

# LCD TV | PLASMA TV OWNER'S MANUAL

#### LCD TV MODELS PLASMA TV MODELS

22/26LG1\*\*\*
32/37LG1\*\*\*
42/47LG1\*\*\*
50PG1\*\*\*
22/26LG3\*\*\*
42PG2\*\*\*
32/37LG3\*\*\*
50PG2\*\*\*

32LG5\*\*\* 37/42LG5\*\*\* 47/52LG5\*\*\*

Please read this manual carefully before operating your set. Retain it for future reference.

Record model number and serial number of the set. Refer to the label on the back cover and quote this information.

To your dealer when requiring service.

#### Use of ferrite core (This feature is not available for all models.)

Ferrite core can be used to reduce the electromagnetic wave when connecting the power cord.

The closer the location of the ferrite core to the power plug, the better it is.



## **ACCESSORIES**

on the screen

available

for all models.

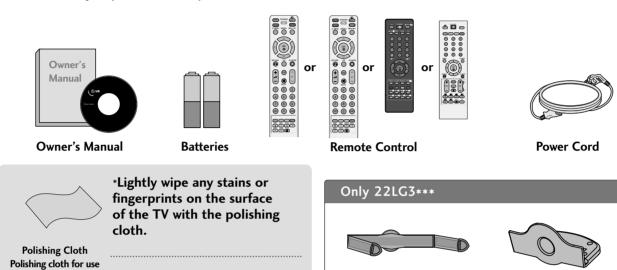
This feature is not

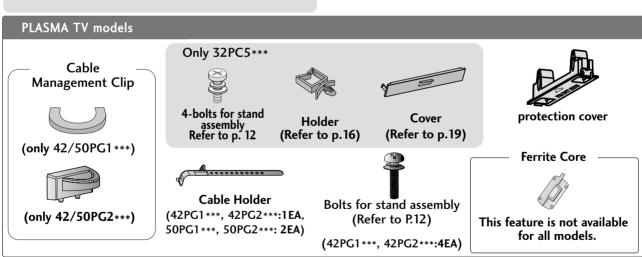
Do not use excessive force.

discolouration.

This may cause scratching or

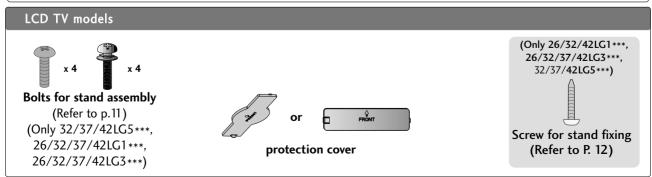
Ensure that the following accessories are included with your TV. If an accessory is missing, please contact the dealer where you purchased the product.





Cable Management Clip

**Protection Cover** 



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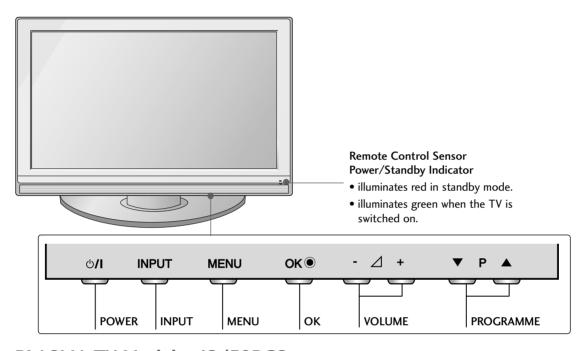
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# **PREPARATION**

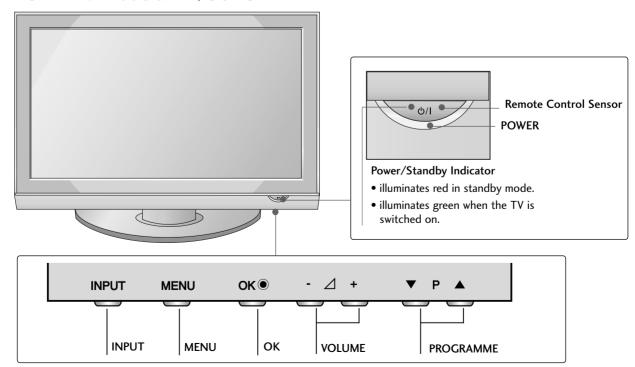
### FRONT PANEL CONTROLS

- This is a simplified representation of the front panel. Image shown may differ from your TV.
- If your product has a protection film attached, remove the film and then wipe the product with a polishing cloth.

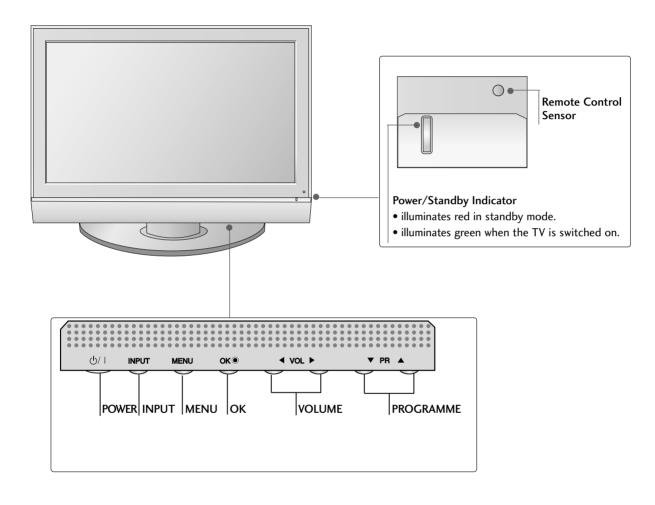
#### PLASMA TV Models: 42/50PG1\*\*\*



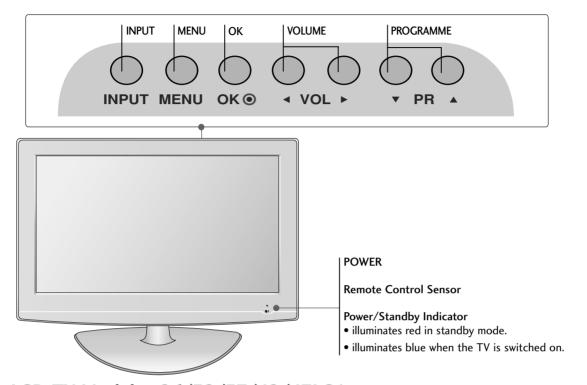
#### PLASMA TV Models: 42/50PG2\*\*\*



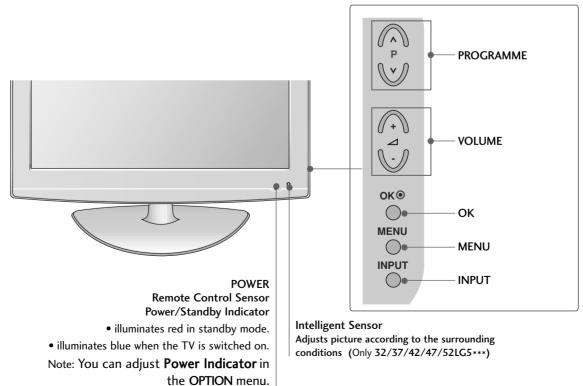
### PLASMA TV Models: 32PC5\*\*\*



### LCD TV Models: 22LG1\*\*\*, 22LG3\*\*\*



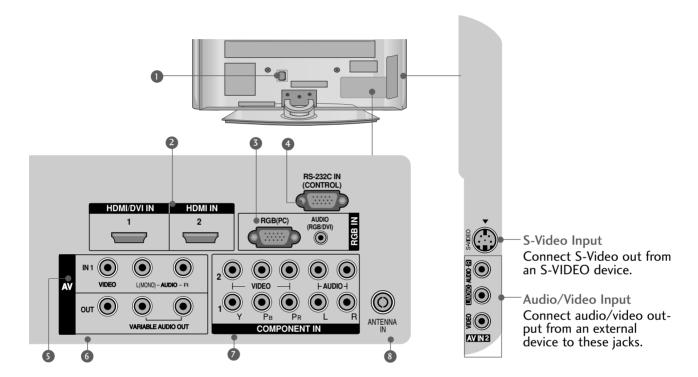
LCD TV Models: 26/32/37/42/47LG1\*\*\*, 26/32/37/42/47LG3\*\*\*, 32/37/42/47/52LG5\*\*\*



## **BACK PANEL INFORMATION**

■ Image shown may differ from your TV.

#### **PLASMA TV Models**



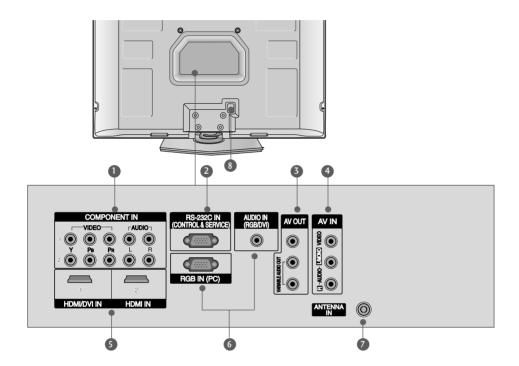
- Power Cord Socket
  - This TV operates on an AC power. The voltage is indicated on the Specifications page. Never attempt to operate the TV on DC power.
- 2 HDMI Input Connect a HDMI signal to HDMI IN. Or DVI(VIDEO)signal to HDMI/DVI port with DVI to HDMI cable.
- SRGB/Audio Input Connect the monitor output from a PC to the appropriate input port.
- RS-232C Input (CONTROL) Port Connect the serial port of the control devices to the RS-232C jack. (This feature is not available for all models.)

- (5) Audio/Video Input (AV IN 1)
  Connect audio/video output from an external device to these jacks.
- 6 AV Output Connect second TV or monitor to the AV OUT socket on the TV. Variable Audio Output Connect an external amplifier or add a subwoofer to your surround sound system.
- Component Input Connect a component video/audio device to these jacks.
- Antenna Input Connect RF antenna to this jack.

## **BACK PANEL INFORMATION**

■ Image shown may differ from your TV.

Only 32PC5\*\*\*



- Component Input Connect a component video/audio device to these jacks.
- 2 RS-232C Input (CONTROL&SERVICE) Port Connect the serial port of the control devices to the RS-232C jack.
- 3 AV Output

Connect second TV or monitor to the AV OUT socket on the TV.

Variable Audio Output

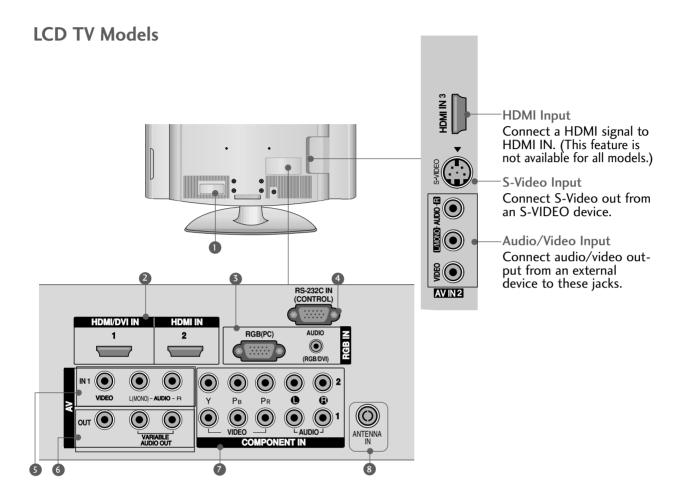
Connect an external amplifier or add a subwoofer to your surround sound system.

4 Audio/Video Input (AV IN) Connect audio/video output from an external device to these jacks. 6 HDMI Input

Connect a HDMI signal to HDMI IN.
Or DVI(VIDEO) signal to HDMI/DVI port with DVI to HDMI cable.

- 6 RGB/Audio Input Connect the monitor output from a PC to the appropriate input port.
- Antenna Input Connect RF antenna (UHF) to this jack.
- Power Cord Socket

This TV operates on an AC power. The voltage is indicated on the Specifications page. Never attempt to operate the TV on DC power.



Power Cord Socket

This TV operates on an AC power. The voltage is indicated on the Specifications page. Never attempt to operate the TV on DC power.

- 2 HDMI Input
  - Connect a HDMI signal to HDMI IN. Or DVI(VIDEO) signal to HDMI/DVI port with DVI to HDMI cable.
- S RGB/Audio Input Connect the monitor output from a PC to the appropriate input port.
- 4 RS-232C Input (CONTROL) Port Connect the serial port of the control devices to the RS-232C jack. (This feature is not available for all models.)

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

Connect second TV or monitor to the AV OUT socket on the TV. Variable Audio Output

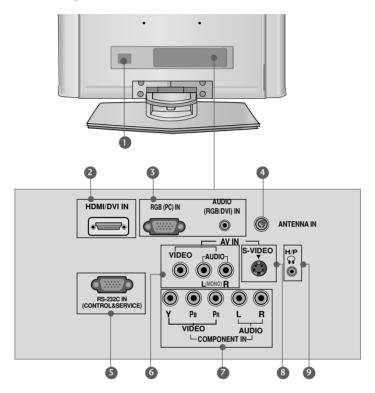
Connect an external amplifier or add a subwoofer to your surround sound system.

- Component Input Connect a component video/audio device to these jacks.
- 8 Antenna Input Connect RF antenna to this jack.

#### **BACK PANEL INFORMATION**

■ Image shown may differ from your TV.

Only 22LG1\*\*\*, 22LG3\*\*\*



- Power Cord Socket
  - This TV operates on an AC power. The voltage is indicated on the Specifications page. Never attempt to operate the TV on DC power.
- 2 HDMI Input Connect a HDMI signal to HDMI IN. Or DVI(VIDEO) signal to HDMI/DVI port with DVI to HDMI cable.
- 3 RGB/Audio Input Connect the monitor output from a PC to the appropriate input port.
- 4 Antenna Input Connect RF antenna to this jack.
- S RS-232C Input (CONTROL&SERVICE) Port Connect the serial port of the control devices to the RS-232C jack.

- Audio/Video Input Connect audio/video output from an external device to these jacks.
- Component Input Connect a component video/audio device to these jacks.
- S-Video Input Connect S-Video out from an S-VIDEO device.
- 4 Headphone Input

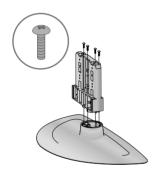
## STAND INSTALLATION

LCD TV Models: 26/32/37/42LG1\*\*\*, 26/32/37/42LG3\*\*\*, 32/37/42LG5\*\*\*

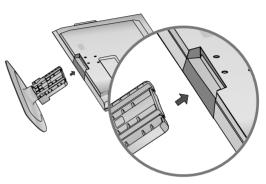
- Image shown may differ from your TV
- When assembling the desk type stand, check whether the bolt is fully tightened. (If not tightened fully, thep roduct can tilt forward after the product installation.) If you tighten the bolt with excessive force, the boltcan deviate from abrasion of the tightening part of the bolt.
- Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



Assemble the parts of the **Stand Body** with the **Cover Base** of the TV.



Assemble the TV as shown.

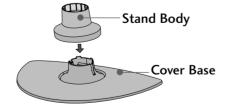


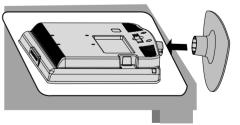
Fix the 4 bolts securely using the holes in the back of the TV.



(Only 22LG3\*\*\*)





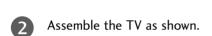


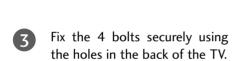
- Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.
- Assemble the parts of the STAND BODY with COVER BASE of the TV. Insert the STAND BODY into a COVER BASE until clicking sound.
- 3 Assemble the TV as shown.

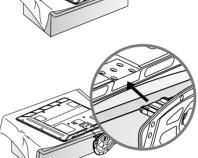
## STAND INSTALLATION

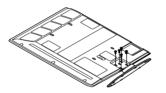
PLASMA TV Models (Only 42PG1\*\*\*, 42PG2\*\*\*, 32PC5\*\*\*)

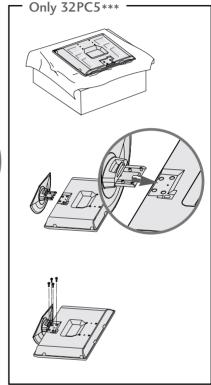
- Image shown may differ from your TV
- When assembling the desk type stand, check whether the bolt is fully tightened. (If not tightened fully, thep roduct can tilt forward after the product installation.) If you tighten the bolt with excessive force, the boltcan deviate from abrasion of the tightening part of the bolt.
- Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.





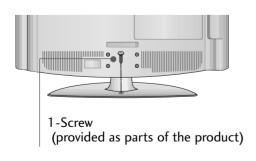


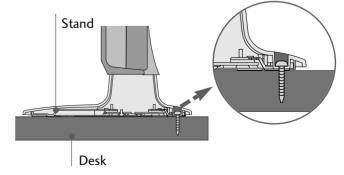




# Attaching the TV to a desk (Only 26/32/42LG1\*\*\*, 26/32/37/42LG3\*\*\*, 32/37/42LG5\*\*\*)

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



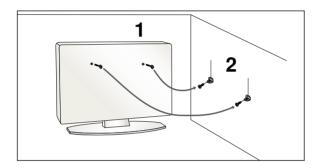


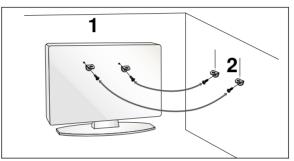
## WARNING

► 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.

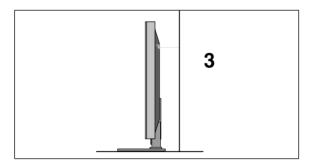
# PLEASE SET IT UP CAREFULLY SO THE PRODUCT DOES NOT FALL OVER.

- You should purchase necessary components to fix the TV to the wall on the market.
- Position the TV close to the wall to avoid the possibility of it falling when pushed.
- The instructions shown below are a safer way to set up the TV, which is to fix it to the wall, avoiding the possibility of it falling forwards if pulled. This will prevent the TV from falling forward and causing injury. This will also prevent the TV from damage. Ensure that children do not climb or hang from the TV.





- Use the eye-bolts or TV brackets/bolts to fix the product to the wall as shown in the picture. (If your TV has bolts in the eyebolts, loosen then bolts.)
  - \* Insert the eye-bolts or TV brackets/bolts and tighten them securely in the upper holes.
- 2 Secure the wall brackets with bolts to the wall. Ensure that both brackets are even.



Use a strong cord to secure the TV.

Secure the cord in such a way that it becomes taught when the TV is in position.

- ▶ When moving the TV undo the cords first.
- ▶ Use a platform or cabinet string 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 on the TV is the same.

## **BACK COVER FOR WIRE ARRANGEMENT**

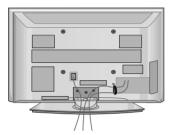
■ Here shown may be somewhat different from your TV.

#### **PLASMA TV Models**

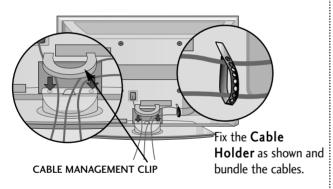
42/50PG1\*\*\*

Connect the cables as necessary.

To connect additional equipment, see the **External Equipment Setup** section.



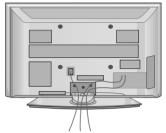
Install the CABLE MANAGEMENT CLIP as shown.



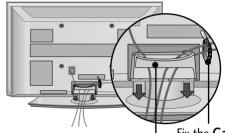
#### 42/50PG2\*\*\*

Connect the cables as necessary.

