LG
Life's Good

LCD TV
OWNER'S MANUAL

26LG3DCH
32LG3DC
32LG3DCH

Please read this manual carefully before operating your set.
Retain it for future reference.
Record model number and serial number of the set.
See the label attached on the back cover and quote this information to your dealer
when you require service.

ENERGY STAR is a set of power-saving guidelines issued by the U.S. Environmental Protection Agency(EPA).

ENERGY STAR

As an ENERGY STAR Partner LGE U. S. A.,Inc. has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

(Only 32LG3DC model)

P/NO : SAC30708026 (0804-REV01)

www.lgcommercial.com

WARNING / CAUTION

WARNING / CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

TO REDUCE THE RISK OF ELECTRIC SHOCK
DO NOT REMOVE COVER (OR BACK). NO
USER SERVICEABLE PARTS INSIDE. REFER TO
QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING/CAUTION

TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

NOTE TO CABLE/TV INSTALLER

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

WARNING / CAUTION

To prevent fire or shock hazards, do not expose this product to rain or moisture.

FCC NOTICE

Class B digital device

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 to 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.

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

CAUTION

Do not attempt to modify this product in any way without written authorization from LG Electronics. Unauthorized modification could void the user's authority to operate this product

SAFETY INSTRUCTIONS

## IMPORTANT SAFETY INSTRUCTIONS

Important safety instructions shall be provided with each apparatus. This information shall be given in a separate booklet or sheet, or be located before any operating instructions in an instruction for installation for use and supplied with the apparatus.

This information shall be given in a language acceptable to the country where the apparatus is intended to be used.

The important safety instructions shall be entitled "Important Safety Instructions". The following safety instructions shall be included where applicable, and, when used, shall be verbatim as follows. Additional safety information may be included by adding statements after the end of the following safety instruction list. At the manufacturer's option, a picture or drawing that illustrates the intent of a specific safety instruction may be placed immediately adjacent to that safety instruction:

Read these instructions.
Keep these instructions.
Heed all warnings.
Follow all instructions.

1 Do not use this apparatus near water.
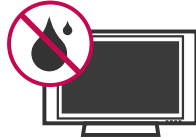
2 Clean only with dry cloth.

3 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

4 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers)that produce heat.

5 When mounting a TV it on the wall, make sure not to install TV by the hanging power and signal cables on the back of the TV.

6 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong, The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

7 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

8 Only use attachments/accessories specified by the manufacturer.

9 Unplug this apparatus during lighting storms or when unused for long periods of time.
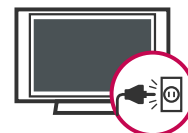
10 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
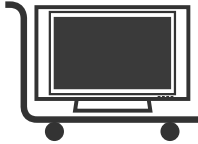
S3125A

11 Never touch this apparatus or antenna during a thunder or lighting storm.

12 Do not allow a impact shock or any objects to fall into the product, and do not drop onto the screen with something.

13 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has exposed to rain or moisture, does not operate normally, or has been dropped.

14 CAUTION concerning the Power Cord :
Most appliances recommend they be placed upon a dedicated circuit; that is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain.

Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use

of the appliance, and have the cord replaced with an exact replacement part by an authorized servicer. Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance.

15 Outdoor use marking :
WARNING - To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

16 Wet Location Marking : Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on or over apparatus.

17 GROUNDING
Ensure that you connect the earth ground wire to prevent possible electric shock. If grounding methods are not possible, have a qualified electrician install a separate circuit breaker.
Do not try to ground the unit by connecting it to telephone wires, lightening rods, or gas pipes.

Power Supply

Short-circuit Breaker
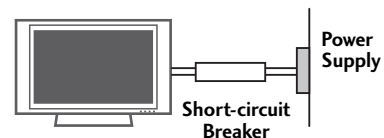
18 DISCONNECTING DEVICE FROM MAINS
Mains plug is the disconnecting device. The plug must remain readily operable.

CONTENTS

SOUND & LANGUAGE CONTROL

TIME SETTING

PARENTAL CONTROL / RATINGS

APPENDIX

FEATURE OF THIS TV

XD ENGINE™ LG's own special digital image generator, consisting of a full digital image processor, six different main picture quality factors.

HDTV High-definition television. High-resolution digital television broadcast and playback system composed of roughly a million or more pixels, 16:9 aspect-ratio screens, and AC3 digital audio. A subset of digital television, HDTV formats include 1080i and 720p resolutions.

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

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

PREPERATION

ACCESSORIES

Ensure that the following accessories are included with your TV. If an accessory is missing, please contact the dealer where you purchased the TV.

The accessories included may differ from the images below.
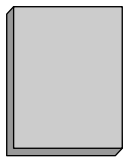
Owner's Manual

CD Manual
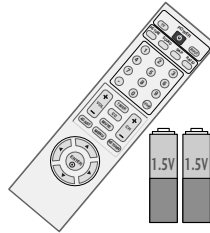
Remote Control,
Batteries
(only 32LG3DC model)

Power Cord

x 4   x 4

Bolts for stand assembly
(Refer to P.11)
(only 32LG3DC model)
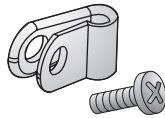
Protective Bracket
and Bolt for Power
Cord
(Refer to P.12)
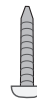
Screw for stand fixing
(Refer to P.13)
(only 32LG3DC model)
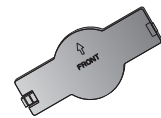
Protection Cover
(Refer to P.14)

Optional Installer Remote Control for Model No. Series 26/32LG3DCH

Shown herein is an optional Installer remote control available for the 26/32LG3DCH models only. The installer remote control is NOT included with the TV.

Polishing Cloth
(This feature is not available for all models.)

* Wipe spots on the exterior only with the polishing cloth.

* Do not wipe roughly when removing stain. Please be cautions of that excessive pressure may cause scratch or discoloration.

Option Extras
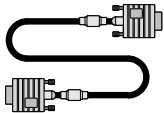
D-sub 15 pin Cable

When using the VGA (D-sub 15 pin cable) PC connection, the user must use shielded signal interface cables with ferrite cores to maintain standards compliance.

FRONT PANEL INFORMATION

▪ Image shown may differ from your TV.

▪ **NOTE**: If your TV has a protection tape attached, remove the tape.
And then wipe the TV with a cloth (If a polishing cloth is included with your TV, use it).

Stand (only 32LG3DC model)
:This feature is not available for all models

CHANNEL(+, -) Buttons

CH

VOLUME (+, -) Buttons

VOL

32LG3DC model

ENTER

ENTER Button

MENU

MENU Button

INPUT

INPUT Button

Power/Standby Indicator
Illuminates red in standby mode.
Illuminates blue when the set is switched on.

⏻/I

Remote Control Sensor

POWER Button

26/32LG3DCH model

Power/Standby Indicator
Illuminates red in standby mode.
Illuminates green when the set is switched on.

⏻/I

Remote Control Sensor

POWER Button

8

BACK PANEL INFORMATION

■ Image shown may differ from your TV.

⑫

⑪

H/P

AUDIO **R**

L/MONO

VIDEO

❶

AV IN 2

ANTENNA IN   M.P.I.

⑬   ⑭

④   ⑮ (only 26/32LG3DCH model)

UPDATE ●   ● RESET

② ③   ⑤
HDMI/DVI IN   USB IN   RS-232C IN
SERVUCE ONLY (SERVICE ONLY)

PILLOW   NORMAL
SPEAKER   SPEAKER

RGB IN (PC)

R - AUDIO - L (MONO)   VIDEO

S-VIDEO   PILLOW
                                SPEAKER

AV IN 1   SPEAKER SWITCH

①   ⑥

⑧

⑦ COMPONENT IN

Y   PB   PR   Ⓛ   Ⓡ   AUDIO IN   REMOTE   SPEAKER OUT
VIDEO   AUDIO   (RGB/DVI) CONTROL OUT   8Ω

⑨   ⑩

① AV (Audio/Video) IN
Connect audio/video output from an external device to these jacks.
S-VIDEO
Connect S-Video out from an S-VIDEO device.

② HDMI/DVI IN
Digital Connection. Supports HD video and Digital audio.
Accepts DVI video using an adapter or HDMI to DVI cable (not included)

③ USB IN SERVICE ONLY
Used for software updates.

④ UPDATE / RESET

⑤ RS-232C IN (SERVICE ONLY)
Used by third party devices.

⑥ RGB IN (PC)
Connect the output from a PC. Connect over-the air signals to this jack.

⑦ COMPONENT IN
Connect a component video/audio device to these jacks.

⑧ AUDIO IN (RGB/DVI)
Connect the audio from a PC or DTV.

⑨ REMOTE CONTROL OUT

⑩ SPEAKER OUT 8Ω

⑪ H/P
Plug the headphone into the headphone socket.

⑫ Power Cord Socket
For operation with AC power.
Caution: Never attempt to operate the TV on DC power.

⑬ ANTENNA IN
Connect over-the air signals to this jack.

⑭ M.P. I.

⑮ PILLOW SPEAKER (only 26/32LG3DCH model)
Used to connect to pillow speaker.
SPEAKER SWITCH (only 26/32LG3DCH model)
Used to select the speaker output switch.
Note: If Pillow Speaker is selected, no Sound will be heard from TV speakers.
Switch (NORMAL SPEAKER or PILLOW SPEAKER.)

STAND INSTALLATION (only 32LG3DC model)

■ Image shown may differ from your TV.

■ When assembling the desk type stand, check whether the bolt is fully tightened. (If not tightened fully, the product can tilt forward after the product installation.) If you tighten the bolt with excessive force, the bolt can deviate from abrasion of the tightening part of the bolt.

1 Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.
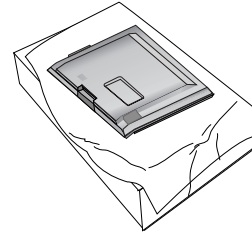
2 Assemble the parts of the **STAND BODY** with **COVER BASE** of the TV. Assemble the TV as shown.

STAND BODY

COVER BASE
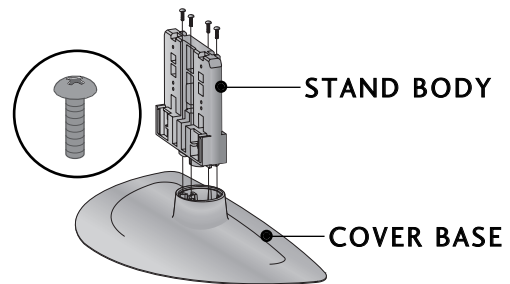
3 Assemble the TV as shown.
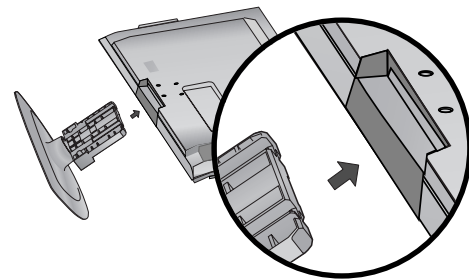
4 Fix the 4 bolts securely using the holes in the back of the TV.
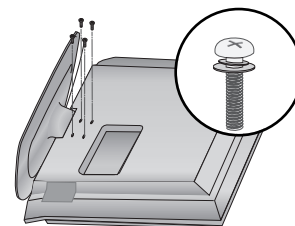
PREPARATION

CABLE MANAGEMENT

■ Image shown may differ from your TV.

1 Connect the cables as necessary.

To connect additional equipment, see the **EXTERNAL EQUIPMENT SETUP** section. Secure the power cable with the **PROTECTIVE BRACKET** and **the Bolt as shown. It will help prevent the power cable from being removed by accident.**

PROTECTIVE BRACKET
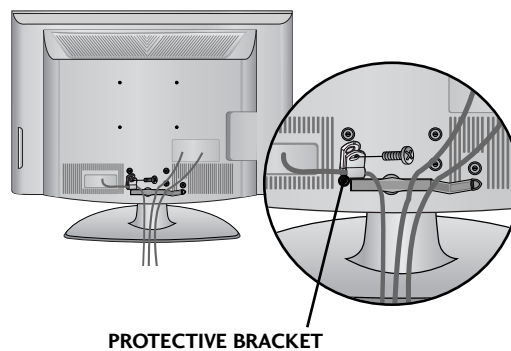
2 Install the **CABLE MANAGEMENT CLIP** as shown.

CABLE MANAGEMENT CLIP
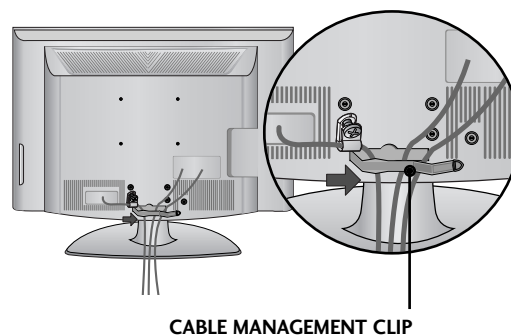
3 Put the cables inside the **CABLE MANAGEMENT CLIP** and snap it closed.
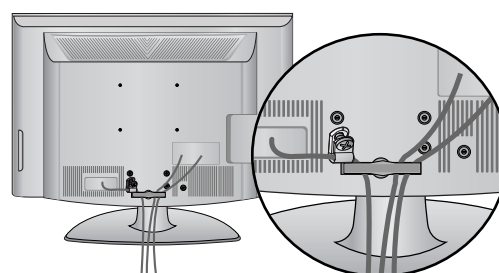
DESKTOP PEDESTAL INSTALLATION

■ Image shown may differ from your TV.

For proper ventilation, allow a clearance of 4 inches on all four sides from the wall.

4 inches

4 inches

4 inches

4 inches
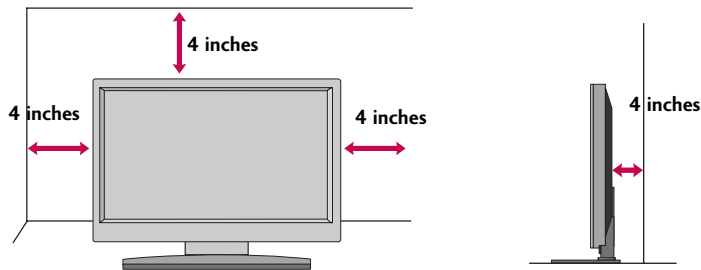
⚠ **CAUTION** ▶ Ensure adequate ventilation by following the clearance recommendations.

▶ Do not mount near or above type of heat source.

SWIVEL STAND

The TV can be conveniently swivelled on its stand 90˚ to the left or right to provide the optimum viewing angle.
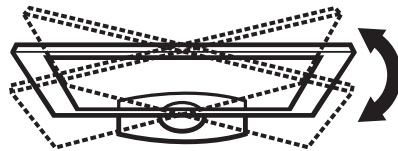
ATTACHING THE TV TO A DESK (only 32LG3DC model)

The TV must be attached to a desk so it cannot be pulled in a forward/backward direction, potentially causing injury or damaging the product. Use only an attached screw.

1-Screw
(provided as parts of the product)

Stand

Desk
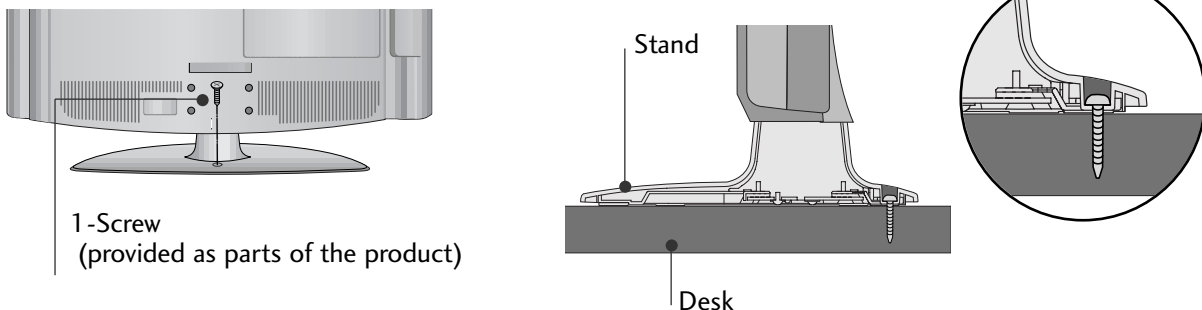
⚠ **WARNING**

▶ To prevent TV from falling over, the TV should be securely attached to the floor/wall per installation instructions. Tipping, shaking, or rocking the machine may cause injury.

VESA WALL MOUNTING

This TV accepts VESA FDMI compliant mounts via the four screw holes on the back of the TV. We recommend that you use an LG brand wall mount when mounting the TV to a wall.

200 mm

100 mm

---
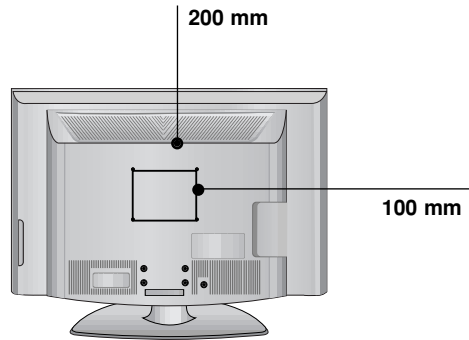
❶ NOTE

▶ Screw length needed depends on the wall mount used. For further information, refer to the instructions included with the mount.

PROTECTION COVER

▪ Image shown may differ from your TV.

You can remove the stand before installing the TV on a wall mount by performing the previous stand instructions in reverse. After removing the stand, install the included **protection cover** over the hole for the stand.

Insert the **PROTECTION COVER** into the TV until clicking sound.
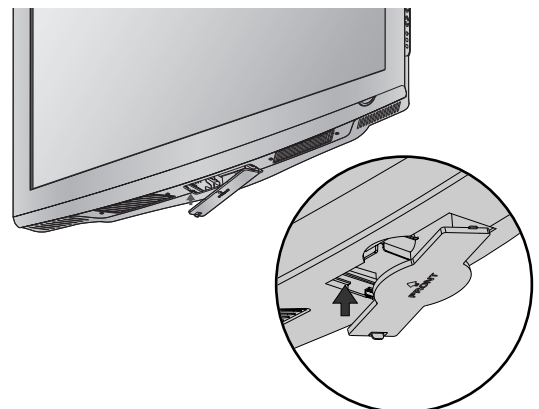
SECURING THE TV TO THE WALL TO PREVENT FALLING

■ You should purchase necessary components to prevent TV from falling off of the stand.

■ Image shown may differ from your TV.

We recommend that you set up the TV close to a wall so it cannot fall over if pushed backwards.

Additionally, we recommend that the TV be attached to a wall so it cannot be pulled in a forward direction, potentially causing injury or damaging the product.

Caution: Please make sure that children don't climb on or hang from the TV.
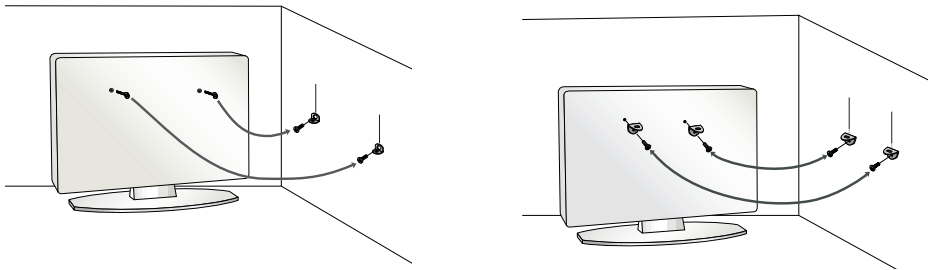
■ Insert the eye-bolts (or TV brackets and bolts) to tighten the product to the wall as shown in the picture.

