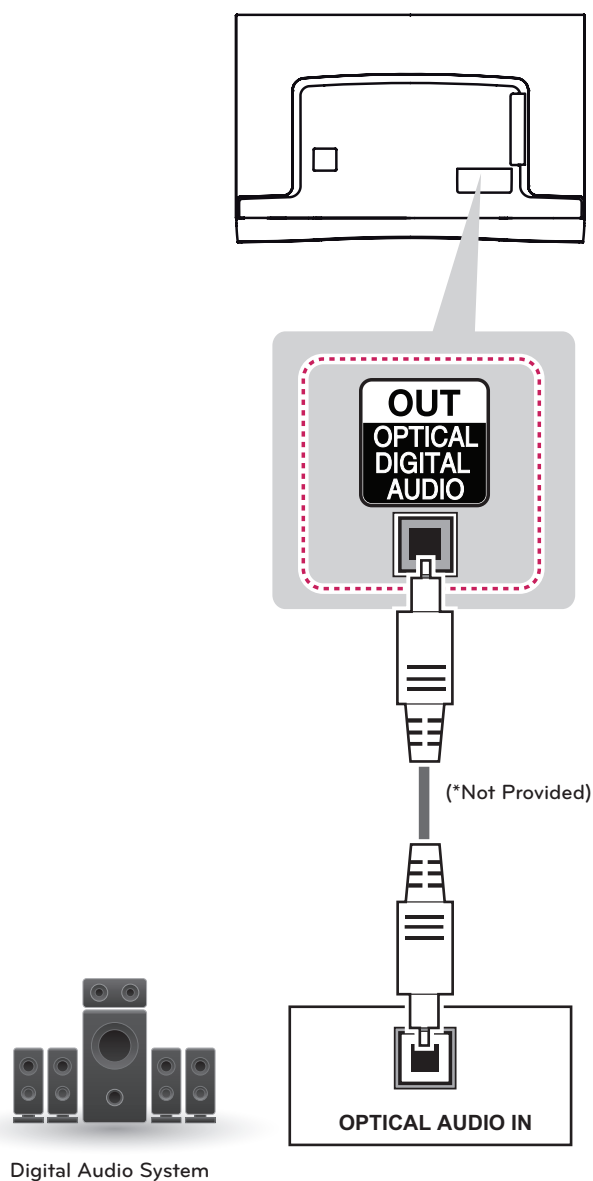
You can use an optional external audio system instead of the built-in speaker.

### Digital Optical Audio Connection

Transmits a digital audio signal from the TV to an external device. Connect the external device and the TV with the optical audio cable as shown in the following illustration.

**NOTE**

- Do not look into the optical output port. Looking at the laser beam may damage your vision.
- Audio with ACP (Audio Copy Protection) function may block digital audio output.

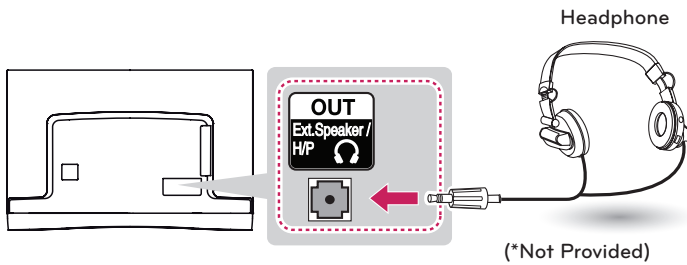


## Connecting Headphones

Listening to sound with headphones

### NOTE

- Do not use headsets (earphones) at high volume or for a long time. Otherwise, it may cause damage to your hearing.
- AUDIO menu options are disabled when headphones are connected.
- When changing AV MODE with a headphone connected, the change is applied to video but not to audio.
- Optical Digital Audio Out is not available when connecting a headphone.
- Headphone impedance: 16 Ω
- Max audio output: 0.624 mW to 1.04 mW
- Headphone jack size: 0.35 cm (0.13 inches)



