

**LG**

Life's Good

DVB[®]Digital Video
BroadcastingTrade Mark of the DVB Digital Video
Broadcasting Project (1991 to 1996)**ID Number(s):** 6487 : 47LH5000

6337 : 19LU4000 6458 : 47LH5020

6423 : 19LU4010 6462 : 47LH5010

6338 : 22LU4000 6195 : 32LH7000

6424 : 22LU4010 6529 : 32LH7010

6334 : 19LU5000 6475 : 32LH7020

6428 : 19LU5010 6471 : 32LH7030

6425 : 19LU5020 6196 : 37LH7000

6335 : 22LU5000 6479 : 37LH7010

6429 : 22LU5010 6476 : 37LH7020

6426 : 22LU5020 6472 : 37LH7030

6336 : 26LU5000 6197 : 42LH7000

6430 : 26LU5010 6528 : 42LH7010

6427 : 26LU5020 6477 : 42LH7020

6200: 19LH2000 6473 : 42LH7030

6437 : 19LH2010 6198 : 47LH7000

6431 : 19LH2020 6480 : 47LH7010

6201: 22LH2000 6478 : 47LH7020

6438 : 22LH2010 6474 : 47LH7030

6432 : 22LH2020 6481 : 32LF2500

6202: 26LH2000 6618 : 32LF2510

6439 : 26LH2010 6482 : 37LH2500

6433 : 26LH2020 6617 : 37LF2510

6203: 32LH2000 6483 : 42LF2500

6440 : 32LH2010 6616 : 42LF2510

6434 : 32LH2020 6488 : 32LH4900

6204: 37LH2000 6489 : 37LH4900

6441 : 37LH2010 6490 : 42LH4900

6435 : 37LH2020 6491 : 47LH4900

6205 : 42LH2000 6755 : 32LG2100

6442 : 42LH2010 6756 : 37LG2100

6436 : 42LH2020 6757 : 42LG2100

6206 : 32LH3000 6191 : 50PS7000

6451 : 32LH3010 6192 : 60PS7000

6447 : 32LH3020 6193 : 50PS8000

6443 : 32LH3030 6194 : 60PS8000

6208: 37LH3000 6558 : 42LH9000

6452 : 37LH3010 6557 : 47LH9000

6448 : 37LH3020 6831 : 55LH5000

6444 : 37LH3030 6868 : 32LH3800

6209: 42LH3000 6869 : 37LH3800

6453 : 42LH3010 6870 : 42LH3800

6449 : 42LH3020 6825 : 19LG3100

6445 : 42LH3030 6826 : 22LG3100

6210: 47LH3000 6827 : 26LG3100

6454 : 47LH3010 6819 : 42PLQ3500

6450 : 47LH3020 6190 : 50PQ3500

6446 : 47LH3030 6186 : 42PQ6500

6211: 32LH4000 6908 : 50PS6500

6467 : 32LH4020 6876 : 32LH3040

6463 : 32LH4010 6877 : 37LH3040

6212: 37LH4000 6878 : 42LH3040

6468 : 37LH4020 6879 : 47LH3040

6464 : 37LH4010 6880 : 32LG3300

6213: 42LH4000 6881 : 37LG3300

6469 : 42LH4020 6882 : 42LG3300

6465 : 42LH4010 6897 : 19LH201C

6214: 47LH4000 6898 : 22LH201C

6470 : 47LH4020 6899 : 26LH201C

6466 : 47LH4010 6900 : 32LH201C

6484: 32LH5000 6901 : 37LH201C

6455 : 32LH5020 6902 : 42LH201C

6459 : 32LH5010 6904 : 32LH301C

6485: 37LH5000 6905 : 37LH301C

6456 : 37LH5020 6906 : 42LH301C

6460 : 37LH5010 6907 : 47LH301C

6486: 42LH5000 6927 : 32LF5100

6457 : 42LH5020 6926 : 42LF5100

6461 : 42LH5010 6925 : 47LF5100

6461 : 42LH5010 6954 : 32LG2200

ENGLISH

LCD TV | LED LCD TV | PLASMA TV

OWNER'S MANUAL

LCD TV MODELS

19LU40** 55LH50** 42LH90**
 22LU40** 32LH70** 47LH90**
 19LU50** 37LH70**
 22LU50** 42LH70**
 26LU50** 32LF25**
 19LH20** 37LF25**
 22LH20** 42LF25**
 26LH20** 32LH49**
 32LH20** 37LH49**
 37LH20** 42LH49**
 42LH20** 47LH49**
 32LH3*** 32LG2***
 37LH3*** 37LG2***
 42LH3*** 42LG2***
 47LH3*** 19LG31**
 32LH40** 22LG31**
 32LH40** 26LG31**
 37LH40** 32LG33**
 42LH40** 37LG33**
 47LH40** 42LG33**
 32LH50** 32LF51**
 37LH50** 42LF51**
 42LH50** 47LF51**
 47LH50**

LED LCD TV MODELS

42LH90**
 47LH90**

PLASMA TV MODELS

50PS70**
 60PS70**
 50PS80**
 60PS80**
 42PQ35**
 50PQ35**
 42PQ65**
 50PS65**

Please read this manual carefully before operating your TV.

Retain it for future reference.

Record the model number and serial number of the TV.

Refer to the label on the back cover and quote this information.

To your dealer when requiring any service.



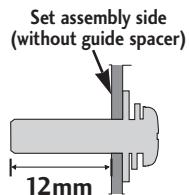
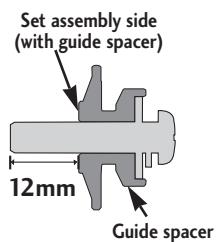
This product qualifies for ENERGY STAR in the "factory default (Home Use mode)" setting and this is the setting in which power savings will be achieved.

Changing the factory default picture setting or enabling other features will increase power consumption that could exceed the limits necessary to qualify for Energy Star rating.



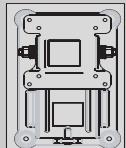
HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

**Use screws 12mm(+0.5/-0.5) long on the SET assembly side.
(Only 42/47LH70**)**



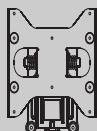
Wall Mounting Bracket(Separate purchase)

RW120



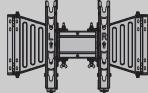
(19/22LU50**
/19/22LU40**
/19/22LH20**
/19/22LG31**)

RW230



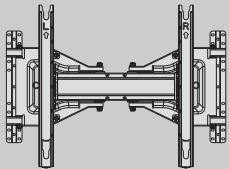
(26LG31**/26LU50**
/32LF25**/32LG2***
/32LG33**
/26/32LH20**/
32LH3**/32LH40**/
32LH49**/32LH50**
/32LH70**/32LF51**)

AW-47LG30M



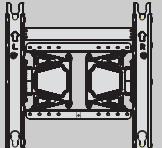
(32/37/42LF25**
/32/37/42LG2***
/32/37/42LG33**
/32/37/42LH20**
/32/37/42/47LH3***
/32/37/42/47LH40**
/32/37/42/47LH49**
/32/37/42/47LH50**
/32/37/42/47LH70**
/42/47LH90**
/32/42/47LF51**)

AW-55LH40M



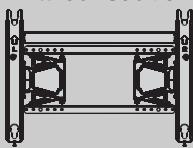
(55LH50**)

AW-50PG60MS



(50PS70**/50PS80**
/42/50PQ35**
/42PQ65**/50PS65**)

AW-60PG60MS



(60PS70**/60PS80**)

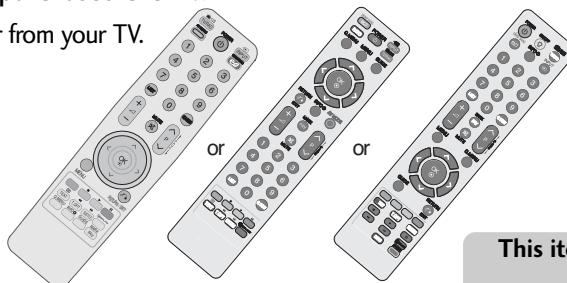
ACCESSORIES

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

■ Image shown may differ from your TV.