＊If your product has the bolts in the eye-bolts position before inserting the eye-bolts, loosen the bolts.

＊ Insert the eye-bolts or TV brackets/bolts and tighten them securely in the upper holes.

Secure the wall brackets with the bolts (not provided as parts of the product, must purchase separately) to the wall. Match the height of the bracket that is mounted on the wall to the holes in the product.

Ensure the eye-bolts or brackets are tightened securely.
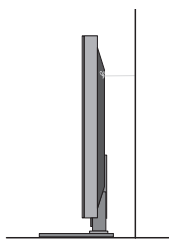
■ Use a sturdy rope (not provided as parts of the product, must purchase separately) to tie the product. It is safer to tie the rope so it becomes horizontal between the wall and the product.

❶ NOTE

▶ Use a platform or cabinet strong enough and large enough to support the size and weight of the TV.

▶ To use the TV safely, make sure that the height of the bracket on the wall and the one on the TV are the same.

■ To prevent damage do not connect to the power outlet until all connections are made between the devices.

ANTENNA OR CABLE CONNECTION

1. Antenna (Analog or Digital)

Wall Antenna Socket or Outdoor Antenna without a Cable Box Connection.
For optimum picture quality, adjust antenna direction if needed.

Wall Antenna Socket

Multi-family Dwellings/Apartments (Connect to wall antenna socket)

Outdoor Antenna (VHF, UHF)

RF Coaxial Wire (75 ohm)

Single-family Dwellings /Houses (Connect to wall jack for outdoor antenna)

ANTENNA IN

Copper Wire

Be careful not to bend the copper wire when connecting the antenna.

2. Cable

Cable TV Wall Jack

RF Coaxial Wire (75 ohm)
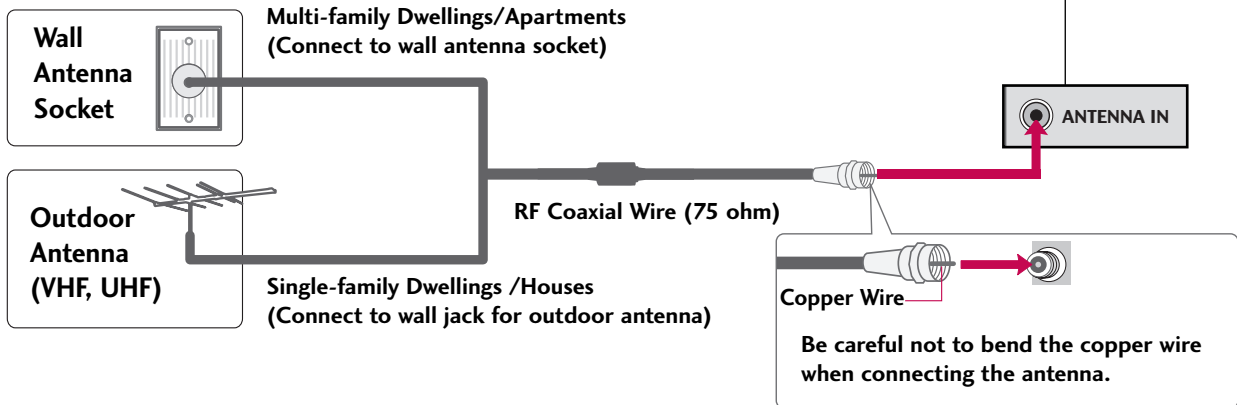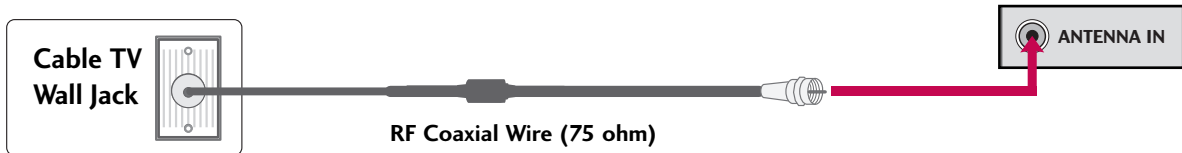
ANTENNA IN

■ To improve the picture quality in a poor signal area, please purchase a signal amplifier and install properly.
■ If the antenna needs to be split for two TV's, install a 2-Way Signal Splitter.
■ If the antenna is not installed properly, contact your dealer for assistance.

Antenna

UHF

VHF

Signal Amplifier

ANTENNA IN

EXTERNAL EQUIPMENT SETUP

■ To prevent the equipment damage, never plug in any power cords until you have finished connecting all equipment.
■ This part of EXTERNAL EQUIPMENT SETUP mainly use picture for 32LG3DC model.

HD RECEIVER SETUP

This TV can receive Digital Over-the-air/Cable signals without an external digital set-top box. However, if you do receive digital signals from a digital set-top box or other digital external device, refer to the figure as shown below.

Component Connection

1. How to connect

① Connect the video outputs (Y, P$_B$, P$_R$) of the digital set-top box to the **COMPONENT IN VIDEO** jacks on the TV. Match the jack colors (Y = green, P$_B$ = blue, and P$_R$ = red).

② Connect the audio output of the digital set-top box to the **COMPONENT IN AUDIO** jacks on the TV.
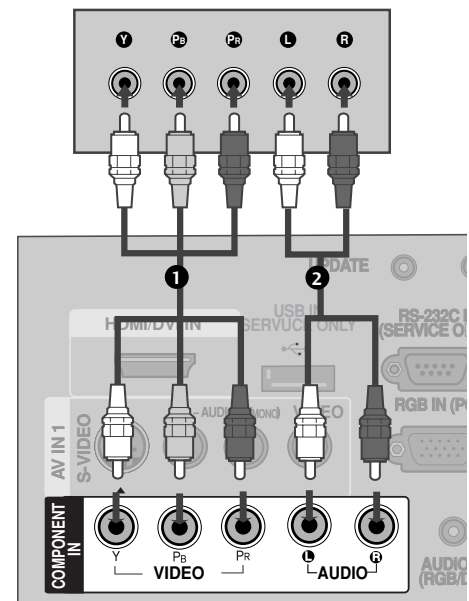
2. How to use

■ Turn on the digital set-top box.
(Refer to the owner's manual for the digital set-top box.)

■ Select **Component** input source with using the **INPUT** button on the remote control.

Supported Resolutions

Signal	Component	HDMI
480i	Yes	Yes
480p	Yes	Yes
720p	Yes	Yes
1080i	Yes	Yes
1080p	No	Yes

Y, C$_B$/P$_B$, C$_R$/P$_R$

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
720x480i	15.73	59.94
	15.73	60.00
720x480p	31.47	59.94
	31.50	60.00
1280x720p	44.96	59.94
	45.00	60.00
1920x1080i	33.72	59.94
	33.75	60.00

EXTERNAL EQUIPMENT SETUP

HDMI Connection

1. How to connect

1 Connect the digital set-top box to **HDMI/DVI IN** jack on the TV.

2 No separate audio connection is necessary. HDMI supports both audio and video.

2. How to use

■ Turn on the digital set-top box.
(Refer to the owner's manual for the digital set-top box.)

■ Select **HDMI/DVI** input source with using the **INPUT** button on the remote control.
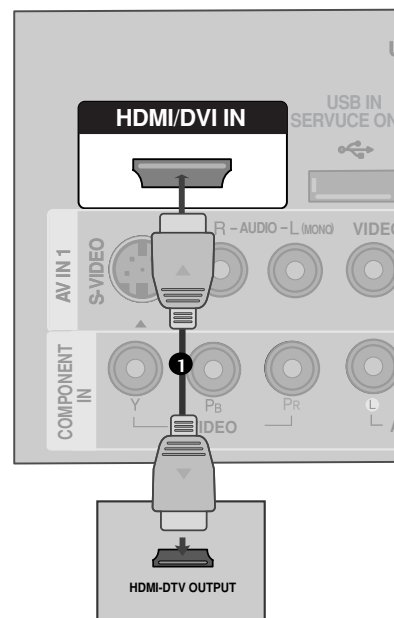
HDMI-DTV

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
720x480p	31.469 31.500	59.94 60.00
1280x720p	44.96 45.00	59.94 60.00
1920x1080i	33.72 33.75	59.94 60.00
1920x1080p	67.50	60.00

DVI to HDMI Connection

1. How to connect

1 Connect the DVI output of the digital set-top box to the **HDMI/DVI IN** jack on the TV.

2 Connect the audio output of the digital set-top box to the **AUDIO IN(RGB/DVI)** jack on the TV.

2. How to use

- Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
- Select the **HDMI/DVI** input source on the TV using the **INPUT** button on the remote control.

❶ NOTE

▶ A DVI to HDMI cable or adapter is required for this connection. DVI doesn't support audio, so a separate audio connection is necessary.
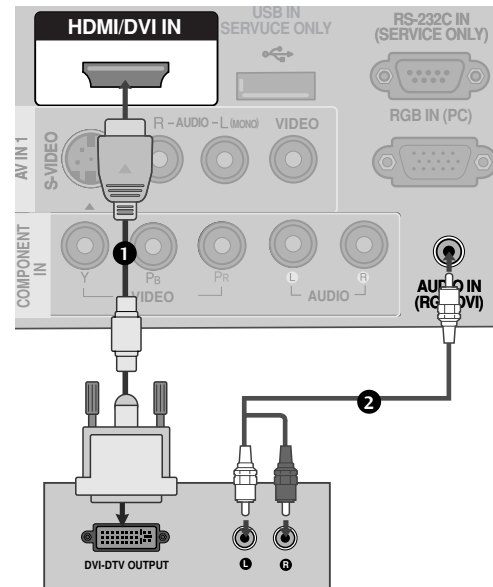
EXTERNAL EQUIPMENT SETUP

DVD SETUP

Component Connection

1. How to connect

1 Connect the video outputs (Y, P_B, P_R) of the DVD to the **COMPONENT IN VIDEO** jacks on the TV.
Match the jack colors (Y = green, P_B = blue, and P_R = red).

2 Connect the audio outputs of the DVD to the **COMPONENT IN AUDIO** jacks on the TV.
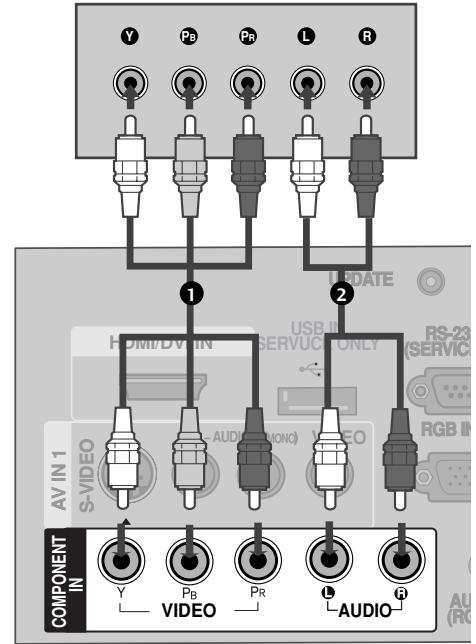
2. How to use

- Turn on the DVD player, insert a DVD.
- Select the **Component** input source on the TV using the **INPUT** button on the remote control.
- Refer to the DVD player's manual for operating instructions.

Component Input ports

To get better picture quality, connect a DVD player to the component input ports as shown below.

Component ports on the TV	Y	P_B	P_R

	Y	P_B	P_R
Video output ports on DVD player	Y	B-Y	R-Y
	Y	Cb	Cr
	Y	Pb	Pr

S-Video Connection

1. How to connect

1 Connect the S-VIDEO output of the DVD to the **S-VIDEO** input on the TV.

2 Connect the audio outputs of the DVD to the **AUDIO** input jacks on the TV.

2. How to use

- Turn on the DVD player, insert a DVD.
- Select the **AV1** input source on the TV using the **INPUT** button on the remote control.
- Refer to the DVD player's manual for operating instructions.
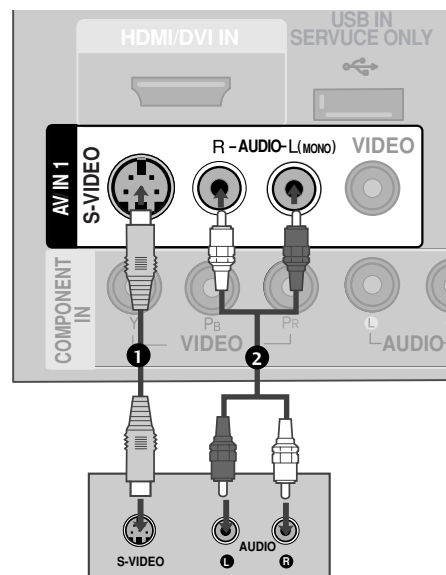
HDMI Connection

1. How to connect

1 Connect the HDMI output of the DVD to the **HDMI/DVI IN** jack on the TV.

2 No separate audio connection is necessary. HDMI supports both audio and video.

2. How to use

- Select the **HDMI/DVI** input source on the TV using the **INPUT** button on the remote control.
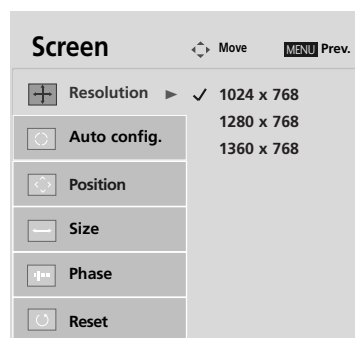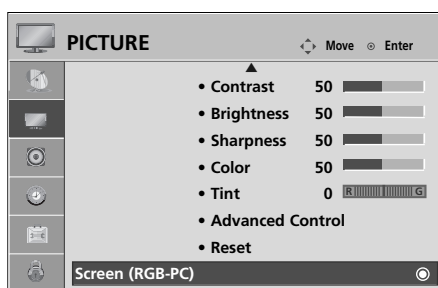- Refer to the DVD player's manual for operating instructions.
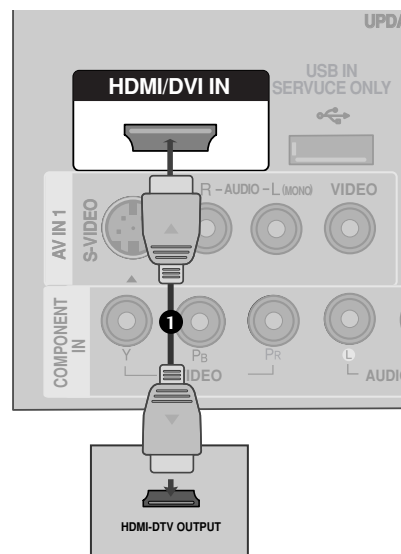
EXTERNAL EQUIPMENT SETUP

VCR SETUP

■ To avoid picture noise (interference), leave an adequate distance between the VCR and TV. If the 4:3 picture format is used; the fixed images on the sides of the screen may remain visible on the screen. This phenomenon is common to all TVs and is not covered by warranty.

Antenna Connection

1. How to connect

❶ Connect the RF antenna out socket of the VCR to the **ANTENNA IN** socket on the TV.

❷ Connect the antenna cable to the RF antenna in socket of the VCR.
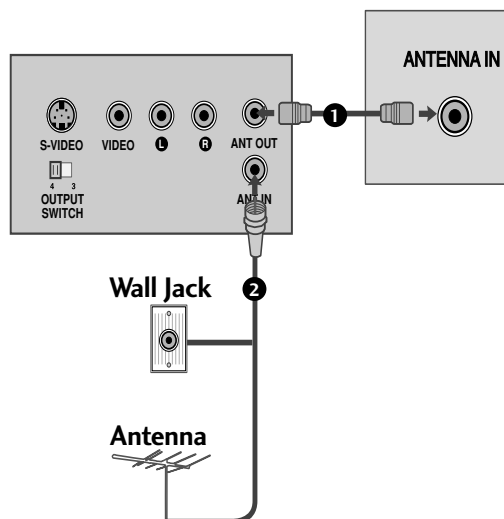
2. How to use

■ Set VCR output switch to 3 or 4 and then tune TV to the same channel number.

■ Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)

Composite (RCA) Connection

1. How to connect

① Connect the **AUDIO/VIDEO** jacks between TV and VCR. Match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red)

2. How to use

- Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)
- Select the **AV1** input source on the TV using the **INPUT** button on the remote control.
- If connected to **AV IN2**, select **AV2** input source on the TV.

> **❶ NOTE**
>
> ► If you have a mono VCR, connect the audio cable from the VCR to the **AUDIO-L(MONO)** jack of the TV.
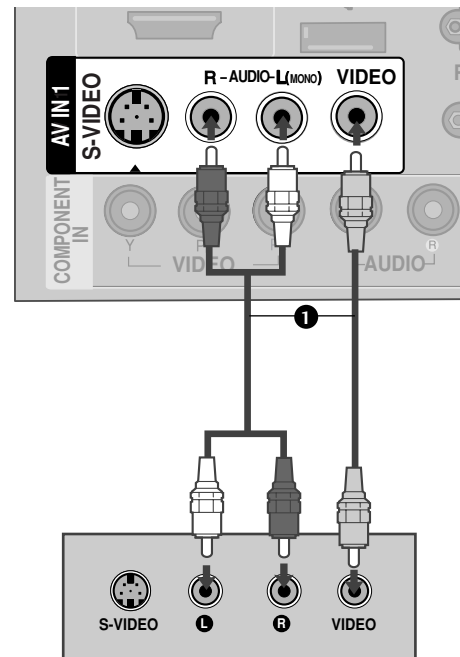
S-Video Connection

1. How to connect

① Connect the S-VIDEO output of the VCR to the **S-VIDEO** input on the TV.

② Connect the audio outputs of the VCR to the **AUDIO** input jacks on the TV.

2. How to use

- Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)
- Select the **AV1** input source on the TV using the **INPUT** button on the remote control.

> **❶ NOTE**
>
> ► S-Video provides better quality than composite. Use it when available.
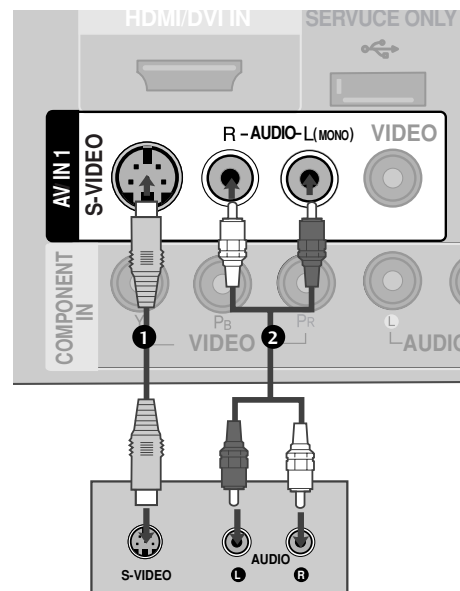
> **⚠ CAUTION**
>
> ► Do not connect to both Video and S-Video at the same time. In the event that you connect both Video and the S-Video cables, only the S-Video will work.