To connect additional equipment, see the **External Equipment Setup** section.



2 Install the CABLE MANAGEMENT CLIP as shown.

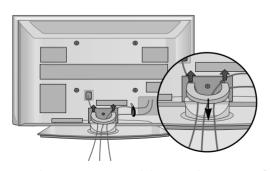


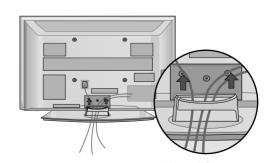
CABLE MANAGEMENT CLIP

Fix the **Cable Holder** as shown and bundle the cables.

# How to remove the cable management clip

Hold the CABLE MANAGEMENT CLIP with both hands and pull it upward.



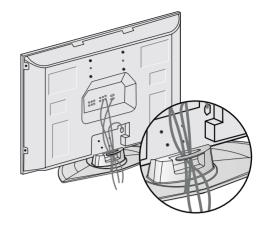


\* For the 42PG1\*\*\* model, press the center of the CABLE MANAGEMENT CLIP and then lift up it.

- ▶ Do not use the CABLE MANAGEMENT CLIP to lift the TV.
- If the TV is dropped, you may be injured or the TV may be damaged.

### Only 32PC5\*\*\*

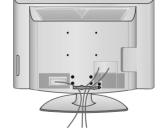
Arrange the cables as shown picture.



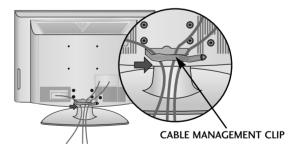
#### **LCD TV Models**

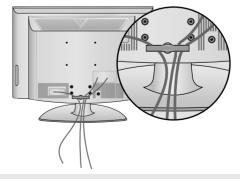
Connect the cables as necessary.

To connect additional equipment, see the **External Equipment Setup** section of the manual.



- Open the CABLE MANAGEMENT CLIP as shown and manage the cables.
- Fit the CABLE MANAGEMENT CLIP as shown.





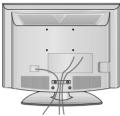
- ▶ Do not use the **CABLE MANAGEMENT CLIP** to lift the TV.
- If the TV is dropped, you may be injured or the TV may be damaged.

## BACK COVER FOR WIRE ARRANGEMENT

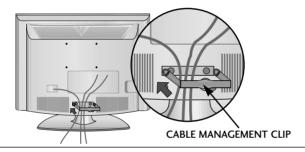
Only 22LG3\*\*\*

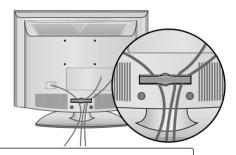
Connect the cables as necessary.

To connect additional equipment, see the External Equipment Setup section of the manual.



Install the CABLE MANAGEMENT CLIP as shown.





#### How to remove the CABLE MANAGEMENT CLIP

► Hold the **CABLE MANAGEMENT CLIP** with both hands and pull it backward.

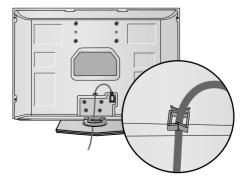


#### NOTE

- ▶ Do not use the **CABLE MANAGEMENT CLIP** to lift the TV.
- If the TV is dropped, you may be injured or the TV may be damaged.

# POWER CORD ARRANGEMENT (Only 32PC5\*\*\*)

After connecting the power cord to the AC input terminal, fix the power cord at the rear side Hole of the TV by using the bracket for fixing the power cord.



#### **SWIVEL STAND**

This feature is not available for all models.

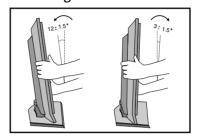
After installing the TV, you can adjust the TV manually to the left or right direction by 20 degrees to suit your viewing position.

# POSITIONING YOUR DISPLAY (Only 22LG1\*\*\*,22LG3\*\*\*)

- Image shown may differ from your TV.
- Adjust the position of the panel in various ways for maximum comfort.



#### • Tilt range



# LOCATION (Only 22LG1\*\*\*, 22LG3\*\*\*)

Position your TV so that no bright light or sunlight falls directly onto the screen. Care should be taken not to expose the tv to any unnecessary vibration, moisture, dust or heat. Also ensure that the TV is placed in a position to allow a free flow of air. Do not cover the ventilation openings on the back cover.

If you intend to mount the TV to a wall, attach VESA standard mounting interface (optional parts) to the back of the TV.

When you install the TV to use the wall mounting bracket (optional parts), fix it carefully so as not to drop.

# KENSINGTON SECURITY SYSTEM (Only 22LG1\*\*\*, 22LG3\*\*\*)

The TV is equipped with a Kensington Security System connector on the back panel. Connect the Kensington Security System cable as shown below.

For the detailed installation and use of the Kensington Security System, refer to the user's guide provided with the Kensington Security System.

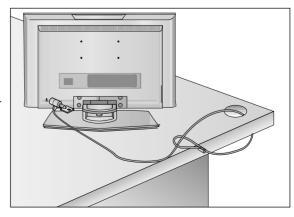
For further information, contact http://www.kensington.com, the internet homepage of the Kensington company. Kensington sells security systems for expensive electronic equipment such as notebook PCs and LCD projectors.

#### NOTE

- The Kensington Security System is an optional accessory.

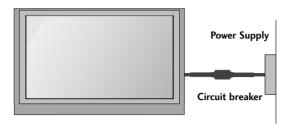
#### **NOTES**

- a. If the TV feels cold to the touch, there may be a small "flicker" when when it is turned on.
  - This is normal, there is nothing wrong with TV.
- b. Some minute dot defects may be visible on the screen, appearing as tiny red, green, or blue spots. However, they have no adverse effect on the monitor's performance.
- c. Avoid touching the LCD screen or holding your finger(s) against it for long periods of time.
  - Doing so may produce some temporary distortion effects on the screen.



## **PREPARATION**

- The TV can be installed in various ways such as on a wall, or on a desktop etc.
- The TV is designed to be mounted horizontally.



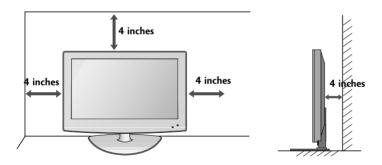
#### **EARTHING**

Ensure that you connect the earth 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 earth the TV by connecting it to telephone wires, lightening rods or gas pipes.

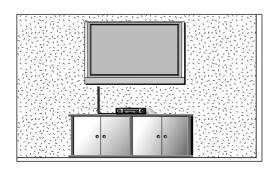
## **DESKTOP PEDESTAL INSTALLATION**

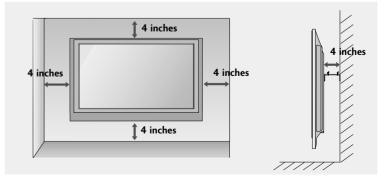
For adequate ventilation allow a clearance of 4" (10cm) all around the TV.



## WALL MOUNT: HORIZONTAL INSTALLATION

For adequate ventilation allow a clearance of 4" (10cm) all around the TV. We recommend that you use a wall mounting bracket of LG brand when mounting the TV to a wall.



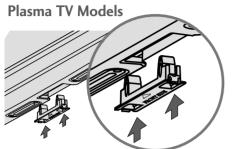


# NOT USING THE DESK-TYPE STAND

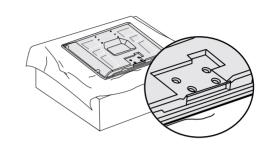
When installing the wall-mounted unit, use the protection cover for desk-type stand installation.

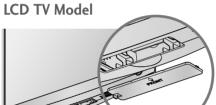
or

or

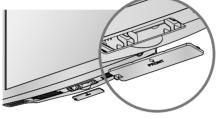


Insert the PROTECTION COVER into the TV until clicking sound.

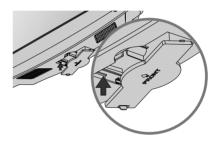




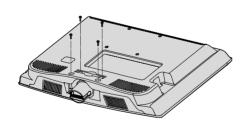
Only 22LG3\*\*\*



Loose the bolts from TV.



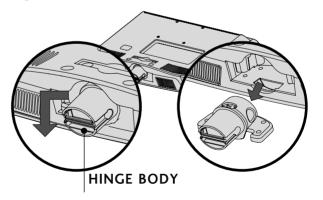
Bend the **HINGE BODY** and pull it backward.



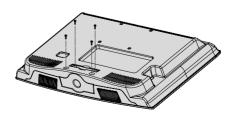
Insert the PROTECTION COVER into the TV.



PROTECTION COVER



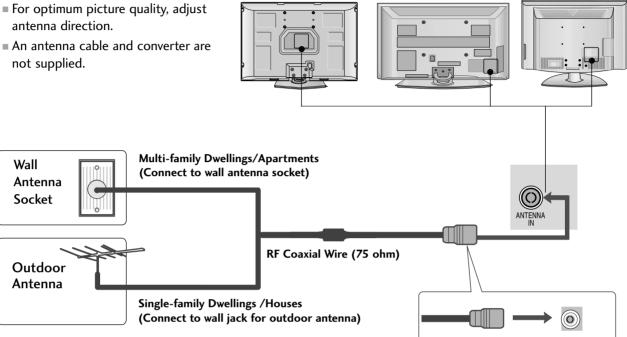
Fix the 4 bolts securely using the holes in the back of the TV.

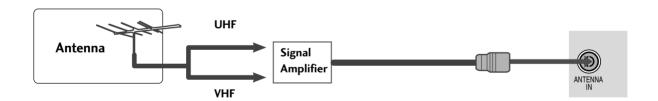


## **PREPARATION**

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

## ANTENNA CONNECTION





- In poor signal areas, to achieve better picture quality it may be necessary to install a signal amplifier to the antenna as shown above.
- If signal needs to be split for two TVs,use an antenna signal splitter for connection.

- To avoid damaging any equipment, never plug in any power cords until you have finished connecting all equipment.
- This section on EXTERNAL EQUIPMENT SETUP mainly uses diagrams for the PLASMA TV models.
- Image shown may differ from your TV.

## **HD RECEIVER SETUP**

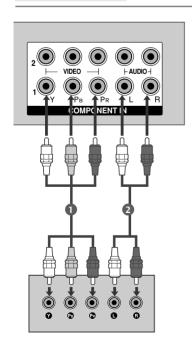
## Connecting with a component cable

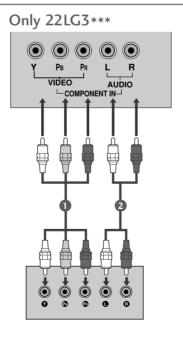
- Connect the video outputs (Y, PB, PR) of the digital TV top box to the **COMPONENT IN VIDEO** jacks on the TV.
- Connect the audio output of the digital set-top box to the COMPONENT IN AUDIO jacks on the TV.
- Turn on the digital set-top box.

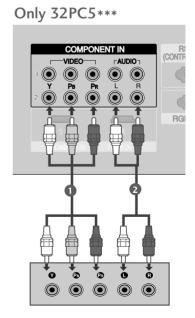
  (Refer to the owner's manual for the digital set-top box.)
- Select Component1 input source using the INPUT button on the remote control.

  If connected to COMPONENT IN2, select Component2 input source(Except 22LG3\*\*\*).

Signal	Component	HDMI1/DVI, HDMI2(Except 22LG3***), HDMI3(Only 32/37/42/47/52LG5***)
480i/576i	Yes	No
480p/576p	Yes	Yes
720p/1080i	Yes	Yes
1080p	Yes	Yes
	(Only 50Hz, 60Hz)	(24Hz, 30Hz, 50Hz, 60Hz)
		(22LG3***- Only 50Hz, 60Hz)

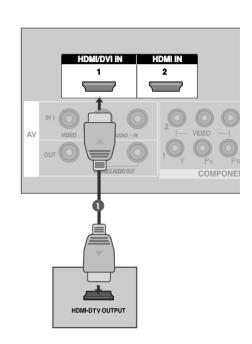




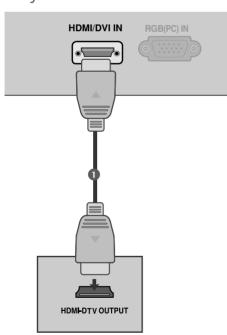


## Connecting a set-top box with a HDMI cable

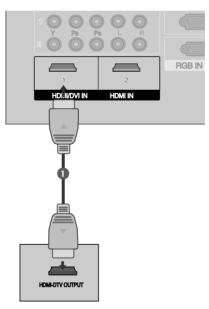
- Connect the HDMI output of the digital set-top box to the HDMI/DVI IN 1, HDMI IN 2(Except 22LG3\*\*\*) or HDMI IN 3(Only 32/37/42/47/52LG5\*\*\*) jack on the TV.
- Select HDMI1/DVI, HDMI2(Except 22LG3\*\*\*) or HDMI3 (Only 32/37/42/47/52LG5\*\*\*) input source using the INPUT button on the remote control.
- Turn on the digital set-top box.
  (Refer to the owner's manual for the digital set-top box.)



#### Only 22LG3\*\*\*

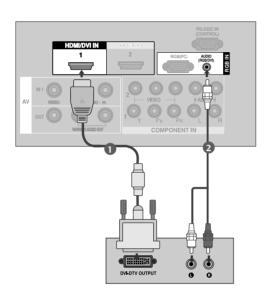


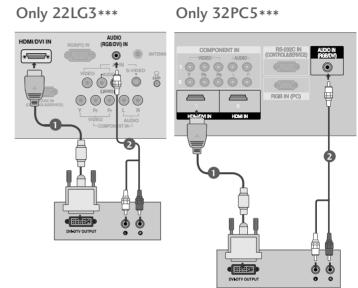
#### Only 32PC5\*\*\*



- TV can receive the video and audio signal simultaneously with using a HDMI cable.
- ▶ If the digital set-top box supports Auto HDMI function, the output resolution of the source device will be automatically TV to 1280x720p.
- ▶ If the digital set-top box player does not support Auto HDMI, you need to TV the output resolution appropriately. To get the best picture quality, adjust the output resolution of the source device to 1280x720p (42LG31F\*\*, 32/37/42/47/52LG5\*\*\*: 1920x1080i/1080p).

## Connecting with a HDMI to DVI cable





- Connect the DVI output of the digital set-top box to the **HDMI/DVI IN 1** jack on the TV.
- Connect the audio output of the digital set-top box to the AUDIO(RGB/DVI) jack on the TV.
- Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
- Select HDMI1/DVI input source using the INPUT button on the remote control.

- ▶ HDMI2(Except 22LG3\*\*\*), HDMI3(Only 32/37/42/47/52LG5\*\*\*) source does not support DVI source.
- ▶ If the Set-Top Box has a DVI output and no HDMI output, a separated audio connection is necessary.
- ▶ If the Set-Top Box does not support Auto DVI, you need to set the output resolution appropriately.

### **DVD SETUP**

## Connecting with a component cable

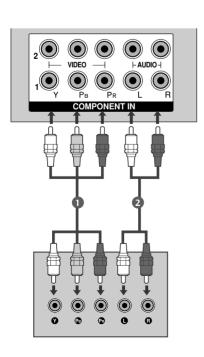
- Connect the video outputs (Y, PB, PR) of the DVD to the COMPONENT IN VIDEO jacks on the TV.
- Connect the audio outputs of the DVD to the COMPONENT IN AUDIO jacks on the TV.
- Turn on the DVD player, insert a DVD.
- Select Component1 input source using the INPUT button on the remote control.

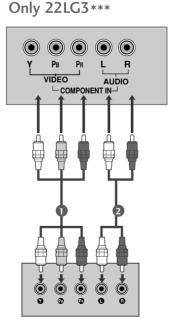
  If connected to COMPONENT IN2, select Component 2 input source(Except 22LG3\*\*\*).
- Refer to the DVD player's manual for operating instructions.

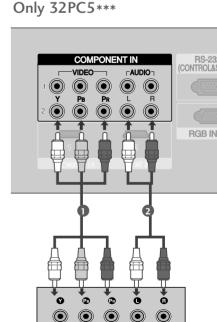
#### **Component Input ports**

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

Component ports on the TV	Υ	Рв	PR
	Y	Рв	PR
Video output ports	Y	B-Y	R-Y
on DVD player	Y	СЬ	Cr
	Y	Pb	Pr

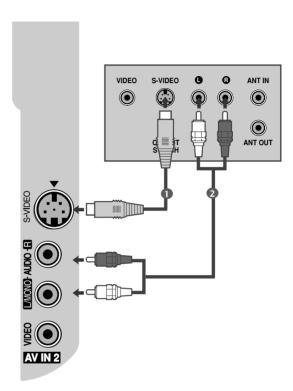




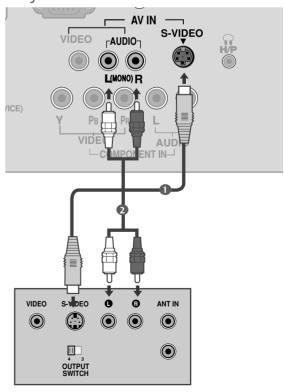


# Connecting with a S-Video cable (Except 32PC5\*\*\*)

- Connect the S-VIDEO output of the DVD to the S-VIDEO input on the TV.
- Connect the audio outputs of the DVD to the **AUDIO** input jacks on the TV.
- Turn on the DVD player, insert a DVD.
- Select **AV2** input source using the **INPUT** button on the remote control.
- Refer to the DVD player's manual for operating instructions.

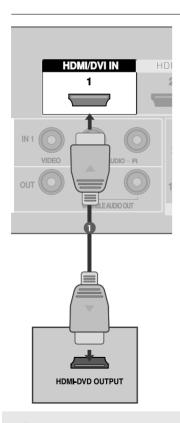


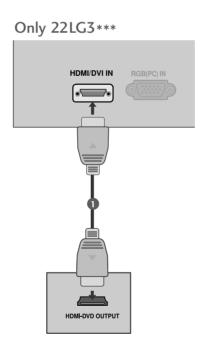
#### Only 22LG3\*\*\*

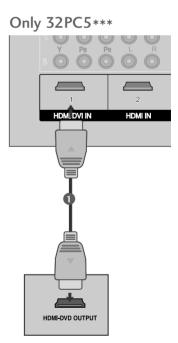


## Connecting with a HDMI cable

- Connect the HDMI output of the DVD to the HDMI/DVI IN 1, HDMI IN 2(Except 22LG3\*\*\*) or **HDMI IN 3(**Only 32/37/42/47/52LG5\*\*\*) jack on the TV.
- Select HDMI1/DVI, HDMI2(Except 22LG3\*\*\*) or HDMI3 (Only 32/37/42/47/52LG5\*\*\*) input source using the INPUT button on the remote control.
- Refer to the DVD player's manual for operating instructions.







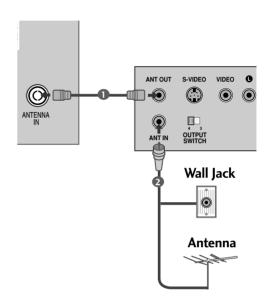
- ▶ The TV can receive video and audio signals simultaneously when using a HDMI cable.
   ▶ If the DVD player supports Auto HDMI function, the output resolution of the source device will be automatically TV to 1280x720p.
- ▶ If the DVD player does not support Auto HDMI, you must TV the output resolution appropriately. To get the best picture quality, adjust the output resolution of the source device to 1280x720p(42LG31F\*\*, 32/37/42/47/52LG5\*\*\*:1920x1080i/1080p).