Owner's Manual



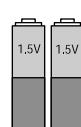
Remote Control



Ferrite Core
(This item is not included for all models.)



Power Cord



Batteries

This item is not included for all models.



Polishing Cloth
Polishing cloth for use on the screen.

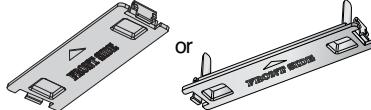
* Lightly wipe any stains or fingerprints on the surface of the TV with the polishing cloth.

Do not use excessive force. This may cause scratching or discolouration.

PLASMA TV models



Cable Holder
(Refer to p.33)



Protection cover
(Refer to p.34)



Bolts for stand assembly
(Only 50PS70**/50PS80**/42/50PQ35**/42PQ65**/50PS65**)
(Refer to p.26)



Cable management clip
(Only 50/60PS70**, 50/60PS80**)
(Refer to p.33)

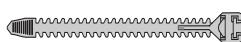
LCD TV models / LED LCD TV models



Cable management clip
(Only 32/37/42/47LH70**)
(Refer to p.33)



Stand rear cover
(Only 37/42/47LH70**)
(Refer to p.31)



Cable Holder
(Only 19/22LU40**, 19/22/26LU50**)
(Refer to p.32)



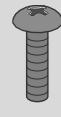
Cable management clip
(Only 19/22LH20**, 19/22LG31**)
(Refer to p.32)



1-screw for stand fixing
(Only 26LG31**, 26LU50**, 32/37/42LH25**, 32/37/42LG2***, 32/37/42LG33***, 26/32/37/42LH20**, 32/37/42LH3***, 32/37/42LH40**, 32/37/42LH49**, 32/37/42LH50**, 32/37LH70**, 42LH90**, 32/42LF51**)
(Refer to p.30)

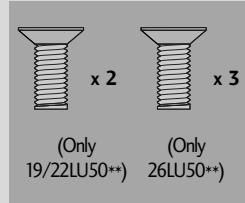


(Only 26LG31**, 32/37/42LH25**, 32/37/42LG2***, 32/37/42LG33***, 26/32/37/42LH20**, 32/37/42LH13***, 32/37/42LH40**, 32/37/42LH49**, 32/37/42LH50**, 42/47LH90**, 32/42LF51**)



(Only 26LG31**, 32/37/42LH25**, 32/37/42LG2***, 32/37/42LG33***, 32/42LF51**)

Bolts for stand assembly
(Refer to p. 25~28)



(Only 19/22LU50**) (Only 26LU50**)



(Only 32LH70**) (Only 37LH70**) (Only 47LH70**)



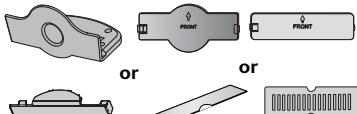
(Only 42LH70**)



(Only 19/22LU40**)



(Only 19/22LU40**)
(Refer to p.28)



Protection Cover
(Except for 19/22LU40**, 19/22/26LU50**)
(Refer to p.34)



Protective Bracket and Bolt for Power Cord
(Only 32/37/42/47LH70**)
(Refer to p.33)



USB extension cable
(Only 32/37/42/47LH70**)
Make sure to use the provided USB extension cable, Which is specially designed for a slim fit.

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PREPARATION

PREPARATION

FRONT PANEL CONTROLS

! NOTE

- ▶ TV can be placed in standby mode in order to reduce the power consumption. And TV should be switched off using the power switch on the TV if it will not be watched for some time, as this will reduce energy consumption.
The energy consumed during use can be significantly reduced if the level of brightness of the picture is reduced, and this will reduce the overall running cost.

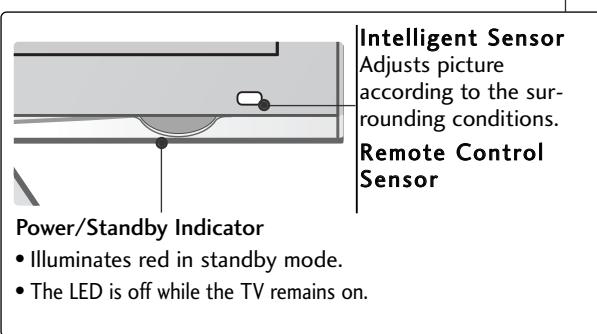
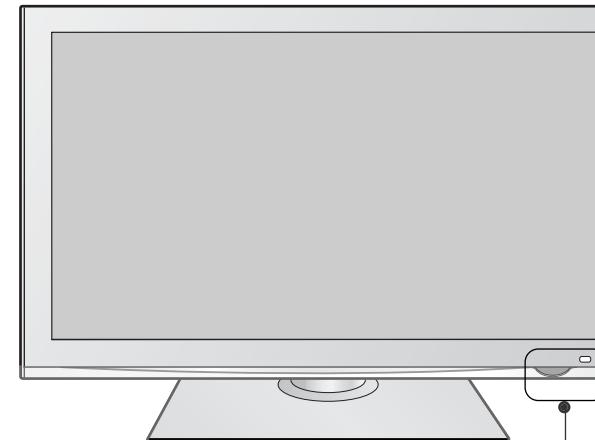
- Image shown may differ from your TV.

Plasma TV Models

⚠ CAUTION

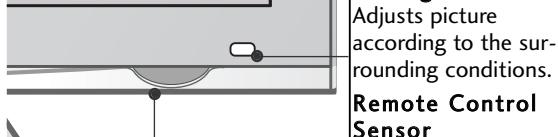
- ▶ When the TV cannot be turned on with the remote control, press the main power button on the TV.
(When the power is turned off with the main power button on the TV, it will not be turned on with the remote control).
- ▶ Do not step on the glass stand or subject it to any impact.
It may break, causing possible injury from fragments of glass, or the TV may fall.
- ▶ Do not drag the TV. The floor or the product may be damaged.

50/60PS70**



Power/Standby Indicator

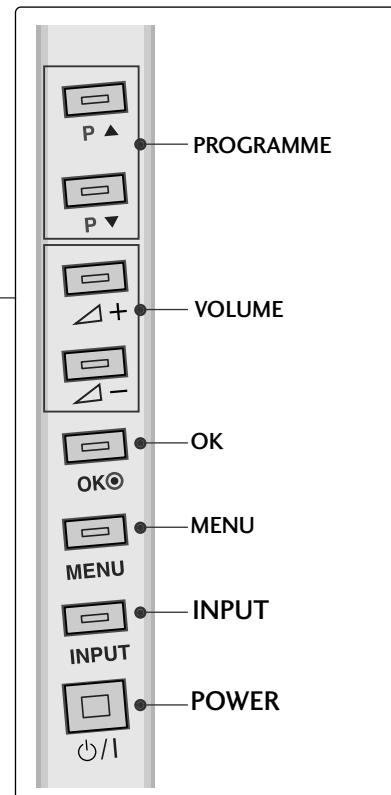
- Illuminates red in standby mode.
- The LED is off while the TV remains on.