OTHER A/V SOURCE SETUP

1. How to connect

① Connect the **AUDIO/VIDEO** jacks between TV and external equipment. Match the jack colors.

(Video = yellow, Audio Left = white, and Audio Right = red)

2. How to use

- Select the **AV2** input source on the TV using the **INPUT** button on the remote control.
- If connected to **AV IN1** input, select the **AV1** input source on the TV.
- Operate the corresponding external equipment.

Camcorder

Video Game Set
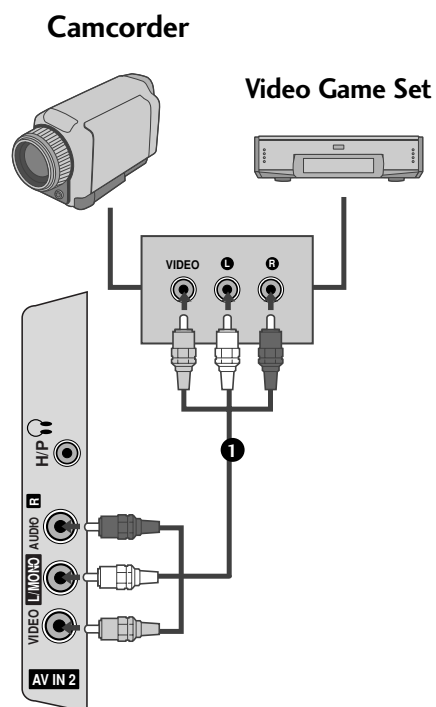
PILLOW SPEAKER SETUP (only 26/32LG3DCH model)

■ Connect a pillow speaker to the LCD TV/Monitor.

1. How to connect

1 Connect the **PILLOW SPEAKER** output jack on the back of the TV.

2 Connect an acccessory pillow speaker or wired remote control unit to this 6-pin jack.

3 Select **PILLOW SPEAKER** on the rear panel of the TV.

■ NOTE: *If the pillow speaker switch is set to Pillow Speaker, no sound will be heard from the TV speakers. If pillow speaker switch is set to the Pillow Speader position, Auto Volume will be grayed out and not accessible on the Sound menu.*

Use a pillow speaker by Curbell, Model A-16455-02 or other UL recognized pendant control bearing the warning:

"Risk of fire if used in oxygen enriched atmosphere. Keep pendant control away from oxygen equipment."

Controlling the TV with Serial Data

The TV is capable of being controlled by a single-wire, serial data signal. This is a LG patented technology and is being implemented by certain brands of "smart" pillow speakers, such as Curbell's "GEN-II" models.

Pillow Speaker Interface

This connector furnishes three control lines and an audio output. A patient-pendant remote control, or entertainment audio and nurse call system may be connected here. All lines are isolated from the AC power line and earth ground. (Optoisolators isolate the control lines, and a transformer isolates the audio. There are no relays or inductive components in the control lines.)

pin No.	Purpose
1	External TV On/Off switch.
2	(Not used.)
3	External Channel Up switch or Data in.
4	Common connection for control, data, and audio output. Impedance to earth ground is a 10-meg resistor in parallel with a 1100 pf capacitor.
5	Isolated audio output. Nominal 14-ohm source impedance with short circuit protection. Intended for a pillow speaker with a low-impeance pad-type volume control.
6	External Channel Down switch.

TV Back

PILLOW SPEAKER **NORMAL SPEAKER** **SPEAKER SWITCH** **PILLOW SPEAKER**

Pillow speaker not included with TV.

SPKR.

VOLUME CONTROL

4
5 6 3
1 2

(MALE PLUG)

TV ON/OFF   CHAN DOWN   CHAN UP

4
5 6 3
1 2

1	TV ON/OFF
2	OPEN
3	CHAN UP/DATA IN
4	COMMON
5	AUDIO OUT
6	CHAU DOWN
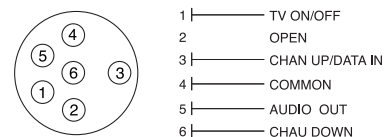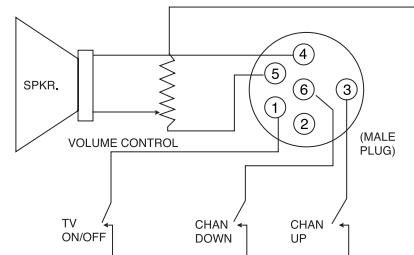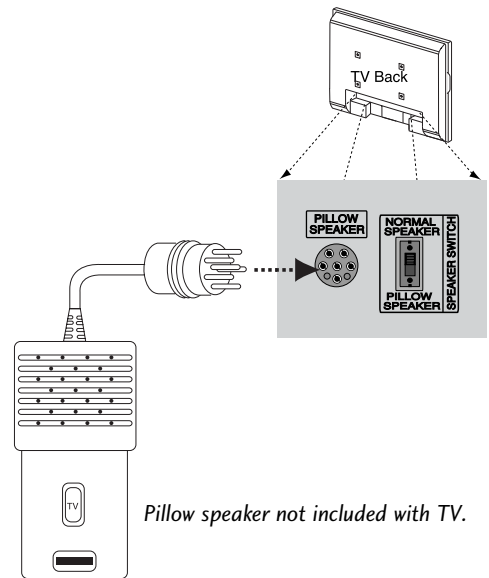
Controlling the TV with Mechanical Switches

Pin 4(common) is momentarily connected to pin 1, 3, or 6 via push-action switches to control On/Off and Channel Up/Down. These pins are at +13volts DC(when measured from pin4) with the switches open. Current draw is 8 mA when a switch is closed. (This operation is identical to previous LG models using the 5-Wire Interface except that only +7 volts DC was supplied and current draw was only 2.5 mA.)

PC SETUP

This TV provides Plug and Play capability, meaning that the PC adjusts automatically to the TV's settings.

VGA (D-Sub 15 pin) Connection

1. How to connect

① Connect the VGA output of the PC to the **RGB IN(PC)** jack on the TV.

② Connect the PC audio output to the **AUDIO IN (RGB/DVI)** jack on the TV.

2. How to use

■ Turn on the PC and the TV.

■ Select the **RGB-PC** input source on the TV using the **INPUT** button on the remote control.

RGB OUTPUT   AUDIO

UPDATE   RESET
USB IN
RVUCE ONLY   (SE   Y)
VIDEO
RG   C)
L   R
AUDIO   AUDIO IN   REMOTE   SP
(RGB/DVI)   CONTROL OUT
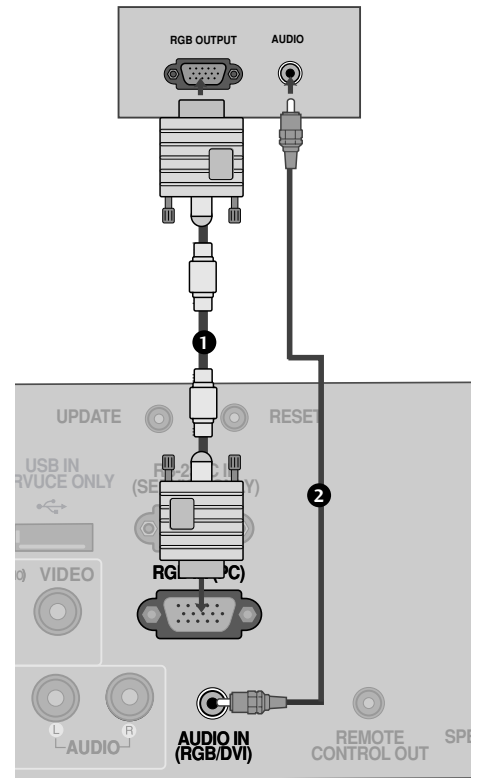
DVI to HDMI Connection

1. How to connect

1 Connect the DVI output of the PC to the **HDMI/DVI IN** jack on the TV.

2 Connect the PC audio output to the **AUDIO IN (RGB/DVI)** jack on the TV.

2. How to use

- Turn on the PC and the TV.
- Select the **HDMI/DVI** input source on the TV using the **INPUT** button on the remote control.
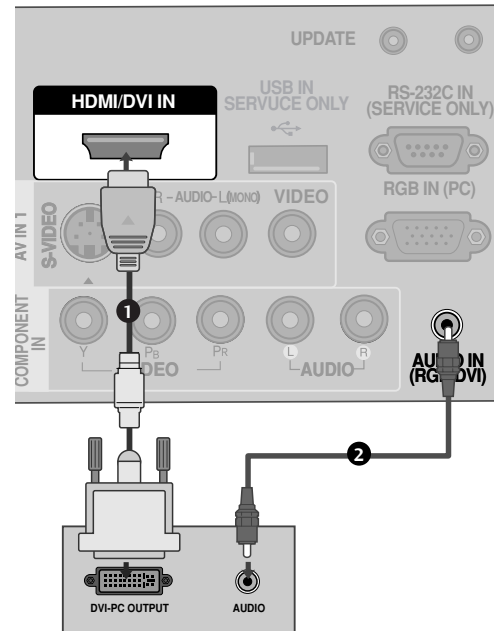
Supported Display Specifications (RGB-PC, HDMI-PC)

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
640x350	31.469	70.08 ●
720x400	31.469	70.08 ●
640x480	31.469	59.94
800x600	37.879	60.31
1024x768	48.363	60.00
1280x768	47.776	59.87
1360x768	47.712 47.720	60.01 59.799
1366x768	47.130	59.65

* Only RGB-PC mode

ⓘ NOTES

▶ To get the the best picture quality, adjust the PC graphics card to 1360x768.

▶ Depending on the graphics card, DOS mode 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.

▶ Avoid keeping a fixed image on the screen for a long period of time. The fixed image could become permanently imprinted on the screen.

▶ 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.

Screen Setup for PC mode

Selecting Resolution

You can choose the resolution in RGB-PC mode.
The **Position**, **Phase**, and **Size** can also be adjusted.

PICTURE	Move ⊙ Enter
• Contrast	50
• Brightness	50
• Sharpness	50
• Color	50
• Tint	0 R‖‖‖‖‖‖G
• Advanced Control	
• Reset	
Screen (RGB-PC)	⊚

Screen	Move [MENU] Prev.
Resolution ►	✓ 1024 x 768
	1280 x 768
Auto config.	1360 x 768
Position	
Size	
Phase	
Reset	

1 MENU ⟨⟩   Select **PICTURE**.

2 ENTER ⌃⌄   Select **Screen (RGB-PC)**

3 ENTER ⌃⌄   Select **Resolution**.

4 ENTER ⌃⌄   Select the desired resolution.

5 ENTER   Select **Screen (RGB-PC)**.

Auto Configure

Automatically adjusts picture position and minimizes image instability. After adjustment, if the image is still not correct, try using the manual settings or a different resolution or refresh rate on the PC.

PICTURE	◇ Move ⊙ Enter
• Contrast	50
• Brightness	50
• Sharpness	50
• Color	50
• Tint	0 R◖▏▏▏▕▕▕▕▕◗ G
• Advanced Control	
• Reset	
Screen (RGB-PC)	◎

Screen	◇ Move [MENU] Prev.
Resolution	
Auto config. ▶	
Position	**To Set**
Size	[Yes] [No]
Phase	
Reset	

1 MENU — Select **PICTURE**.

2 ENTER — Select **Screen (RGB-PC)**.

3 ENTER — Select **Auto config.**.

4 ENTER — Select **Yes**.

5 ENTER — Start Auto Configuration.

- If the position of the image is still not correct, try Auto adjustment again.
- If picture needs to be adjusted again after Auto adjustment in RGB-PC, you can adjust the **Position**, **Size** or **Phase**.

Adjustment for screen Position, Size, and Phase

If the picture is not clear after auto adjustment and especially if characters are still trembling, adjust the picture phase manually.

This feature operates only in RGB-PC mode.

```
PICTURE                    ◇ Move   ⊙ Enter

                           ▲
              • Contrast         50  ▭
              • Brightness       50  ▭
              • Sharpness        50  ▭
              • Color            50  ▭
              • Tint              0  R▭▭▭▭▭▭▭▭G
              • Advanced Control
              • Reset
       Screen (RGB-PC)                    ◉
```

➡

```
Screen          ◇ Move    MENU Prev.

   ⊞  Resolution
   ◷  Auto config.
   ◈  Position       ►
      Size
   ▥  Phase
   ⏻  Reset
```

1
MENU   Select **PICTURE**.

2
ENTER   Select **Screen (RGB-PC)**.
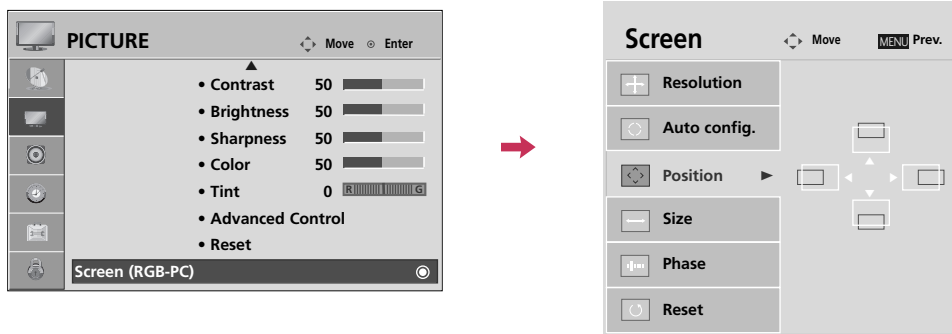
3
ENTER   Select **Position**, **Size**, or **Phase**.

4
ENTER   Make appropriate adjustments.

5
ENTER

■ **Position**: This function is to adjust picture to left/right and up/down as you prefer.

■ **Size**: This function is to minimize any vertical bars or stripes visible on the screen background. And the horizontal screen size will also change. The **Size** adjustment range is **-30 ~ 30**.

■ **Phase**: This function allows you to remove any horizontal noise and clear or sharpen the image of characters. The **Phase** adjustment range is **-32 ~ 31**.

Screen Reset (Reset to original factory values)

Returns **Position**, **Size**, and **Phase** to the default factory settings.
This feature operates only in RGB-PC mode.
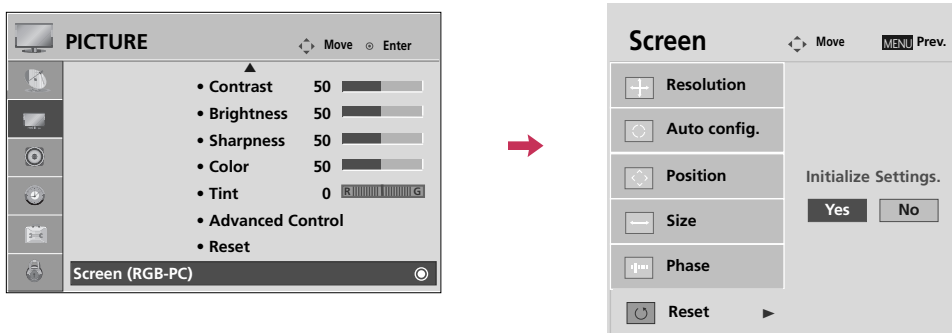
PICTURE	Move ⊙ Enter
▲	
• Contrast	50
• Brightness	50
• Sharpness	50
• Color	50
• Tint	0 R‖‖‖‖‖‖G
• Advanced Control	
• Reset	
Screen (RGB-PC)	◎

Screen	Move	MENU Prev.
Resolution		
Auto config.		
Position		Initialize Settings.
Size		Yes No
Phase		
Reset	►	

1
MENU   Select **PICTURE**.

2
ENTER   Select **Screen (RGB-PC)**.

3
ENTER   Select **Reset**.

4
ENTER   Select **Yes**.

5
ENTER

WATCHING TV / CHANNEL CONTROL

REMOTE CONTROL FUNCTIONS (only 32LG3DC model)

When using the remote control, aim it at the remote control sensor on the TV.

POWER	Turns your TV on or off.
TV	In AV, Component, RGB-PC, and HDMI/DVI input sources, screen returns to the last TV channel.
INPUT	External input modes rotate in regular sequence: TV, AV, Component, RGB-PC, and HDMI/DVI. (AV, Component, RGB-PC, and HDMI/DVI input sources are linked automatically, only if a device is connected.)
PICTURE	Selects the factory preset picture depend on the viewing environment. ▶ **p.44**
SOUND	Selects the factory preset sound for type of program. ▶ **p.56**
SAP	⊙ Analog mode: Selects MTS sound (Mono, Stereo, or a SAP) ▶ **p.61** ⊙ DTV mode: Changes the audio language.
RATIO	Change the aspect ratio. ▶ **p.42**
THUMBSTICK **(Up/Down/Left** **Right/ENTER)**	Navigate the on-screen menus and adjust the system settings to your preference.

32
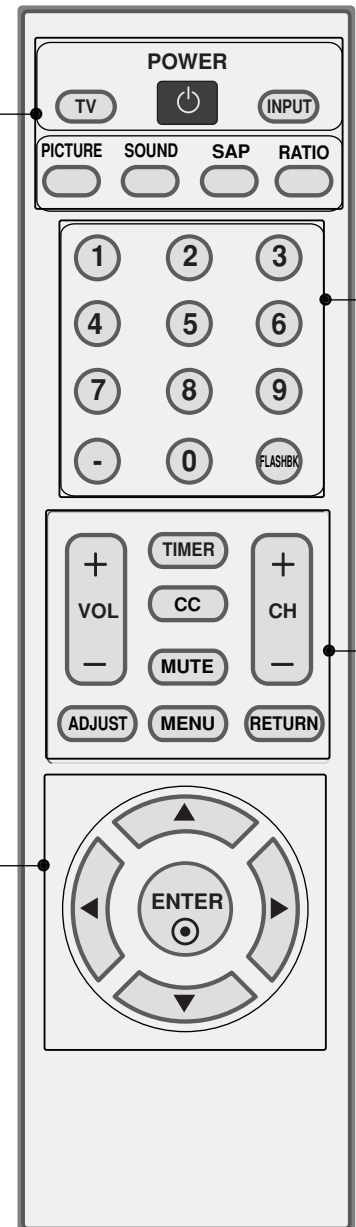
NUMBER button

— (DASH) Used to enter a program number for multiple program channels such as 2-1, 2-2, etc.

FLASHBK Tune to the last channel viewed.

VOLUME UP /DOWN Increase/decrease the sound level.

TIMER Select the amount of time before your TV turns off automatically. ▶ **p.70**

CC Select a closed caption. ▶ **p.64**
(*In DTV/CADTV mode ▶ **p.65, 66**)

MUTE Switch the sound on or off. ▶ **p.35**

CHANNEL UP/DOWN Select available channels.

ADJUST Adjust the screen resolution, position, size and phase. ▶ **p.30**

MENU Displays the main menu.

RETURN Allows the user to move return one step in an interactive application or other user interaction function.

Installing Batteries
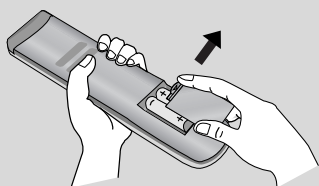
- Open the battery compartment cover on the back side and install the batteries matching correct polarity (+with +,-with -).