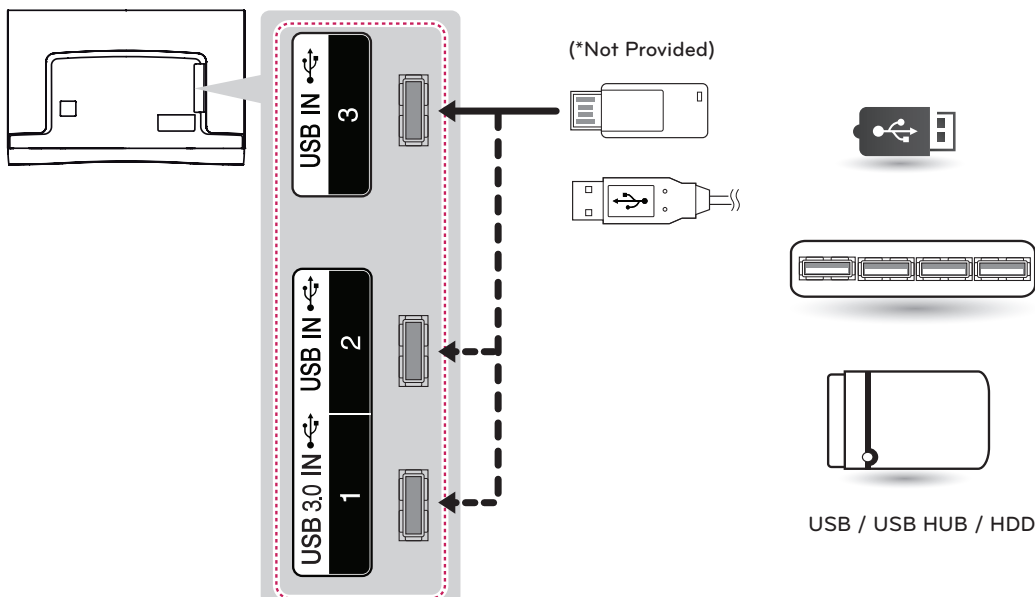
## Connecting a USB Device

Connect a USB storage device such as USB flash memory, external hard drive, or a USB memory card reader to the TV and access the Smart Share menu to use various multimedia files.

### NOTE

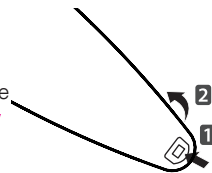
- Some USB Hubs may not work. If a USB device connected using a USB Hub is not detected, connect it to the USB port on the TV directly.

Choose any USB input port to connect.  
It does not matter which port you use.