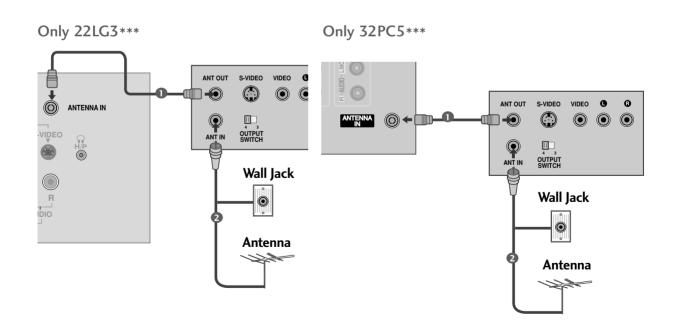
### **VCR SETUP**

- To avoid picture noise (interference), allow adequate distance between the VCR and TV.
- Typically a frozen still picture from a VCR. If 4:3 picture format is used for an extended period the fixed images on the sides of the screen may remain visible.

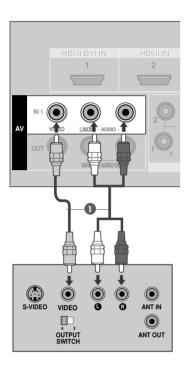
## Connecting with a RF cable

- Connect the ANT OUT socket of the VCR to the ANTENNA IN socket on the TV.
- Connect the antenna cable to the **ANT IN** socket of the VCR.
- Press the **PLAY** button on the VCR and match the appropriate programme between the TV and VCR for viewing.

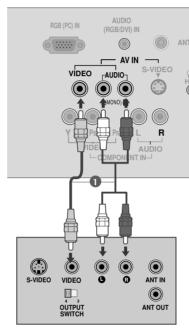




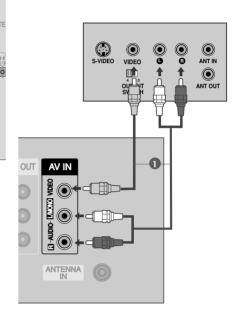
## Connecting with a RCA cable



Only 22LG3\*\*\*



Only 32PC5\*\*\*



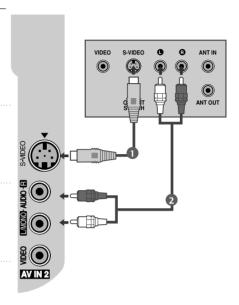
- Connect the **AUDIO/VIDEO** jacks between TV and VCR. Match the jack colours (Video = yellow, Audio Left = white, and Audio Right = red)
- 2 Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)
- Select AV1 input source using the INPUT button on the remote control. If connected to AV IN2, select AV2 input source(Except 32PC5\*\*\*).

#### NOTE

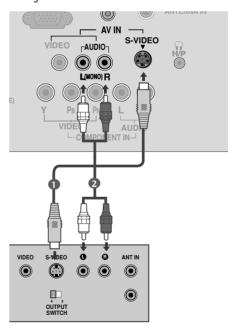
▶ If you have a mono VCR, connect the audio cable from the VCR to the **AUDIO L/MONO** jack of the TV.

## Connecting with a S-Video cable (Except 32PC5\*\*\*)

- Connect the S-VIDEO output of the VCR to the S-VIDEO input on the TV. The picture quality is improved; compared to normal composite (RCA cable) input.
- Connect the audio outputs of the VCR to the AUDIO input jacks on the TV.
- Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)
- Select AV2 (or AV(Only 22LG3\*\*\*)) input source using the INPUT button on the remote control.



#### Only 22LG3\*\*\*



#### NOTE

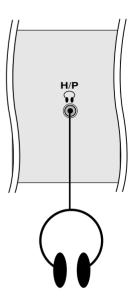
▶ If both S-VIDEO and VIDEO sockets have been conneced to the S-VHS VCR simultaneously, only the S-VIDEO can be received.

# **HEADPHONE SETUP**(Only 22LG3\*\*\*)

# When connecting with a Headphone cable

1

Insert the headphone plug to the headphone socket of the set. You can listen to the sound through the headphone. To adjust the head-phone volume, press the ◀ / ▶ button. If you press the MUTE button, the sound from the headphone is switched off.

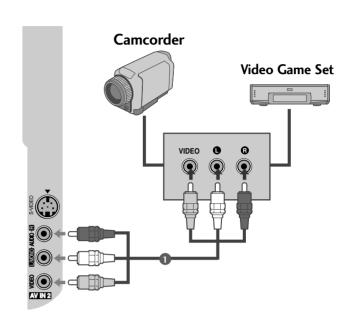


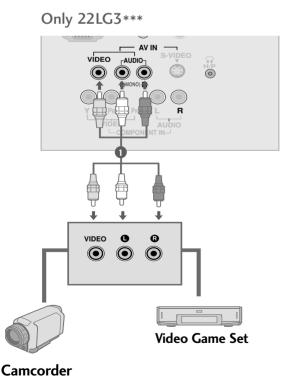
# OTHER A/V SOURCE SETUP

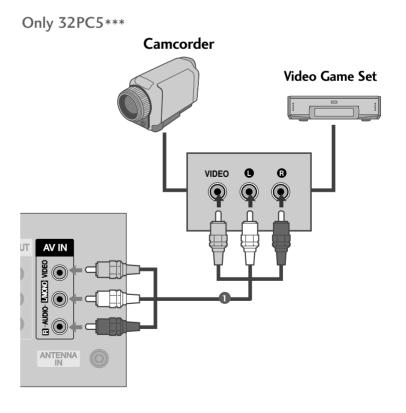
- Connect the AUDIO/VIDEO jacks between TV and external equipment. Match the jack colours.

  (Video = yellow, Audio Left = white, and Audio Right = red)
- Select AV2(or AV(Only 22LG3\*\*\*))input source using the INPUT button on the remote control. If connected to AV IN1, select AV1 input source.
- Operate the corresponding external equipment.

  Refer to external equipment operating guide.







# EXTERNAL STEREO SETUP (Except 22LG3\*\*\*, 32PC5\*\*\*)

Use to connected either an external amplifier, or add a sub-woofer to your surround sound system.

- Connect the input jack of the stereo amplifier to the VARIABLE AUDIO OUT jacks on the TV.
- Set up your speakers through your analog stereo amplifier, according to the instructions provided with the amplifier.

#### NOTE

- When connecting with external audio equipments, such as amplifiers or speakers, please turn the TV speakers off.
   (▶ p.83)
- ➤ Select Variable Out in Audio menu to connect the VARIABLE AUDIO OUT jacks.(► p.84)

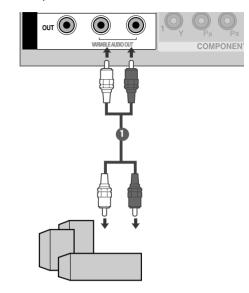
# AV OUTPUT SETUP(Except 22LG3\*\*\*)

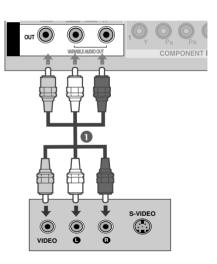
The TV has a special signal output capability which allows you to hook up the second TV or monitor.

- Connect the second TV or monitor to the TV's **AV OUT** jacks.
- See the Operating Manual of the second TV or monitor for further details regarding that device's input settings.

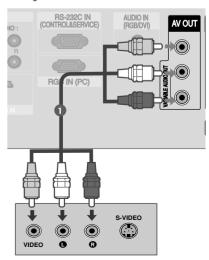
#### NOTE

- Component, RGB, HDMI input sources cannot be used for AV out.
- ▶ We recommend to use the AV OUT jacks for VCR recording.





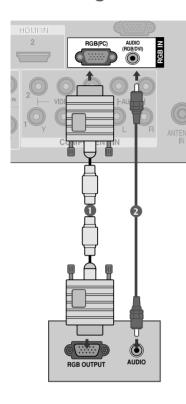
#### Only 32PC5\*\*\*



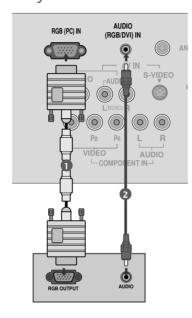
# **PC SETUP**

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

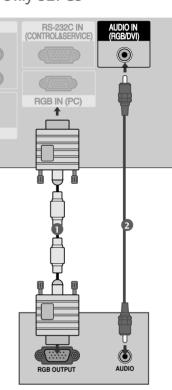
## Connecting with a D-sub 15 pin cable



Only 22LG3\*\*\*



Only 32PC5\*\*\*



- Connect the RGB output of the PC to the RGB(PC) jack on the TV.
- Connect the PC audio output to the AUDIO jack on the TV.
- Turn on the PC and the TV.
- 4 Select RGB PC input source using the INPUT button on the remote control.

#### NOTE

- ➤ To enjoy vivid picture and sound, connect the PC to the TV.
- ➤ Avoid keeping a fixed image on the TV 's screen for prolonged periods of time. The fixed image may become permanently imprinted on the screen; use a screen saver when possible.
- ➤ Connect the PC to the RGB (PC) port of the TV; change the resolution output of PC accordingly.
- ➤ There may be interference relating to resolution, vertical pattern, contrast or brightness in PC mode. Change the PC mode to another resolution or change the refresh rate to another rate or adjust the brightness and contrast on the menu until the picture is clear. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card or consult the manufacturer of the PC graphic card.
- ► The synchronization input waveform for Horizontal and Vertical frequencies are separate.

- We recommend using 1024 x 768, 60Hz (32PC5\*\*\* VGA PLASMA TV Models)/ 1024 x 768, 60Hz (42PG1\*\*\*,42PG2\*\*\* XGA PLASMA TV Models)/1360 x 768, 60Hz(50PG1\*\*\*, 50PG2\*\*\*) /1920 x 1080(42LG31F\*\*, 32/37/42/47/52LG5\*\*\*)/1366 x 768 (26/32/37/42/47LG1\*\*\*, 26/32/37/42/47LG3\*\*\*)/1680 x 1050(22LG3\*\*\*) for the PC mode, these should provide the best picture quality.
- ▶ If the resolution of PC is over SXGA, there will be no picture on the TV.(Only HD Models)
- Connect the audio cable from the PC to the Audio input on the TV.(Audio cables are not included with the TV).
- ▶ If you use too long an RGB-PC cable, there may be interference on the screen. We recommend using under 5m of the cable. This provides the best picture quality.

## **Supported Display Resolution**

## Only 22LG3\*\*\*

#### RGB-PC mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
640x480	31.469	59.94
800x600	37.879	60.317
1024x768	48.363	60.004
1280x1024	63.668	59.895
1680x1050	65.290	59.954

#### HDMI-DTV mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
720x480	31.47 31.50	59.94 60.00
720x576	31.25	50.00
1280x720	44.96 45.00 37.50	59.94 60.00 50.00
1920x1080i	33.72 33.75 28.125	59.94 60.00 50.00
1920x1080p	67.432 67.5 56.25	59.94 60 50

## **Supported Display Resolution**

## -Plasma TV models -

#### RGB-PC mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
640x350	31.468	70.09
720x400	31.469	70.09
640x480	31.469	59.94
800x600	37.879	60.317
848x480	29.514	59.75
852x480	32	60.491
1024x768	48.363	60.004
1280x768	47.776	59.87
1360x768	47.720	59.799
Only <b>50PG1</b> ***, <b>50PG2</b> ***		Only 32PC

#### HDMI-DTV mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
720x480	31.47 31.50	59.94 60.00
720x576	31.25	50.00
1280x720	44.96 45.00 37.50	59.94 60.00 50.00
1920x1080i	33.72 33.75 28.125	59.94 60.00 50.00
1920x1080p	67.432 67.5 56.25 27 33.75	59.94 60 50 24 30

## -LCD TV models (Except 22LG3\*\*\*) -

#### **RGB-PC** mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
640x350	31.468	70.09
720x400	31.469	70.09
640x480	31.469	59.94
800x600	37.879	60.317
1024x768	48.363	60.004
1280x768	47.776	59.87
1360x768	47.720	59.799
1366x768	47.700	60.00
1280x1024	63.668	59.895
1920x1080	66.587	59.934

Only 42LG31F\*\*, 32/37/42/47/52LG5\*\*\*

#### HDMI-DTV mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
720x480	31.47 31.50	59.94 60.00
720x576	31.25	50.00
1280x720	44.96 45.00 37.50	59.94 60.00 50.00
1920x1080i	33.72 33.75 28.125	59.94 60.00 50.00
1920x1080p	67.432 67.5 56.25 27 33.75	59.94 60 50 24 30

## **EXTERNAL EQUIPMENT SETUP**

## Screen Setup for PC mode

## Auto Configure (RGB [PC] mode only)

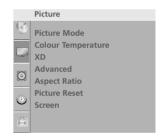
Automatically adjusts picture position and minimizes image instability. After adjustment, if the image is still not correct, your TV is functioning properly but needs further adjustment.

#### Auto configure

This function is for automatic adjustment of the screen position, clock, and phase. The displayed image will be unstable for a few seconds while the auto configuration is in progress.

- Press the **MENU** button and then use  $\land$ / $\lor$  button to select the **Picture** menu.
- Press the > button and then use  $\land / \lor$  button to select **Screen**.
- Press the > button and then use  $\land / \lor$  button to select **Auto Config.**.
- 4 Press the > button to start Auto Config..
  - When Auto config. has finished, OK will be shown on screen.
  - 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 Manual Config.
- Press the MENU button to return to normal TV viewing.

  Press the RETURN or MENU(Only 22LG3\*\*\*) button to move to the previous menu screen.







34

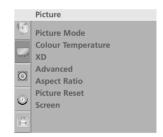
# Manual Configure (Adjustment for screen Phase, Clock, Position) (RGB [PC] mode only)

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

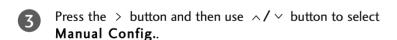
It's not available to use Phase, Clock function in COMPONENT (480i/480p/576i/576p/720p/1080i/1080p), HDMI (480p/576p/720p/1080i/1080p).

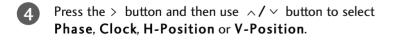
**Clock** This function is to minimize any vertical bars or stripes visible on the screen background the horizontal screen size will also change.

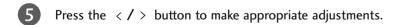
**Phase** This function allows you to remove any horizontal noise and clear or sharpen the image of characters.



- Press the **MENU** button and then use  $\land$  /  $\lor$  button to select the **Picture** menu.
- Press the > button and then use  $\land / \lor$  button to select **Screen**.



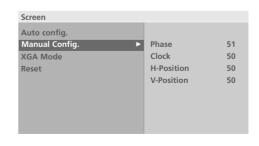




Press the MENU button to return to normal TV viewing.

Press the RETURN or MENU(Only 22LG3\*\*\*) button to move to the previous menu screen.







2

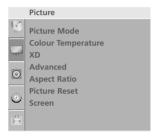
## **EXTERNAL EQUIPMENT SETUP**

## Selecting XGA/VGA mode (Except 42PG1\*\*\*, 42PG2\*\*\*, 22LG3\*\*\*)

This feature is not available for all models.

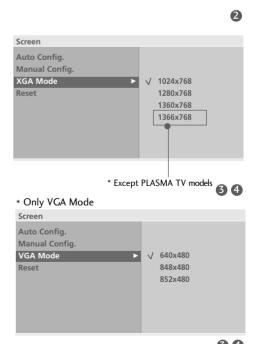
To view a normal picture, match the resolution of RGB mode and selection of XGA/VGA mode.

This function works in the following mode: RGB[PC] mode.



- Press the **MENU** button and then use  $\wedge/\vee$  button to select the **Picture** menu.
- Press the > button and then use ^/ > button to select Screen.
- Press the > button and then use  $\land / \lor$  button to select XGA Mode or VGA Mode.
- Press the > button and then use \( \triangle / \triangle \) button to select the desired XGA/VGA resolution.
- Press the **MENU** button to return to normal TV viewing. Press the **RETURN** button to move to the previous menu screen.

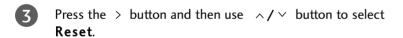


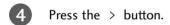


## Initializing (Reset to original factory settings)

This function operates in current mode. To initialize the adjusted value

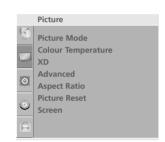
- Press the > button and then use  $\land / \lor$  button to select **Screen**.





Press the MENU button to return to normal TV viewing.

Press the RETURN or MENU(Only 22LG3\*\*\*) button to move to the previous menu screen.



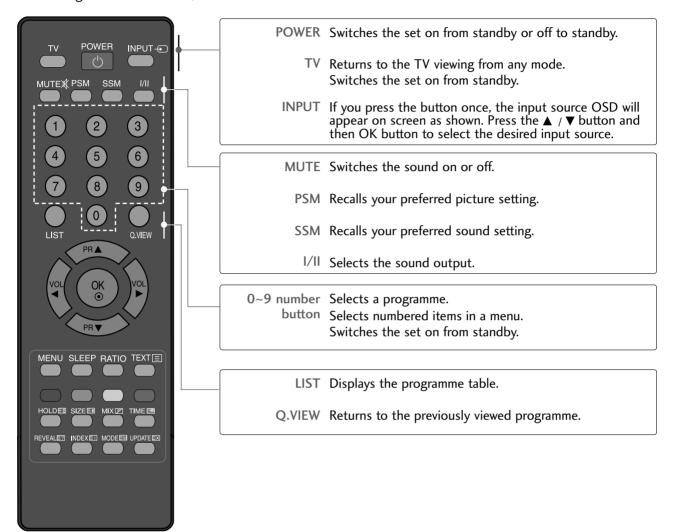






## REMOTE CONTROL KEY FUNCTIONS (Only 22LG3\*\*\*)

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





THUMBSTICK (Up/Down/Left/ Right)

Allows you to navigate the on-screen menus and adjust the system settings to your preference.

Adjusts the volume.

Selects a programme.

Switches the set on from standby. (Up/Down)

OK Accepts your selection or displays the current mode.

MENU Selects a menu.

SLEEP Sets the sleep timer.

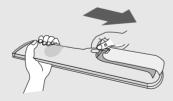
RATIO Selects your desired picture format.

Coloured These buttons are used for teletext (only TELETEXT buttons models) or Programme edit.

TELETEXT These buttons are used for teletext.

BUTTONS For further details, see the 'Teletext' section.

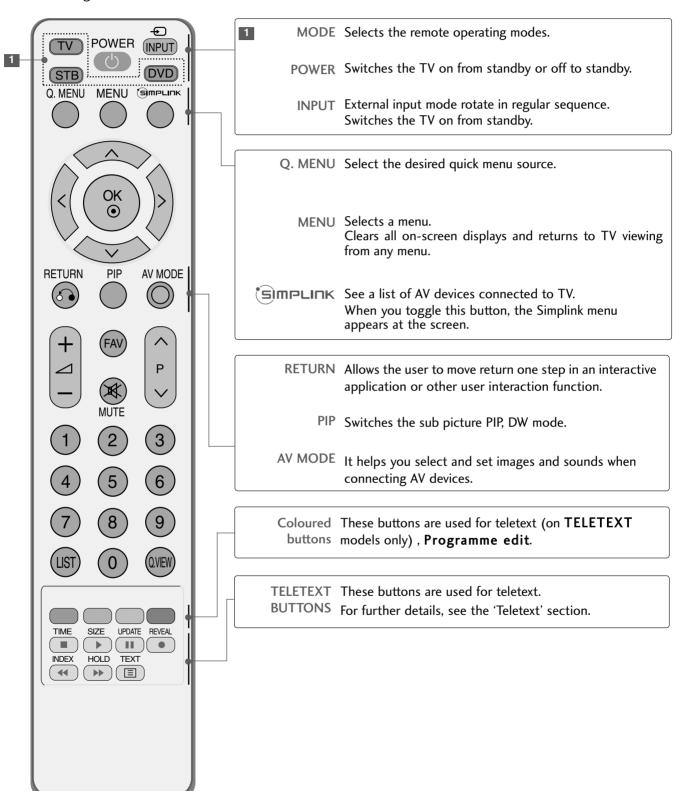
## **Installing Batteries**



- 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.