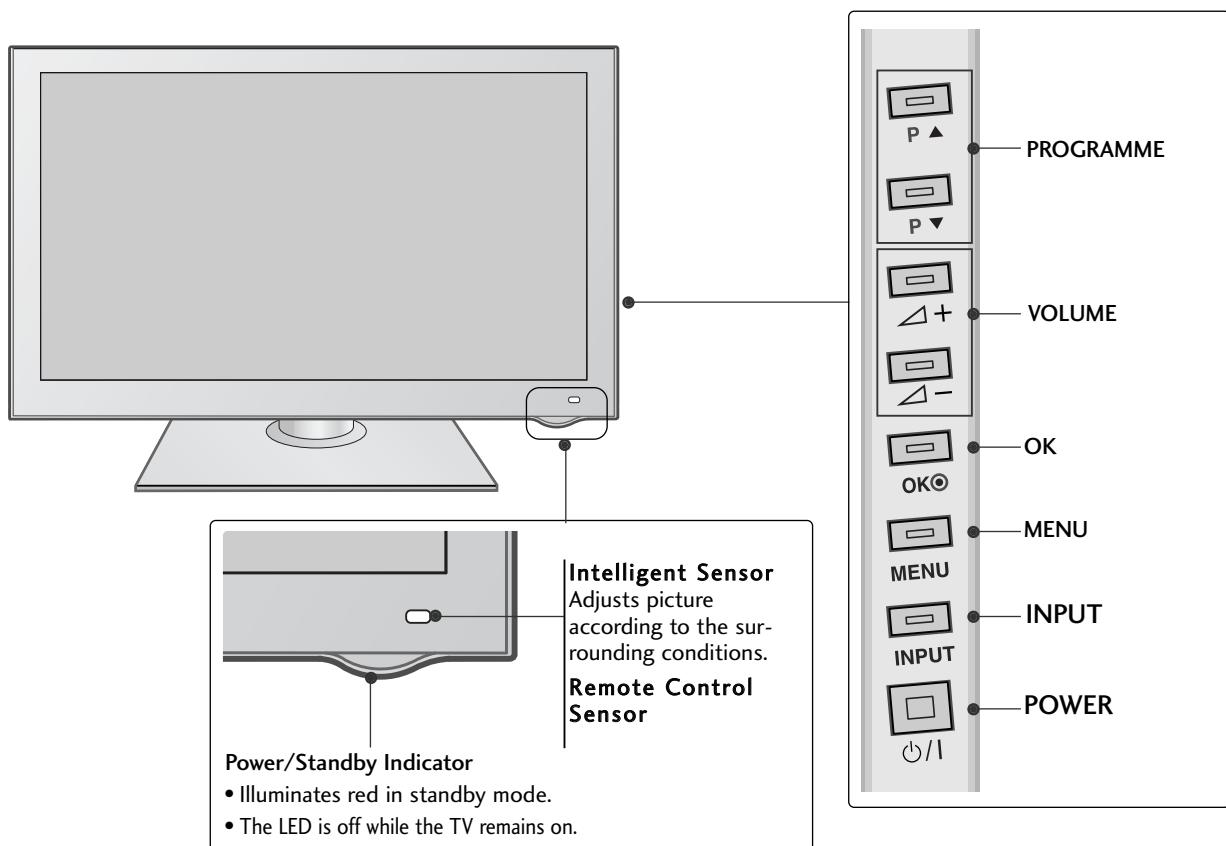
Intelligent Sensor

Adjusts picture according to the surrounding conditions.

Remote Control Sensor



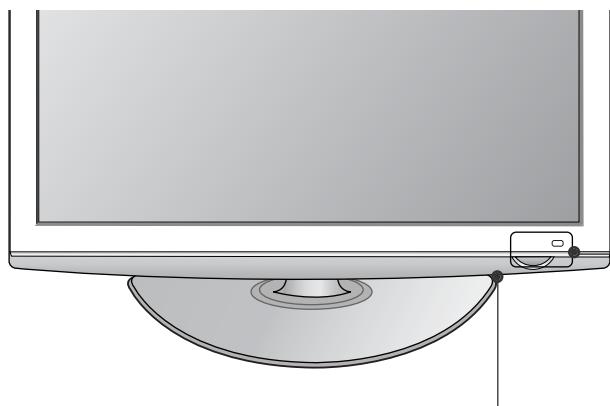
50/60PS80**



PREPARATION

42/50PQ35**

PREPARATION

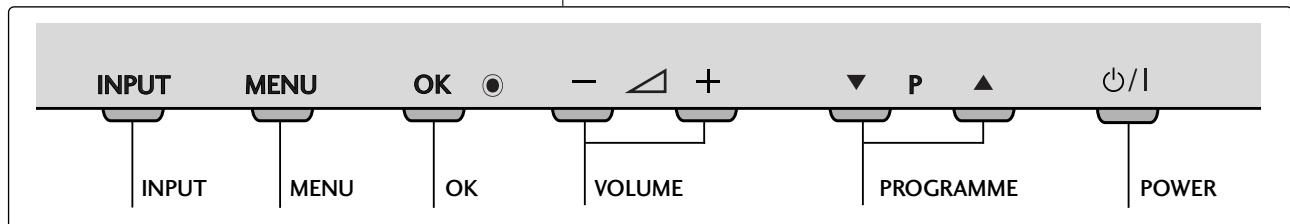


Remote Control Sensor

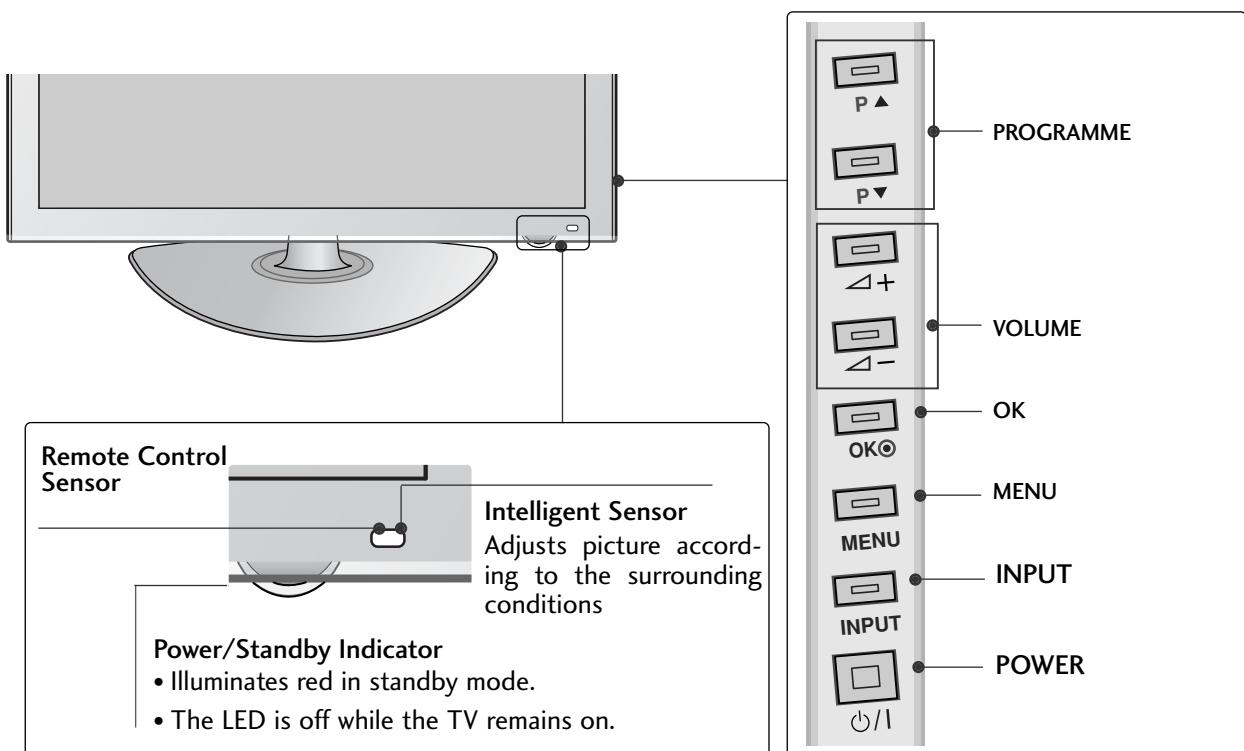
Intelligent Sensor
Adjusts picture according to the surrounding conditions.