## MAGIC REMOTE CONTROL FUNCTIONS

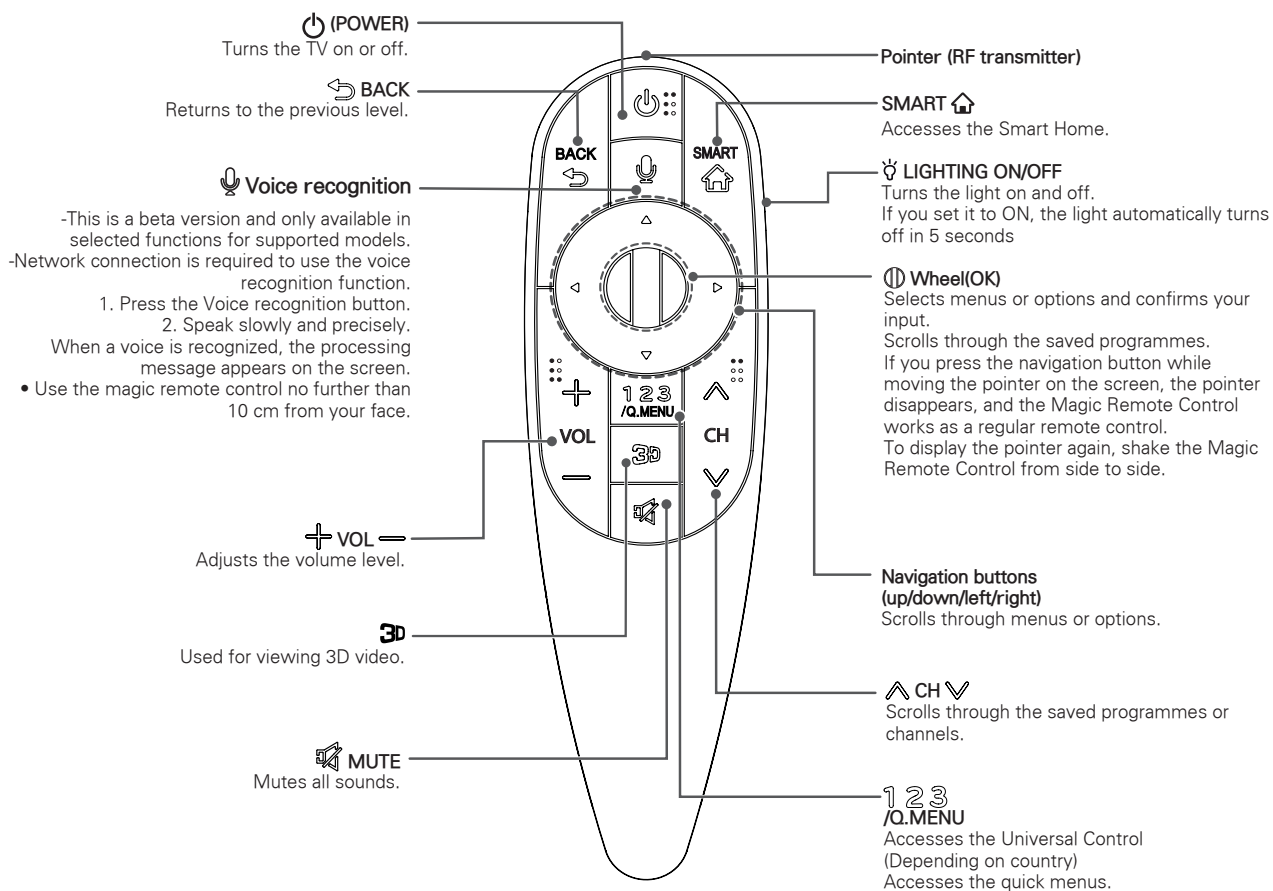
When the message "Magic remote control battery is low. Change the battery." is displayed, replace the battery. To install batteries, open the battery cover, replace batteries (1.5 V AA) matching ⊕ and ⊖ ends to the label inside the compartment, and close the battery cover. **Failure to match the correct polarities of the battery may cause the battery to burst or leak, resulting in fire, personal injury, or ambient pollution.** Be sure to point the remote control at the remote control sensor on the TV. To remove the batteries, perform the installation actions in reverse.



### CAUTION

- Do not mix old and new batteries, as this may damage the remote control.

This remote uses infrared light. When in use, it should be pointed in the direction of the TV's remote sensor.








## Registering Magic Remote Control

The Magic Remote Control operates by pairing with your TV. Please register the remote as follows.


### How to register the Magic Remote Control

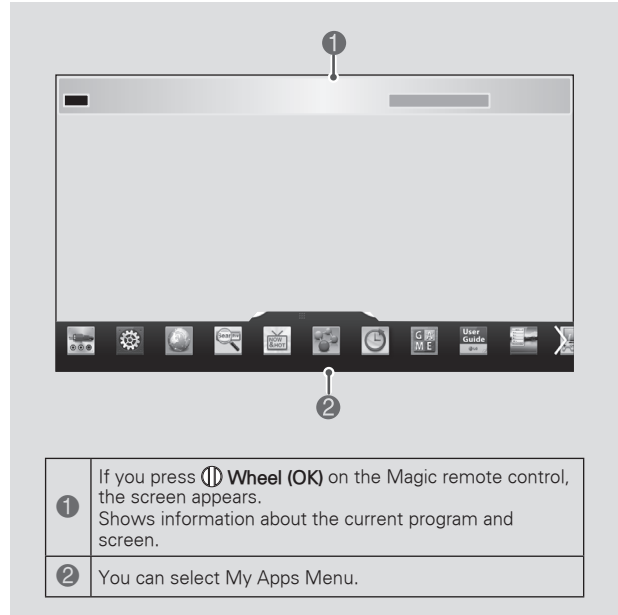
 <b>(Wheel)</b>	<p>To register automatically, turn the TV on and press the <b>Wheel (OK)</b>. When registration is completed, the completion message appears on the screen.</p> <p>If registration fails, turn the TV off and back on, then press the <b>Wheel (OK)</b> to complete registration.</p>
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### How to Re-register the Magic Remote Control