## REMOTE CONTROL KEY FUNCTIONS (Except Plasma TV models, 22LG3\*\*\*)

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





THUMBSTICK (Up/Down/Left Right) Allows you to navigate the on-screen menus and adjust the system settings to your preference.

OK Accepts your selection or displays the current mode.

VOLUME +/- Adjusts the volume.

FAV Displays the selected favourite programme.

MUTE Switches the sound on or off.

Programme Selects a programme.

0~9 number Selects a programme.

button Selects numbered items in a menu.

LIST Displays the programme table.

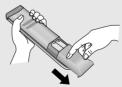
Q.VIEW Returns to the previously viewed programme.

VCR/DVD Controls some video cassette recorders or DVD players.

/>, OK buttons and buttons for  $\triangleright$ ,  $\blacksquare$ ,  $\blacksquare$ ,  $\blacksquare$ , and  $\triangleright$ .

(The ● button does not provide such functions.)

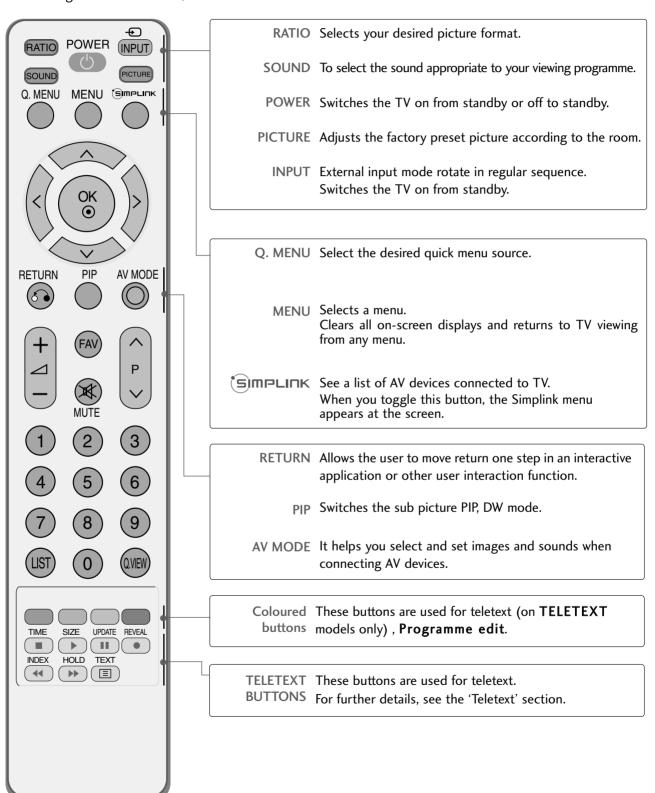
## **Installing Batteries**

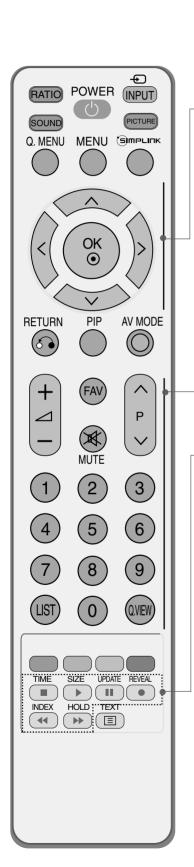


- Open the battery compartment cover on the back and install the batteries matching correct polarity (+with +,-with -).
- Install two 1.5V AAA batteries. Do not mix old or used batteries with new ones.
- Close cover.

## REMOTE CONTROL KEY FUNCTIONS (Only 42/50PG1\*\*\*, 42/50PG2\*\*\*)

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





THUMBSTICK (Up/Down/Left Right) Allows you to navigate the on-screen menus and adjust the system settings to your preference.

OK Accepts your selection or displays the current mode.

VOLUME +/- Adjusts the volume.

FAV Displays the selected favourite programme.

MUTE Switches the sound on or off.

Programme Selects a programme.

0~9 number Selects a programme.

button Selects numbered items in a menu.

LIST Displays the programme table.

Q.VIEW Returns to the previously viewed programme.

VCR/DVD Controls some video cassette recorders or DVD players.

control buttons Control connected AV devices by pressing the ^/ ✓ / <
/> / > , OK buttons and buttons for ▶, ■, I, ◄◄ and ▶▶.

(The ● button does not provide such functions.)

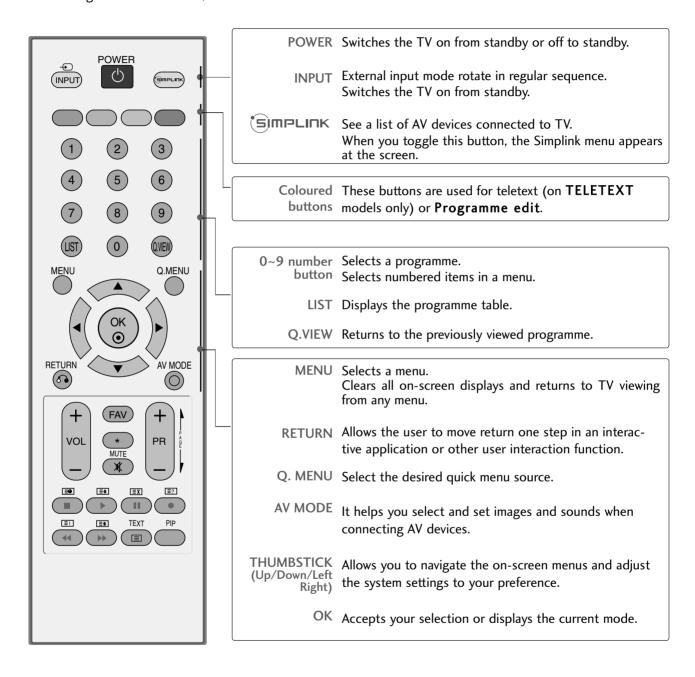
## **Installing Batteries**

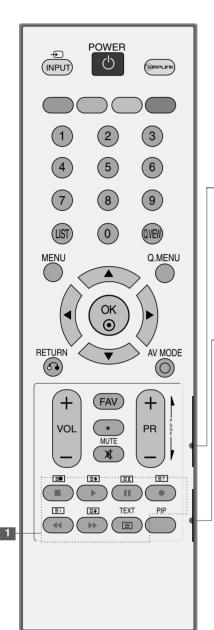


- Open the battery compartment cover on the back and install the batteries matching correct polarity (+with +,-with -).
- Install two 1.5V AAA batteries. Do not mix old or used batteries with new ones.
- Close cover.

## REMOTE CONTROL KEY FUNCTIONS (Only 32PC5\*\*\*)

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





TELETEXT These buttons are used for teletext.

BUTTONS For further details, see the 'Teletext' section.

VOLUME +/- Adjusts the volume.

MUTE Switches the sound on or off.

\* No function

FAV Displays the selected favourite programme.

Programme Selects a programme. +/-

 $_{\mbox{\footnotesize PAGE}}$  Move from one full set of screen information to the next  $_{\mbox{\footnotesize UP/DOWN}}$  one.

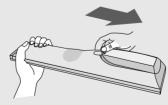
VCR/DVD Controls some video cassette recorders or DVD players.

control buttons Control connected AV devices by pressing the ^/ ✓ / <
/>/ > , OK buttons and buttons for ▶, ■, I ↓ ◄◄ and ▶▶.

(The ● button does not provide such functions.)

PIP Switches the sub picture PIP, DW mode.

## **Installing Batteries**



- Open the battery compartment cover on the back and install the batteries matching correct polarity (+with +,-with -).
- Install two 1.5V AAA batteries. Do not mix old or used batteries with new ones.
- Close cover.

### TURNING ON THE TV

When your TV is turned on, you will be able to use its features.

Firstly, connect the power cord correctly.

At this stage, the TV switches to standby mode.

In standby mode to turn TV on, press the ₺/|, INPUT, P ▲ / ▼ (or P ^/ ∨ or PR ▲ / ▼) button on the TV or press the POWER, TV (Only 22LG3\*\*\*), INPUT, P ^/ ∨ (or PR ▲ / ▼or PR +/-), NUMBER(0~9) buttons on the remote control and the TV will switch on.

#### **Initializing Guide**

If the OSD (On Screen Display) is displayed on the screen after turning on the TV, you can adjust the Language, Location, Auto Tuning.

#### Note:

- a. It will automatically disappear after approx. 40 seconds unless a button is pressed.
- b. "In -Store" mode is only for shop display and not for general customer use.
- c. "Home" mode is the optimal setting for home environments, and is the TV's default mode.
- d. "In-Store" mode is the optimal setting for store environments. If a user modifies image quality data, "In- Store" mode initializes the product to the image quality set by us after a certain period of time.
- e. The mode (Home, In- Store) can be changed by executing Factory Reset in the Option menu.

## PROGRAMME SELECTION

Press the P ^/ ∨ (or PR ▲ / ▼ or PR +/-) or NUMBER buttons to select a programme number.

## **VOLUME ADJUSTMENT**

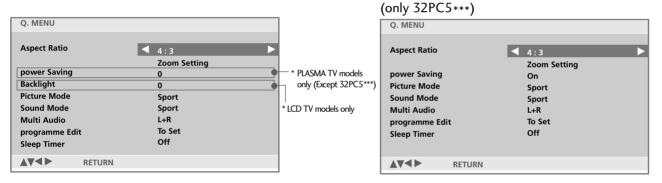
- Press the ∠ +/-(or VOL ◀ / ▶ or VOL +/-) button to adjust the volume.
- 2 If you wish to switch the sound off, press the MUTE button.
- 3 You can cancel the Mute function by pressing the MUTE or ✓ +/(or VOL ◀ / ► or VOL +/-) button.

## QUICK MENU (Except 22LG3\*\*\*)

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

Q.Menu (Quick Menu) is a menu of features which users might use frequently.

- Aspect Ratio: Selects your desired picture format. For Zoom Setting, select 14:9, Zoom1 and Zoom2 in Ratio Menu. After completing Zoom Setting, the display goes back to Q.Menu.
- Power Saving (only Plasma TV Models): Adjusts screen brightness to reduce the power consumption of the set.
- Backlight (only LCD TV Models): Adjusts screen brightness. It returns to the default settings brightness by changing mode source.
- Picture Mode: Selects your desired Picture Mode.
- **Sound Mode**: It is a feature to automatically set the sound combination which it deems the best for the images being watched. Selects your desired Sound Mode.
- Multi Audio : Selects the sound output.
- Programme Edit: Adjusts the stored programmes by delete, copy, move or skip.
- Sleep Timer: Selects the sleep timer.

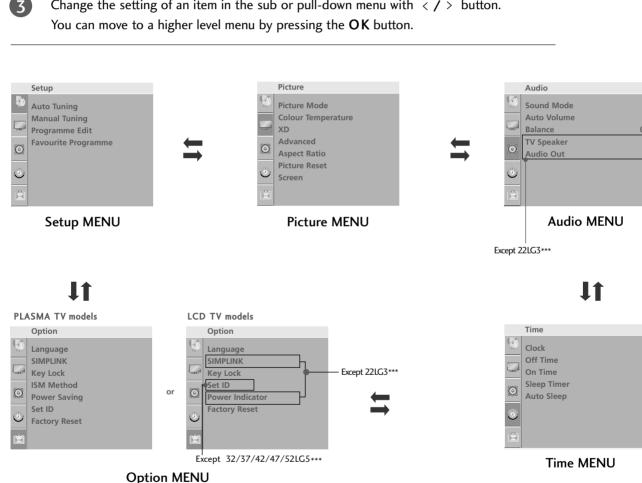


- Press the **Q.MENU** button and then  $\wedge/\vee$  button to display each menu.
- Press the < / > button to select your desired Source.
- Press the Q.MENU button to return to normal TV viewing.

## ON SCREEN MENUS SELECTION AND ADJUSTMENT

Your TV's OSD (On Screen Display) may differ slightly from that shown in this manual. The OSD mainly use pictures for the PLASMA TV models.

- Press the **MENU** button and then  $\wedge/\vee$  button to display each menu.
- Press the  $\rightarrow$  button and then  $\wedge/\vee$  button to select a menu item.
- Change the setting of an item in the sub or pull-down menu with  $\langle / \rangle$  button. You can move to a higher level menu by pressing the **OK** button.



#### NOTE

- a. The OSD (On Screen Display) function enables you to adjust the screen status conveniently since it provides graphical presentation.
- b. In this manual, the OSD (On Screen Display) may be different from your TV's because it is just example to help the TV operation.
- c. In the teletext mode, menus are not displayed.

## **AUTO PROGRAMME TUNING**

Up to 100 TV stations can be stored by programme numbers (0 to 99). Once you have preset the stations, you will be able to use the P  $\wedge$  /  $\vee$  (or PR  $\blacktriangle$  /  $\blacktriangledown$  or PR + /-) or NUMBER buttons to scan the stations you have programmed. Stations can be tuned using automatic or manual modes.

All stations which can be received are stored by this method. It is recommended that you use Auto tuning during installation of this TV.

- Press the **MENU** button and then  $\wedge/\vee$  button to select the Setup menu.
- Press the  $\rightarrow$  button and then  $\wedge/\vee$  button to select **Auto** Tuning.
- Press the  $\rightarrow$  button and then  $\wedge/\vee$  button to select **System**.
- Press the  $\wedge/\vee$  button to select a TV system menu; BG: PAL B/G, SECAM B/G (Europe / East Europe / Asia / NewZealand / M.East / Africa / Australia) I : PAL I/II (U.K. / Ireland / Hong Kong / South Africa)

DK: PAL D/K, SECAM D/K (East Europe / China / Africa / CIS)

M: (USA / Korea / Philippines)

- Press the  $\wedge/\vee$  button to select **Storage From**.
- Press the </>
  </>> button or NUMBER buttons to select the initial programme number. If you use NUMBER buttons, any number under 10 is entered with a numeric '0' in front of it. i.e. '**0** 5' for 5.
- Press the  $\wedge/\vee$  button to select **Search**.
- Press the > button to begin auto tuning. All receivable stations are stored.

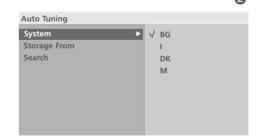
To stop auto tuning, press the **RETURN** or **MENU**(Only 22LG3\*\*\*) button.

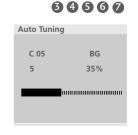
When auto tuning is complete, the Programme edit menu appears on the screen. See the Programme edit section to edit the stored programme.

Press the **MENU** button to return to normal TV viewing. Press the RETURN or MENU(Only 22LG3\*\*\*) button to move to the previous menu screen.









## MANUAL PROGRAMME TUNING

Manual programme lets you manually tune and arrange the stations in whatever order you desire.

- Press the MENU button and then  $\wedge/\vee$  button to select the **Setup** menu.
- Press the > button and then  $\land / \lor$  button to select Manual Tuning.
- Press the  $\rightarrow$  button and then  $\land / \lor$  button to select **Storage**.
- Press the 
  /> button or NUMBER buttons to select the desired programme number (0 to 99). If you use NUMBER buttons, any number under 10 is entered with a numeric '0' in front of it, i.e. '0 5' for 5.
- $\bigcirc$  Press the  $\wedge/\vee$  button to select **System**.
- Press the // button to select a TV system menu;
  BG: PAL B/G, SECAM B/G (Europe / East Europe / Asia /
  NewZealand / M.East / Africa / Australia)

I: PAL I/II (U.K. / Ireland / Hong Kong / South Africa)

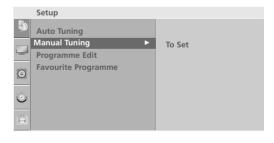
DK: PAL D/K, SECAM D/K (East Europe / China / Africa / CIS)

M: (USA / Korea / Philippines)

- Press the ^/ v button to select Band.
- Press the > button and then ^/ > button to select V/UHF or Cable.
- 9 Press the  $\wedge/\vee$  button to select **Channel**.
- You can select the desired programme number with the 
  / > button or NUMBER buttons. If possible, select the programme number directly with the number buttons. Any number under 10 is entered with a numeric '0' in front of it, i.e. '05' for 5.
- 1 Press the  $\wedge/\vee$  button to select **Search**.
- Press the < / > button to commence searching. If a station is found the search will stop.
- Press the **OK** button to store it.
- To store another station, repeat steps 3 to 13.
- Press the MENU button to return to normal TV viewing.

  Press the RETURN or MENU(Only 22LG3\*\*\*) button to move to the previous menu screen.



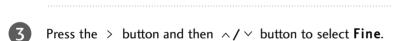


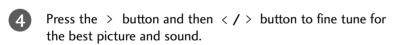


## **FINE TUNING**

Normally fine tuning is only necessary if reception is poor.

- Press the **MENU** button and then  $\wedge/\vee$  button to select the **Setup** menu.
- Press the > button and then  $\land / \lor$  button to select **Manual Tuning**.





- Press the **OK** button to store it.
- Press the MENU button to return to normal TV viewing.

  Press the RETURN or MENU(Only 22LG3\*\*\*) button to move to the previous menu screen.









## **ASSIGNING A STATION NAME**

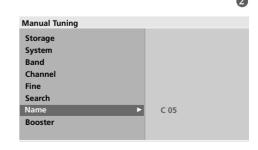
You can assign a station name up to five characters to each programme number.

- Press the MENU button and then  $\wedge/\vee$  button to select the **Setup** menu.
- Press the > button and then  $\land / \lor$  button to select **Manual Tuning**.
- Press the > button and then ^/ > button to select Name.
- Press the > button and then ^/ > button. You can use a blank, +, -, the number 0 to 9 and the alphabet A to Z.
- Press the < / > button to select the position and make your choice of the second character, and so on.
- 6 Press the **OK** button to store it.
- Press the MENU button to return to normal TV viewing.

  Press the RETURN or MENU(Only 22LG3\*\*\*) button to move to the previous menu screen.







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## **BOOSTER**

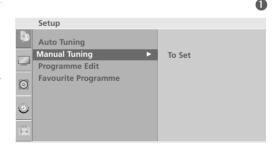
In some models, **Booster** is an optional function. Only a set with **Booster** can perform this function.

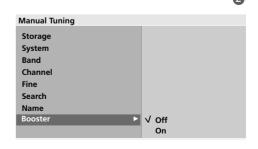
If reception is poor select **Booster** to On. When the signal is strong, select "OFF".

- Press the **MENU** button and then  $\wedge/\vee$  button to select the **Setup** menu.
- Press the > button and then ^/ > button to select Manual Tuning.
- Press the > button and then use ^/ > button to select Booster.
- Press the > button and then use ^/ > button to select On or Off.
- Press the MENU button to return to normal TV viewing.

  Press the RETURN or MENU(Only 22LG3\*\*\*) button to move to the previous menu screen.









## PROGRAMME EDIT

This function enables you to delete or skip stored programmes. Also you can move some stations to other programme numbers or copy a blank station data into the selected programme number.