- Install two 1.5V AAA batteries. Don't mix old or used batteries with new ones.

- Close cover.

(only 32LG3DC model)

TURNING ON TV

1 First, connect power cord correctly.

At this moment, the TV switches to standby mode.

- In standby mode to turn TV on, press the ⏻/I , **INPUT**, **CH (+** or **-)**button on the TV or press the **POWER**, **INPUT**, **CH(+** or **-)**, **Number (0~9)** button on the remote control.

2 Select the viewing source by using the **INPUT** button on the remote control.

- This TV is programmed to remember which power state it was last set to, even if the power cord is out.

3 When finished using the TV, press the **POWER** button on the remote control. The TV reverts to standby mode.

❶ NOTE

▶ If you intend to be away on vacation, disconnect the power plug from the wall power outlet.

CHANNEL SELECTION

① Press the **CH (+** or **-)** or **NUMBER** buttons to select a channel number.

VOLUME ADJUSTMENT

Adjust the volume to suit your personal preference.
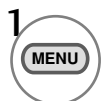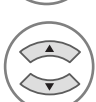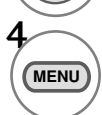
① Press the **VOL (+** or **-)** button to adjust the volume.

② If you want to switch the sound off, press the **MUTE** button.

③ You can cancel the Mute function by pressing the **MUTE** or **VOL (+** or **-)** button.

WATCHING TV / CHANNEL CONTROL

ON-SCREEN MENUS SELECTION

Your TV's OSD (On Screen Display) may differ slightly from that shown in this manual.

CHANNEL	Move ⊙ Enter
Auto Tuning	
Manual Tuning	
Channel Edit	
Channel Label	

PICTURE	Move ⊙ Enter
Aspect Ratio : 16:9	
Picture Mode : Standard	
• Backlight	80
• Contrast	90
• Brightness	50
• Sharpness	60
• Color	60
• Tint	0 R—G

AUDIO	Move ⊙ Enter
Auto Volume : Off	
Clear Voice : On	
Balance	0 L—R
Sound Mode : Standard	
• SRS TruSurround XT: Off	
• Treble	50
• Bass	50
• Reset	

CHANNEL **PICTURE** **AUDIO**

TIME **OPTION** **LOCK**

TIME	Move ⊙ Enter
Clock : Feb/21/2008/ 2:10 AM	
Off Time : Off	
On Time : Off	
Sleep Timer : Off	
Auto Sleep : Off	

OPTION	Move ⊙ Enter
Language : English	
Caption : Off	

LOCK	Move ⊙ Enter
Lock System : Off	
Set Password	
Block Channel	
Movie Rating	
TV Rating-Children	
TV Rating-General	
Downloadable Rating	
Input Block	

1 MENU Display each menu.

2 ENTER Select a menu item.

3 ENTER Enter to the pop up menu.

4 MENU Return to TV viewing.

WATCHING TV / CHANNEL CONTROL

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CHANNEL SETUP

Auto Scan (Auto Tuning)

Automatically finds all channels available through antenna or cable inputs, and stores them in memory on the channel list.

Run Auto Tuning again after any Antenna/Cable connection changes.

CHANNEL	◇ Move ⊙ Enter
Auto Tuning	○
Manual Tuning	
Channel Edit	
Channel Label	

➡

CHANNEL	◇ Move ⊙ Enter
Auto Tuning	
Manual Tuning	
Channel Edit	
Channel Label	

ANTENNA ⫿ CABLE
ANTENNA

Press 'Yes' button to begin auto tuning.

Yes

No

1
MENU
Select **CHANNEL**.
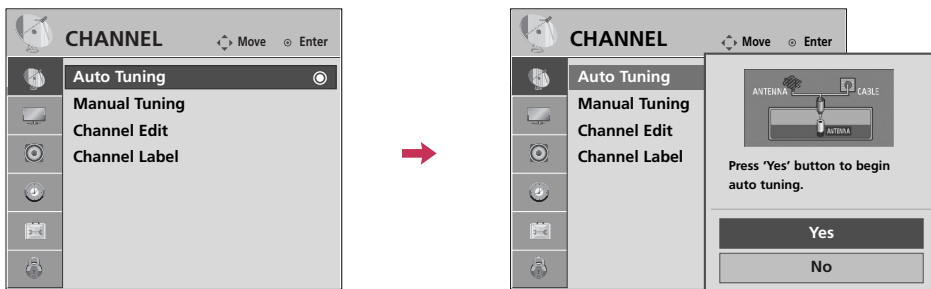
2
ENTER
Select **Auto Tuning**.

3
ENTER
Select **Yes**.

4
ENTER
Run **Auto tuning**.

5
RETURN
Return to the previous menu.

MENU
Return to TV viewing.

■ A password is required to gain access to Auto Tuning menu if the Lock System is turned on.

Add/Delete Channel (Manual Tuning)

If selecting DTV or CADTV input signal, you can view the on-screen signal strength monitor to see the quality of the signal being received.

CHANNEL	⟨⟩ Move ⊙ Enter
Auto Tuning	
Manual Tuning	⊚
Channel Edit	
Channel Label	

CHANNEL	⟨⟩ Move ⊙ Enter
Auto Tuning	
Manual Tuning	
Channel Edit	
Channel Label	

◄   DIGITAL   ►

Select channel type and RF-channel number.

Channel   ◄   2   ►

DIGITAL 2-1

Bad   Normal   Good

Delete

Close

1
MENU   Select **CHANNEL**.
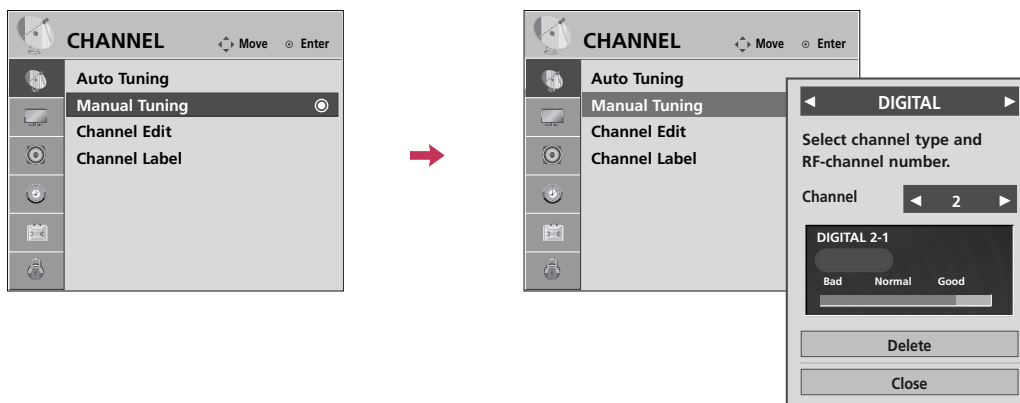
2
ENTER   Select **Manual Tuning**.

3
ENTER   Select **DIGITAL** or **ANALOG**.

4
Select channel you want to add or delete.

5
ENTER   Select **Add** or **Delete**.

6
RETURN   Return to the previous menu.

MENU   Return to TV viewing.

■ A password is required to gain access to Manual Tuning menu if the Lock System is turned on.

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Channel Editing

A custom list can be created by toggling each channel on or off with ENTER button. The channels in the Custom List are displayed in black and the channels deleted from the Custom List are displayed in gray.

Once a channel is highlighted you can add or delete the channel by referring to the small window at the top-right corner of the screen.

	CHANNEL	◁▷ Move ⊙ Enter
	Auto Tuning	
	Manual Tuning	
	Channel Edit	◉
	Channel Label	

7-1		DIGITAL		ANALOG

7-1	9-1	9-5	11-1
13-1	13-2	13-3	13-4
13-5	15-1	15-2	15-3
15-4	80-2	100-156	100-167
120-112	120-123	130-134	130-145
131-11			

◉ Add/Delete ◁▷ Move CH ⁺₋ Move Page RETURN Previous MENU Exit
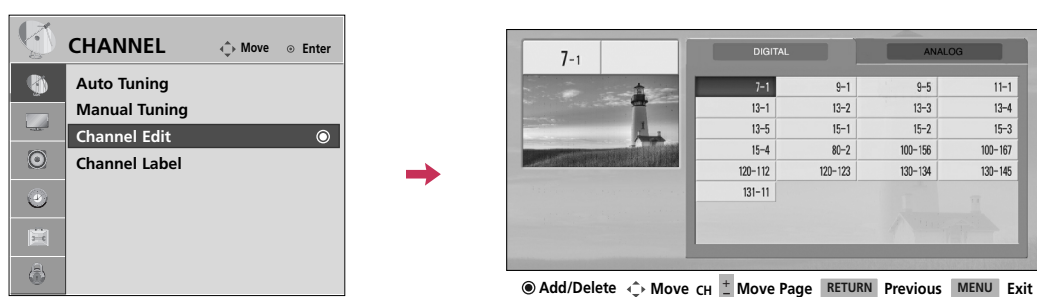
1 MENU — Select **CHANNEL**.

2 ENTER — Select **Channel Edit**.

3 ENTER — Select a channel.

4 ENTER — Select channel you want to add or delete.

5 MENU — Return to the previous menu.

RETURN — Return to TV viewing.

CHANNEL LABEL

Choose preset labels for your channels.

If a channel label is provided on the signal from the broadcasting station, the TV displays a short name for a channel even if you didn't preset a label for the channel.

CHANNEL	◇ Move ⊙ Enter
Auto Tuning	
Manual Tuning	
Channel Edit	
Channel Label	◉

CHANNEL	◇ Move ⊙ Enter
Auto Tuning	
Manual Tuning	
Channel Edit	
Channel Label	

Channel   **DIGITAL 2-1**

Logo   ◄   **Disney**   ►

Close
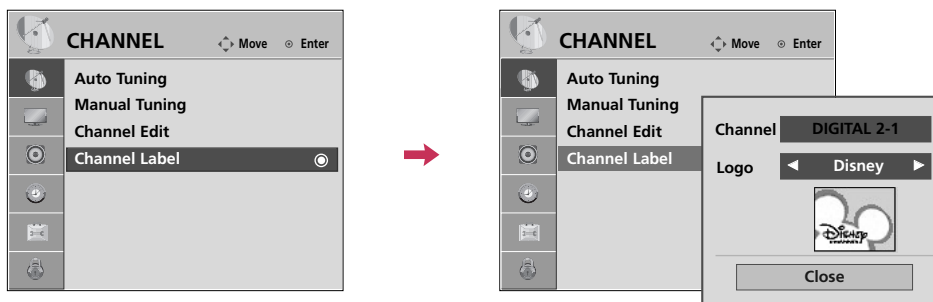
1 MENU   Select **CHANNEL**.

2 ENTER   Select **Channel Label**.

3 ENTER   Select **Channel**.

4   Select a channel to set logo.

5   Select the appropriate logo for the channel.

6 RETURN   Return to the previous menu.

MENU   Return to TV viewing.

■ A password is required to gain access to Auto Tuning menu if the Lock System is turned on.

INPUT LIST

Only these input signals which are connected to a TV can be activated and selected.

TV	AV1	AV2	Component	RGB

1
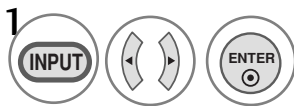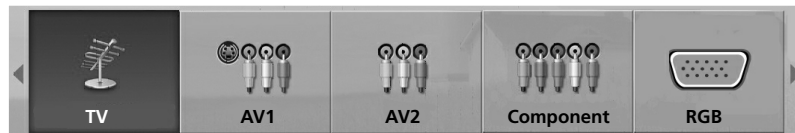
INPUT   ◄ ►   ENTER   Select the desired input source.

TV → AV1 → AV2
↑   ↓
HDMI ← RGB ← Component
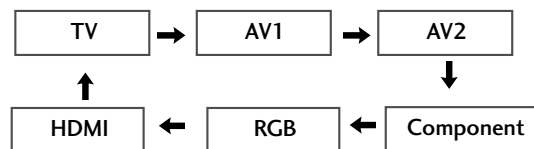
- **TV**: Select it to watch over-the-air, cable and digital cable broadcasts.
- **AV 1-2**: Select them to watch a VCR or other external equipment.
- **Component**: Select them to watch DVD or a Digital set-top box.
- **RGB**: Select it to view PC input.
- **HDMI**: Select them to watch high definition devices.

PICTURE CONTROL

PICTURE SIZE (ASPECT RATIO) CONTROL

This feature lets you choose the way an analog picture with a 4:3 aspect ratio is displayed on your TV.
■ RGB-PC input source use 4:3 or 16:9 aspect ratio.

ⓘ NOTE

▶ If a fixed image is displayed on the screen for a long time, the image could become imprinted on the screen and remain visible.

This phenomenon is common to all manufacturers and is not covered by warranty. Although, after watching video that did not fill the screen, any after-image from the black bars will normally dissipate after a few minutes.

PICTURE	⟨⟩ Move ⦿ Enter
Aspect Ratio : 16:9	⦿
Picture Mode : Standard	
• Backlight	80
• Contrast	90
• Brightness	50
• Sharpness	60
• Color	60
• Tint	0 R⎢⎢⎢⎢⎢⎢⎢⎢G

PICTURE	⟨⟩ Move ⦿ Enter
Aspect Ratio : 16:9	
Picture Mode : Standard	
• Backlight	80
• Contrast	90
• Brightness	50
• Sharpness	60
• Color	60
• Tint	0

Set By Program
4:3
16:9 ⦿
Zoom1
Zoom2
Just Scan
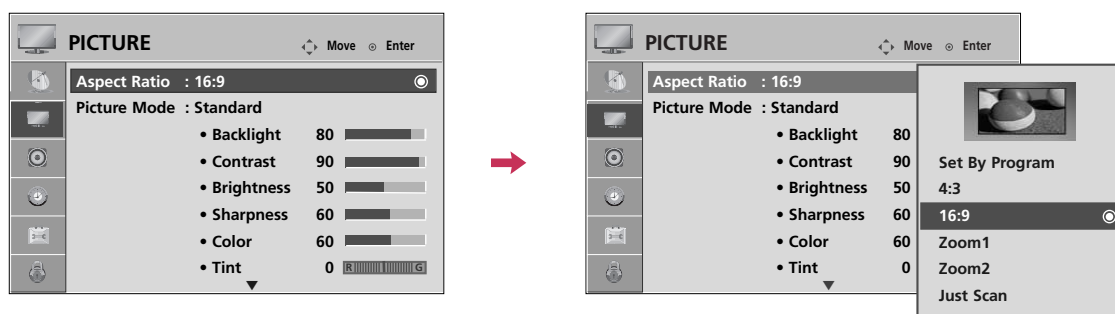
1 MENU Select **PICTURE**.

2 ENTER Select **Aspect Ratio**.

3 ENTER Select the desired picture format.

4 RETURN Return to the previous menu.

MENU Return to TV viewing.

Set by program

Selects the proper picture proportion to match the source's image.

(4:3 → 4:3)

(16:9 → 16:9)

4:3

Choose 4:3 when you want to view a picture with an original 4:3 aspect ratio.

16:9

Adjust the picture horizontally, in a linear proportion to fill the entire screen.

Zoom 1

Choose Zoom 1 when you want to view the picture without any alteration. However, the top and bottom portions of the picture will be cropped.
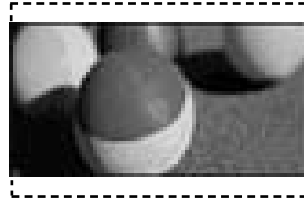
Zoom 2

Choose Zoom 2 when you want the picture to be altered, both vertically extended and cropped. The picture taking a halfway trade off between alteration and screen coverage.
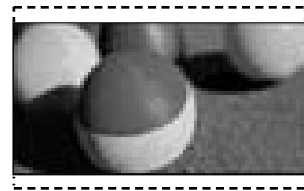
Just Scan

Following selection will lead to you view the picture of best quality without loss of original picture in high resolution image.

Notes: If there are noise in original picture, you can see the noise at the edge.

Just Scan operates only in DTV/CADTV/Component/HDMI-DTV/DVI-DTV (720p/1080i/1080p) input source.

PRESET PICTURE SETTINGS

Picture Mode - Preset

There are factory presets for picture settings available in the user menus. You can use a preset, change each setting manually.
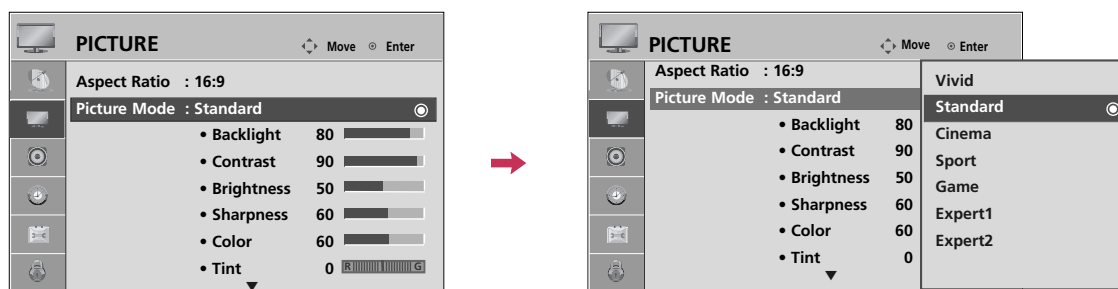
PICTURE	◇ Move ⊙ Enter
Aspect Ratio : 16:9	
Picture Mode : Standard	◉
• Backlight	80
• Contrast	90
• Brightness	50
• Sharpness	60
• Color	60
• Tint	0 R⬛⬛⬛⬛⬛G

PICTURE	◇ Move ⊙ Enter	
Aspect Ratio : 16:9		Vivid
Picture Mode : Standard		Standard ◉
• Backlight	80	Cinema
• Contrast	90	Sport
• Brightness	50	Game
• Sharpness	60	Expert1
• Color	60	Expert2
• Tint	0	

1 MENU Select **PICTURE**.

2 ENTER Select **Picture Mode**.

3 ENTER Select **Vivid**, **Standard**, **Cinema**, **Sport**, or **Game**.

4 RETURN Return to the previous menu.

MENU Return to TV viewing.

■ **Vivid**, **Standard**, **Cinema**, **Sport**, and **Game** Settings are preset for the optimum picture quality at the factory and are not adjustable.

Color Tone - Preset

Choose one of three automatic color adjustments. Set to warm to enhance hotter colors such as red, or set to cool to see less intense colors with more blue.

PICTURE		◇ Move ⊙ Enter
	▲	
	• Contrast	50 ▬▬
	• Brightness	50 ▬▬
	• Sharpness	50 ▬▬
	• Color	50 ▬▬
	• Tint	0 R▐▌▌▌▌▌G
	• Advanced Control	◉
	• Reset	
Screen (RGB-PC)		

PICTURE		◇ Move ⊙ Enter
	▲	
	• Contrast	50 ▬▬
	• Brightness	
	• Sharpness	
	• Color	
	• Tint	
	• Advanced Co	
	• Reset	
Screen (RGB-PC)		

Color Temperature	◄ Medium ►
Fresh Contrast	Off
Fresh Color	Off
Noise Reduction	Auto
Gamma	Medium
Black Level	Medium
Eye Care	Off
Real Cinema	Off
Close	

1
MENU

Select **PICTURE**.