<b>BACK</b> 	<p>1 Press and hold the <b>BACK</b> and <b>SMART</b> buttons together for 5 seconds to reset, then register it by following "How to register the Magic remote control" above.</p>
<b>SMART</b> 	<p>2 To re-register the Magic remote control, press and hold the <b>BACK</b> button for 5 seconds toward the TV.</p>

## How to use Magic Remote Control

	<p>1 You can move the pointer by aiming the Pointer Receiver of the remote control at your TV then move it left, right, up or down.</p> <p>» If the pointer does not work properly leave the remote control for 10 seconds then use it again.</p> <p>2 If the pointer disappears, move the remote control slightly to left or right. Then, it will automatically appear on the screen.</p> <p>» If the pointer has not been used for a certain period of time, it will disappear.</p>
---	---



## Precautions to Take when Using the Magic Remote Control

- Use the Magic remote control within the maximum communication distance (10 m, 32.8 ft). Using the remote control beyond this distance, or with an object obstructing it, may cause a communication failure.
- A communication failure may occur due to nearby devices. Electrical devices such as a microwave oven or wireless LAN product may cause interference, as these use the same bandwidth (2.4 GHz) as the Magic remote control.
- The Magic remote control may be damaged or may malfunction if it is dropped or receives a heavy impact.
- Take care not to bump into nearby furniture or other people when using the Magic remote control.
- Manufacturer and installer cannot provide service related to human safety as the applicable wireless device has possibility of electric wave interference.
- It is recommended that an Access Point (AP) be located more than 1 m (3.28 ft) away from the TV. If the AP is installed closer than 1 m (3.28 ft), the Magic remote control may not perform as expected due to frequency interference.

## WATCHING TV

### Turning the TV on for the first time

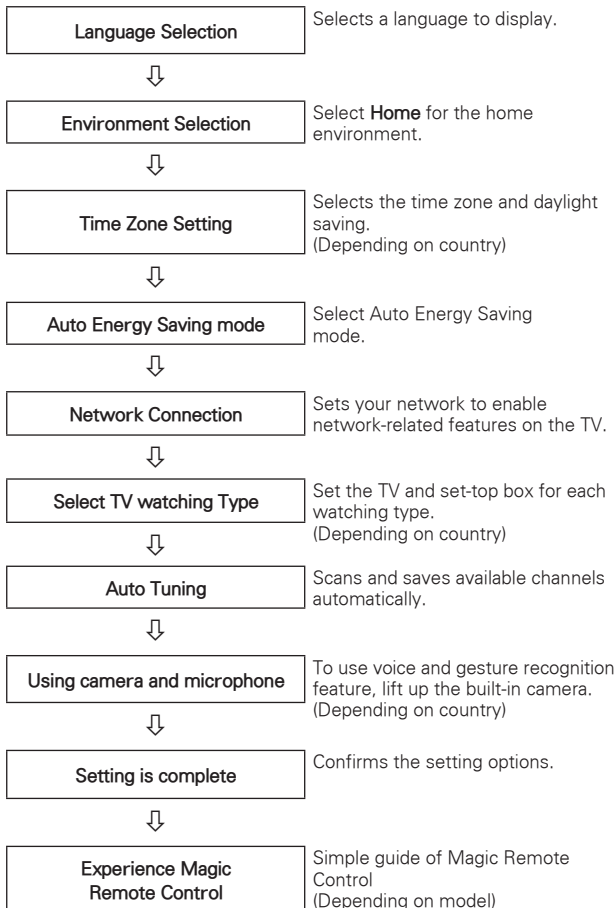
When you turn the TV on for the first time, the Initial setting screen appears. Select a language and customize the basic settings.