- Press the **MENU** button and then  $\wedge/\vee$  button to select the **Setup** menu.
- Press the > button and then ^/ > button to select Programme Edit.
- Press the > button to display the Programme edit menu.

#### ■ Deleting a programme

- 1.Select a programme to be deleted with the  $\wedge$  /  $\vee$  /  $\langle$  /  $\rangle$  button.
- 2.Press the RED button twice.

The selected programme is deleted, all the following programmes are shifted up one position.

#### ■ Copying a programme

- 2.Press the GREEN button.

All the following programmes are shifted down one position.

#### ■ Moving a programme

- 2.Press the YELLOW button.
- 3. Move the programme to the desired programme number with the  $\wedge$  /  $\vee$  /  $\langle$  /  $\rangle$  button.
- 4. Press the YELLOW button again to release this function.

#### ■ Skipping a programme number

- 1.Select a programme number to be skipped with the  $\wedge$  /  $\vee$  / < / > button.
- 2. Press the BLUE button. The skipped programme turns to blue.
- 3. Press the BLUE button again to release the skipped programme.

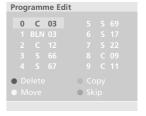
Press the MENU button to return to normal TV viewing.

Press the RETURN or MENU(Only 22LG3\*\*\*) button to move to the previous menu screen.





2



## **FAVOURITE PROGRAMME**

This function lets you select your favourite programmes directly.

Repeatedly press the FAV button to select stored favourite programmes.

Repeatedly press the YELLOW button to select stored favourite programmes (Only 22LG3\*\*\*).

- Press the **MENU** button and then  $\wedge / \vee$  button to select the **Setup** menu.
- Press the > button and then  $\land / \lor$  button to select Favourite Programme.
- 3 Press the > button.
- 4 Press the // button to select -- ----.
- Select a desired programme with the < / > button or NUM-BER buttons. Any number under 10 is entered with a numeric '0'in front of it, i.e.'0 5' for 5.
- To store another programme, repeat steps **4** to **5**. You can store up to 8 programmes.
- Press the MENU button to return to normal TV viewing.

  Press the RETURN or MENU(Only 22LG3\*\*\*) button to move to the previous menu screen.







## SELECTING THE PROGRAMME LIST

You can check which programmes are stored in the memory by displaying the programme list.

#### ■ Displaying programme list

Press the **LIST** button to display the Programme **list** menu. The programme **list** appears on the screen.

One programme list contains ten programmes as shown.

#### NOTE

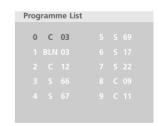
- a. You may find some blue programmes. They have been set up to be skipped by auto programming or in the programme edit mode.
- b. Some programmes with the channel number shown in the programme list indicate there is no station name assigned.

#### ■ Selecting a programme in the programme list

#### ■ Paging through a programme list

There are 10 programme table pages in which contain 100 programmes. Pressing the  $\land/\lor/</\gt$  button repeatedly turns the pages.

Press the LIST button to return to normal TV viewing.





## (Except 22LG3\*\*\*)

This function operates only with devices with the SIMPLINK logo. Please check the SIMPLINK logo.

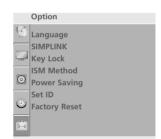
The product might not function properly when using it with other products with HDMI-CEC function.

This allows you to control and play other AV devices connected to the display through HDMI cable without additional cables and settings.

If you do not require the SIMPLINK menu, select "Off".

- Press the **MENU** button and then  $\wedge/\vee$  button to select the **Option** menu.
- Press the > button and then ^/ > button to select SIMPLINK.
- Press the > button and then ^/ > button to select **On** or **Off**.
- Press the MENU button to return to normal TV viewing.

  Press the RETURN button to move to the previous menu screen.



0





#### SIMPLINK Functions

#### Disc playback

Control connected AV devices by pressing the  $\land / \lor / < / \gt$ , OK,  $\blacktriangleright$ ,  $\blacksquare$ , I,  $\blacktriangleleft \blacktriangleleft$  and  $\blacktriangleright \blacktriangleright$  buttons.

(The ● button does not provide such functions)

#### **Direct Play**

After connecting AV devices to the TV, you can directly control the devices and play media without additional settings.

#### Select AV device

Enables you to select one of the AV devices connected to the TV and operate it.

#### Power off all devices

When you switch off the TV, all connected devices are turned off.

#### Switch audio-out

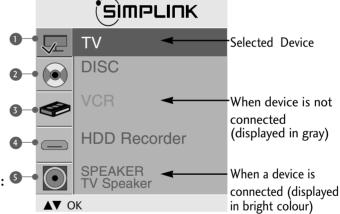
Offers an easy way to switch audio-out.

- -Sync Power on: The television set will change automatically to turn on mode, after the Player with Simplink function start to reproduce through connection HDMI.
- \* A device, which is connected to the TV through a HDMI cable but does not support SIMPLINK, does not provide this function.

#### SIMPLINK Menu

Press the  $\wedge/\vee/</>$  button and then OK button to select the desired SIMPLINK source.

- TV viewing: Switch to the previous TV programme regardless of the current mode.
- DISC playback: Select and play discs. When multiple discs are available, the titles of the discs are conveniently displayed at the bottom of the screen.
- **3** VCR playback : Control the connected VCR.
- 4 HDD Recordings playback : Control recordings stored in HDD.
- Select Home theater or TV speaker for Audio Out.



#### NOTE

- ► Connect the HDMI/DVI IN or HDMI IN terminal of the TV to the rear terminal and Side terminal (HDMI terminal) of the SIMPLINK device with the HDMI cable.
- ▶ After connecting the HDMI terminal for the home theatre with SIMPLINK function using the above method, connect the VARIABLE AUDIO OUT terminal on the back of the TV to the VARIABLE AUDIO IN terminal on the back of the SIMPLINK device with the VARIABLE AUDIO OUT cable.
- ▶ When operating an external device with SIMPLINK, press the TV button from the MODE button on the remote control.
- ▶ When you switch the Input source using the INPUT button on the remote control, you can stop the operation of a device controlled by SIMPLINK.
- ▶ When you select or operate a media device with home theatre function, the speaker automatically switches to home theatre speaker (HT speaker).

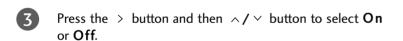
## **KEY LOCK**

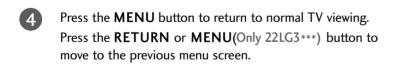
The TV can be set so that the remote control is needed to control it.

This feature can be used to prevent unauthorized viewing.

This TV is programmed to remember which option it was last set to even if you turn the TV off.

- Press the **MENU** button and then  $\wedge/\vee$  button to select the **Option** menu.
- Press the > button and then ^/ v button to select **Key Lock**.









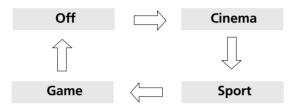




- NOTE
- In Key Lock 'On', if the TV is turned off, press the ∅ / I, INPUT, P ▲ / ▼( or P ^ / ∨ or PR ▲ / ▼) button on the TV or POWER, INPUT, TV, P ^ / ∨ (or PR ▲ / ▼ or PR +/-) or NUMBER buttons on the remote control.
- ▶ With the **Key Lock On**, the display 'Key Lock On' appears on the screen if any button on the front panel is pressed while viewing the TV.

## AV MODE (Except 22LG3\*\*\*)

You can select the optimal images and sounds when connecting AV devices to external input.



1

Press the **AV MODE** button repeatedly to select the desired source.

- If you select Cinema Mode in AV mode, Cinema mode will be selected both for Picture Mode and Sound Mode in Picture menu and Audio menu respectively.
- If you select "Off" in AV mode, the picture and image which you initially set will be selected.
- 2 Press the **RETURN** button to return to normal TV viewing.

## PICTURE CONTROL

## WATCHING PIP(PICTURE-IN-PICTURE) (Except 22LG3\*\*\*)

PIP lets you view 2 different inputs (sources) on your TV screen at the same time.

One source will be large, and the other source will show a smaller inset image.

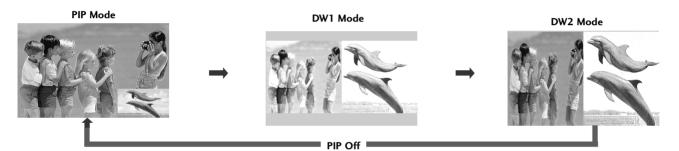
PIP function is available in the Component, RGB, HDMI mode.

(For Full HD, it can support TV, AV1, AV2 mode.)

# PIP PIP PIP TV PIP PR C 07 7 PIP Size Small PIP Position RETURN

## Watching PIP/Double Window

Press the PIP button and then press the  $\wedge/\vee/</>$  button to change the PIP options as shown below.



## **Programme Selection for Sub Picture**

## Input Source Selection for Sub Picture

## Sub Picture Size Adjustment (PIP mode only)

Press the **PIP** button and then press the  $\wedge/\vee/</> button to adjust the sub picture size.$ 

## Moving the Sub Picture (PIP mode only)

Press the **PIP** button and then press the  $\wedge/\vee/</>> button to adjust the sub picture position.$ 

## PICTURE CONTROL

## PICTURE SIZE (ASPECT RATIO) CONTROL

You can watch the screen in various picture formats; 16:9, Original, 4:3, 14:9, Zoom1/2 and Just Scan(Except 22LG3\*\*\*).

Just Scan works in the following mode: Component (720p/1080i/1080p), HDMI (720p/1080i/1080p)

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

You can adjust the enlarge proportion using  $\wedge \vee$  button.

This function works in the following signal.



You can adjust Aspect Ratio in the Picture menu.

#### • 16:9

The following selection will allow you to adjust the picture horizontally, in linear proportion, to fill the entire screen(useful for viewing 4:3 formatted DVDs).



#### • Original

When your TV receives a wide screen signal it will automatically change to the picture format to be broadcast.



#### • 4:3

The following selection will allow you to view a picture with an original 4:3 aspect ration, grey bars will appear on both the left and right hand of the screen.



#### • 14:9

You can view a picture format of 14:9 or a general TV programme in the 14:9 mode. The 14:9 screen is viewed in the same way as in 4:3, but is magnified to the left and right.



#### Zoom1

The following selection will allow you to view the picture without any alteration, while filling the entire screen. However, the top and bottom of the picture will be cropped.



#### • Zoom2

Choose Zoom 2 when you wish the picture to be altered, both horizontally extended and vertically cropped. The picture adopting a compromise between alteration and screen converage.



#### • Just Scan(Except 22LG3\*\*\*)

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

## NOTE

- ▶ You can only select 4:3,16:9 (Wide) in Component, HDMI, RGB(PC) mode.
- ▶ In HDMI/Component (over 720p)mode, Just Scan(Except 22LG3\*\*\*) is available.

## PICTURE CONTROL

## PRESET PICTURE SETTINGS

#### Picture Mode-Preset

Picture Mode adjusts the TV for the best picture appearance. Select the preset value in the **Picture Mode** menu based on the programme category.

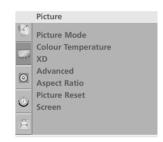
Cable(26/32/37/42/47LG1\*\*\*, 26/32/37/42/47LG3\*\*\* Only), Intelligent Sensor (32/37/42/47/52LG5\*\*\* Only), Vivid, Standard, Cinema, Sport and Game are programmed for optimum picture reproduction at the factory and cannot be changed.

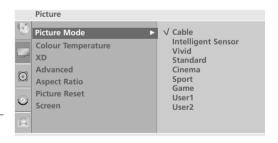
When the Intelligent Sensor function is on, the most suitable picture is automatically adjusted according to the surrounding conditions (32/37/42/47/52LG5\*\*\* Only).

Cable works in the following mode: AV1, AV2

- Press the **MENU** button and then  $\wedge/\vee$  button to select the **Picture** menu.
- Press the > button and then  $\wedge$  /  $\vee$  button to select **Picture Mode**.
- Press the > button and then ^/ > button to select Cable(26/32/37/42/47LG1\*\*\*, 26/32/37/42/47LG3\*\*\*Only), Intelligent Sensor(32/37/42/47/52LG5\*\*\* Only), Vivid, Standard, Cinema, Sport, Game, User1 or User2.
- Press the MENU button to return to normal TV viewing.

  Press the RETURN or MENU(Only 22LG3\*\*\*) button to move to the previous menu screen.





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## **Auto Colour Tone Control(Cool/Medium/Warm)**

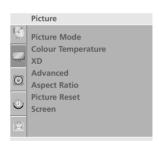
To initialize values (reset to default settings), select the Cool option.

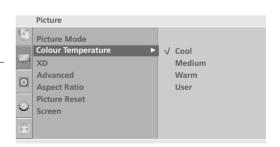
Choose one of three automatic colour adjustments. Set to warm to enhance hotter colours such as red, or set to cool to see less intense colours with more blue.

This menu is activated after selecting "User1" or "User2" in the Picture Mode.

- Press the **MENU** button and then  $\wedge/\vee$  button to select the **Picture** menu.
- Press the > button and then ^/ > button to select Colour Temperature.
- Press the > button and then ^/ > button to select either Cool, Medium, Warm or User.
- Press the MENU button to return to normal TV viewing.

  Press the RETURN or MENU(Only 22LG3\*\*\*) button to move to the previous menu screen.







## PICTURE CONTROL

## MANUAL PICTURE ADJUSTMENT

## Picture Mode-User Option

**Backlight** To control the brightness of the screen, adjust

the brightness of LCD panel.

**Contrast** Adjusts the difference between light and dark

levels in the picture.

**Brightness** Increases or decreases the amount of white in

the picture.

**Colour** Adjusts intensity of all colours.

**Sharpness** Adjusts the level of crispness in the edges

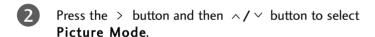
between the light and dark areas of the picture.

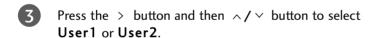
The lower the level, the softer the image.

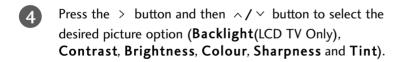
**Tint** Adjusts the balance between red and green

levels.

Press the **MENU** button and then  $\wedge/\vee$  button to select the **Picture** menu.



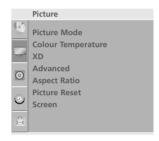




- Press the < / > button to make appropriate adjustments.
- Press the MENU button to return to normal TV viewing.

  Press the RETURN or MENU(Only 22LG3\*\*\*) button to move to the previous menu screen.
  - NOTE

You cannot adjust colour, sharpness and tint in the RGB-PC mode.





User1

Backlight 100

Contrast 100 ▶

Brightness 50

Colour 50

Sharpness 50

Tint 0

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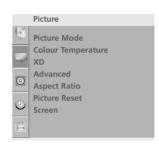
## **Colour Tone - User Option**

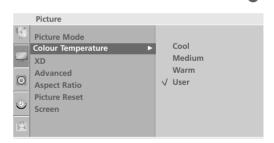
To adjust red, green, blue to any colour temperature you prefer.

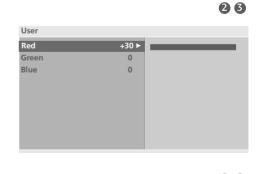
This menu is activated after selecting "User1" or "User2" in the Picture Mode.

- Press the **MENU** button and then  $\wedge/\vee$  button to select the **Picture** menu.
- Press the > button and then ^/ > button to select Colour Temperature.
- Press the > button and then ^/ > button to select User.
- Press the > button and then ^/ > button to select Red, Green or Blue.
- Press the < / > button to make appropriate adjustments.
- Press the MENU button to return to normal TV viewing.

  Press the RETURN or MENU(Only 22LG3\*\*\*) button to move to the previous menu screen.









## PICTURE CONTROL

## - PICTURE IMPROVEMENT TECHNOLOGY

XD is LG electronic's unique picture improving technology to display a real HD source through an advanced digital signal processing algorithm.

It is not possible to use this function in RGB-PC mode.

- Press the MENU button and then  $\wedge/\vee$  button to select the **Picture** menu.
- Press the > button and then \( / \times \) button to select **XD**.
- Press the > button and then ^/ > button to select Auto or Manual.
- Press the MENU button to return to normal TV viewing.

  Press the RETURN or MENU(Only 22LG3\*\*\*) button to move to the previous menu screen.

\* Manual Selection

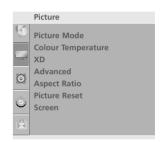
This menu is activated after selecting the **User1** or **User2** of **Picture Mode**.

- Press the > button and then  $\land / \lor$  button to select XD Contrast, XD Colour or XD NR.
- Press the > button and then ^/ > button to select Off, Low or High.

Select Off, Low, High or Adaptive (Only XD NR).

- Press the MENU button to return to normal TV viewing.

  Press the RETURN or MENU(Only 22LG3\*\*\*) button to move to the previous menu screen.
  - **XD Contrast**: Optimises the contract automatically according to the brightness of the reflection.
  - XD Colour: Adjusts the colour of the reflection automatically to reproduce as close as possible to natural colours.
  - XD NR: Removes interference up to the point where it does not damage the original picture.



Picture

Picture Mode
Colour Temperature
XD

Advanced
Aspect Ratio
Picture Reset
Screen

Available
Auto
Manual
Aspect Ratio







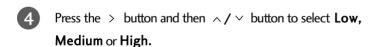
### ADVANCED - GAMMA

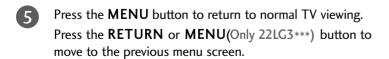
High gamma values display whitish images and low gamma values display high contrast images.

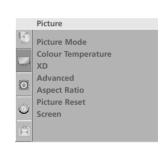
It's not possible to use this function in RGB-PC mode.

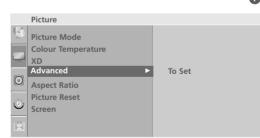
- Press the **MENU** button and then  $\wedge/\vee$  button to select the **Picture** menu.
- Press the  $\rightarrow$  button and then  $\wedge/\vee$  button to select **Advanced**.













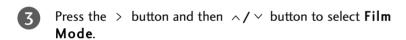
### PICTURE CONTROL

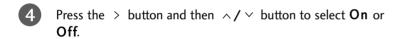
### ADVANCED - Film Mode

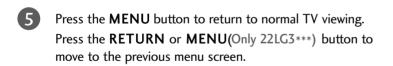
To set the TV up for the best picture quality for viewing films.

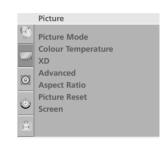
This feature operates only in Analog TV, AV, S-video and Component 480i/576i mode.

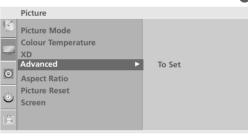
- 1 Press the MENU button and then  $\wedge/\vee$  button to select the Picture menu.
- Press the > button and then ^/ > button to select Advanced.













4

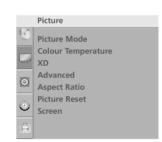
# ADVANCED - BLACK(DARKNESS) LEVEL

When you view a film this function adjust the TV to best picture quality. Adjusting the contrast and the brightness of the screen using the black level of the screen.

This function works in the following mode: RF(NTSC-M), AV, S-Video(NTSC-M, NTSC 4.43), COMPONENT or HDMI.

- Press the **MENU** button and then  $\wedge/\vee$  button to select the **Picture** menu.
- Press the > button and then  $\land / \lor$  button to select Advanced.
- Press the > button and then ∧/∨ button to select Black Level.
- Press the > button and then \( / \times \) button to select **Low** or **High.** 
  - Low: The reflection of the screen gets darker.
  - **High**: The reflection of the screen gets brighter.
- Press the MENU button to return to normal TV viewing.