2
ENTER

Select **Advanced Control**.

3
ENTER
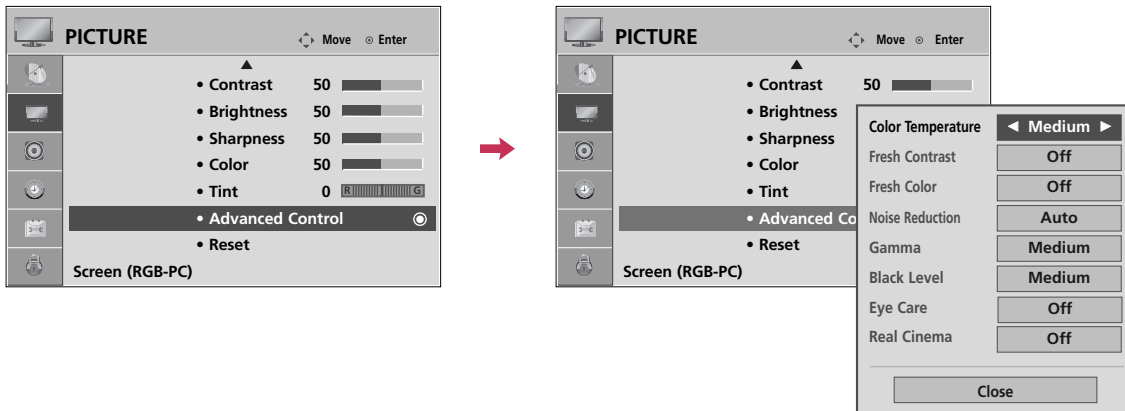
Select **Color Temperature**.

4

Select **Cool**, **Medium**, or **Warm**.

5
RETURN

Return to the previous menu.

MENU

Return to TV viewing.

MANUAL PICTURE ADJUSTMENT

Picture Mode - User Mode

Adjust the picture appearance to suit your preference and viewing situations.
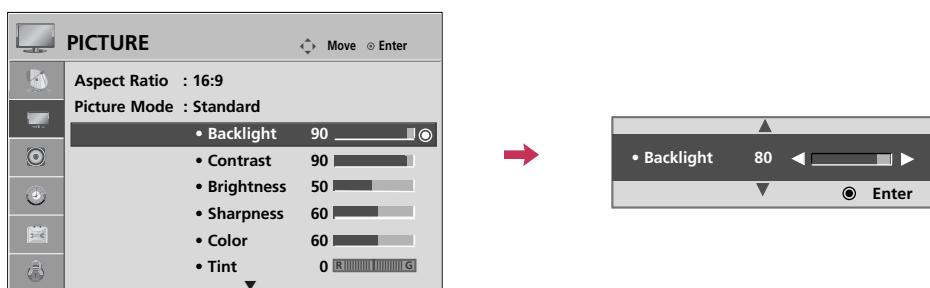
PICTURE ☐ Move ⊙ Enter

Aspect Ratio : 16:9
Picture Mode : Standard
• Backlight 90
• Contrast 90
• Brightness 50
• Sharpness 60
• Color 60
• Tint 0 R◀▮▮▮▮▮▮▮▮▮G

▲
• Backlight 80 ◀▮▯▯▯▯▮▶ ▶
▼ ⊙ Enter

1
MENU
Select **PICTURE**.

2
ENTER
Select **Picture Mode**.

3
ENTER
Select **Vivid**, **Standard**, **Cinema**, **Sport**, or **Game**..

4
ENTER
Select **Blacklight, Contrast, Brightness, Sharpness, Color, or Tint.**

5
ENTER
Make appropriate adjustments.

6
RETURN
Return to the previous menu.

MENU
Return to TV viewing.

Picture Mode - Expert Control

By segmenting categories, **Expert1** and **Expert2** provide more categories which users can set as they see fit, offering the optimal picture quality for users.

PICTURE	◇ Move ◉ Enter
Aspect Ratio : 16:9	
Picture Mode : Standard	
• Backlight	
• Contrast 90	
• Brightness 50	
• Sharpness 60	
• Color 60	
• Tint 0	
▼	

Vivid
Standard
Cinema
Sport
Game
Expert1 ◉
Expert2

➡

PICTURE	◇ Move ◉ Enter
▲	
• Contrast	
• Brightness	
• Sharpness	
• Color	
• Tint	
• Expert Cont	
• Reset	
Screen (RGB-PC)	

Fresh Contrast	◄ Off ►
Noise Reduction	Off
Gamma	Medium
Black Level	Auto
Real Cinema	Off
Color Standard	HD
White Balance	Normal
Red Contrast	50
▼	
Close	

1 [MENU] Select **PICTURE**.

2 [ENTER] Select **Picture Mode**.

3 [ENTER] Select **Expert1** or **Expert2**.

4 [ENTER] Select **Expert Control**.

5 [ENTER] Select your desired menu option.

6 Make appropriate adjustments.

7 [RETURN] Return to the previous menu.

[MENU] Return to TV viewing.

PICTURE IMPROVEMENT TECHNOLOGY

Fresh Contrast: Optimizes the contrast automatically according to the brightness of the reflection.
Fresh Color: Adjusts the color of the reflection automatically to reproduce as close as possible natural colors.
Noise Reduction: Removes interference up to the point where it does not damage the original picture.
Gamma: High gamma values display whitish images and low gamma values display high contrast images.

PICTURE	Move ◎ Enter
▲	
• Contrast	50
• Brightness	50
• Sharpness	50
• Color	50
• Tint	0 R||||||||||G
• Advanced Control	◎
• Reset	
Screen (RGB-PC)	

PICTURE	Move ◎ Enter
▲	
• Contrast	
• Brightness	
• Sharpness	
• Color	
• Tint	
• Advanced Co	
• Reset	
Screen (RGB-PC)	

Color Temperature	Medium
Fresh Contrast	◄ Off ►
Fresh Color	Off
Noise Reduction	Auto
Gamma	Medium
Black Level	Medium
Eye Care	Off
Real Cinema	Off
Close	

1 **MENU** Select **PICTURE**.
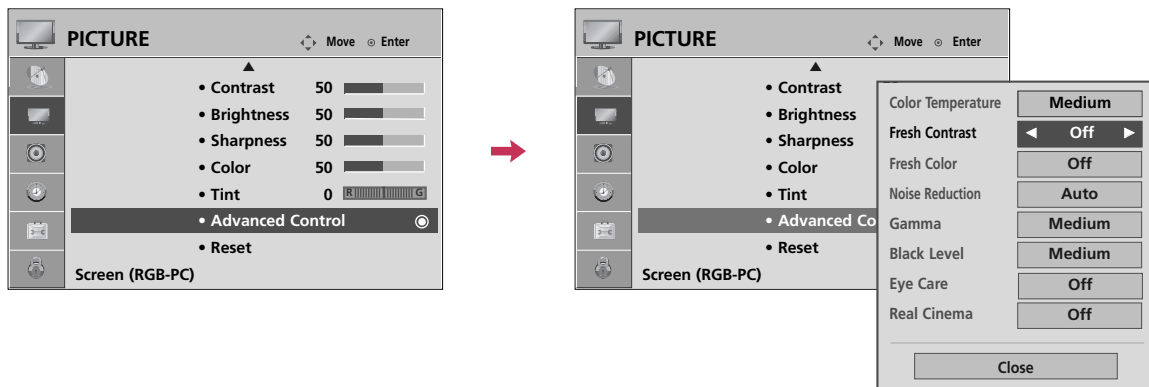
2 **ENTER** Select **Advanced Control**.

3 **ENTER** Select **Fresh Contrast, Fresh Color, Noise Reduction**, or **Gamma**.

4 Select your desired options.

5 **RETURN** Return to the previous menu.

MENU Return to TV viewing.

ADVANCED CONTROL - BLACK (DARKNESS) LEVEL

Adjusting the contrast and the brightness of the screen using the black level of the screen.
This feature is disable in DTV and RGB-PC mode.

➡

PICTURE	◇ Move ⊙ Enter
▲	
• Contrast	5
• Brightness	5
• Sharpness	5
• Color	5
• Tint	
• Advanced Cont	
• Reset	
Screen (RGB-PC)	

Color Temperature	Medium
Fresh Contrast	Off
Fresh Color	Off
Noise Reduction	Auto
Gamma	Medium
Black Level	◄ Low ►
Eye Care	Off
Real Cinema	Off
Close	

1
MENU — Select **PICTURE**.

2
ENTER — Select **Advanced Control**.
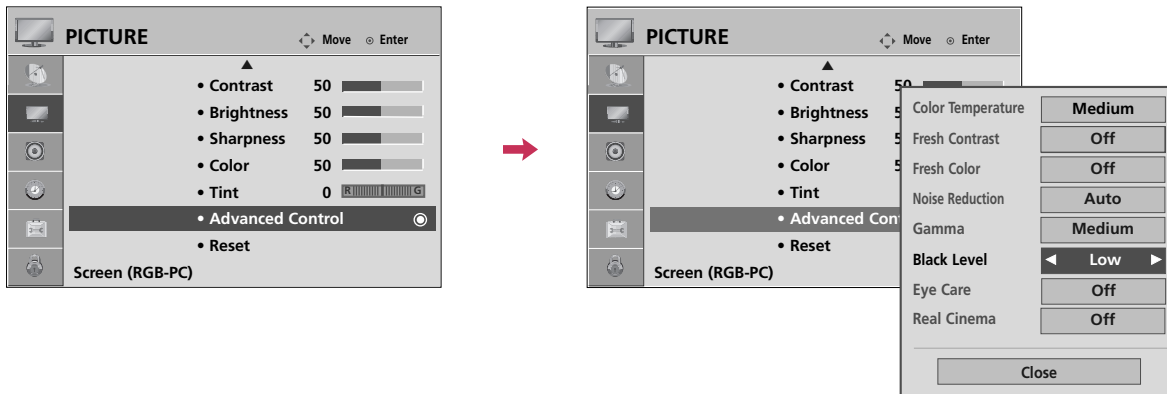
3
ENTER — Select **Black Level**.

4
Select **Low** or **High**.

5
RETURN — Return to the previous menu.

MENU — Return to TV viewing.

■ **Low**: The reflection of the screen gets darker.
■ **High**: The reflection of the screen gets brighter.
■ **Auto**: Realizing the black level of the screen and set it to High or Low automatically.

ADVANCED CONTROL - EYE CARE

Dims extremely bright pictures.
This feature is disable in "**Picture Mode-Vivid, Cinema**".
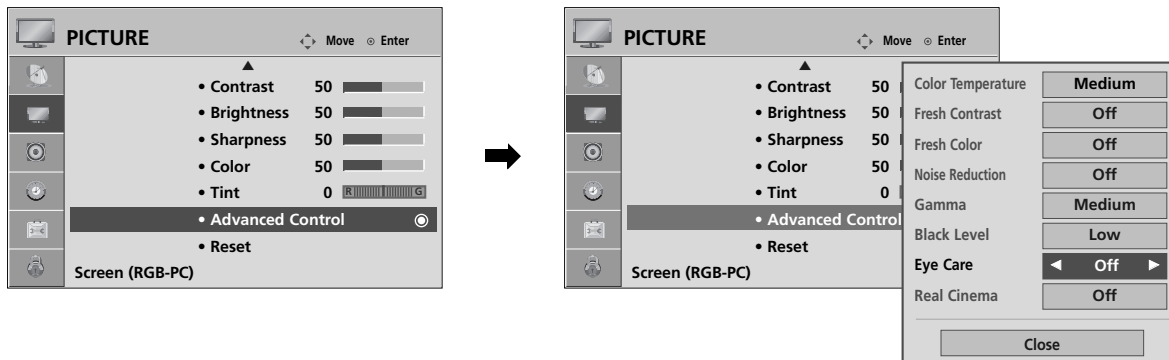
PICTURE ◇ Move ⊙ Enter	**PICTURE** ◇ Move ⊙ Enter

PICTURE ◇ Move ⊙ Enter

▲
• Contrast   50
• Brightness   50
• Sharpness   50
• Color   50
• Tint   0   R|||||||||||||G
• Advanced Control   ⊚
• Reset
Screen (RGB-PC)

PICTURE ◇ Move ⊙ Enter

▲
• Contrast   50
• Brightness   50
• Sharpness   50
• Color   50
• Tint   0
• Advanced Control
• Reset
Screen (RGB-PC)

Color Temperature	Medium
Fresh Contrast	Off
Fresh Color	Off
Noise Reduction	Off
Gamma	Medium
Black Level	Low
Eye Care	◄ Off ►
Real Cinema	Off
Close	

1 MENU ⬡ Select **PICTURE**.

2 ENTER ⊙ ⬡ Select **Advanced Control**.

3 ENTER ⊙ ⬡ Select **Eye Care**.

4 ◄ ► Select **On** or **Off**.

5 RETURN Return to the previous menu.

MENU Return to TV viewing.

ADVANCED CONTROL - REAL CINEMA

Set up the TV for the best picture appearance for viewing movies.

When you operate Real Cinema (3:2 Pull-Down Mode or Cinema Correction Mode), the TV will adjust 24 fps video from movies to 30 fps video for display.

This feature operates only in TV (Analog TV/CATV, Digital DTV/CADTV), AV1, AV2, Component 480i/1080i, and HDMI 1080i mode.
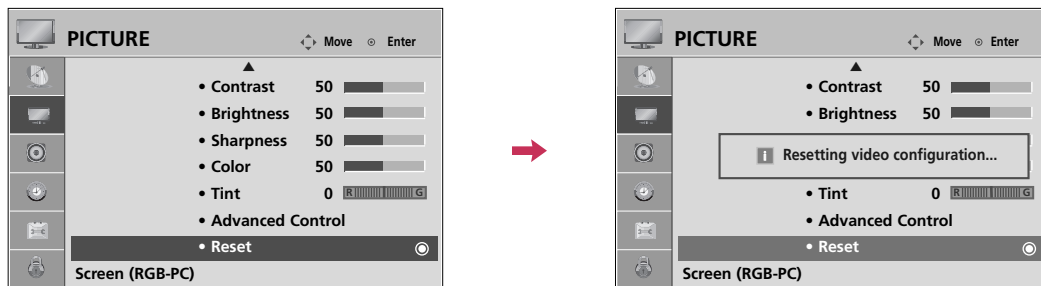
PICTURE	⟨⟩ Move ⊙ Enter
• Contrast	50
• Brightness	50
• Sharpness	50
• Color	50
• Tint	0 R‖‖‖‖‖‖‖G
• Advanced Control	◉
• Reset	
Screen (RGB-PC)	

➡

PICTURE	⟨⟩ Move ⊙ Enter		
• Contrast	50	Color Temperature	Medium
• Brightness	50	Fresh Contrast	Off
• Sharpness	50	Fresh Color	Off
• Color	50	Noise Reduction	Auto
• Tint	0	Gamma	Medium
• Advanced Control		Black Level	Medium
• Reset		Eye Care	Off
Screen (RGB-PC)		Real Cinema ◄ Off ►	
		Close	

1 MENU Select **PICTURE**.
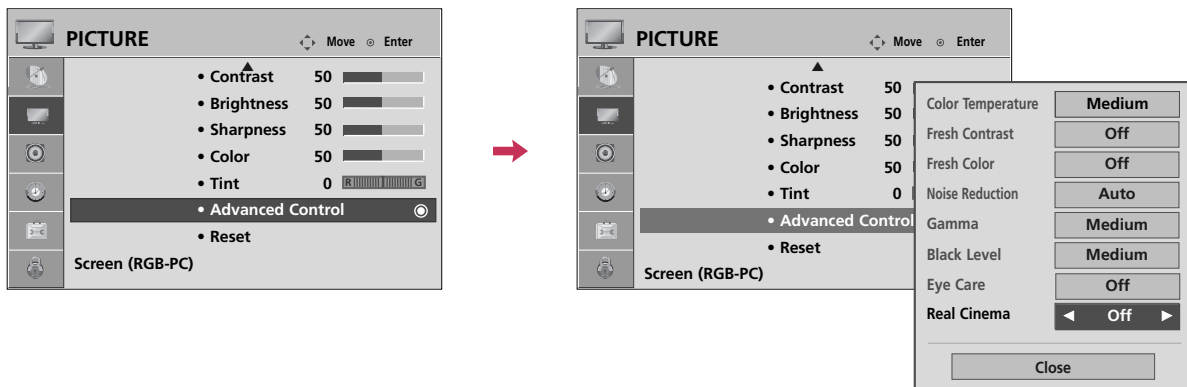
2 ENTER Select **Advanced Control**.

3 ENTER Select **Real Cinema**.

4 Select **On** or **Off**.

5 RETURN Return to the previous menu.

MENU Return to TV viewing.

PICTURE RESET

Settings of the selected picture modes return to the default factory settings.

PICTURE	Move ⊙ Enter
• Contrast	50
• Brightness	50
• Sharpness	50
• Color	50
• Tint	0 R‖‖‖‖‖‖‖G
• Advanced Control	
• Reset	⊙
Screen (RGB-PC)	

➡

PICTURE	Move ⊙ Enter
• Contrast	50
• Brightness	50
ℹ Resetting video configuration...	
• Tint	0 R‖‖‖‖‖‖‖G
• Advanced Control	
• Reset	⊙
Screen (RGB-PC)	

1 MENU — Select **PICTURE**.

2 ENTER — Select **Reset**.

3 ENTER — Initialize the adjusted value.

MENU — Return to TV viewing.

SOUND & LANGUAGE CONTROL

AUTO VOLUME LEVELER (AUTO VOLUME)

Auto Volume makes sure that the volume level remains consistent whether you are watching a commercial or a regular TV program.

AUDIO	◁▷ Move ◉ Enter
Auto Volume	**: Off** ◉
Clear Voice	: On
Balance	0 L‖‖‖‖‖‖‖R
Sound Mode	: Standard
	• SRS TruSurround XT: Off
	• Treble 50
	• Bass 50
	• Reset
	▼

➡

AUDIO	◁▷ Move ◉ Enter	Off
Auto Volume	**: Off**	On ◉
Clear Voice	: On	
Balance	0 L‖‖‖‖‖‖‖R	
Sound Mode	: Standard	
	• SRS TruSurround XT: Off	
	• Treble 50	
	• Bass 50	
	• Reset	
	▼	
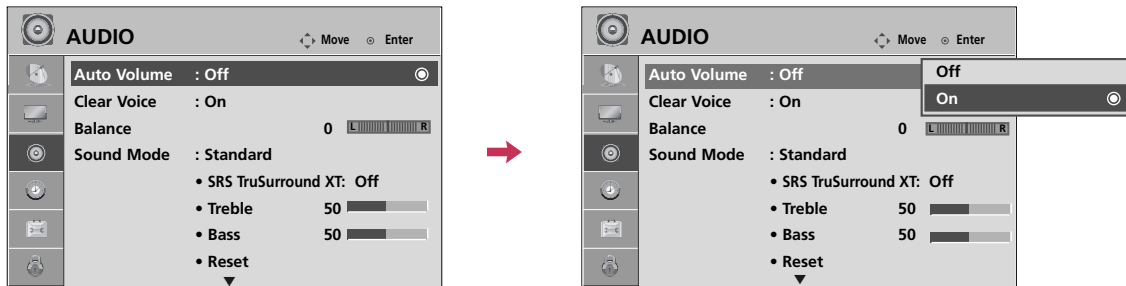
1 (MENU) (◁▷) Select **AUDIO**.