Power/Standby Indicator

- Illuminates red in standby mode.
- Illuminates blue when the TV is switched on.



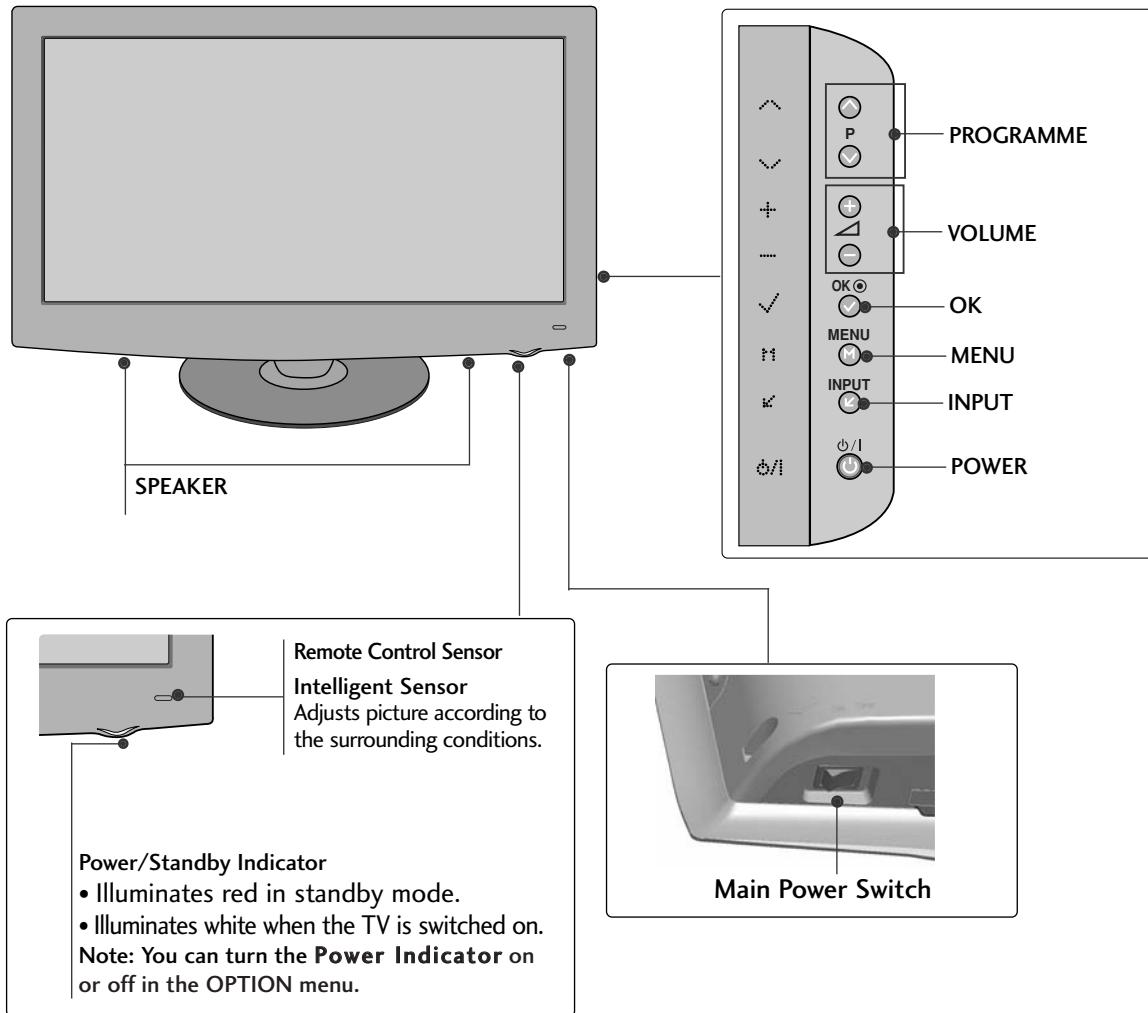
42PQ65**, 50PS65**



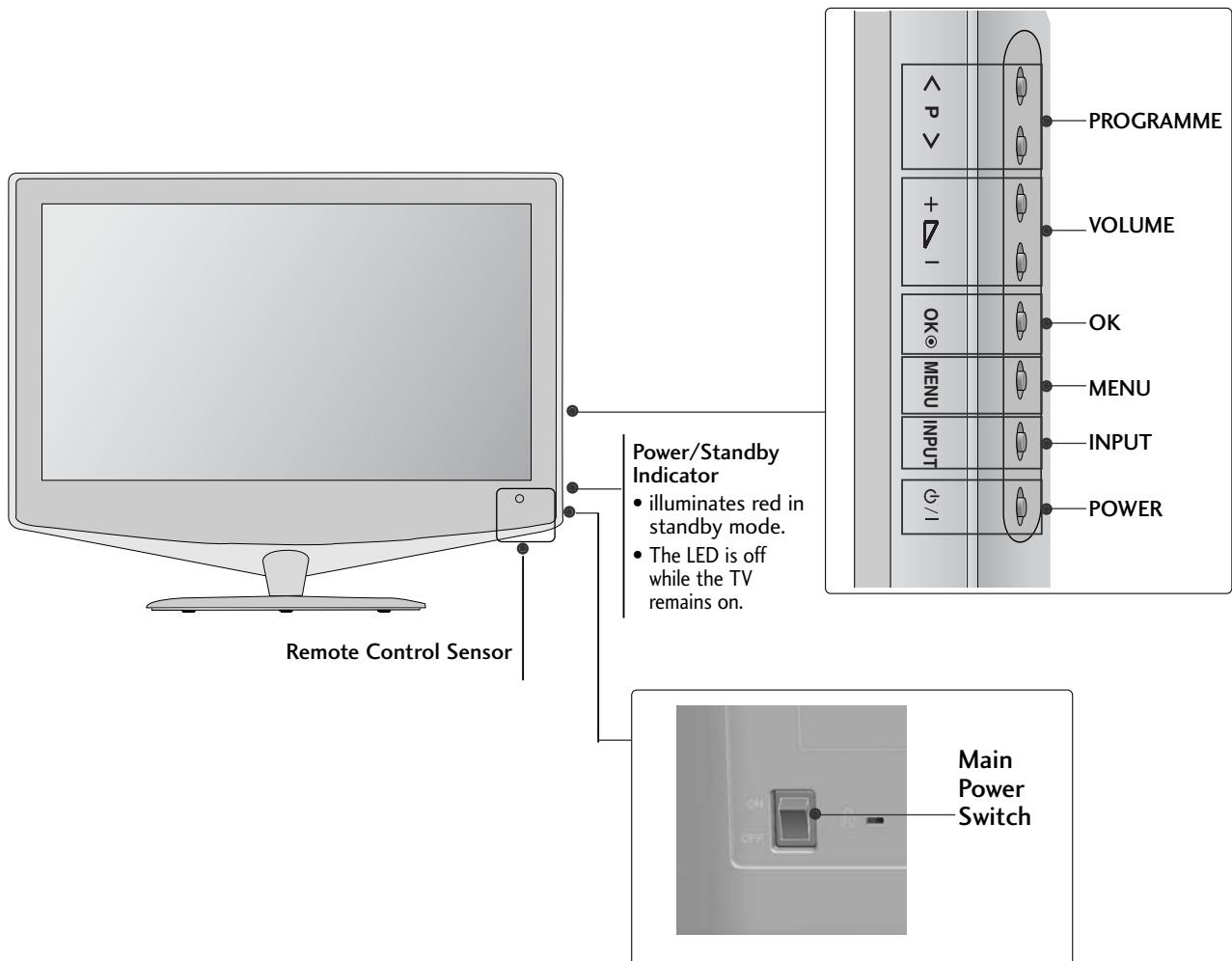
PREPARATION

LED LCD TV Models : 42/47LH90**

PREPARATION