- 1 Connect the power cord to a power outlet.
- 2 In Standby mode, press the power button on the remote control to turn the TV on.  
The Initial setting screen appears if you turn the TV on for the first time.

#### ! NOTE

- You can also access **Initial Setting** by accessing **OPTION** in the main menu.

- 3 Follow the on-screen instructions to customize your TV settings according to your preferences.



#### ! NOTE

- Select **Home** when prompted. **Store** mode puts the TV in demo mode.
- If you select **Store**, the any customized settings will switch back to the default settings of **Store** in 5 minutes.
- Power Indicator feature is disabled in Store Demo mode.

- 4 When the basic settings are complete, press the **Wheel (OK)**.


#### ! NOTE

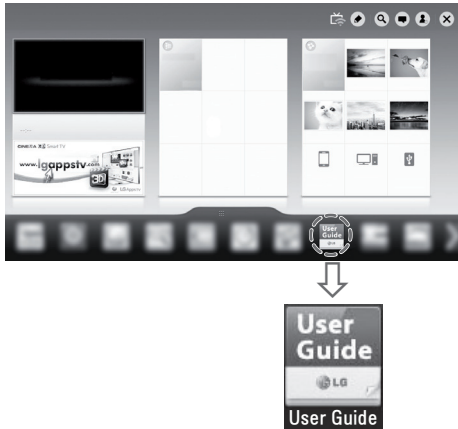
- If you do not complete the Initial setting, it will appear whenever the TV turns on.
- Disconnect the power cord from the power outlet when you do not use the TV for a long period of time.



- 5 To turn the TV off, press the power button on the remote control.



# USING THE USER GUIDE

User Guide allows you to easily access detailed TV information.

- 1 Press **SMART**  button to access the Smart Home menus.
- 2 Select **User Guide** and press the **Wheel (OK)** button.



1	Shows the description of the selected menu. You can use  /  to move between pages.
2	Moves to the selected menu directly from the User Guide.

1	Shows the video you were watching.
2	Guide categories.
3	List of topics in the current category. You can use  /  button to move between pages.
4	An index of key words present in the User Guide.
5	Provides the detailed information on the functions of LG Smart TV when the Internet is connected. (It may not be available depending on the country/ language.)

(Depending on country)

## SPECIFICATIONS

Product specifications may be changed without prior notice due to upgrade of product functions.

<b>Power requirement</b>	AC 100 - 240 V ~ 50 / 60 Hz	
<b>Television System</b>	NTSC-M, ATSC, 64 & 256 QAM	
<b>Program Coverage</b>	VHF 2-13, UHF 14-69, CATV 1-135, DTV 2-69, CADTV 1-135	
<b>External Antenna Impedance</b>	75 $\Omega$	
<b>Environment condition</b>	Operating Temperature	0 °C ~ 40 °C (32 °F ~ 104 °F)
	Operating Humidity	Less than 80 %
	Storage Temperature	-20 °C ~ 60 °C (-4 °F ~ 140 °F)
	Storage Humidity	Less than 85 %

MODELS		55EA8800 (55EA8800 - UA)
Dimensions (W x H x D)	With stand	1,230 x 790 x 233 (mm)
		48.4 x 31.1 x 9.1 (inches)
	Without stand	1,230 x 715 x 25.4 (mm)
		48.4 x 28.1 x 1 (inches)
Weight	With stand	18.0 Kg (39.6 lbs)
	Without stand	13.2 Kg (29.1 lbs)
Current Value / Power consumption		TBD