  Press the RETURN or MENU(Only 22LG3\*\*\*) button to move to the previous menu screen.







### PICTURE CONTROL

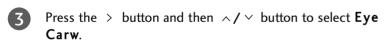
# ADVANCED - Eye Care (Except Plasma TV models, 22LG3\*\*\*)

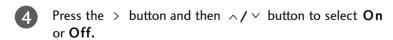
This feature is not available for all models.

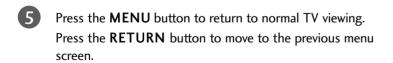
It helps you adjust brightness when the screen is too bright to prevent dazzling.

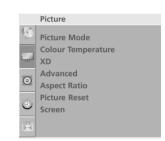
When selecting Picture Mode (Standard, Game, Sport, User1 and User2), you can operate this function.

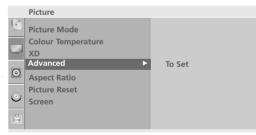
- 1 Press the MENU button and then  $\wedge/\vee$  button to select the Picture menu.
- Press the > button and then ^/ > button to select Advanced.













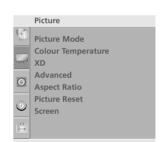
4

### **PICTURE RESET**

Returns to the default factory setting for Picture Mode, Colour Temperature, XD, Advanced, Aspect Ratio.

- 1 Press the **MENU** button and then  $\wedge/\vee$  button to select the **Picture** menu.
- Press the > button and then ^/ > button to select Picture Reset.
- 3 Press the > button to initialize the adjusted value.
- Press the MENU button to return to normal TV viewing.

  Press the RETURN or MENU(Only 22LG3\*\*\*) button to move to the previous menu screen.







### PICTURE CONTROL

# IMAGE STICKING MINIMIZATION(ISM)METHOD (ONLY PLASMA TV MODELS)

A frozen or still picture from a PC/Video game displayed on the screen for prolonged periods will result in a ghost image remaining even when you change the image. Avoid allowing a fixed image to remain on the screen for prolonged periods.

#### White Wash

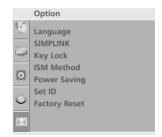
White wash removes permanent images from the screen. Note: An excessive permanent image may be impossible to clear entirely with White Wash.

#### Orbiter

Orbiter may help prevent ghost images. However, it is best not to allow any fixed image to remain on the screen. To avoid a permanent image on the screen, the screen will move every 2 minutes.

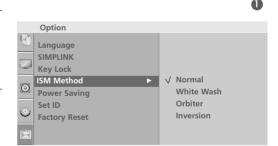
#### Inversion

This function inverts the panel colour of the screen. The panel colour is automatically inverted every 30 minutes.



- Press the **MENU** button and then  $\wedge/\vee$  button to select the **Option** menu.
- Press the > button and then ^/ > button to select ISM Method.
- Press the MENU button to return to normal TV viewing.

  Press the RETURN button to move to the previous menu screen.





# POWER SAVING PICTURE MODE (ONLY PLASMA TV MODELS)

This function allows you to reduce the power consumption of the TV.

- Press the **MENU** button and then  $\wedge/\vee$  button to select the **Option** menu.
- Press the > button and then ^/ > button to select Power Saving.
- Press the > button and then ^/ > button to select your desired source.
- Press the **MENU** button to return to normal TV viewing.

  Press the **RETURN** button to move to the previous menu screen.

### **POWER INDICATOR**

(Except Plasma TV models, 22LG3\*\*\*)

It helps you adjust the brightness of moving LED when power is turned on.

- Press the **MENU** button and then  $\wedge/\vee$  button to select the **Option** menu.
- Press the > button and then ^/ > button to select
  Power Indicator.
- Press the > button and then  $\land / \lor$  button to select either Standby Light or Power Light.
- Press the > button and then ^/ > button to select On or Off .
- Press the **MENU** button to return to normal TV viewing.

  Press the **RETURN** button to move to the previous menu screen.











### PICTURE CONTROL

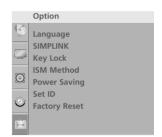
# **FACTORY RESET**

Use to quickly reset all the menu options to their original factory preset values.

This function deletes all TV programmes.

- Press the **MENU** button and then  $\land / \lor$  button to select the **Option** menu.
- Press the > button and then  $\land / \lor$  button to select Factory Reset.
- Press the > button and then < / > button to select Yes or No.
- Press the MENU button to return to normal TV viewing.

  Press the RETURN or MENU(Only 22LG3\*\*\*) button to move to the previous menu screen.







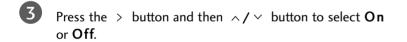


# **SOUND & LANGUAGE CONTROL**

### **AUTO VOLUME LEVELER**

Auto Volume automatically remains on the same level of volume if you change programmes.

- Press the **MENU** button and then  $\wedge/\vee$  button to select the **Audio** menu.
- Press the > button and then ^/ > button to select Auto Volume.











### **SOUND & LANGUAGE CONTROL**

### PRESET SOUND SETTINGS-SOUND MODE

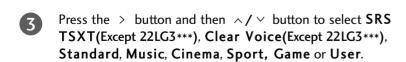
You can select your preferred sound setting; SRS TSXT(Except 22LG3\*\*\*), Clear Voice(Except 22LG3\*\*\*), Standard, Music, Cinema, Sport or Game and you can also adjust the frequency of the equalizer.

Sound Mode lets you enjoy the best sound without any Special adjustment as the TV sets the appropriate sound options based on the programme content.

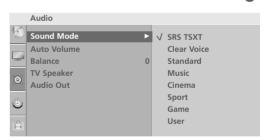
SRS TSXT (Except 22LG3\*\*\*), Clear Voice(Except 22LG3\*\*\*), Standard, Music, Cinema, Sport and Game are preset for optimum sound quality at the factory and are not adjustable.



- Press the **MENU** button and then  $\wedge/\vee$  button to select the **Audio** menu.
- Press the > button and then  $\land / \lor$  button to select **Sound Mode**.







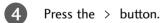


# SOUND SETTING ADJUSTMENT -USER MODE

Adjusting the audio equalizer.

- Press the **MENU** button and then  $\wedge/\vee$  button to select the **Audio** menu.
- Press the > button and then  $\wedge$  /  $\vee$  button to select **Sound Mode**.



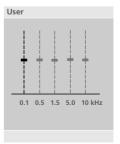


- Select a frequency band by pressing the </>
  </>
  / > button.
  Set the desired sound level with the </
- Press the MENU button to return to normal TV viewing.

  Press the RETURN or MENU(Only 22LG3\*\*\*) button to move to the previous menu screen.







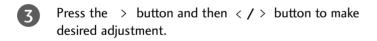
ß

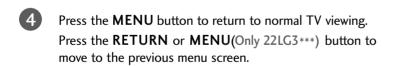
### **SOUND & LANGUAGE CONTROL**

### **BALANCE**

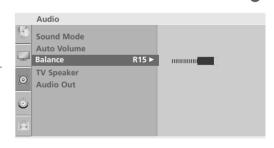
You can adjust the sound balance of the speakers to the preferred levels.

- Press the **MENU** button and then  $\wedge/\vee$  button to select the **Audio** menu.
- Press the > button and then  $\wedge/\vee$  button to select **Balance**.











# TV SPEAKERS ON/OFF SETUP (Except 22LG3\*\*\*)

You can adjust the internal speaker status.

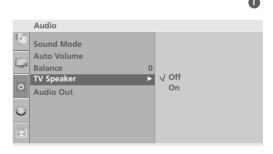
In TV, AV, COMPONENT, RGB[PC] and HDMI mode, internal speaker audio can be operational even though there is no video signal.

If you wish to use an external hi-fi system, turn off the TV internal speakers.

- Press the **MENU** button and then  $\wedge/\vee$  button to select the **Audio** menu.
- Press the > button and then ^/ > button to select TV Speaker.
- Press the > button and then ^/ > button to select On or Off.
- Press the MENU button to return to normal TV viewing.

  Press the RETURN button to move to the previous menu screen.





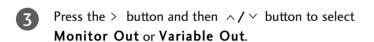


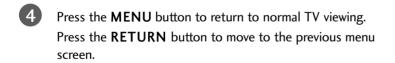
### **SOUND & LANGUAGE CONTROL**

# SELECTING AUDIO OUT(Except 22LG3\*\*\*)

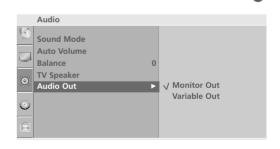
Select Monitor Out or Variable out to connect the audio outputs.

- Press the **MENU** button and then  $\wedge/\vee$  button to select the **Audio** menu.
- Press the > button and then ^/ > button to select Audio Out.









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### **Stereo/Dual Reception**

When a programme is selected, the sound information for the station appears with the programme number and station name.

- Press the **Q.MENU** button and then  $\wedge/\vee$  button to select the **Multi Audio** menu.
- Press the < / > button to select the sound output.

Broadcast	On Screen Display
Mono	MONO
Stereo	STEREO
Dual	DUAL I, DUAL II, DUAL I+II

#### ■ Mono sound selection

If the stereo signal is weak in stereo reception, you can switch to mono. In mono reception, the clarity of sound is improved. To switch back to stereo.

#### ■ Language selection for dual language broadcast

If a programme can be received in two languages (dual language), you can switch to DUAL I, DUAL II or DUAL I+II.

- DUAL I Sends the primary broadcast language to the loudspeakers.
- DUAL II Sends the secondary broadcast language to the loudspeakers.
- DUAL I+II Sends a separate language to each loudspeaker.

### **SOUND & LANGUAGE CONTROL**

### **NICAM Reception**

If the TV is equipped with a receiver for NICAM reception, high quality NICAM (Near Instantaneous Companding Audio Multiplex) digital sound can be received.

Sound output can be selected according to the type of broadcast received.

- When NICAM mono is received, you can select NICAM MONO or FM MONO.
- When **NICAM stereo** is received, you can select **NICAM STEREO** or **FM MONO**. If the stereo signal is weak, switch to **FM MONO**.
- When NICAM dual is received, you can select NICAM DUAL I, NICAM DUAL II or NICAM DUAL I+II or FM MONO.

# **Speaker Sound Output Selection**

In AV, Component, RGB and HDMI mode, you can select output sound for the left and right loudspeakers.

Select the sound output.

L+R: Audio signal from audio L input is sent to the left loudspeaker and audio signal from audio R input is sent to the right loudspeaker.

L+L: Audio signal from audio L input is sent to left and right loudspeakers.

R+R: Audio signal from audio R input is sent to left and right loudspeakers.

### **ON-SCREEN MENU LANGUAGE SELECTION**

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

- Press the **MENU** button and then use  $\wedge/\vee$  button to select the **Option** menu.
- Press the > button and then use ^/ > button to select Language.
- Press the > button and then use  $\land / \lor / \lt / \gt$  button to select your desired language.
- 4 Press the OK button
- Press the MENU button to return to normal TV viewing.

  Press the RETURN or MENU(Only 22LG3\*\*\*) button to move to the previous menu screen.

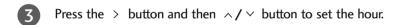
# TIME SETTING

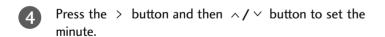
# **CLOCK SETUP**

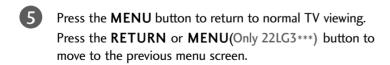
You must set the time correctly before using on/off timer function.

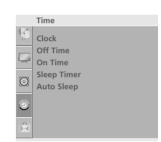
If current time setting is erased by a power failure or the TV is unplugged, reset the clock.

- 1 Press the **MENU** button and then  $\wedge/\vee$  button to select the **Time** menu.
- Press the > button and then ^/ > button to select Clock.













### **AUTO ON/OFF TIMER SETTING**

The Off time function automatically switches the TV to standby at a preset time.

Two hours after the TV is switched on by the on time function it will automatically switch back to standby mode unless a button has been pressed.

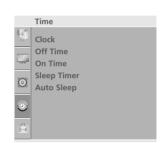
Once the on time/off time is set, these functions operate daily at the preset time.

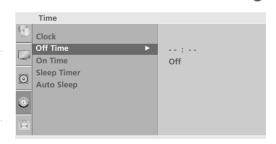
The Off time function overrides the On timer function if both are set to the same time.

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

- Press the **MENU** button and then  $\wedge/\vee$  button to select the **Time** menu.
- Press the > button and then ^/ > button to select On/Off Time.
  - To cancel On/Off Time function, select Off.
- Press the > button and then  $\wedge/\vee$  button to set the hour.
- 5 For On Time function only
  - **Programme**: Press the > button and then ∧/∨ button to select the programme.
  - Volume: Press the > button and then ∧/∨ button to adjust volume level at switch-on.
- Press the MENU button to return to normal TV viewing.

  Press the RETURN or MENU(Only 22LG3\*\*\*) button to move to the previous menu screen.







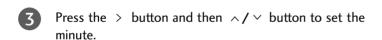


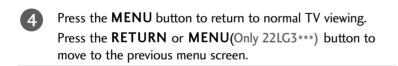
# TIME SETTING

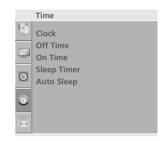
### **SLEEP TIMER SETTING**

You do not have to remember to switch the TV off before you go to sleep. The sleep timer automatically switches the TV to standby after the preset time has elapsed.

- 1 Press the **MENU** button and then  $\wedge/\vee$  button to select the **Time** menu.
- Press the > button and then ^/ > button to select Sleep Timer.











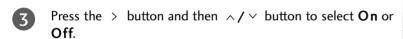


- NOTE
- ▶ When you switch the TV off, the TV releases the preset sleep time.

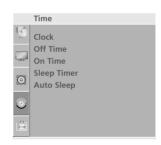
### **AUTO SHUT-OFF SETTING**

If the TV set is switched on and there is no input signal, it will switch off automatically after 10 minutes.

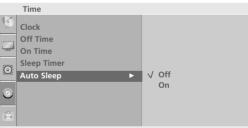
- Press the **MENU** button and then  $\wedge/\vee$  button to select the **Time** menu.
- Press the > button and then ^/ > button to select Auto Sleep.













# **TELETEXT**

#### This feature is not available in all countries.

Teletext is a free service broadcast by most TV stations which gives up-to-the-minute information on news, weather, television programmes, share prices and many other topics.

The teletext decoder of this TV can support the SIMPLE, TOP and FASTEXT systems. SIMPLE (standard teletext) consists of a number of pages which are selected by directly entering the corresponding page number. TOP and FASTEXT are more modern methods allowing quick and easy selection of teletext information.

### SWITCH ON/OFF

Press the **TEXT** button to switch to teletext. The initial page or last page viewed appears on the screen.

Two page numbers, TV station name, date and time are displayed on the screen headline. The first page number indicates your selection, while the second shows the current page displayed.

Press the TEXT or RETURN button to switch off teletext. The previous mode reappears.

### SIMPLE TEXT

### **■** Page selection

- 1 Enter the desired page number as a three digit number with the NUMBER buttons. If during selection you press a wrong number, you must complete the three digit number and then re-enter the correct page number.
- ② The  $P \land / \lor (or PR \blacktriangle / \blacktriangledown or PR +/-)$  button can be used to select the preceding or following page.

#### Programming a colour button in LIST mode (Only 22LG3\*\*\*)

If the TV is in SIMPLE text, TOP text or FASTEXT mode, press the EM button to switch to LIST mode.

Four teletext page numbers of your choice can be colour coded and easily selected by pressing the corresponding coloured button on the remote control handset.

- Press a coloured button.
- ② Using the NUMBER buttons, select the page you wish to programme.
- 3 Press the **OK** button. The selected page is stored as the selected page number, blinking once to confirm this. From now on, you can select this page with the same coloured button.
- 4 The three other coloured buttons are programmed in this way.

### **TOP TEXT**

The user guide displays four fields-red, green, yellow and blue at the bottom of the screen. The yellow field denotes the next group and the blue field indicates the next block.

#### ■ Block / group / page selection

- With the blue button you can progress from block to block.
- ② Use the yellow button to proceed to the next group with automatic overflow to the next block.
- 3 With the green button you can proceed to the next existing page with automatic overflow to the next group. Alternatively the  $P \land (or PR \blacktriangle or PR +)$  button can be used.
- The red button return to the previous selection. Alternatively the P ∨ (or PR ▼ or PR ) button can be used.

### **■** Direct page selection

As with SIMPLE teletext mode, you can select a page by entering it as a three digit number using the NUMBER buttons in TOP mode.

### **FASTEXT**

The teletext pages are colour coded along the bottom of the screen and are selected by pressing the corresponding coloured button.

#### **■** Page selection

- Press the button to select the index page.
- 2 You can select the pages which are colour coded along the bottom line with corresponding coloured buttons.
- 3 As with SIMPLE teletext mode, you can select a page by entering its three digit page number with the NUMBER buttons in FASTEXT mode.
- **②** The P  $\wedge$  /  $\vee$  (or PR  $\blacktriangle$  /  $\blacktriangledown$  or PR +/-) button can be used to select the preceding or following page.

### **TELETEXT**

### SPECIAL TELETEXT FUNCTIONS



#### ■ TIME

When viewing a TV programme, press this button to display the time at the top right hand corner of the screen. Press this button again to remove the display. In the teletext mode, press this button to select a sub page number. The sub page number is displayed at the bottom of the screen. To hold or change the sub page, press the RED/GREEN,  $P \land / \lor \text{ (or } PR \land / \lor \text{ or } PR +/-)$  or NUMBER buttons.

Press again to exit this function.



#### ■ SIZE

Selects double height text.

Press this button to enlarge the top half of the page.

Press this button again to enlarge the bottom half of the page.

Press this button again to return to the normal display.



#### ■ UPDATE

Displays the TV picture on the screen while waiting for a new teletext page. The display will appear at the top left hand corner of the screen. When the updated page is available then display will change to the page number. Press this button again to view the updated teletext page.



#### ■ REVEAL

Press this button to display concealed information, such as solutions to riddles or puzzles. Press this button again to remove the information from the display.



#### **■** INDEX

Select the each index page.



#### HOLD

Stops the automatic page change which will occur if a teletext page consists of 2 or more sub pages. The number of sub pages and the sub page displayed is, usually, shown on the screen below the time. When this button is pressed the stop symbol is displayed at the top left-hand corner of the screen and the automatic page change is inactive. To continue press this button again.



#### ■ MIX (Only 22LG3\*\*\*)

Displays the teletext pages superimposed on the TV picture.

To switch the TV picture off press this button again.

# **TROUBLESHOOTING**

(This feature is not available for all models.)