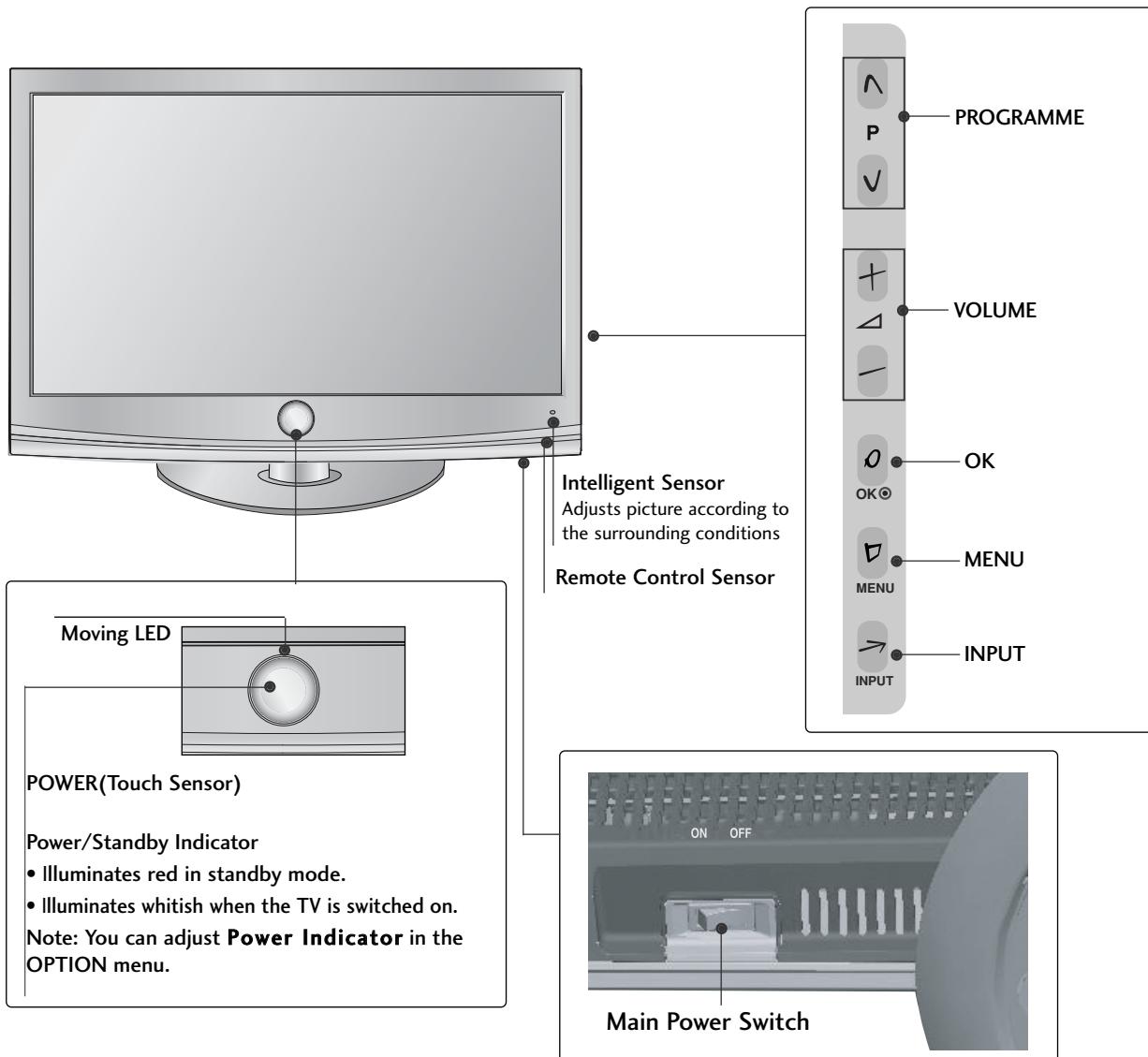
LCD TV Models : 19/22LU40**



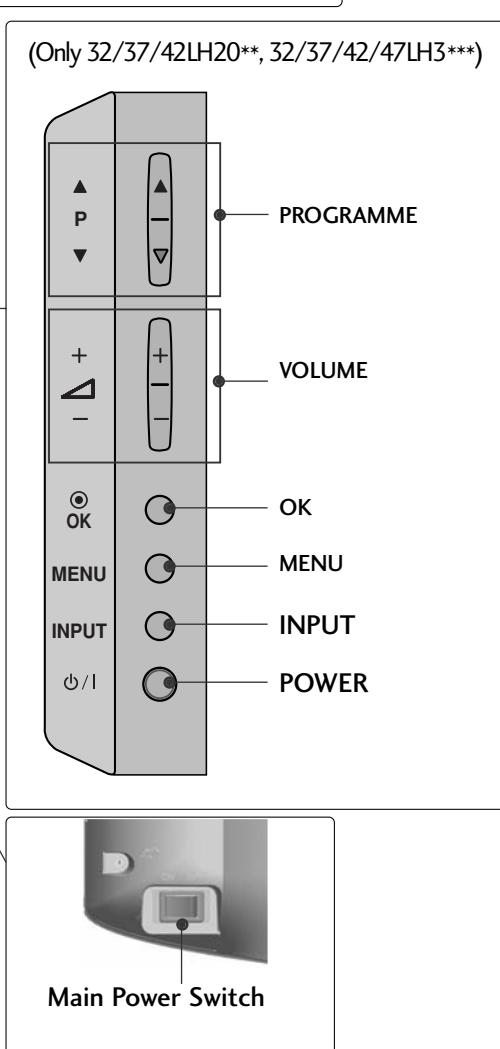
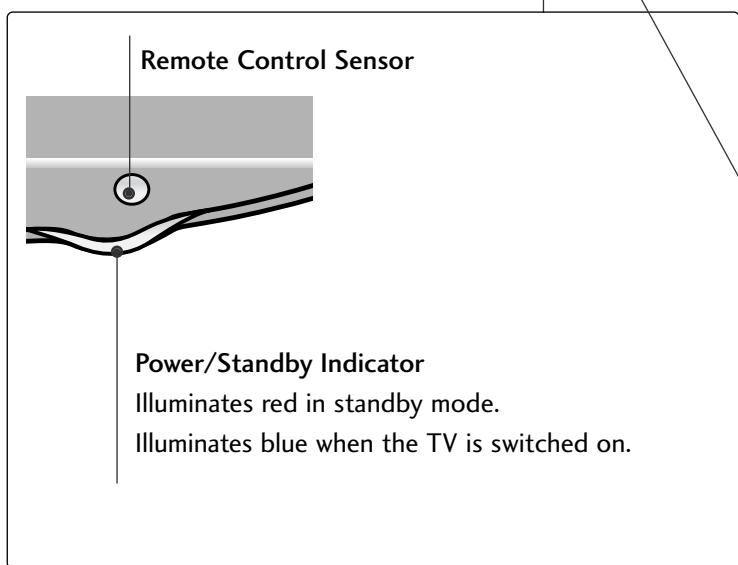
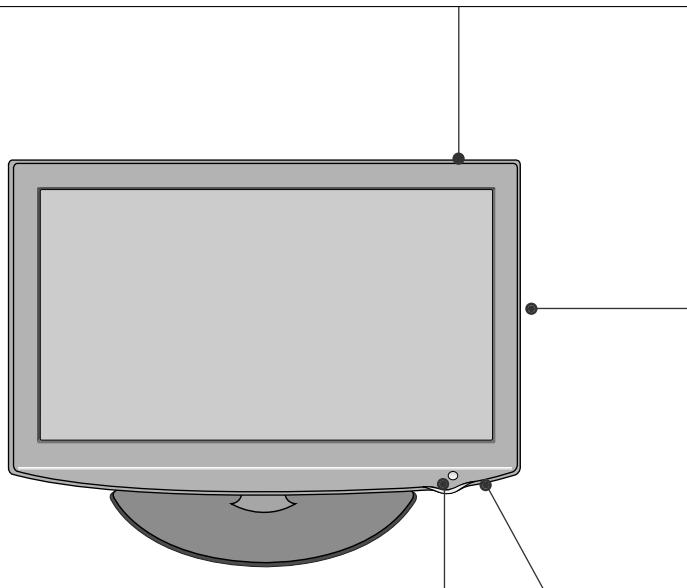
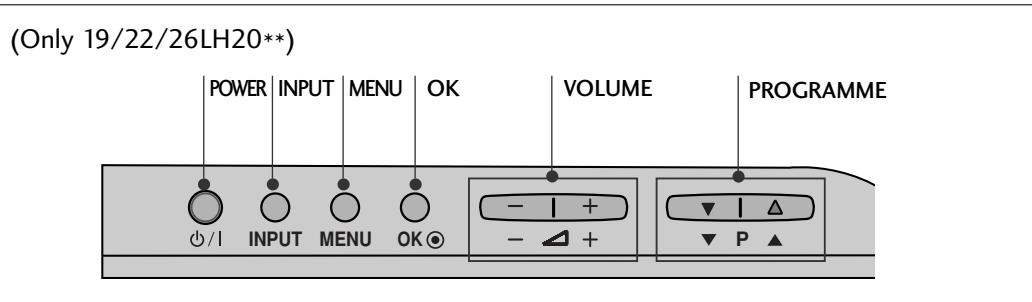
PREPARATION

PREPARATION