## HDMI (DTV) supported mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
720 x 480	31.469 31.50	59.94 60.00
1280 x 720	44.96 45.00	59.94 60.00
1920 x 1080	33.72 33.75 26.97 27.000 33.716 33.75 67.43 67.500	59.94 60.00 23.97 24.000 29.976 30.00 59.94 60

## Component supported mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
720 x 480i	15.73 15.73	59.94 60.00
720 x 480p	31.47 31.50	59.94 60
1280 x 720p	44.96 45.00	59.94 60.00
1920 x 1080i	33.72 33.75	59.94 60.00
1920 x 1080p	26.97 27.00 33.71 33.75 67.432 67.500	23.976 24.00 29.97 30.00 59.94 60.00

## Component port connecting information

Component ports on the TV	Y	PB	PR

Video output ports on DVD player	Y	PB	PR
	Y	B-Y	R-Y
	Y	Cb	Cr
	Y	Pb	Pr

## HDMI (PC) supported mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
640 x 480	31.469	59.94
800 x 600	37.879	60.31
1024 x 768	48.363	60.00
1152 x 864	54.348	60.053
1360 x 768	47.712	60.015
1280 x 1024	63.981	60.020
1920 x 1080	67.5	60.00

**Wireless LAN module (WN8122E1) specification**

<b>Standard</b>	IEEE802.11a/b/g/n
<b>Frequency Range</b>	2400 to 2483.5 MHz 5725 to 5850 MHz
<b>Output Power (Max.)</b>	802.11a: 16.5 dBm 802.11b: 16 dBm 802.11g: 15.5 dBm 802.11n - 2.4GHz: 15.5 dBm 802.11n - 5GHz: 16.5 dBm

- Because band channel used by the country could be different, the user can not change or adjust the operating frequency and this product is set for the regional frequency table.
- Contains FCC ID: BEJWN8122E1  
Contains IC: 2703H-WN8122E1

**Bluetooth module (BM-LDS401) specification**

<b>Standard</b>	Bluetooth Version 3.0
<b>Frequency Range</b>	2400 ~ 2483.5 MHz
<b>Output Power (Max.)</b>	10 dBm or lower

- Contains FCC ID: BEJLDS401  
Contains IC: 2703H-LDS401

## 3D supported mode

- Video, which is input as below media contents is switched into the 3D screen automatically.

3D supported mode automatically						
Input	Signal	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Playable 3D video format		
HDMI	1080p	54.00	24	F/P, L/A		
		67.50	30			
		27.00	24	S/S, T&B, S/S Full		
		33.75	30			
		67.50	60			
	1080i	67.50	60	F/P, F/A		
		33.75		S/S, T&B, S/S Full		
	720p	90.00		F/P, L/A		
		45.00		S/S, T&B, S/S Full		
	480p	63.00		F/P, L/A		
		31.50		T/B, S/S, S/S Full		
	USB	1080p		33.75	30	S/S, T&B, C/B, MPO(Photo)
	DLNA					

S/S : Side by Side, S/S Full : Side by Side Full, S/S Half : Side by Side Half,

T/B : Top & Bottom, F/P : Frame Packing, F/A : Field Alternative, L/A : Line Alternative, C/B : Checker Board,

R/I : Row Interleaving, C/I : Column Interleaving, F/S : Single Frame Sequential

3D supported mode manually		
Input	Signal	Playable 3D video format
TV	-	2D to 3D, S/S, T&B
ATV(CVBS)	-	
Component	-	
HDMI-PC	1080p	2D to 3D, S/S, T&B, C/B, R/I, C/I (60Hz : F/S)
	Others	2D to 3D, S/S, T&B
HDMI-DTV	Interlace	2D to 3D, S/S, T&B
	Progressive	2D to 3D, S/S, T&B, C/B, R/I, C/I (60Hz : F/S )
USB / DLNA (Movie)	704 x 480p (Over)	2D to 3D, S/S, T&B, C/B, R/I, C/I (60Hz : F/S )
	704 x 480i (Over)	2D to 3D, S/S, T&B
	704 x 480 (Under)	2D to 3D
USB / DLNA (Photo)	320 x 240 (Over)	2D to 3D, S/S, T&B
	320 x 240 (Under)	2D to 3D
Miracast™ / WiDi	1024 x 768p	2D to 3D, S/S, T&B
	1280 x 720p	
	1920 x 1080p	
	Others	2D to 3D

## EXTERNAL CONTROL DEVICE SETUP

To obtain the external control device setup information, please visit '[www.lg.com](http://www.lg.com)'.