The TV does not open	rate properly
The remote control does not work	<ul> <li>Check to see if there is any object between the TV and the remote control causing an obstruction.</li> <li>Are batteries installed with correct polarity (+ to +, - to -)?</li> <li>Correct remote operating mode set: TV, STB, DVD etc.?</li> <li>Install new batteries.</li> </ul>
Power is suddenly turned off	<ul> <li>Is the sleep time set?</li> <li>Check the power control settings. Has the Power supply been interrupted.</li> <li>Is Auto sleep activated on this station.</li> </ul>

The video function do	es not work.
No picture & No sound	<ul> <li>Check whether the TV is switched on.</li> <li>Try another channel. The problem may be with the broadcast.</li> <li>Is the power cord inserted correctly into the mains?</li> <li>Check your antenna direction and/or location.</li> <li>Test the mains outlet by plugging another TV into the same outlet.</li> </ul>
Picture appears slow- ly after switching on	■ This is normal, the image is muted during the TV startup process. Please contact your service center, if the picture has not appeared after five minutes.
No or poor colour or poor picture	<ul> <li>Adjust Colour in menu option.</li> <li>Allow a sufficient distance between the TV and the VCR.</li> <li>Try another channel. The problem may be with the broadcast.</li> <li>Are the video cables installed properly?</li> <li>Activate any function to restore the brightness of the picture.</li> </ul>
Horizontal/vertical bars or picture shaking	■ Check for local interference such as an electrical appliance or power tool.
Poor reception on some channels	<ul> <li>Station or cable channel experiencing problems, tune to another station.</li> <li>Station signal is weak, reposition the antenna to receive weaker stations.</li> <li>Check for sources of possible interference.</li> </ul>
Lines or streaks in pictures	■ Check antenna (Change the position of the antenna).
No picture when connecting HDMI	■ Check HDMI cable over version 1.3.  If the HDMI cables don't support HDMI version 1.3, it can cause flickers or no screen display. In this case use the latest cables that support HDMI version 1.3.

The audio function do	es not work.
Picture OK & No sound	<ul> <li>■ Press the</li></ul>
No output from one of the speakers	Adjust Balance in menu option.
Unusual sound from inside the TV	A change in ambient humidity or temperature may result in an unusual noise when the TV is switched on or off and does not indicate a fault with the TV.
No sound when connecting HDMI or USB	<ul> <li>Check HDMI cable over version 1.3.</li> <li>Check USB cable over version 2.0.</li> <li>*This feature is not available for all models.</li> </ul>

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

### **MAINTENANCE**

Early malfunctions can be prevented. Careful and regular cleaning can prolong the life of your new TV. Caution: Be sure to swith the power off and unplug the power cord before you begin any cleaning.

### **Cleaning the Screen**

- A good way to keep the dust off your screen for a while is to 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.
- 2 Ensure there is no excess water on the screen. Allow any water or dampness to evaporate before switching on.

### **Cleaning the Cabinet**

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

### **Extended Absence**

### **A** CAUTION

▶ If you expect to leave your TV dormant for prolonged periods (such as a holiday), unplug the power cord to protect against possible damage from lightning or power surges.

# **PRODUCT SPECIFICATIONS**

MODELS		42PG1***	42PG2***	
IVIC	JUEL3	42PG10R-TA	42PG20R-TA 42PG21R-TA	
Dimensions (Width x Height x Depth) with stand		1040 x 729 x 308 mm 40.9x 28.7 x 12.1 inches	1040 x 731.3 x 308 mm 40.9x 28.7 x 12.1 inches	
	without stand	1040 x 677 x 83.6 mm 40.9x 26.6 x 3.3 inches	1040 x 677 x 86 mm 40.9 x 26.6x 3.4 inches	
Weight	with stand without stand	26 kg / 57.3 lbs 24 kg / 52.9 lbs	27.3 kg / 60.1 lbs 24.4 kg / 53.8 lbs	
Power requirement		AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz	
	NDELC.	50PG1***	50PG2***	
MODELS		50PG10R-TA	50PG20R-TA 50PG21R-TA	
Dimensions (Width x Height x Depth)	with stand	1224.7 x 849 x 364 mm 48.2 x 33.4x 14.3inches	1224.7 x 849 x 364 mm 48.2 x 33.4x 14.3inches	
	without stand	1224.7 x 790 x 83.6 mm 48.2x 31.1 x 3.2 inches	1224.7 x 790 x 86 mm 48.2x 31.1 x 3.4 inches	
Weight	with stand without stand	41.5 kg / 91.5 lbs 38.1kg / 84lbs	41.8 kg / 92.2 lbs 37.8kg / 83.3lbs	
Power requirement		AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz	
Television System Program Coverage External Antenna Impedance		VHF: NZ1~E21, UHF: E21 ~ E69,	D/K, PAL I/II, NTSC-M CATV: S1 ~ S20, HYPER: S21 ~ S47 5 Ω	
Environment condition	Operating Temperature Operating Humidity		/ 32 ~ 104°F han 80%	
	Storage Temperature Storage Humidity		C/-4 ~ 140°F han 85%	

<sup>■</sup> The specifications shown above may be changed without prior notice for quality improvement.

		22LG3***/22LG1***	26LG3***/26LG1***	32LG3***/32LG1***	
МС	DDELS	22LG30R-TA/22LG32R-TA 22LG30RA-TA 22LG33R-TC/22LG34R-TC 22LG10R-TA	26LG30R-TA/26LG32R-TA 26LG30RA-TA	32LG30R-TA/32LG32R-TA 32LG30RA-TA 32LG33R-TC/32LG34R-TC 32LG10R-TA	
Dimensions with stand (Width x Height x Depth)		522.2 x 431.5 x 189 mm 20.6 x 16.9 x 7.4 inches	663.3 x 508.2 x 227.3 mm 26.1 x 20 x 8.9 inches	801.7 x 604.2 x 227.3 mm 31.5 x 23.8 x 8.9 inches	
(width x neight x Depth)	without stand	522.2 x 384.2 x 69 mm 20.6 x 15.1 x 2.7 inches	663.3 x 449.8 x 80 mm 26.1 x 17.7 x 3.1 inches	801.7 x 544.1 x 79 mm 31.5 x 21.4 x 3.1 inches	
Weight	with stand without stand	5.6 kg / 12.3 lbs 5.34 kg / 11.7 lbs	10.1 kg / 22.2 lbs 8.6 kg / 18.9 lbs	13.35 kg / 29.4 lbs 11.85 kg / 26.1 lbs	
Power requirement		AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz	
МС	DDELS	37LG3***/37LG1***  37LG30R-TA/37LG32R-TA  37LG30RA-TA  37LG33R-TC/37LG34R-TC  37LG10R-TA	42LG3***/42LG1***  42LG30R-TA/42LG32R-TA  42LG30RA-TA  42LG33R-TC/42LG34R-TC  42LG10R-TA  42LG31FR-TA	47LG3***/47LG1***  47LG30R-TA/47LG32R-TA  47LG30RA-TA  47LG33R-TC/47LG34R-TC  47LG10R-TA	
Dimensions (Width x Height x Depth)	with stand	919.6 x 682.3 x 293.8 mm 36.2 x 26.9 x 11.6 inches	1032.8 x 742.3 x 293.8 mm 40.7 x 29.3 x 11.6 inches	1146 x 805.8 x 342.9 mm 45.1 x 31.7 x 13.5 inches	
(watti x reight x Depth)	without stand	919.6 x 610.3 x 89 mm 36.2 x 24 x 3.5 inches	1032.8 x 670.1 x 92 mm 40.7 x 26.4 x 3.6 inches	1146 x 732.8 x 103 mm 45.1 x 28.8 x 4 inches	
Weight	with stand without stand	18.8 kg / 41.4 lbs 16.2 kg / 35.7 lbs	23.6 kg / 52 lbs 21.0 kg / 46.3 lbs	29.5 kg / 65 lbs 24.9 kg / 54.9 lbs	
Power requirement		AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz	
Television System Programme Coverage External Antenna Impedance		PAL/SECAM B/G/D/K, PAL I/II, NTSC-M VHF: E2 $\sim$ E12, UHF: E21 $\sim$ E69, CATV: S1 $\sim$ S20, HYPER: S21 $\sim$ S47 75 $\Omega$			
Environment condition	Operating Temperature Operating Humidity		0 ~ 40°C / 32 ~ 104°F Less than 80%		
Livioninent Condition	Storage Temperature Storage Humidity	-20 ~ 60°C / -4 ~ 140°F Less than 85%			

<sup>■</sup> The specifications shown above may be changed without prior notice for quality improvement.

# **PRODUCT SPECIFICATIONS**

МС	DDELS	<b>32PC5***</b> 32PC5RA-TD
Dimensions (Width x Height x Depth) with stand		819.9 x 599.8x 258.4 mm 32.3 x 23.6 x 10.2 inches
	without stand	819.9 x 554.2 x 78.1 mm 32.3 x 21.8 x 3.1 inches
Weight	with stand without stand	16.2kg / 35.7 lbs 15.1kg / 33.2 lbs
Power requirement		AC100-240V~ 50/60Hz
Television System		PAL/SECAM B/G/D/K, PAL I/II, NTSC-M
Program Coverage		VHF: NZ1~E21, UHF: E21 ~ E69, CATV: S1 ~ S20, HYPER: S21 ~ S47
External Antenna Imped	ance	75 Ω
	Operating Temperature	0 ~ 40°C / 32 ~ 104°F
Environment condition	Operating Humidity	Less than 80%
	Storage Temperature	-20 ~ 60°C / -4 ~ 140°F
	Storage Humidity	Less than 85%

<sup>■</sup> The specifications shown above may be changed without prior notice for quality improvement.

		32LG5***			37LG5***
		32LG50R-TA		37LG50R-TA	
MODELS		32LG50FR-TA			37LG50FR-TA
		32LG50FR-TE			37LG50FR-TE
		32LG55FR-TE 32LG53FR-TD			37LG55FR-TE 37LG53FR-TD
		813.8x 598.8x 231.9 mm			.4x 685.4x 294 mm
Dimensions (Width x Height x Depth)	with stand	32.1x 23.6 x 9.2 inches		36.86	x 26.98 x 11.57 inches
	without stand	813.8x 540.4x 95.5	5 mm	93	6.4x 612.8x 88 mm
		32.1x 21.3 x 3.8 in	iches	36.8	6 x 24.1 x 3.4 inches
W. L.	with stand	14.1 kg / 31.1 lb	os	1	8.3 kg / 40.3 lbs
Weight	without stand	12.6 kg / 27.8 lb			5.6 kg / 34.39 lbs
Power requirement		AC100-240V~ 50/	60Hz	AC1	00-240V~ 50/60Hz
		42LG5***	47LC	55***	52LG5***
			47LG50R-TA 47LG50FR-TA		52LG50R-TA 52LG50FR-TA
МС	DDELS	42LG50FR-TE 42LG55FR-TE 42LG53FR-TD	47LG50FR-TE 47LG55FR-TE 47LG53FR-TD		52LG50FR-TE 52LG55FR-TE 52LG53FR-TD
Dimensions (Width x Height x Depth)	with stand	1032 x 894.8 x 293.8 mm 40.6 x 35.2 x 11.5 inches	1156.2 x 813.1 x 342.9 mm 45.5 x 32 x 13.5 inches		1291.7 x 892.1 x 342.9 mm 50.8 x 35.1 x 13.5 inches
	without stand	1032 x 662.3 x 89mm 40.6 x 26.1 x 3.5 inches	1156.2 x 739.2 x 103 mm 45.5 x 29.1 x 4 inches		1291.7 x 817 x 115.3 mm 50.8 x 32.1 x 4.5 inches
Weight	with stand without stand	26.2 kg / 57.8 lbs 23.5 kg / 51.8 lbs	29.2 kg / 66.4 lbs 24.6 kg / 54.3 lbs		39.5 kg / 87 lbs 34.9 kg / 77 lbs
Power requirement		AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz		AC100-240V~ 50/60Hz
Television System		PAL/SECAM B/G/D/K, PAL I/II, NTSC-M			
Programme Coverage		VHF: E2 ~ E12, UHF: E21 ~ E69, CATV: S1 ~ S20, HYPER: S21 ~ S47			
External Antenna Imped	lance	75 Ω			
	Operating Temperature		0 ~ 40°C	/ 32 ~ 104°F	
Environment condition	Operating Humidity		Less	than 80%	
LIMITOTIMENT CONDITION	Storage Temperature		-20 ~ 60°	C / -4 ~ 140°F	
	Storage Humidity		Less	than 85%	

<sup>■</sup> The specifications shown above may be changed without prior notice for quality improvement.

### PROGRAMMING THE REMOTE CONTROL

(This feature is not available for all models.)

The remote control is a multi brand or universal remote. It can be programmed to operate most remote controlled devices from other manufacturers.

Note that the remote control may not control all models from other brands.

### Programming a code into a remote mode

- 1 Testing your remote control.
  - To find out whether your remote control can operate other components without programming, turn on a component such as a STB and press the corresponding mode button (such as a DVD or STB) on the remote control, while pointing at the component. Test the POWER and  $P \land / \lor$  buttons to see if the component responds correctly. If the component does not operate correctly, the remote control requires programming to operate the device.
- Switch on the component to be programmed, then press the corresponding mode button (such as a **DVD** or **STB**) on the remote control. The remote control button of the desired device is illumintated.
- Press the MENU and MUTE buttons simultaneously, the remote control is ready to be programmed with the code.
- 4 Enter a code number using the number buttons on the remote control. Programming code numbers for the corresponding component can be found on the following pages. If the code is correct, the device will turn off
- Press the **MENU** button to store the code.
- Test the remote control functions to see if the component responds correctly. If not, repeat from step 2.

# **Programming code**

(This feature is not available for all models.)

### DVD

Brand	Codes	Brand	Codes	Brand	Codes
APEX DIGITAL	022	MITSUBISHI	002	RCA	005 006
DENON	020 014	NAD	023	SAMSUNG	011 015
GE	005 006	ONKYO	008 017	SONY	007
HARMAN KARDO	N 027	PANASONIC	003 009	THOMPSON	005 006
JVC	012	PHILIPS	013	TOSHIBA	019 008
LG	001 010 016 025	PIONEER	004 026	YAMAHA	009 018
MAGNAVOX	013	PROCEED	021	ZENITH	010 016 025
MARANTZ	024	PROSCAN	005 006		

### **HDSTB**

Brand	Codes	Brand	Codes	Brand	Codes
ALPHASTAR DSR	123	HOUSTON TRACKER	033 037 039 051	REALISTIC	043 074
AMPLICA	050		057 104	SAMSUNG	123
Astro Philips(ML)	159	HUGHES	068	SATELLITE SERVICE CO	028 035 047 057
Astro Thompson(ML)	160	Humax(SL)	158		085
Astro Nokia(ML)	161	JANIEL	060 147	Samart(TH)	156
BIRDVIEW	051 126 129	JERROLD	061	SCIENTIFIC ATLANTA	032 138
CHANNEL MASTER	013 014 015 018	KATHREIN	108	SONY	103
	036 055	LEGEND	057	STARCAST	041
CHAPARRAL	008 009 012 077	LG	001	SUPER GUIDE	020 124 125
CITOH	054	LUTRON	132	TEECOM	023 026 075 087
CURTIS MATHES	050 145	LUXOR	062 144		088 090 107 130
DRAKE	005 006 007 010	MACOM	010 059 063 064		137
	011 052 112 116		065	TOSHIBA	002 127
	141	MEMOREX	057	True Vision(TH)	155
DX ANTENNA	024 046 056 076	NEXTWAVE	028 124 125	UBC(TH)	153
ECHOSTAR	038 040 057 058	NORSAT	069 070	UBC/SAMART(TH)	154
	093 094 095 096	PACE SKY SATELLITE	143	UNIDEN	016 025 042 043
	097 098 099 100	PANASONIC	060 142		044 045 048 049
	122	PANSAT	121		078 079 080 086
ELECTRO HOME	089	PERSONAL CABLE	117		10 135 136
EUROPLUS	114	PHILIPS	071	VIEWSTAR	115
FUJITSU	017 021 022 027	PICO	105	VTC(VN)	162
	133 134	PRESIDENT	019 102	WINEGARD	128 146
GENERAL INSTRUMEN		PRIMESTAR	030 110 111	ZENITH	081 082 083 084
	031 059 101	PROSAT	072		091 120
HITACHI	139 140	PSI(TH)	157		
		RCA	066 106		

### **IR CODES**

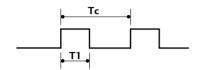
### 1. How to Connect

■ 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



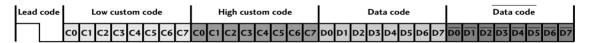
Carrier frequency

FCAR = 1/TC = fOSC/12

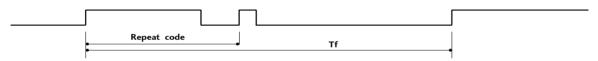
Duty ratio = T1/TC = 1/3

### **■** Configuration of frame

1st frame



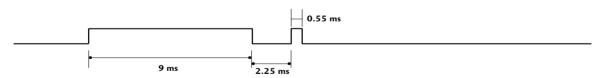
Repeat frame



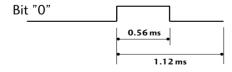
#### Lead code

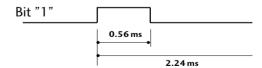


#### ■ Repeat code



### ■ Bit description





#### ■ Frame interval: Tf

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



Code (Hexa)	Function	Note	Code (Hexa)	Function	Note
ОВ	INPUT	R/C Button	01	P ∨ (or <b>▼</b> )	R/C Button
08	POWER	R/C Button (Power On/Off)	30	AV MODE	R/C Button
60	PIP	R/C Button	09	MUTE	R/C Button
43	MENU	R/C Button	53	LIST	R/C Button
5B	RETURN	R/C Button	10 ~ 19	Number Key 0 ~ 9	R/C Button
07	<	R/C Button	1 E	FAV	R/C Button
06	>	R/C Button	1A	Q.VIEW	R/C Button
40	^	R/C Button	20	TEXT	R/C Button
41	<b>~</b>	R/C Button	7E	SIMPLINK	R/C Button
44	OK	R/C Button	B1	■ Stop/TIME	R/C Button
72	RED	R/C Button	ВО	► Play/SIZE	R/C Button
71	GREEN	R/C Button	BA	l   Pause	
63	YELLOW	R/C Button		UPDATE	R/C Button
61	BLUE	R/C Button	8F	<b>◄</b> Rew/INDEX	R/C Button
02	→ (or ►)	R/C Button	8E	►► FF/HOLD	R/C Button
03	✓ -(or	R/C Button	45	Q.MENU	R/C Button
00	P ∧ (or <b>▲</b> )	R/C Button	BD	●(Record)/REVEAL	R/C Button
4D	PICTURE(or PSM)	R/C Button	79	RATIO	R/C Button
52	SOUND(or SSM)	R/C Button			
0A	1/11	R/C Button			
0E	SLEEP	R/C Button		(Only	Plasma TV models, 22LG3*
22	MODE	R/C Button			
24	MIX	R/C Button			
26	TIME	R/C Button			
2A	REVEAL	R/C Button			
62	UPDATE	R/C Button			
64	SIZE	R/C Button			
65	HOLD	R/C Button			
	INDEX	R/C Button			
70					

# (Only 32PC5\*\*\*)

Code (Hexa)	Function	Note	Code (Hexa)	Function	Note
ОВ	INPUT	R/C Button	01	PR-	R/C Button
08	POWER	R/C Button (Power On/Off)	30	AV MODE	R/C Button
60	PIP	R/C Button	09	MUTE	R/C Button
43	MENU	R/C Button	53	LIST	R/C Button
5B	RETURN	R/C Button	10 ~ 19	Number Key 0 ~ 9	R/C Button
07	◀	R/C Button	1E	FAV	R/C Button
06	<b>&gt;</b>	R/C Button	1A	Q.VIEW	R/C Button
40	<b>A</b>	R/C Button	20	TEXT	R/C Button
41	▼	R/C Button	7E	SIMPLINK	R/C Button
44	OK	R/C Button	B1	■ Stop/TIME	R/C Button
72	RED	R/C Button	ВО	► Play/SIZE	R/C Button
71	GREEN	R/C Button	BA	<b>l</b> Pause	
63	YELLOW	R/C Button		UPDATE	R/C Button
61	BLUE	R/C Button	8F	<b>◄</b> Rew/INDEX	R/C Button
02	VOL +	R/C Button	8E	►► FF/HOLD	R/C Button
03	VOL -	R/C Button	45	Q.MENU	R/C Button
00	PR +	R/C Button	BD	●(Record)/REVEAL	R/C Button

### **EXTERNAL CONTROL THROUGH RS-232C**

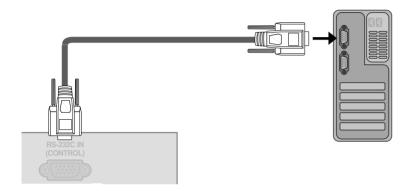
(This feature is not available for all models.)