2 (ENTER) (▲▼) Select **Auto Volume**.

3 (ENTER) (▲▼) Select **On** or **Off**.

4 (RETURN) Return to the previous menu.

(MENU) Return to TV viewing.

CLEAR VOICE

By differentiating the human sound range from others, it improves the sound quality of voices.

AUDIO		◆ Move ◎ Enter
Auto Volume	: Off	
Clear Voice	: On	◎
Balance	0	L‖‖‖‖‖‖‖R
Sound Mode	: Standard	
	• SRS TruSurround XT: Off	
	• Treble	50
	• Bass	50
	• Reset	

➡

AUDIO		◆ Move ◎ Enter		
Auto Volume	: Off		Off	
Clear Voice	: On		On	◎
Balance				
Sound Mode	: Standard			
	• SRS TruSurround XT: Off			
	• Treble	50		
	• Bass	50		
	• Reset			

1 MENU / ◀▶▲▼ Select **AUDIO**.

2 ENTER / ▲▼ Select **Clear Voice**.

3 ENTER / ▲▼ Select **On** or **Off**.

4 RETURN Return to the previous menu.

MENU Return to TV viewing.

■ If you select "**Clear Voice-On**", **SRS TruSurround XT** feature will not work.

PRESET SOUND SETTINGS (SOUND MODE)

Sound Mode lets you enjoy the best sound without any special adjustment as the TV sets the appropriate sound options based on the program content.
Standard, **Music**, **Cinema**, **Sport**, and **Game** are preset for optimum sound quality at the factory and are not adjustable.

1
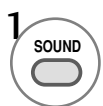
SOUND

Select the sound options: **Standard**, **Music**, **Cinema**, **Sport**, and **Game** (your own settings).

2
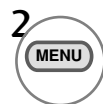
MENU

Return to TV viewing.

■ You can also adjust **Sound Mode** in the **AUDIO** menu.
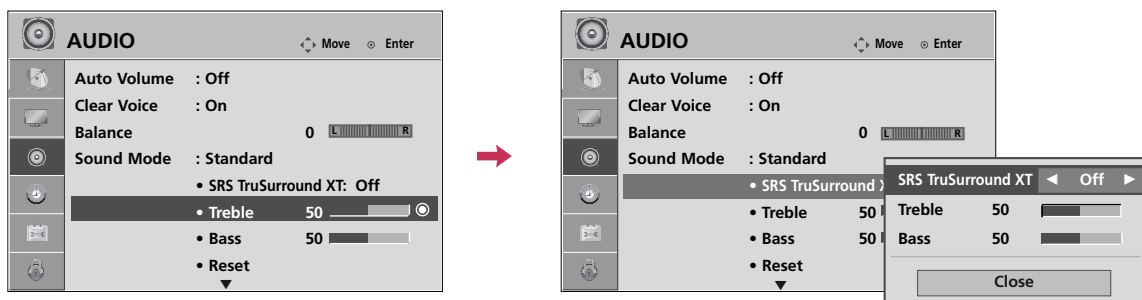
SOUND &LANGUAGE CONTROL

SOUND SETTING ADJUSTMENT - USER MODE

Adjust the sound to suit your taste and room situations.

AUDIO	‹› Move ⊙ Enter
Auto Volume	: Off
Clear Voice	: On
Balance	0 L|||||||||||R
Sound Mode	: Standard
	• SRS TruSurround XT: Off
	• Treble 50 ⊙
	• Bass 50
	• Reset
	▼

AUDIO	‹› Move ⊙ Enter
Auto Volume	: Off
Clear Voice	: On
Balance	0 L|||||||R
Sound Mode	: Standard
	• SRS TruSurround X
	• Treble 50
	• Bass 50
	• Reset
	▼

SRS TruSurround XT	Off
Treble	50 ◄ ►
Bass	50
Close	
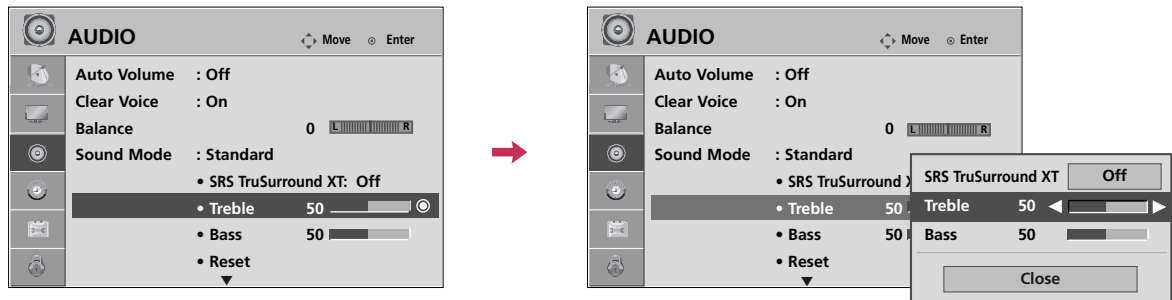
Step	Button	Action
1	MENU ⟨⟩	Select **AUDIO**.
2	ENTER ⊙ ▲▼	Select **Sound Mode**.
3	ENTER ⊙ ▲▼	Select **Standard**, **Music**, **Cinema**, **Sport**, or **Game**.
4	ENTER ⊙ ▲▼	Select **Treble** or **Bass**.
5	ENTER ⊙ ◄►	Make appropriate adjustments.
6	RETURN	Return to the previous menu.
	MENU	Return to TV viewing.

SOUND & LANGUAGE CONTROL

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SRS TRUSURROUND XT

Takes advantage of any multi-channel format without needing to add extra speakers or equipment. Dialog clarity, bass enrichment, and the addition of stereo audio enhancement produces an immersive sound experience from standard stereo material.
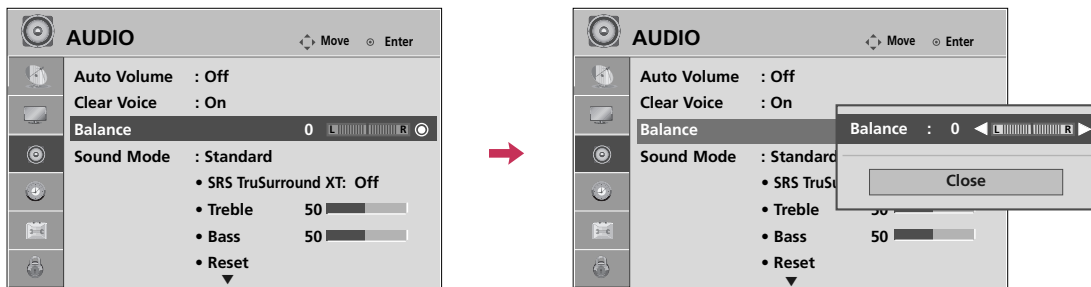

1	Select **AUDIO**.
2	Select **SRS TruSurround XT**
3	Select **On** or **Off**.
4	Return to the previous menu.
	Return to TV viewing.

BALANCE

Adjust the left/right sound of speaker to suit your taste and room situations.

AUDIO	Move Enter
Auto Volume	: Off
Clear Voice	: On
Balance	0 L█████████R
Sound Mode	: Standard
	• SRS TruSurround XT: Off
	• Treble 50
	• Bass 50
	• Reset

AUDIO	Move Enter
Auto Volume	: Off
Clear Voice	: On
Balance	Balance : 0 ◄L█████████R ►
Sound Mode	: Standard Close
	• SRS TruSu
	• Treble
	• Bass 50
	• Reset

1 **MENU** Select **AUDIO**.

2 **ENTER** Select **Balance**.

3 **ENTER** Make appropriate adjustments.

4 **RETURN** Return to the previous menu.

MENU Return to TV viewing.

TV SPEAKERS ON/OFF SETUP

Turn the TV speakers off if using external audio equipment.
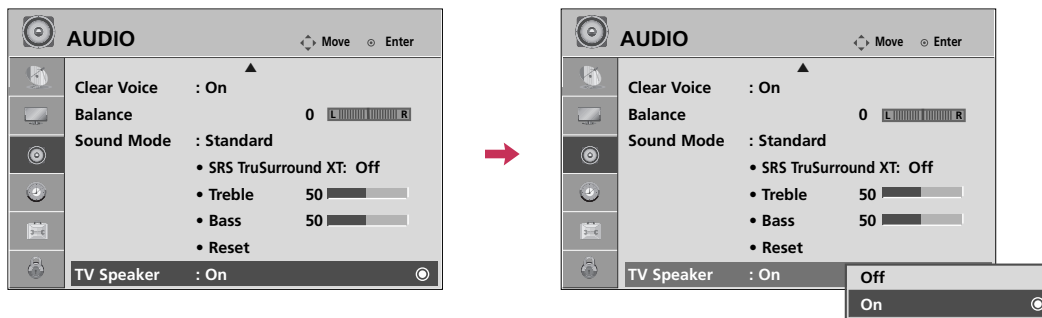
	AUDIO	◇ Move ⊙ Enter
	Clear Voice : On	
	Balance 0 L‖‖‖‖‖‖‖‖R	
	Sound Mode : Standard	
	• SRS TruSurround XT: Off	
	• Treble 50	
	• Bass 50	
	• Reset	
	TV Speaker : On	◎

➡

	AUDIO	◇ Move ⊙ Enter
	Clear Voice : On	
	Balance 0 L‖‖‖‖‖‖‖‖R	
	Sound Mode : Standard	
	• SRS TruSurround XT: Off	
	• Treble 50	
	• Bass 50	
	• Reset	
	TV Speaker : On	**Off**
		On ◎

1 MENU / ◇ Select **AUDIO**.

2 ENTER / ▲▼ Select **TV Speaker**.

3 ENTER / ▲▼ Select **On** or **Off**.

4 RETURN Return to the previous menu.

MENU Return to TV viewing.

AUDIO RESET

Settings of the selected Sound Mode return to the default factory settings.

AUDIO ◈ Move ⊙ Enter	**AUDIO** ◈ Move ⊙ Enter
Auto Volume : Off	Auto Volume : Off
Clear Voice : On	Clear Voice : On
Balance 0 L‖‖‖‖‖‖‖R	Balance
Sound Mode : Standard	☐ Resetting audio configuration...
• SRS TruSurround XT: Off	Sound Mode
• Treble 50	• SRS TruSurround XT: Off
• Bass 50	• Treble 50
• Reset ◎	• Bass 50
▼	• Reset ◎
	▼

1 MENU / Select **AUDIO**.

2 ENTER / Select **Reset**.
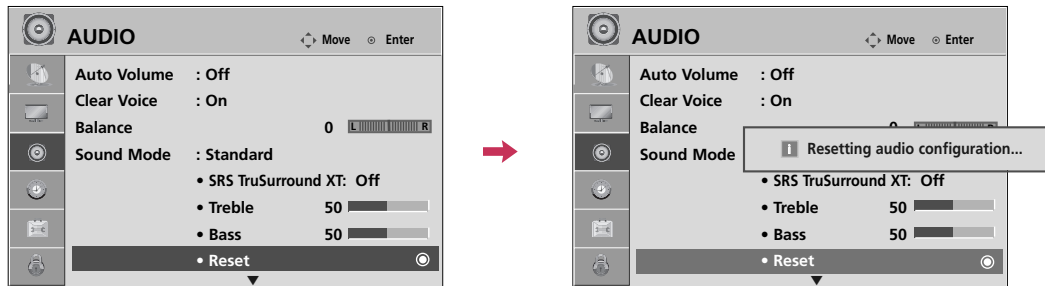
3 ENTER Initialize the adjusted value.

STEREO/SAP BROADCAST SETUP

For Analog only: This TV can receive MTS stereo programs and any SAP (Secondary Audio Program) that accompanies the stereo program if the station transmits an additional sound signal. Mono sound is automatically used if the broadcast is only in Mono.

1 **SAP**   Each time you press the **SAP** button,
        Mono, **Stereo**, or **SAP** appear in turn.
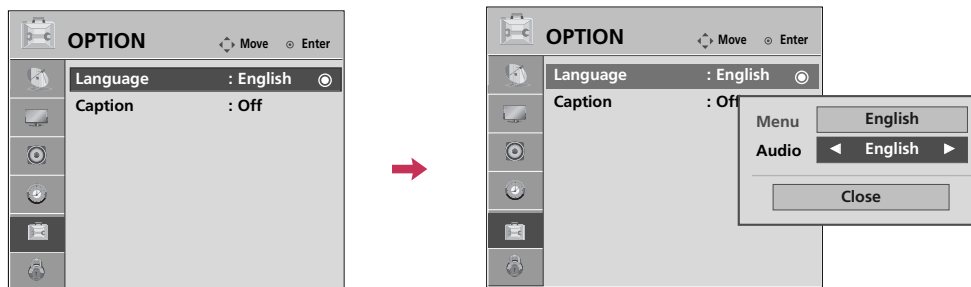
2 **MENU**   Return to TV viewing.

> ■ If other languages available on the digital signal, select them with the **SAP** button.

SOUND &LANGUAGE CONTROL

AUDIO LANGUAGE

Other languages may be available if a digital signal is provided by the broadcasting station.
This feature operates only in DTV/CADTV mode.

OPTION	⬦ Move ⊙ Enter
Language	: English ◉
Caption	: Off

➡

OPTION	⬦ Move ⊙ Enter
Language	: English ◉
Caption	: Of

Menu	English
Audio	◄ English ►
Close	

1 MENU
Select **OPTION**.

2 ENTER
Select **Language**.

3 ENTER
Select **Audio**.

4
Select your desired language:
English, **Spanish**, or **French**

5 RETURN
Return to the previous menu.

MENU
Return to TV viewing.

ON-SCREEN MENUS LANGUAGE SELECTION

The menus can be shown on the screen in the selected language.

OPTION	◇ Move ⊙ Enter
Language	**: English** ⊙
Caption	: Off

➡️

OPTION	◇ Move ⊙ Enter
Language	**: English** ⊙
Caption	: Off

Menu	◀ English ▶
Audio	English
Close	
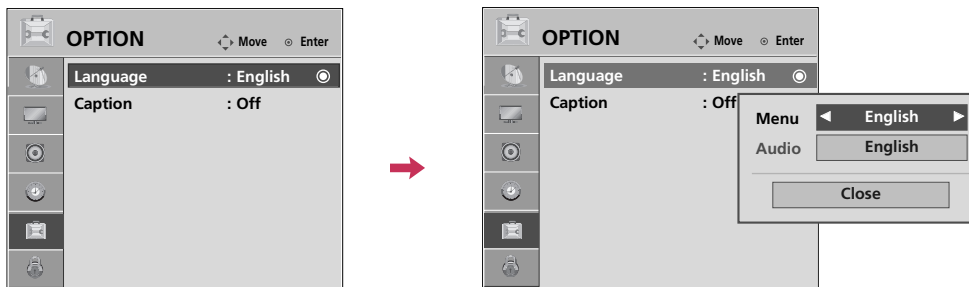
1 **MENU** / **Select OPTION.**

2 **ENTER** / **Select Language.**

3 **ENTER** / **Select Menu.**

4 Select your desired language.
From this point on, the on-screen menus
will be shown in the selected language.

5 **RETURN** Return to the previous menu.

MENU Return to TV viewing.

CAPTION MODE

Caption must be provided to help people with hearing loss watch TV.

1
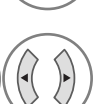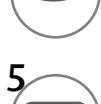
CC Select Caption **On** or **Off**.

■ When selecting **Off**, Sub-menus for Analog, DTV, and Digital Option become disabled.

Analog Broadcasting System Captions

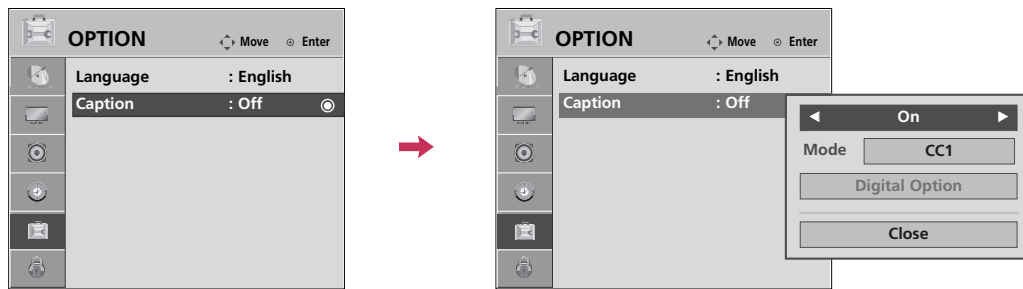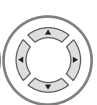Caption must be provided to help people with hearing loss watch TV. Select a caption mode for displaying captioning information if provided on a program. Analog caption displays information at any position on the screen and is usually the program's dialog. Caption/Text, if provided by the broadcaster, would be available for both digital and analog channels on the Antenna/Cable. This TV is programmed to memorize the caption/text mode which was last set when you turned the power off. This function is only available when **Caption** Mode is set **On**.

OPTION	Move Enter
Language	: English
Caption	: Off ◎

OPTION	Move Enter
Language	: English
Caption	: Off

◄ **On** ►
Mode | **CC1**
Digital Option
Close

1
MENU Select **OPTION**.

2
ENTER Select **Caption**.

3
ENTER Select **On**.

4
Select **CC1-4** or **Text1-4**.

5
RETURN Return to the previous menu.

MENU Return to TV viewing.

■ **CAPTION**

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

■ **TEXT**

The term for the words that appear in a large black frame and almost cover the entire screen; usually messages provided by the broadcaster.

Digital Broadcasting System Captions

Choose the language you want the DTV/CADTV Captions to appear in.
Other Languages can be chosen for digital sources only if they are included on the program.
This function in only available when **Caption** Mode is set **On.**

⊞ **OPTION**	↔ Move ⊙ Enter		
Language	: English		
Caption	: Off ◉		

➡️

⊞ **OPTION**	↔ Move ⊙ Enter		
Language	: English		
Caption	: Off		

◄ **On** ►
Mode **Service1**
Digital Option
Close

1 [MENU] [⊙] Select **OPTION.**

2 [ENTER ⊙] [⌃⌄] Select **Caption.**

3 [ENTER ⊙] [◄►] Select **On.**

4 [⌄] [◄►] Select **CC1-4**, **Text1-4**, or **Service1 - 6**.

5 [RETURN] Return to the previous menu.

[MENU] Return to TV viewing.