# MAINTENANCE

## Cleaning Your TV

Clean your TV regularly to keep it at peak performance and to extend the product lifespan.

### ⚠ CAUTION

- Before Cleaning, turn the power off and disconnect the power cord and all other cables.
- When the TV is left unattended or unused for a long time, disconnect the power cord from the wall outlet to prevent possible damage from lightning or power surges.

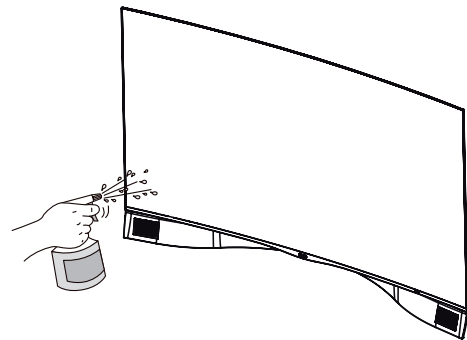
## Screen, frame, cabinet and stand

To remove dust or light dirt, wipe the surface with a dry, clean, and soft cloth.

To remove major dirt, wipe the surface with a soft cloth dampened in clean water or a diluted mild detergent. Then wipe immediately with a dry cloth.

### ⚠ CAUTION

- Do not push, rub, or hit the surface with your fingernail or a sharp object, as this may result in scratches on the screen and image distortions.
- Do not use any chemicals, such as waxes, benzene, alcohol, thinners, insecticides, air fresheners, lubricants, as these may damage the screen's finish and cause discoloration.
- Do not spray liquid onto the surface. If water enters the TV, it may result in fire, electric shock, or malfunction.
- When cleaning your TV, do not spray water directly on the left and right speakers at the bottom of the TV.
- Do not let any water enter your TV and keep it dry.
  - » Otherwise, this may cause damage to the product, such as corrosion.



## Power cord

Remove the accumulated dust or dirt on the power cord regularly.

## TROUBLESHOOTING

Problem	Solution
Cannot control the TV with the remote control.	<ul style="list-style-type: none"> <li>• Check the remote control sensor on the product and try again.</li> <li>• Check if there is any obstacle between the product and the remote control.</li> <li>• Check if the batteries are still working and properly installed (⊕ to ⊕, ⊖ to ⊖).</li> </ul>
No image display and no sound is produced.	<ul style="list-style-type: none"> <li>• Check if the product is turned on.</li> <li>• Check if the power cord is connected to a wall outlet.</li> <li>• Check if there is a problem in the wall outlet by connecting other products.</li> </ul>
The TV turns off suddenly.	<ul style="list-style-type: none"> <li>• Check the power control settings. The power supply may be interrupted.</li> <li>• Check if the Auto sleep feature is activated in the Time settings.</li> <li>• If there is no signal while the TV is on, the TV will turn off automatically after 15 minutes of inactivity.</li> </ul>
If Skype doesn't start	<ul style="list-style-type: none"> <li>• Check whether the Video Call Camera is properly connected to the USB port on the TV.</li> <li>• Check the network connection status.</li> </ul>
If the Notification Window is not displayed when a call is received	<ul style="list-style-type: none"> <li>• Check that your status is not set as "Do not disturb".</li> <li>• When using certain TV functions, incoming calls can't be received (e.g. during a software update, etc.).</li> <li>• Check 'Privacy Settings' is "Allow calls from people in my contact list only".</li> </ul>
If there's echo (e.g. when you hear your own voice played back through the speakers)	<ul style="list-style-type: none"> <li>• Change the home theater audio setting to stereo rather than surround.</li> <li>• Reduce the speaker volume.</li> <li>• Too much echo in the room can decrease audio quality.</li> <li>• Test microphone using the 'Echo / Sound Test Service'.</li> </ul>
If you're not able to receive any video or if it is of low quality	<ul style="list-style-type: none"> <li>• Internet or network congestion can degrade video quality.</li> <li>• Using wireless can also degrade video quality. We recommend using a wired internet connection.</li> <li>• Screen quality can decrease when using Zoom-In. We recommend you use minimum zoom during video calls.</li> <li>• Check whether the call quality information is marked as "critical". If this is the case, video quality can be degraded.</li> </ul>
If the call ends abruptly	<ul style="list-style-type: none"> <li>• When certain TV functions are activated, the call may be disconnected. (e.g. Sleep timer, etc.)</li> <li>• Do not unplug the Video Call Camera during a call.</li> </ul>
If the Skype menu does not appear on the Premium menu	<ul style="list-style-type: none"> <li>• Connect the camera to your TV, then update the software. For details about how to update the software, refer to your TV manual.</li> </ul>
Other issues	<ul style="list-style-type: none"> <li>• Issues may arise from network congestion or problems with the Skype network.</li> <li>• For further inquiries about Skype functions, visit <a href="http://www.skype.com">www.skype.com</a>.</li> </ul>