Connect the RS-232C input jack to an external control device (such as a computer or an A/V control system) and control the TV's functions externally.

Connect the serial port of the control device to the RS-232C jack on the TV back panel.

RS-232C connection cables are not supplied with the TV.

### **RS-232C Setup**



### Type of Connector; D-Sub 9-Pin Male

No.	Pin Name
1	No connection
2	RXD (Receive data)
3	TXD (Transmit data)
4	DTR (DTE side ready)
5	GND
6	DSR (DCE side ready)
7	RTS (Ready to send)
8	CTS (Clear to send)
9	No Connection

### **RS-232C Configurations**

7-Wire Co	7-Wire Configurations (Standard RS-232C cable)									
	PC	TV								
RXD	2	3	TXD							
TXD	3 •	2	RXD							
GND	5 •	5	GND							
DTR	4 •	<b>6</b>	DSR							
DSR	6 •—	• 4	DTR							
RTS	7 •—	<b>8</b>	CTS							
CTS	8 •	<del> </del>	RTS							
	D-Sub 9	D-Sub 9								

3-W	3-Wire Configurations(Not standard)									
	PC	TV								
RXD	2 •—	<b>—</b> 3	TXD							
TXD	3 •——	<b>─</b> 2	RXD							
GND	5 •	<b>─</b> 5	GND							
DTR	4	6	DTR							
DSR	6	4	DSR							
RTS	7	7	RTS							
CTS	8	8	CTS							
	D-Sub 9	D-Sub 9								

### **Set ID**

- Use this function to specify a set ID number.
- Refer to 'Real Data Mapping 1'. See page 112.
- Press the **MENU** button and then use  $\land / \lor$  button to select the **Option** menu.
- Press the > button and then use  $\land / \lor$  button to select **Set ID**.
- Press the > button and then use < / > button to adjust Set ID to choose the desired TV ID number.
  - The adjustment range of SET ID is  $1 \sim 99$ .
- Press the MENU button to return to normal TV viewing.

  Press the RETURN or MENU(Only 22LG3\*\*\*) button to move to the previous menu screen.







### **Communication Parameters**

■Baud rate : 9600 bps (UART) ■ Stop bit : 1 bit

■ Data length: 8 bits ■ Communication code: ASCII code ■ Parity: None ■ Use a crossed (reverse) cable.

### **Command Reference List**

	COMMAND1	COMMAND2	DATA (Hexadecimal)	C	OMMAND1	COMMAND2	DATA (Hexadecimal)
01. Power	k	a	00 ~ 01	16. Colour Temperatur	e k	u	00 ~ 03
02. Aspect Ratio	k	c Ref	er to p.110	17. Red Adjustment	k	V	00 ~ 3C
03. Screen Mute	k	d	00 ~ 01	18. Green Adjustment	k	w	00 ~ 3C
04. Volume Mute	k	e	00 ~ 01	19. Blue Adjustment	k	\$	00 ~ 3C
05. Volume Control	k	f	00 ~ 64	20. Abnormal Status	k	Z	FF
06. Contrast	k	g	00 ~ 64	21. ISM Method	j	р	Refer to p.112
07. Brightness	k	h	00 ~ 64	22. Power Saving	j	q	Refer to p.112
08. Colour	k	i	00 ~ 64	23. Auto Configure	j	u	01
09. Tint	k	j	00 ~ 64	24. Equalize	j	٧	Refer to p.113
10. Sharpness	k	k	00 ~ 64	25. Tune Command	m	a	Refer to p.113
11. OSD Select	k	I	00 ~ 01	26. Channel Skip	m	b	00 ~ 01
12. Remote Control Lock	ς k	m	00 ~ 01	27. Key	m	С	Key Code
/Key Lock Mode				28. Input select (Main)	) x	b	Refer to p.113
13. PIP/DW	k	n	00 ~ 03	29. Input select (PIP)	Х	y	Refer to p.114
14. PIP Position	k	q	00 ~ 03	30. Control Back Light	: m	g	00 ~ 64
15. Balance	k	t	00 ~ 64			Ü	

### **Transmission / Receiving Protocol**

#### Transmission

#### [Command1][Command2][ ][Set ID][ ][Data][Cr]

[Command 1]: First command to control the set.(j, k, m or x) [Command 2]: Second command to control the set.

[Set ID] : You can adjust the set ID to choose desired TV ID number in Setup menu. Adjustment range is  $1 \sim 99$ . When selecting Set ID '0', every connected TV is controlled. Set ID is indicated as decimal  $(1 \sim 99)$  on menu and as Hexa decimal  $(0x0 \sim 0x63)$  on transmission/receiving protocol.

[DATA] : To transmit command data.

Transmit 'FF' data to read status of comand.

[Cr] : Carriage Return

ASCII code '0x0D'

[ ]: ASCII code 'space (0x20)'

#### OK Acknowledgement

#### [Command2][ ][Set ID][ ][OK][Data][x]

The TV transmits ACK (acknowledgement) based on this format when receiving normal data. At this time, if the data is data read mode, it indicates present status data. If the data is data write mode, it returns the data of the PC computer.

#### Error Acknowledgement

#### [Command2][ ][Set ID][ ][NG][Data][x]

TV transmits ACK(acknowledgement) based on this format when receiving abnormal data form non-viable functions or communication errors.

[Command 2] : use as command.

[Set ID]: use the small character, if set ID is 10, TV will send the '0', 'a' [Data]: use the small character, if data is 0xab, TV will send the 'a', 'b'. [NG]: use the large character.

#### 01. Power (Command: k a)

To control Power On/Off of the TV.

Transmission [k][a][][Set ID][][Data][Cr]

Data 00 : Power Off Data 01 : Power On

Acknowledgement [a][][Set ID][][OK/NG][Data][x]

To show Power On/Off.

Transmission [k][a][][Set ID][][FF][Cr]

Acknowledgement [a][][Set ID][][OK/NG][Data][x]

\* If there is the time delay between command and ack message during power on sequence, It should be described like "Note: In this model, TV will send the Acknowledge after power on processing completion. There might be a time delay between command and acknowledge."

#### 02. Aspect Ratio (Command: k c) (Main picture size)

To adjust the screen format. (Main picture format) You can adjust the screen format using the Aspect Ratio in the Picture menu.

Transmission [k][c][][Set ID][][Data][Cr]

Data 01: Normal screen (4:3) Data 06: Original Data 02: Wide screen (16:9) Data 07: 14:9

Data 04: Zoom1 Data 09: Just Scan(Except 22LG3\*\*\*)

Data 05: Zoom2

Acknowledgement [c][][Set ID][][OK/NG][Data][x]

- \* Using the RGB-PC, Component or HDMI input, you select either 16:9 or 4:3 screen aspect ratio.
- \* In HDMI/Component (over 720p)mode,J Just Scan is available.

#### 03. Screen Mute (Command: k d)

To select screen mute on/off.

Transmission [k][d][][Set ID][][Data][Cr]

Data 00 : Screen mute off (Picture on)
Data 01 : Screen mute on (Picture off)

Acknowledgement [d][][Set ID][][OK/NG][Data][x]

#### 04. Volume Mute (Command: k e)

To control volume mute on/off.

You can also adjust mute using the MUTE button on remote control.

Transmission [k][e][][Set ID][][Data][Cr]

Data 00: Volume mute on (Volume off)
Data 01: Volume mute off (Volume on)

 $\label{local_acknowledgement} Acknowledgement \ [e][\ ][Set\ ID][\ ][OK/NG][Data][x]$ 

#### 05. Volume Control (Command: k f)

To adjust volume.

You can also adjust volume with the volume buttons on remote control.

Transmission [k][f][][Set ID][][Data][Cr]

Data Min: 00 ~ Max: 64

Refer to 'Real data mapping 1'. See page 112.

Acknowledgement [f][ ][Set ID][ ][OK/NG][Data][x]

#### 06. Contrast (Command: k g)

To adjust screen contrast.

You can also adjust contrast in the Picture menu.

Transmission [k][g][][Set ID][][Data][Cr]

Data Min: 00 ~ Max: 64

Refer to 'Real data mapping 1'. See page 112.

Acknowledgement [g][][Set ID][][OK][Data][x]

#### 07. Brightness (Command: k h)

To adjust screen brightness.

You can also adjust brightness in the Picture menu.

Transmission [k][h][][Set ID][][Data][Cr]

Data Min: 00 ~ Max: 64

Refer to 'Real data mapping 1'. See page 112.

Acknowledgement [h][][Set ID][][OK/NG][Data][x]

#### 08. Colour (Command: k i)

To adjust the screen colour.

You can also adjust colour in the Picture menu.

Transmission [k][i][][Set ID][][Data][Cr]

Data Min : 00 ~ Max : 64

Refer to 'Real data mapping 1'. See page 112.

Acknowledgement [i][][Set ID][][OK/NG][Data][x]

#### 09. Tint (Command: k j)

To adjust the screen tint.

You can also adjust tint in the Picture menu.

Transmission [k][j][][Set ID][][Data][Cr]

Data Red: 00 ~ Green: 64

Refer to 'Real data mapping 1'. See page 112.

Acknowledgement [j][][Set ID][][OK/NG][Data][x]

#### 10. Sharpness (Command: k k)

To adjust the screen sharpness.

You can also adjust sharpness in the Picture menu.

Transmission [k][k][][Set ID][][Data][Cr]

Data Min: 00 ~ Max: 64

Refer to 'Real data mapping 1'. See page 112.

Acknowledgement [k][][Set ID][][OK/NG][Data][x]

#### 11. OSD Select (Command: k l)

To select OSD (On Screen Display) on/off when controlling remotely.

 $\textit{Transmission} \ [k] [l] [\ ] [\mathsf{Set} \ \mathsf{ID}] [\ ] [\mathsf{Data}] [\mathsf{Cr}]$ 

Data 00: OSD off Data 01: OSD on

Acknowledgement [l][][Set ID][][OK][Data][x]

#### 12. Remote Control Lock/Key Lock Mode (Command: k m)

To lock the remote control and the front panel controls on the set.

Transmission [k][m][][Set ID][][Data][Cr]

Data 00: Lock off Data 01: Lock on

Acknowledgement [m][][Set ID][][OK/NG][Data][x]

#### 13. PIP / DW (Command: k n)(Except 22LG3\*\*\*)

To control the PIP (Picture In picture)/DW.

You can also control the PIP/DW using the PIP button on the remote control or in the PIP/DW menu.

Transmission [k][n][][Set ID][][Data][Cr]

Data 00:PIP/DW off
Data 01: PIP
Data 02: DW1
Data 03: DW2

Acknowledgement [n][][Set ID][][OK/NG][Data][x]

#### 14. PIP Position (Command: k q)(Except 22LG3\*\*\*)

To select sub picture position for PIP.

You can also adjust the sub picture position using PIP button on the remote control or in the PIP/DW menu.

Transmission [k][q][][Set ID][][Data][Cr]

Data 00: Right down on screen
Data 01: Left down on screen
Data 02: Left up on screen

Data 03: Right up on screen

Acknowledgement [q][][Set ID][][OK/NG][Data][x]

#### 15. Balance (Command: k t)

To adjust balance.

You can also adjust balance in the Audio menu.

Transmission [k][t][][Set ID][][Data][Cr]

Data Min: 00 ~ Max: 64

Refer to 'Real data mapping 1'. See page 112.

Acknowledgement [t][][Set ID][][OK/NG][Data][x]

#### 16. Colour Temperature (Command: k u)

To adjust colour temperature.

You can also adjust Colour Temperature in the Picture menu.

Transmission [k][u][][Set ID][][Data][Cr]

Data 00: Medium 01: Cool 02: Warm 03: User

Acknowledgement [u][][Set ID][][OK/NG][Data][x]

#### 17. Red Adjustment (Command: k v)

To adjust red in colour temperature.

Transmission [k][v][][Set ID][][Data][Cr]

Data Min: 00 ~ Max: 3C

Refer to 'Real data mapping 2'. See page 112.

Acknowledgement [v][][Set ID][][OK/NG][Data][x]

#### 18. Green Adjustment (Command: k w)

To adjust green in colour temperature.

Transmission [k][w][][Set ID][][Data][Cr]

Data Min: 00 ~ Max: 3C

Refer to 'Real data mapping 2'. See page 112.

Acknowledgement [w][][Set ID][][OK/NG][Data][x]

#### 19. Blue Adjustment (Command: k \$)

To adjust blue in colour temperature.

Transmission [k][\$][][Set ID][][Data][Cr]

Data Min: 00 ~ Max: 3C

Refer to 'Real data mapping 2'. See page 112.

Acknowledgement [\$][][Set ID][][OK/NG][Data][x]

#### 20. Abnormal State (Command: k z)

To recognize an abnormal state.

Transmission [k][z][][Set ID][][FF][][Cr]

Data FF: Read

Acknowledgement [z][][Set ID][][OK/NG][Data][x]

Data 00: Normal (Power on and signal exist)

Data 01: No signal (Power on)

Data 02: Turn the TV off by remote control

Data 03: Turn the TV off by sleep time function

Data 04: Turn the TV off by RS-232C function

Data 05: 5V down

Data 06: AC down

Data 07: Turn the TV off by Fan Alarm function (option)

Data 08: Turn the TV off by Off time function

Data 09: Turn the TV off by Auto off function

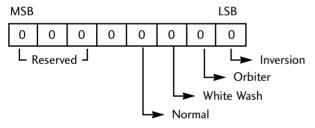
Data a: Turn the TV off by AV board detection.

\* This function is "read only".

### 21. ISM Method (Command: j p) (Only plasma Tv models)

To avoid having a fixed image remain on screen.

Transmission [j][p][][Set ID][][Data][Cr]



7	6	5	4	3	2	1	0	Function
				0	0	0	1	Inversion
				0	0	1	0	Orbiter
				0	1	0	0	White Wash
				1	0	0	0	Normal
Х	Χ	Χ	Χ					Reserved

<sup>\*</sup> More two kinds of function can not be set at a time.

Acknowledgement [p][][Set ID][][OK/NG][Data][x]

# 22. Low Power(Power Saving) (Command: j q) (Only plasma Tv models)

To reduce the power consumption of the TV.

Transmission [j][q][][Set ID][][Data][][Cr]

Data Min: 00 ~ Max: 04

Data Min: 00 ~ Max: 01 (only 32PC5\*\*\*)

(\*transmit by Hexadecimal code)

Acknowledgement [q][][Set ID][][OK/NG][Data][x]

#### 23 . Auto Configure (Command: j u)

To adjust picture position and minimize image shaking automatically. It works only in RGB (PC) mode.

Transmission [j][u][][Set ID][][Data][Cr]

Data 01: To set

Acknowledgement [u][][Set ID][][OK/NG][Data][x]

### \* Real data mapping 1

00 : Step 0
::
A : Step 10
::
F : Step 15
10 : Step 16
::
64 : Step 100
::
6E : Step 110

: 73 : Step 115 74 : Step 116

C7: Step 199 : FE: Step 254

FF : Step 255

\* Real data mapping 2

00: -30 01: -29 02: -28

> 1E: 0 ... 28: +10

i 3A:+28 3B:+29

3B:+29 3C:+30 ... 4E: N/A

4E: N/A 4F: N/A 50: N/A

#### 24. Equalize(Command: j v)

► To adjust equalize.

Transn	Transmission [j][v][ ][Set ID][ ][Data][Cr]								
MSB	MSB LSB								
0	0	0	0	0	0	0	0		
L <sub>Fr</sub>	L <sub>Frequency</sub> L Data								

7	6	5	Frequency	4	3	2	1	0	Step
0	0	0	1'st Band	0	0	0	0	0	O(decimal)
0	0	1	2'nd Band	0	0	0	0	1	1 (decimal)
0	1	0	3'rd Band	0	0	0	1	0	2 (decimal)
0	1	1	4'th Band						
1	0	0	5'th Band						
1	0	1	6'th Band						
1	1	0	7'th Band	1	1	1	1	0	30(decimal)
1	1	1	8'th Band	1	1	1	1	1	31 (decimal)

 $\label{local_constraint} \textit{Acknowledgement} \ [v][\ ][\mathsf{Set}\ \mathsf{ID}][\ ][\mathsf{OK/NG}][\mathsf{Data}][x]$ 

#### 25 . Tune Command / Channel Tuning (Command: m a)

Tune Channel to following Physical number.

Transmission [m][a][][Set ID][][Data0][][Data1]
[][Data2][Cr]

Data00 Min: 00 ~ Max: 63 (\*transmit by Hexadecimal code)

Data01 don't care Data02 0 ; Main 1 : Sub

Acknowledgement [a][][Set ID][OK][][Data0][Data1][x]
[a][][Set ID][NG][][Data0][x]

#### 26. Channel Skip(Command: m b)

To set skip status for the current Programme.

Transmission [m][b][ ][Set ID][ ][Data][Cr]

Data 00 : Skip 01 : Add

Acknowledgement [b][ ][Set ID][ ][OK/NG][Data][x]

#### 27. Key (Command: m c)

To send IR remote key code.

Transmission [m][c][][Set ID][][Data][Cr]

Data: Key code - Refer to page 105~106.

Acknowledgement [c][][Set ID][][OK/NG][Data][x]

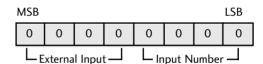
### 28. Input select (Command: x b)

(Main Picture Input)

To select input source for TV

Transmission [x][b][][Set ID][][Data][Cr]

Data: Structure



	Externa	al Inpu	t	Data
0	0	0	1	Analog
0	0	1	0	AV
0	1	0	0	Component
0	1	1	0	RGB-PC
1	0	0	1	HDMI

ı	nput N	Numbe	r	Data
0	0	0	0	Input1
0	0	0	1	Input2
0	0	1	0	Input3
0	0	1	1	Input4

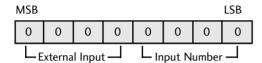
Acknowledgement [b][][Set ID][][OK/NG][Data][x]

### 29. PIP Input select (Command: x y)(Except 22LG3\*\*\*)

To adjust input source for sub picture in PIP mode.

Transmission [x][y][][Set ID][][Data][Cr]

Data: Structure



	Externa	al Inpu	t	Data
0	0	0	1	Analog
0	0	1	0	AV

	nput N	Numbe		Data
0	0	0	0	Input1
0	0	0	1	Input2
0	0	1	0	Input3
0	0	1	1	Input4

Acknowledgement [y][][Set ID][][OK/NG][Data][x]

# 30. Control Back Light (Command: m g) (LCD TV only)

To Cont rol t he back light.

Transmission [m][g][ ][Set ID][ ][Data][Cr]

Data : data Min: 00 ~ Max: 64 (\* transmit by Hexadecimal code)

Acknowledgement [g][ ][Set ID][ ][OK/NG][Data][x]