SOUND &LANGUAGE CONTROL

Caption Option

Customize the DTV/CADTV captions that appear on your screen.
This function in only available when **Caption** Mode is set **On.**

OPTION   ◁▷ Move   ⊙ Enter

Language   : English
Caption   : Off   ◉

OPTION   ◁▷ Move   ⊙ Enter

Language   : English
Caption   : Off

◁   On   ▷
Mode   Service1
          Digital Option
             Close

◁   Custom   ▶
Size   Ⓐ Standard
Font   Font 1
Text Color   ☐ White
Text Opacity   Solid
Bg Color   ■ Black
Bg Opacity   Solid
             Close

1 MENU   Select **OPTION**.

2 ENTER   Select **Caption**

3 ENTER   Select **On**.

4   Select **Digital Option**.

5 ENTER   Select **Custom**.

6   Customize the **Style**, **Font**, etc., to your preference. A preview icon is provided at the bottom of the screen, use it to see the caption language.

7 RETURN   Return to the previous menu.

MENU   Return to TV viewing.

- **Size**: Set the word size.
- **Font**: Select a typeface for the text.
- **Text Color**: Choose a color for the text.
- **Text Opacity**: Specify the opacity for the text color.
- **Bg (Background) Color**: Select a background color.
- **Bg (Background) Opacity**: Select the opacity for the background color.

TIME SETTING

CLOCK SETTING

Auto Clock Setup

The time is set automatically from a digital channel signal.
The digital channel signal includes information for the current time provided by the broadcasting station.
Set the clock manually if the current time is set incorrectly by the auto clock function.

```
┌─────────────────────────────────┐    ┌─────────────────────────────────────────┐
│ 🕐 TIME        ◇ Move ⊙ Enter   │    │ 🕐 TIME        ◇ Move ⊙ Enter            │
│                                 │    │                      ┌──────────────────┐│
│ 🔲 Clock  : Feb/21/2008/ 2:10 AM⊙│    │ 🔲 Clock  : Feb/21/  │ ◀   Auto      ▶ ││
│ 🔲 Off Time  : Off              │    │ 🔲 Off Time  : Off   │ Year      2008   ││
│ 🔲 On Time   : Off              │    │ 🔲 On Time   : Off   │ Month     2      ││
│ ⊙ Sleep Timer : Off            │    │ ⊙ Sleep Timer : Off │ Date      21     ││
│ 🔘 Auto Sleep  : Off           │    │ 🔘 Auto Sleep  : Off│ Hour      2 AM   ││
│ 📺                              │    │ 📺                   │ Minute    10     ││
│ 🔒                              │    │ 🔒                   │                  ││
│                                 │    │                      │ Time Zone  Eastern││
│                                 │    │                      │ Daylight   Auto  ││
│                                 │    │                      │ Saving           ││
│                                 │    │                      │    Close         ││
└─────────────────────────────────┘    └──────────────────────└──────────────────┘
```

1 (MENU) (◇)   Select **TIME**.

2 (ENTER) (↕)   Select **Clock**.
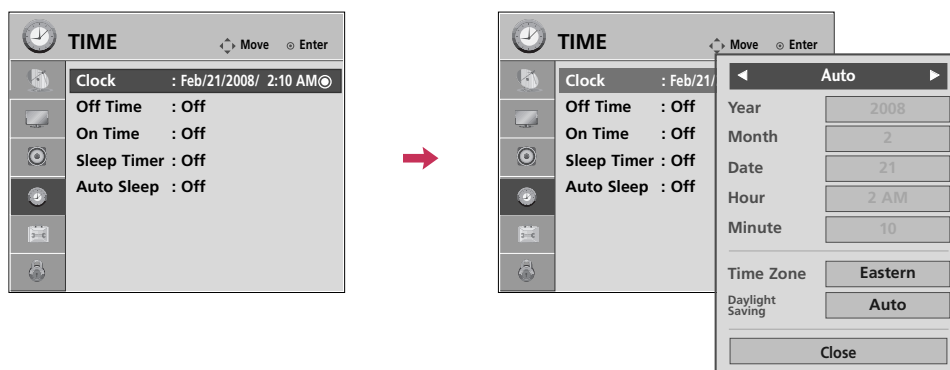
3 (ENTER) (◀▶)   Select **Auto**.

4 (↓) (◀▶)   Select your viewing area time zone.
• U.S.A: **Eastern**, **Central**, **Mountain**, **Pacific**, **Alaska**, or **Hawaii**.

5 (↓) (◀▶)   Select **Auto**, **On**, or **Off** (depending on whether or not your viewing area observes Daylight Saving time).

6 (RETURN)   Return to the previous menu.

(MENU)   Return to TV viewing.

Manual Clock Setup

If the current time setting is wrong, reset the clock manually.

	TIME	◇ Move ⊙ Enter
	Clock	: Feb/21/2008/ 2:10 AM⦿
	Off Time	: Off
	On Time	: Off
	Sleep Timer	: Off
	Auto Sleep	: Off

	TIME	◇ Move ⊙ Enter
	Clock	: Feb/21/2008/ 2:
	Off Time	: Off
	On Time	: Off
	Sleep Timer	: Off
	Auto Sleep	: Off

◀	**Manual**	▶
Year		2008
Month		2
Date		21
Hour		2 AM
Minute		10
Time Zone		Eastern
Daylight Saving		Auto
	Close	

1 MENU

Select **TIME**.

2 ENTER

Select **Clock**.

3 ENTER

Select **Manual**.

4
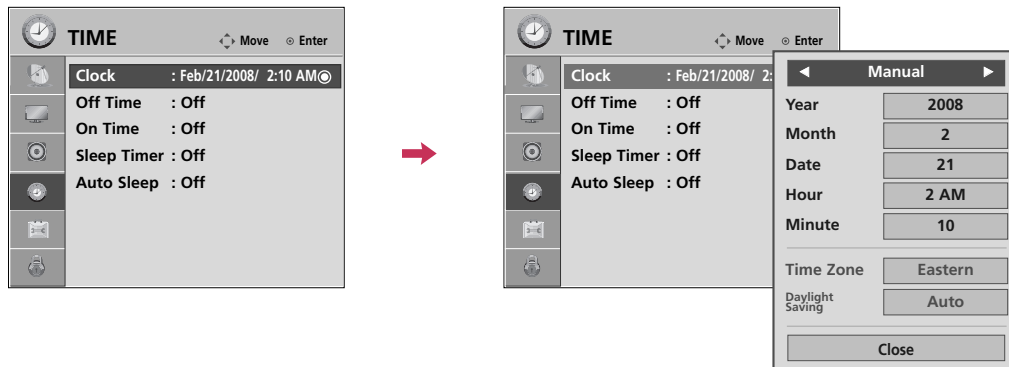
Select the Year, Month, Date, Hour, or Minutes option.

5

Set the Year, Month, Date, Hour, or Minutes option.

6 RETURN

Return to the previous menu.

MENU

Return to TV viewing.

AUTO ON/OFF TIME SETTING

This function operates only if the current time has been set.

The **Off Time** function overrides the **On Time** function if they are both set to the same time.

The TV must be in standby mode for the **On Time** to work.

TIME	⬍ Move ⊚ Enter
Clock	: Feb/21/2008/ 2:10 AM
Off Time	: Off
On Time	: Off ⊚
Sleep Timer	: Off
Auto Sleep	: Off

➡

TIME	⬍ Move ⊚ Enter		
Clock	: Feb/21/2008/ 2:10 AM		
Off Time	: Off	Repeat	◄ Once ►
On Time	: 6:30 AM	Hour	6 AM
Sleep Timer	: Off	Minute	30
Auto Sleep	: Off		Close
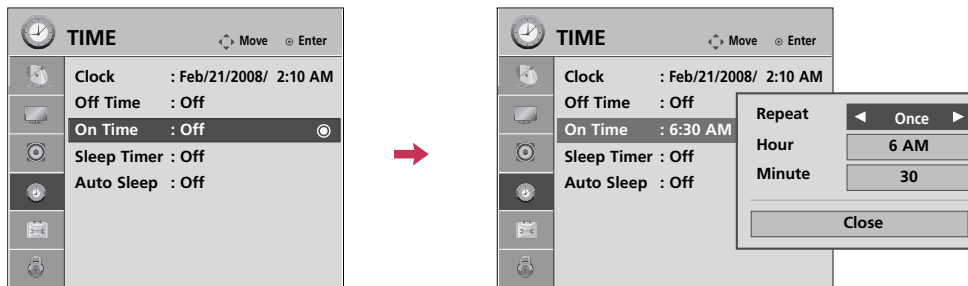
1 MENU — Select **TIME**.

2 ENTER — Select **Off time** or **On time**.

3 ENTER — Select **Repeat**.

4 — Select **Off**, **Once**, **Everyday**, **Mon~Fri**, **Mon~Sat**, **Weekend**, or **Sunday**.

5 — Select and set **Hour** or **Minute**.

6 RETURN — Return to the previous menu.

MENU — Return to TV viewing.

SLEEP TIMER SETTING

The Sleep Time turns the TV off at the preset time.
Note that this setting is cleared when the TV is turned off.

1
TIMER

Select the sleep timer options:
Off, 10, 20, 30, 60, 90, 120, 180, and 240 minutes.

2
ENTER

■ You can also adjust **Sleep Timer** in the **Time** menu.

AUTO SHUT-OFF SETTING

TV will be automatically turned off, in case of no signal for 10 minutes.
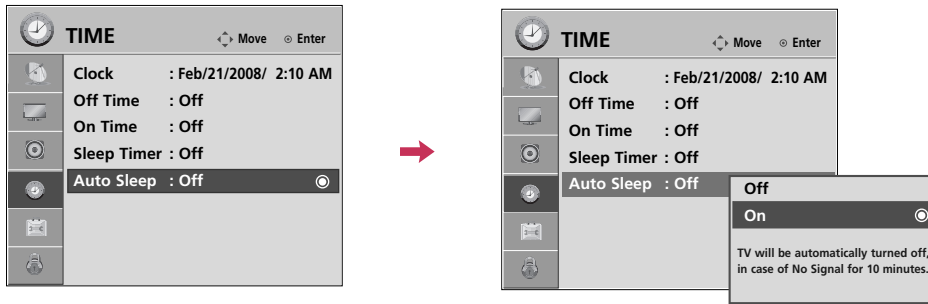
TIME	⬩ Move ⊙ Enter
Clock	: Feb/21/2008/ 2:10 AM
Off Time	: Off
On Time	: Off
Sleep Timer	: Off
Auto Sleep	: Off ◉

TIME	⬩ Move ⊙ Enter
Clock	: Feb/21/2008/ 2:10 AM
Off Time	: Off
On Time	: Off
Sleep Timer	: Off
Auto Sleep	: Off

Off
On ◉

TV will be automatically turned off, in case of No Signal for 10 minutes.

1
MENU

Select **TIME**.

2
ENTER

Select **Auto Sleep**.

3
ENTER

Select **On** or **Off**.

4
RETURN

Return to the previous menu.

MENU

Return to TV viewing.

TIME SETTING

PARENTAL CONTROL / RATINGS

Parental Control can be used to block specific channels, ratings and other viewing sources.

The Parental Control Function (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 choosing the type of the program and the categories. It is also possible to block all program viewing for a time period. To use this function, the following must be done :

1. Set ratings and categories to be blocked.
2. Specify a password
3. Enable the lock

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 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)

SET PASSWORD & LOCK SYSTEM

Setting up Your Password

Set up blocking schemes to block specific channels, ratings, and external viewing sources.
A password is required to gain access to this menu.

LOCK	◇ Move ◉ Enter
Lock System	: Off
Set Password	
Block Channel	
Movie Rating	
TV Rating-Children	
TV Rating-General	
Downloadable Rating	
Input Block	

Enter Password

| * | * | * | * |

Close

1

MENU   ENTER   Select **LOCK**.

2
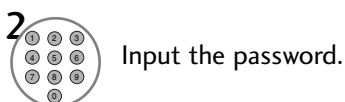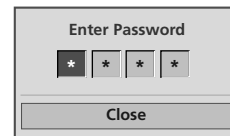
Input the password.

- Enter the password as requested.
- The TV is set up with the initial password "0-0-0-0".

Lock System

Enables or disables the blocking scheme you set up previously.

	LOCK	◁▷ Move ⊙ Enter	→		LOCK	◁▷ Move ⊙ Enter

Left menu:
- Lock System : Off ⊙
- Set Password
- Block Channel
- Movie Rating
- TV Rating-Children
- TV Rating-General
- Downloadable Rating
- Input Block

Right menu:
- Lock System : On | Off
- Set Password | On ⊙
- Block Channel
- Movie Rating
- TV Rating-Children
- TV Rating-General
- Downloadable Rating
- Input Block

1 MENU / ENTER   Select **LOCK**.
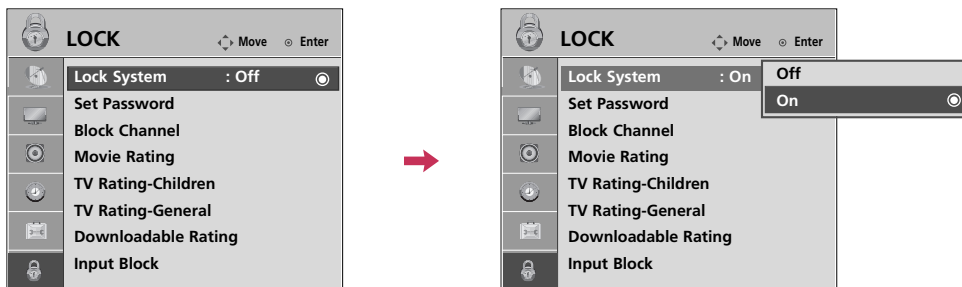
2 Input the password.

3 Select **Lock System**.

4 ENTER   Select **On** or **Off**.

■ When you select **On**, the Lock System is enable.

5 RETURN   Return to the previous menu.

MENU   Return to TV viewing.
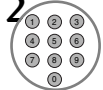
PARENTAL CONTROL /RATINGS

Set Password

Change the password by inputting a new password twice.

1 **MENU** ... **ENTER** Select **LOCK**.

2 [number pad] Input the password.
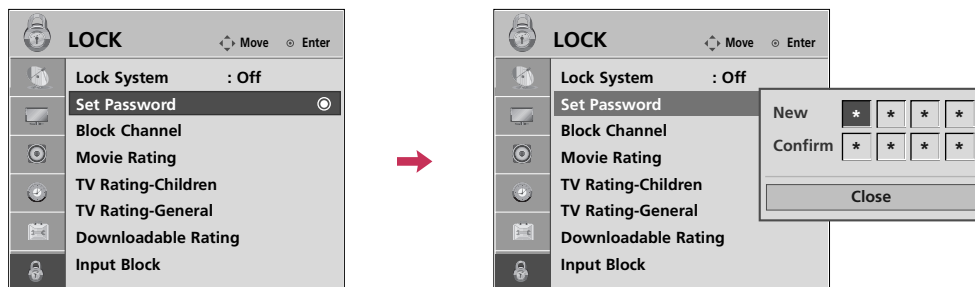
3 [up/down] Select **Set password**.

4 **ENTER** [number pad] Choose any 4 digits for your new password.
As soon as the 4 digits are entered, re-enter the same 4 digits on the **Confirm**.

5 **RETURN** Return to the previous menu.

MENU Return to TV viewing.

CHANNEL BLOCKING

Blocks any channels that you do not want to watch or that you do not want your children to watch.

LOCK	⟨⟩ Move ⊙ Enter
Lock System	: Off
Set Password	
Block Channel	◉
Movie Rating	
TV Rating-Children	
TV Rating-General	
Downloadable Rating	
Input Block	

7-1

	DIGITAL		ANALOG
7-1	9-1	9-5	11-1
13-1	13-2	13-3	13-4
13-5	15-1	15-2	15-3
15-4	80-2	100-156	100-167
120-112	120-123	130-134	130-145
131-11			

◉ Block/Unblock ⟨⟩ Move CH +/- Move Page RETURN Previous MENU Exit

1
MENU ENTER Select **LOCK**.
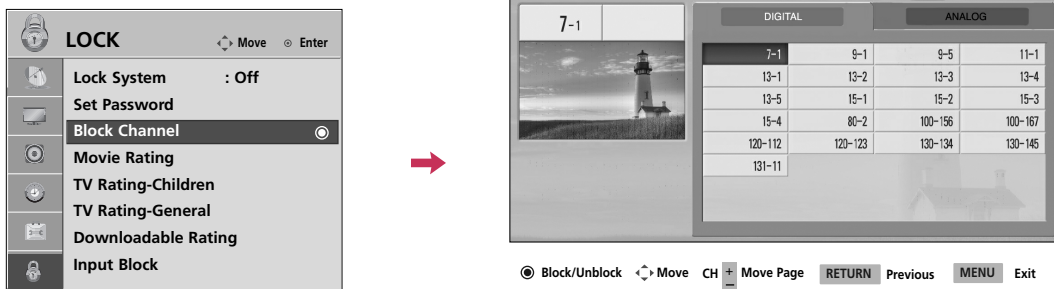
2
Input the password.

3
Select **Block Channel**.

4
ENTER Select a channel to block or unblock.

5
ENTER Block or unblock a channel.

6
RETURN Return to the previous menu.

MENU Return to TV viewing.

MOVIE & TV RATING

Movie Rating (MPAA)

Blocks movies according to the movie ratings limits specified, so children cannot view certain movies. You can set the ratings limit by blocking out all the movies with the ratings above a specified level. Keep in mind that the movie ratings limit only applies to movies shown on TV, not TV programs, such as soap operas.

LOCK	⬩ Move ⊙ Enter
Lock System	: Off
Set Password	
Block Channel	
Movie Rating	◉
TV Rating-Children	
TV Rating-General	
Downloadable Rating	
Input Block	

➡

LOCK	⬩ Move ⊙ Enter
Lock System	: Off
Set Password	
Block Channel	
Movie Rating	
TV Rating-Children	
TV Rating-General	
Downloadable Rating	
Input Block	

Blocking off : Permits all programs
- G
- PG
- PG-13
- R
- NC-17
- X
- **Blocking Off** 🔓

1
MENU ⬩ ENTER ⊙   Select **LOCK**.
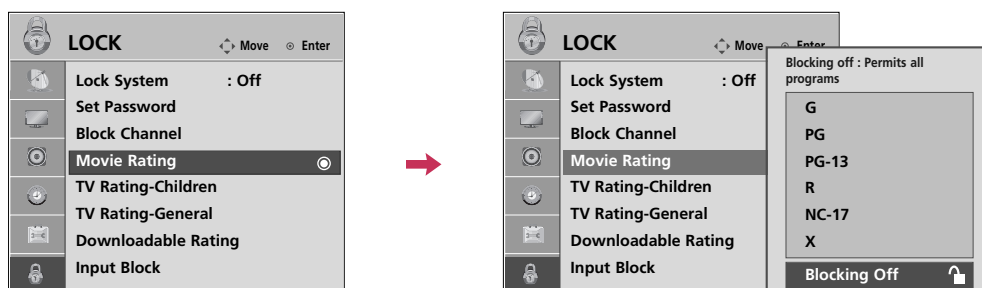
2
①②③④⑤⑥⑦⑧⑨⓪   Input the password.

3
▲▼   Select **Movie Rating**.

4
ENTER ⊙   ▲▼   Select **G**, **PG**, **PG-13**, **R**, **NC-17**, **X**, or **Blocking Off**.

5
RETURN   Return to the previous menu.

MENU   Return to TV viewing.

- 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)
- Blocking Off (Permits all programs)
▶ If you set PG-13: G and PG movies will be available, PG-13, R, NC-17 and X will be blocked.