LCD TV Models : 32/37/42/47LH70**



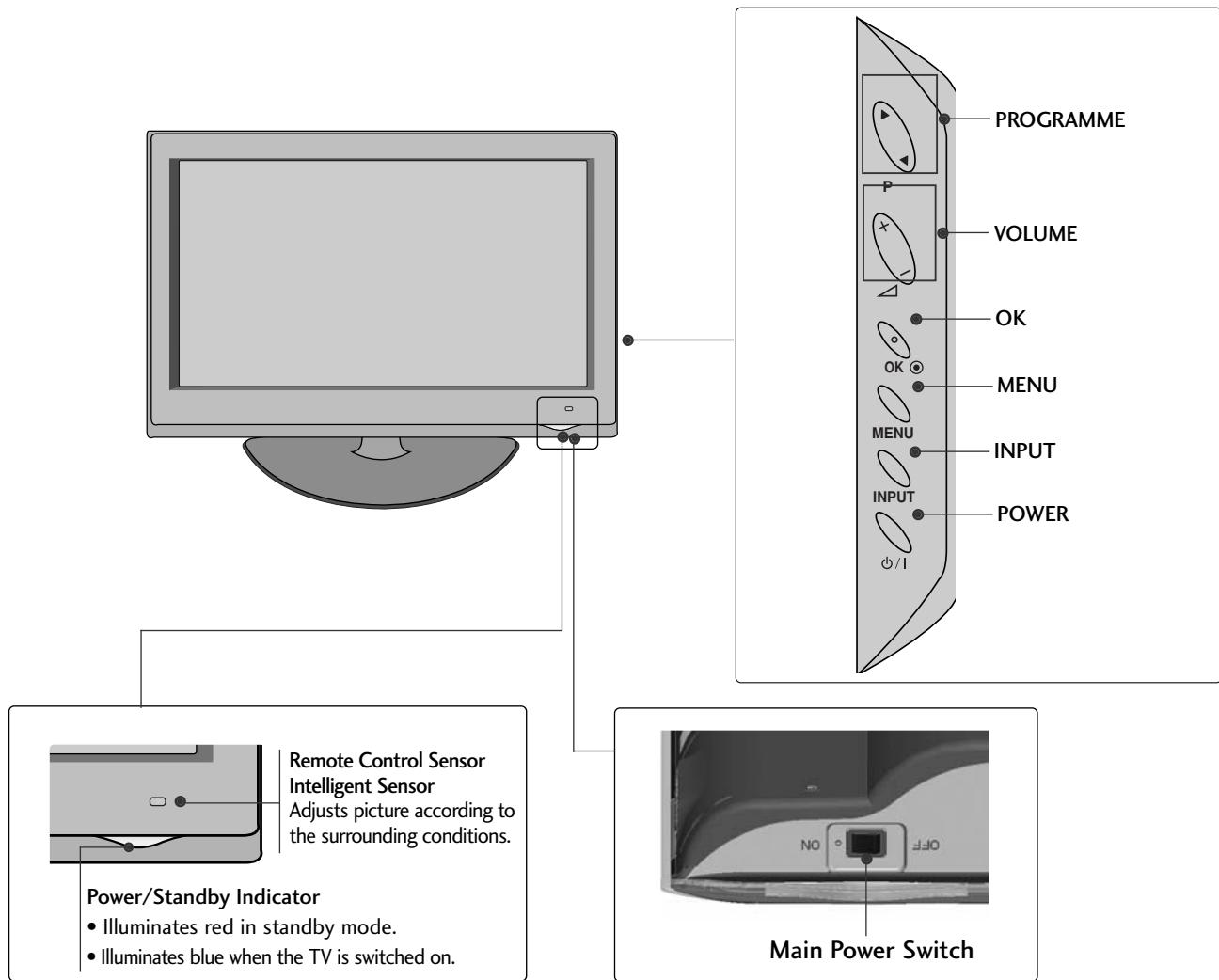
LCD TV Models : 19/22/26/32/37/42LH20**, 32/37/42/47LH3***



PREPARATION

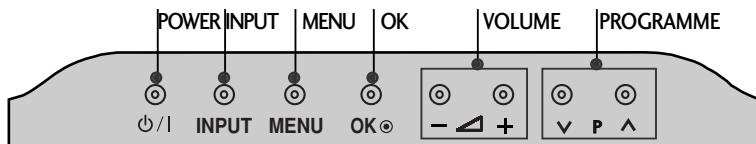
LCD TV Models : 32/37/42/47LH40, 32/37/42/47LH49**,
32/37/42/47/55LH50****