# CHILD SAFETY:

It Makes A Difference How and Where You Use Your Flat Panel Display

**Congratulations on your purchase! As you enjoy your new product, please keep these safety tips in mind:**



## THE ISSUE

- The home theater entertainment experience is a growing trend and larger flat panel displays are popular purchases. However, flat panel displays are not always supported on the proper stands or installed according to the manufacturer's recommendations.
- Flat panel displays that are inappropriately situated on dressers, bookcases, shelves, desks, speakers, chests or carts may fall over and cause injury.

## THIS MANUFACTURER CARES!

- The consumer electronics industry is committed to making home entertainment enjoyable and safe.

## TUNE INTO SAFETY

- One size does NOT fit all. Follow the manufacturer's recommendations for the safe installation and use of your flat panel display.
- Carefully read and understand all enclosed instructions for proper use of this product.
- Don't allow children to climb on or play with furniture and television sets.
- Don't allow place flat panel displays on furniture that can easily be used as steps, such as a chest of drawers.
- Remember that children can become excited while watching a program, especially on a "larger than life" flat panel display. Care should be taken to place or install the display where it cannot be pushed, pulled over, or knocked down.
- Care should be taken to route all cords and cables connected to the flat panel display so that they cannot be pulled or grabbed by curious children.

## WALL MOUNTING: IF YOU DECIDE TO WALL MOUNT YOUR FLAT PANEL DISPLAY, ALWAYS:

- Use a mount that has been recommended by the display manufacturer and/or listed by an independent laboratory (such as UL, CSA, ETL).
- Follow all instructions supplied by the display and wall mount manufacturers.
- If you have any doubts about your ability to safely install your flat panel display, contact your retailer about professional installation.
- Make sure that the wall where you are mounting the display is appropriate. Some wall mounts are not designed to be mounted to walls with steel studs or old cinder block construction. If you are unsure, contact a professional installer.
- A minimum of two people are required for installation. Flat panel displays can be heavy



## ) **Federal Communications Commission(FCC) Statement**

You are cautioned that changes or modifications not expressly approved by the part responsible

for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the

interference by one or more of the following measures:

- . 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 help.

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- 1) this device may not cause harmful interference, and
- 2) this device must accept any interference received, including interference that may cause undesired operation of the device.

### **Indoor use only**

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

**Caution: Exposure to Radio Frequency Radiation.**

**1. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.**

**2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.**



The model and serial number of the TV is located on the back and one side of the TV.

Record it below should you ever need service.

MODEL \_\_\_\_\_

SERIAL \_\_\_\_\_