TV Rating Children

Prevents children from watching certain children's TV programs, according to the ratings limit set. The children rating does not apply to other TV programs. Unless you block certain TV programs intended for mature audiences in the TV Rating - sub menu, your children can view those programs.

LOCK	◇ Move ⊙ Enter
🔲 Lock System	: Off
🔲 Set Password	
Block Channel	
⊙ Movie Rating	
🕐 TV Rating-Children	⦿
📺 TV Rating-General	
Downloadable Rating	
🔒 Input Block	

LOCK	◇ Move ⊙ Enter
🔲 Lock System	: Off
🔲 Set Password	
Block Channel	
⊙ Movie Rating	
🕐 TV Rating-Children	
📺 TV Rating-General	
Downloadable Rating	
🔒 Input Block	

Age	▶
Fantasy Violence	
Close	

1 MENU / ENTER   Select **LOCK**.
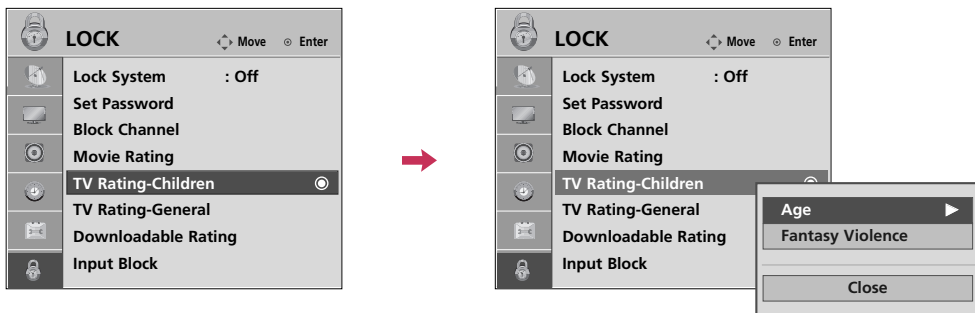
2   Input the password.

3   Select **TV Rating-Children**.

4 ENTER   Select **Age** or **Fantasy Violence**.

■ Age (applies to TV-Y, TV-Y7)
■ Fantasy Violence (applies to TV-Y7)

5 ENTER   Select block options.

PARENTAL CONTROL / RATING

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TV Rating General

Based on the ratings, blocks certain TV programs that you and your family do not want to view.

LOCK	◈ Move ⊙ Enter
Lock System	: Off
Set Password	
Block Channel	
Movie Rating	
TV Rating-Children	
TV Rating-General	◉
Downloadable Rating	
Input Block	

LOCK	◈ Move ⊙ Enter
Lock System	: Off
Set Password	
Block Channel	
Movie Rating	
TV Rating-Children	
TV Rating-General	
Downloadable Rating	
Input Block	

Age	▶
Dialogue	
Language	
Sex	
Violence	
Close	

1
MENU ENTER Select **LOCK**.

2
Input the password.
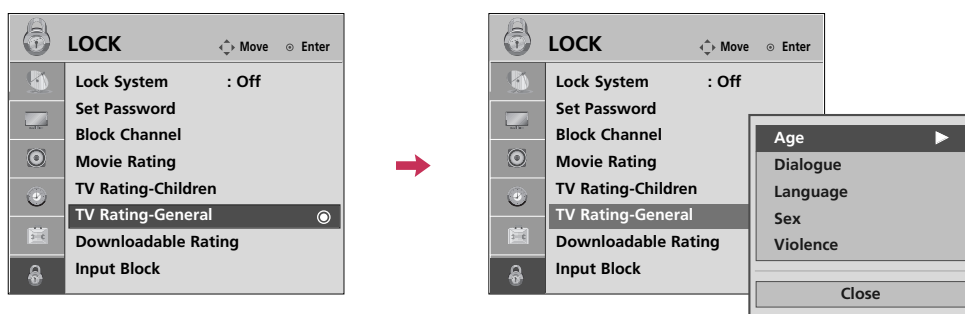
3
Select **TV Rating-General**.

4
ENTER Select **Age**, **Dialogue**, **Language**, **Sex** or **Violence**.

5
ENTER Select block options.

6
RETURN Return to the previous menu.

MENU Return to TV viewing.

- Age (applies to TV-G,TV-PG,TV-14,TV-MA).
- Dialogue-sexual dialogue (applies to TV-PG,TV-14).
- 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).

DOWNLOADABLE RATING

This function may become available in the future and will be available only for digital channels.
This function operates only when TV has received Region5 Rating data.

LOCK	◇ Move ◉ Enter
Lock System	: Off
Set Password	
Block Channel	
Movie Rating	
TV Rating-Children	
TV Rating-General	
Downloadable Rating	◉
Input Block	

LOCK	◇ Move ◉ Enter
Lock System	: Off
Set Password	
Block Channel	
Movie Rating	
TV Rating-Children	
TV Rating-General	
Downloadable Rating	
Input Block	

▲
Humor
Sport
Cruelty
Language
Sadness
Genre
Age
▼

Close
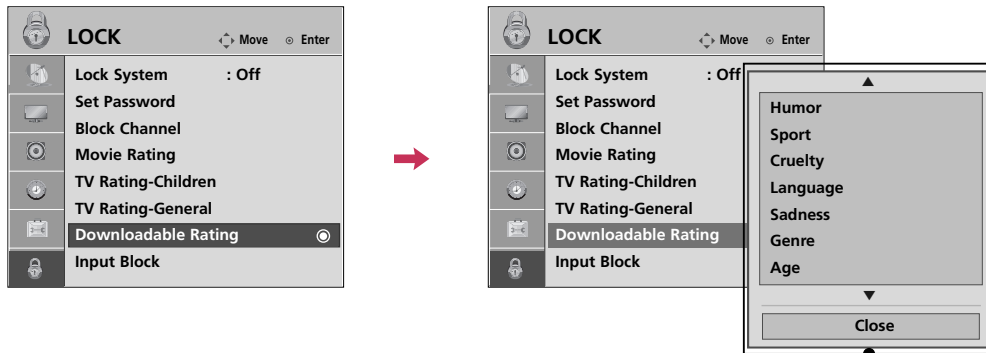
■ Based on rating table, your TV's OSD (On Screen Display) may differ slightly from what is shown in this manual.

1
MENU ENTER Select **LOCK**.

2
Input the password.

3
Select **Downloadable Rating**.

4
ENTER Select desired **Downloadable Rating** option.

5
ENTER Select desired option and block it.

6
RETURN Return to the previous menu.

MENU Return to TV viewing.

EXTERNAL INPUT BLOCKING

Enables you to block an input.

LOCK	◇ Move ⊙ Enter
Lock System	: Off
Set Password	
Block Channel	
Movie Rating	
TV Rating-Children	
TV Rating-General	
Downloadable Rating	
Input Block	◎

➡

LOCK	◇ Move ⊙ Enter
Lock System	: Of
Set Password	
Block Channel	
Movie Rating	
TV Rating-Children	
TV Rating-General	
Downloadable Rating	
Input Block	

AV1	◄ Off ►	
AV2	Off	
Component	Off	
RGB-PC	Off	
HDMI	Off	
Close		

1 MENU ENTER Select **LOCK**.
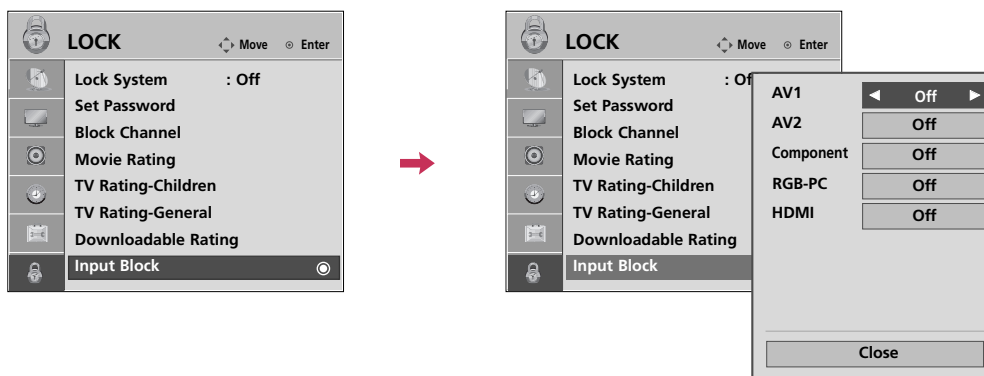
2 Input the password.

3 Select **Input Block**.

4 ENTER Select input source.

5 Select **On** or **Off**.

6 RETURN Return to the previous menu.

MENU Return to TV viewing.

APPENDIX

TROUBLESHOOTING

The operation does not work normally.

The remote control doesn't work	■ Check to see if there is any object between the product and the remote control causing obstruction. Ensure you are pointing the remote control directly at the TV. ■ Ensure that the batteries are installed with correct polarity (+ to +, - to -). ■ Ensure that the correct remote operating mode is set: TV, VCR etc. ■ Install new batteries.
Power is suddenly turned off	■ Is the sleep timer set? ■ Check the power control settings. Power interrupted.

The video function does not work.

No picture &No sound	■ Check whether the product is turned on. ■ Try another channel. The problem may be with the broadcast. ■ Is the power cord inserted into wall power outlet? ■ Check your antenna direction and/or location. ■ Test the wall power outlet, plug another product's power cord into the outlet where the product's power cord was plugged in.
Picture appears slowly after switching on	■ This is normal, the image is muted during the product startup process. Please contact your service center, if the picture has not appeared after five minutes.
No or poor color or poor picture	■ Adjust Color in menu option. ■ Keep a sufficient distance between the product and the VCR. ■ Try another channel. The problem may be with the broadcast. ■ Are the video cables installed properly? ■ Activate any function to restore the brightness of the picture.
Horizontal/vertical bars or picture shaking	■ Check for local interference such as an electrical appliance or power tool.
Poor reception on some channels	■ Station or cable product experiencing problems, tune to another station. ■ Station signal is weak, reorient antenna to receive weaker station. ■ Check for sources of possible interference.
Lines or streaks in pictures	■ Check antenna (Change the direction of the antenna).
No picture when connecting HDMI	■ Check HDMI cable over version 1.3. The HDMI cables don't support HDMI version 1.3, it cause flickers or no screen display. In this case use the latest cables that support HDMI version 1.3. *This feature is not available for all models.

APPENDIX

The audio function does not work.	
Picture OK & No sound	■ Press the VOL or VOLUME button. ■ Sound muted? Press MUTE button. ■ Try another channel. The problem may be with the broadcast. ■ Are the audio cables installed properly?
No output from one of the speakers	■ Adjust Balance in menu option.
Unusual sound from inside the product	■ A change in ambient humidity or temperature may result in an unusual noise when the product is turned on or off and does not indicate a fault with the product.
No sound when connecting HDMI or USB	■ Check HDMI cable over version 1.3. ■ Check USB cable over version 2.0. ■ Use normal MP3 file. *This feature is not available for all models.

There is a problem in PC mode. (Only PC mode applied)	
The signal is out of range	■ Adjust resolution, horizontal frequency, or vertical frequency. ■ Check the input source.
Vertical bar or stripe on background & Horizontal Noise & Incorrect position	■ Work the Auto configure or adjust clock, phase, or H/V position. (Option)
Screen color is unstable or single color	■ Check the signal cable. ■ Reinstall the PC video card.

MAINTENANCE

Early malfunctions can be prevented. Careful and regular cleaning can extend the amount of time you can enjoy your new TV.

Caution: Be sure to turn the power off and unplug the power cord before you begin any cleaning.

Cleaning the Screen

Here's a great way to keep the dust off your screen for a while. Wet a soft cloth in a mixture of lukewarm water and a little fabric softener or dish washing detergent. Wring the cloth until it's almost dry, and then use it to wipe the screen.

Make sure the excess water is off the screen, and then let it air-dry before you turn on your TV.

Cleaning the Cabinet

- To remove dirt or dust, wipe the cabinet with a soft, dry, lint-free cloth.
- Please be sure not to use a wet cloth.

Extended Absence

> ⚠ **CAUTION**

> ▶ If you expect to leave your TV dormant for a long time (such as a vacation), it's a good idea to unplug the power cord to protect against possible damage from lightning or power surges.

PRODUCT SPECIFICATIONS

	MODEL	26LG3DCH (26LG3DCH-UA)	32LG3DC 32LG3DCH (32LG3DC-UA/32LG3DCH-UA)
Dimensions (Width x Height x Depth)	With stand	26.1 x20.0 x 8.9 inches 663.3 x 508.2 x 227.3 mm	31.5 x 23.7 x 9.1 inches 801.8 x 604.2 x 232 mm
	Without stand	26.1 x 17.6 x 3.1 inches 663.3 x 449.8 x 80.0 mm	31.5 x 21.4 x 4.2 inches 801.8 x 544.4 x 109 mm
Weight	With stand Without stand	22.2 pounds / 10.1 kg 18.9 pounds / 8.6 kg	29.5 pounds / 13.4 kg 26.2 pounds / 11.9 kg
Power requirement Television System Program Coverage External Antenna Impedance			AC100-240V ~(only 32LG3DC)/ 110V 50/60Hz NTSC-M, VSB, 64 & 256 QAM VHF 2-13, UHF 14-69, CATV 1-135, DTV 2-69, CADTV 1-135 75 ohm
Environment condition	Operating Temperature Operating Humidity		32 ~ 104°F (0 ~ 40°C) Less than 80%
	Storage Temperature Storage Humidity		-4 ~ 140°F (-20 ~ 60°C) Less than 85%

- The specifications shown above may be changed without prior notice for quality improvement.
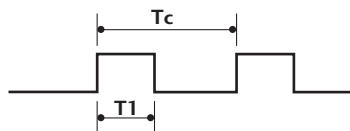
APPENDIX

IR CODES

1. How to Connect

■ Connect your wired remote control to the Remote Control port on the TV.
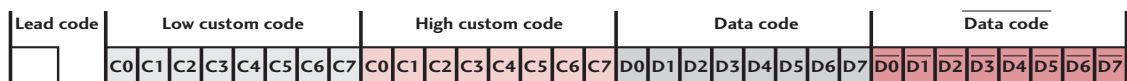
2. Remote Control IR Codes

■ **Output waveform**

Single pulse, modulated with 37.917KHz signal at 455KHz

Carrier frequency

$FCAR = 1/TC = fOSC/12$

Duty ratio = $T1/TC = 1/3$

■ **Configuration of frame**

1st frame

Lead code	Low custom code								High custom code								Data code								Data code							
	C0	C1	C2	C3	C4	C5	C6	C7	C0	C1	C2	C3	C4	C5	C6	C7	D0	D1	D2	D3	D4	D5	D6	D7	D0	D1	D2	D3	D4	D5	D6	D7

Repeat frame

Repeat code   Tf

■ **Lead code**

9 ms   4.5 ms

■ **Repeat code**

0.55 ms

9 ms   2.25 ms

■ **Bit description**

Bit "0"   Bit "1"

0.56 ms   0.56 ms

1.12 ms   2.24 ms
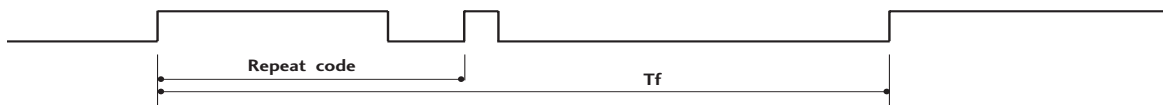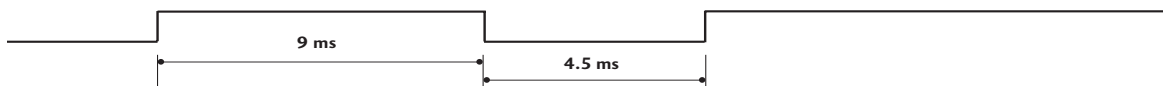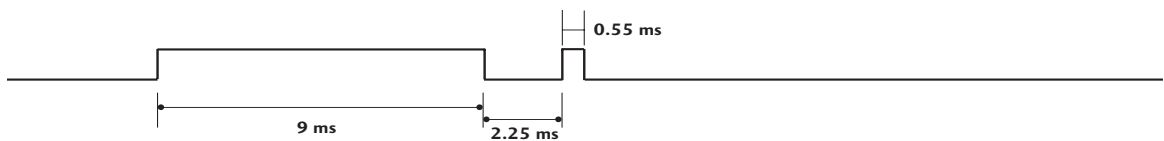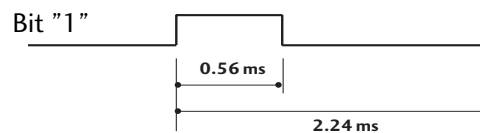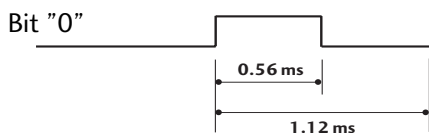
■ **Frame interval: Tf**

The waveform is transmitted as long as a key is depressed.

Tf   Tf   Tf=108ms @455KHz
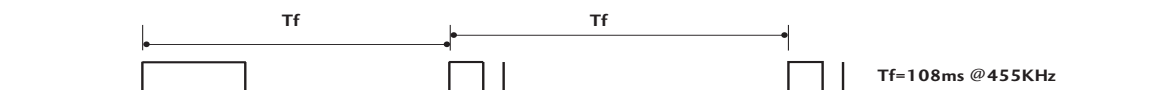
Code (Hexa)	Function	Note	Code (Hexa)	Function	Note
08	POWER	Remote control Button (Power On/Off)	D6	TV	Discrete IR Code (TV Input Selection)
0F	TV	Remote control Button	5A	AV1	Discrete IR Code (AV1 Input Selection)
0B	INPUT	Remote control Button	BF	COMPONENT	Discrete IR Code
4D	PICTURE	Remote control Button			(COMPONENT Input Selection)
52	SOUND	Remote control Button	D5	RGB	Discrete IR Code (RGB Input Selection)
0A	SAP	Remote control Button	CE	HDMI1	Discrete IR Code (HDMI1 Input Selection)
79	RATIO	Remote control Button	76	Ratio 4:3	Discrete IR Code (Only 4:3 Mode)
10-19	Number Key 0-9	Remote control Button	77	Ratio 16:9	Discrete IR Code (Only 16:9 Mode)
4C	- (Dash)	Remote control Button	AF	Ratio Zoom	Discrete IR Code (Only Zoom1 Mode)
1A	FLASHBK	Remote control Button	C4	POWER ON	Discrete IR Code (Only Power On)
02	VOL +	Remote control Button	C5	POWER OFF	Discrete IR Code (Only Power Off)
03	VOL -	Remote control Button			
00	CH +	Remote control Button			
01	CH -	Remote control Button			
0E	TIMER	Remote control Button			
39	CC	Remote control Button			
09	MUTE	Remote control Button			
CB	ADJUST	Remote control Button			
43	MENU	Remote control Button			
5B	RETURN	Remote control Button			
40	▲	Remote control Button			
41	▼	Remote control Button			
07	◄	Remote control Button			
06	►	Remote control Button			
44	ENTER	Remote control Button			

LG Electronics Inc.