PREPARATION

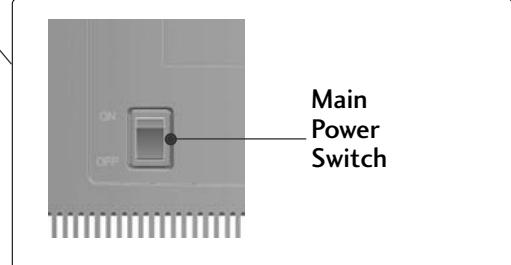
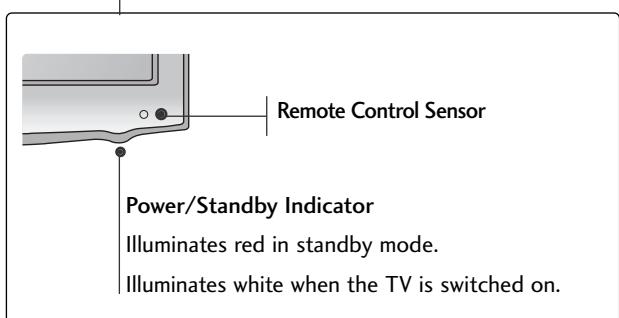
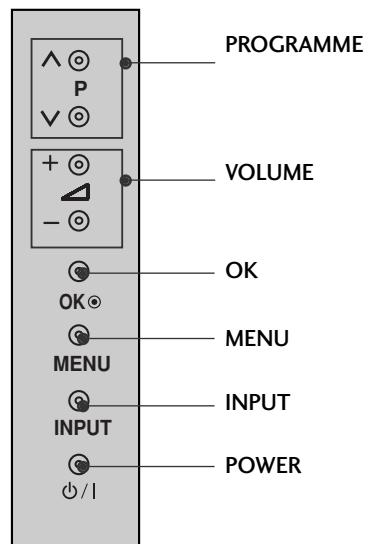


LCD TV Models : 19/22/26LU50**

(Only 19/22LU50**)



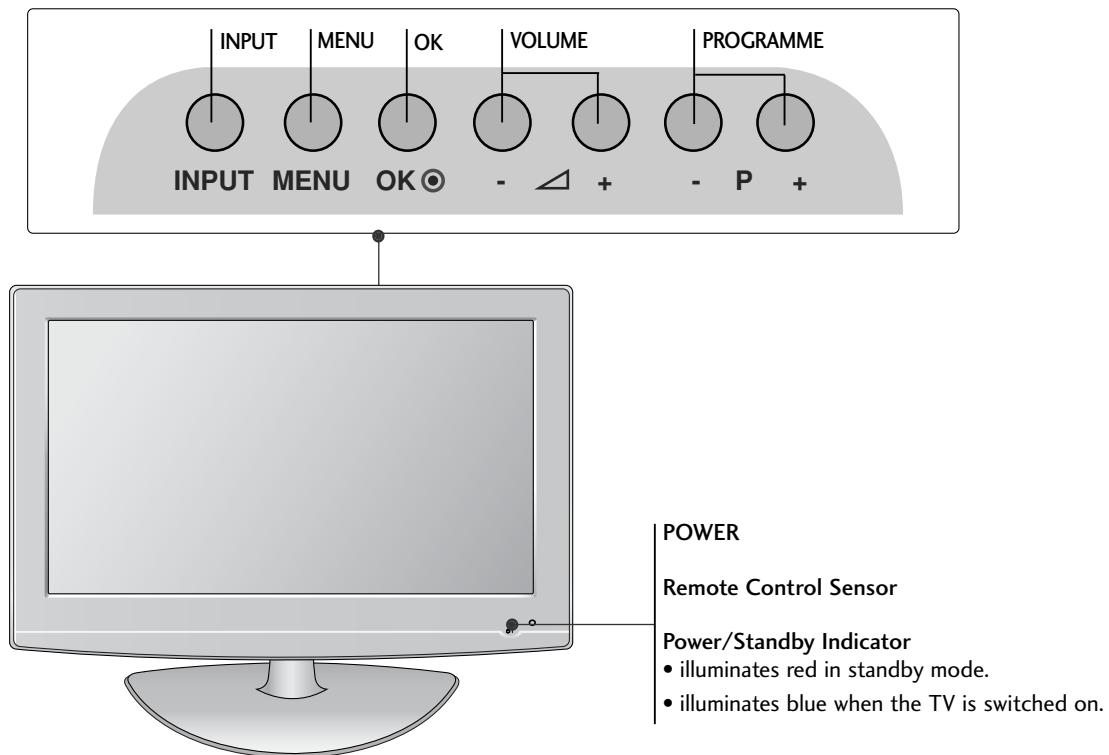
(Only 26LU50**)



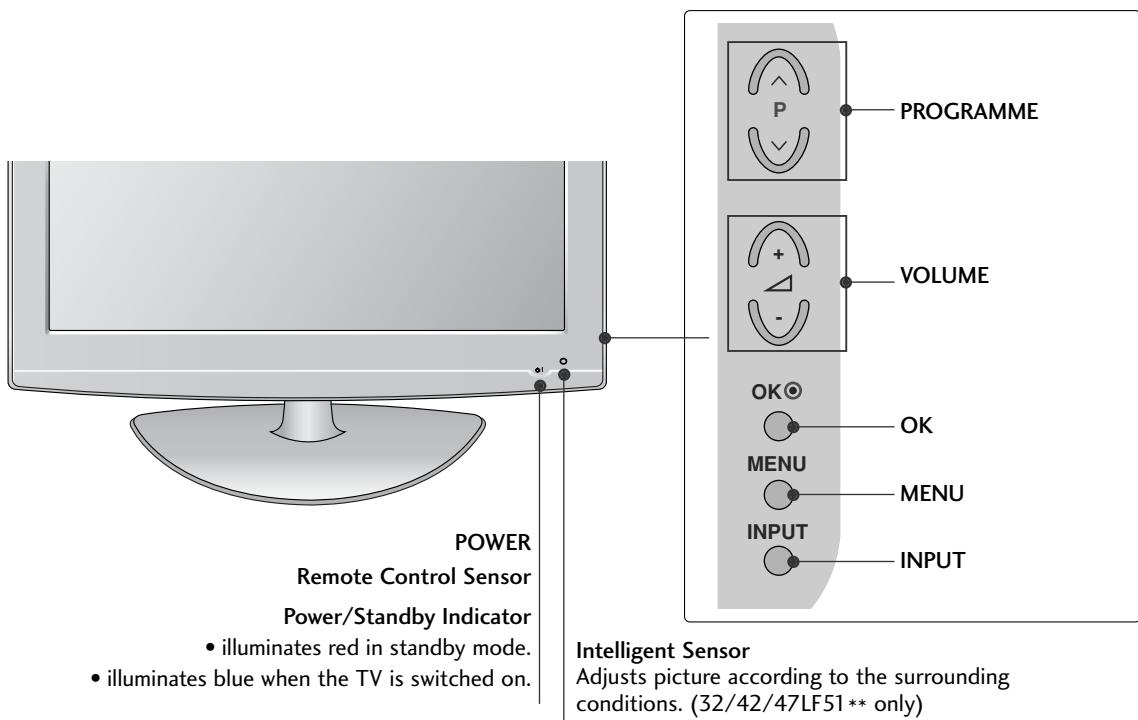
PREPARATION

LCD TV Models : 19/22LG31**

PREPARATION



LCD TV Models : 32/37/42LF25, 32/37/42LG2***, 32/37/42LG33**,
26LG31**, 32/42/47LF51****



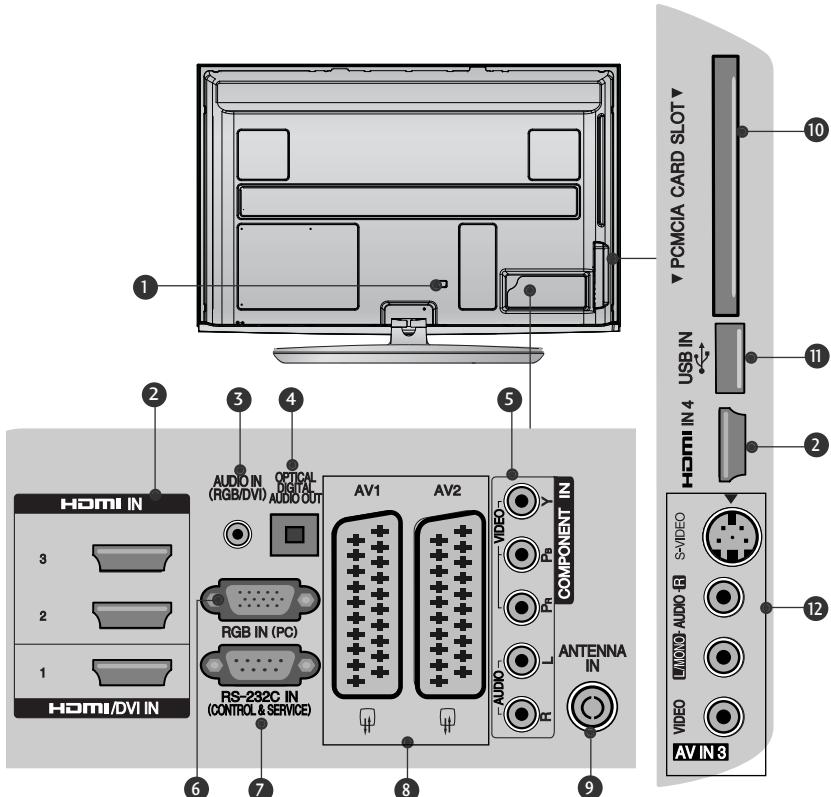
PREPARATION

PREPARATION

BACK PANEL INFORMATION

■ Image shown may differ from your TV.

Plasma TV Models : 50/60PS70, 50/60PS80****



① Power Cord Socket

This TV operates on an AC power. The voltage is indicated on the Specifications page. (▶ p.155~167)
Never attempt to operate the TV on DC power.

② HDMI/DVI IN Input

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

③ RGB/DVI Audio Input

Connect the audio from a PC or DTV.

④ OPTICAL DIGITAL AUDIO OUT

Connect digital audio to various types of equipment.
Connect to a Digital Audio Component.
Use an Optical audio cable.

⑤ Component Input

Connect a component video/audio device to these jacks.

⑥ RGB IN Input

Connect the output from a PC.

⑦ RS-232C IN (CONTROL & SERVICE) PORT

Connect to the RS-232C port on a PC.
This port is used for Service or Hotel mode.

⑧ Euro Scart Socket (AV1/AV2)

Connect scart socket input or output from an external device to these jacks.

⑨ Antenna Input

Connect antenna or cable to this jack.

⑩ PCMCIA (Personal Computer Memory Card

International Association) Card Slot
Insert the CI Module to **PCMCIA CARD SLOT**.
(This feature is not available in all countries.)

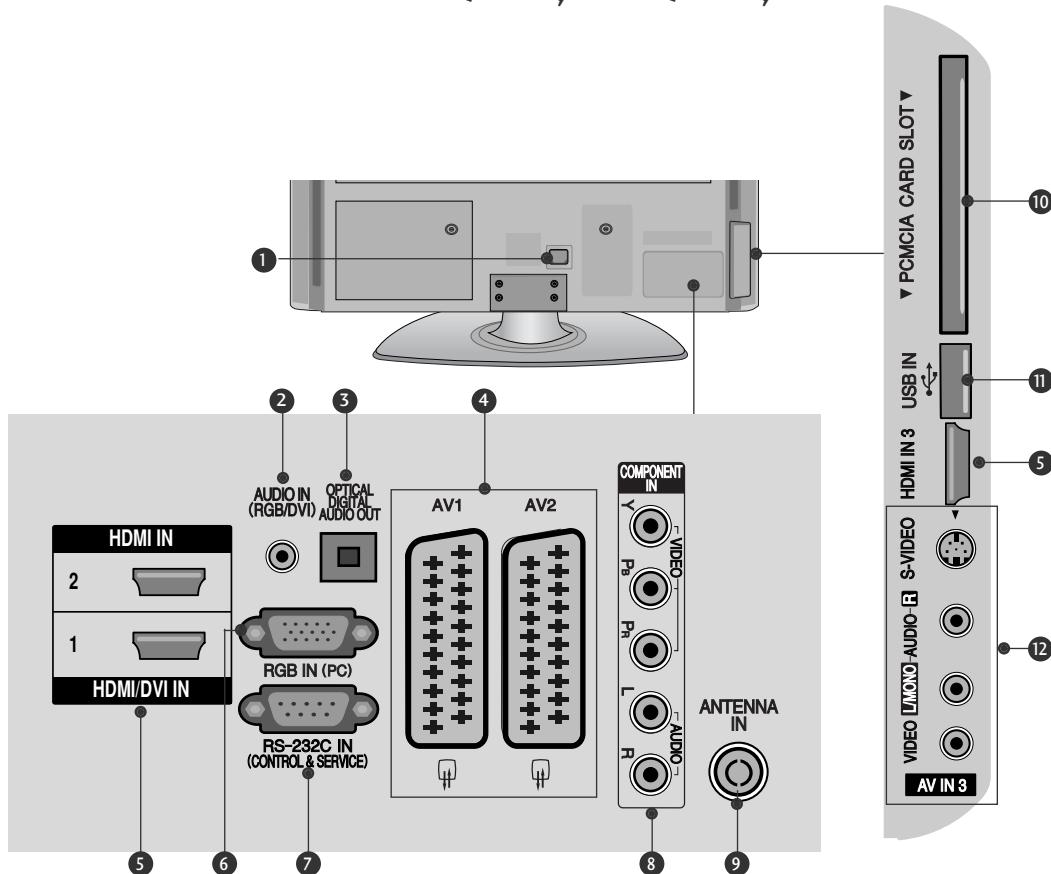
⑪ USB Input

Connect USB storage device to this jack.

⑫ S-Video Input

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

Plasma TV Models : 42/50PQ35**, 42PQ65**, 50PS65**



① Power Cord Socket

This TV operates on an AC power. The voltage is indicated on the Specifications page. (▶ p.155~167) Never attempt to operate the TV on DC power.

② RGB/DVI Audio Input

Connect the audio from a PC or DTV.

③ OPTICAL DIGITAL AUDIO OUT

Connect digital audio to various types of equipment. Connect to a Digital Audio Component. Use an Optical audio cable.

④ Euro Scart Socket (AV1/AV2)

Connect scart socket input or output from an external device to these jacks.

⑤ HDMI/DVI IN Input

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

⑥ RGB IN Input

Connect the output from a PC.

⑦ RS-232C IN (CONTROL & SERVICE) PORT

Connect to the RS-232C port on a PC. This port is used for Service or Hotel mode.

⑧ Component Input

Connect a component video/audio device to these jacks.

⑨ Antenna Input

Connect RF antenna to this jack.

⑩ PCMCIA (Personal Computer Memory Card International Association) Card Slot

Insert the CI Module to **PCMCIA CARD SLOT**. (This feature is not available in all countries.)

⑪ USB Input

Connect USB storage device to this jack.

⑫ S-Video Input

Connect S-Video out from an S-VIDEO device. **Audio/Video Input**

Connect audio/video output from an external device to these jacks.

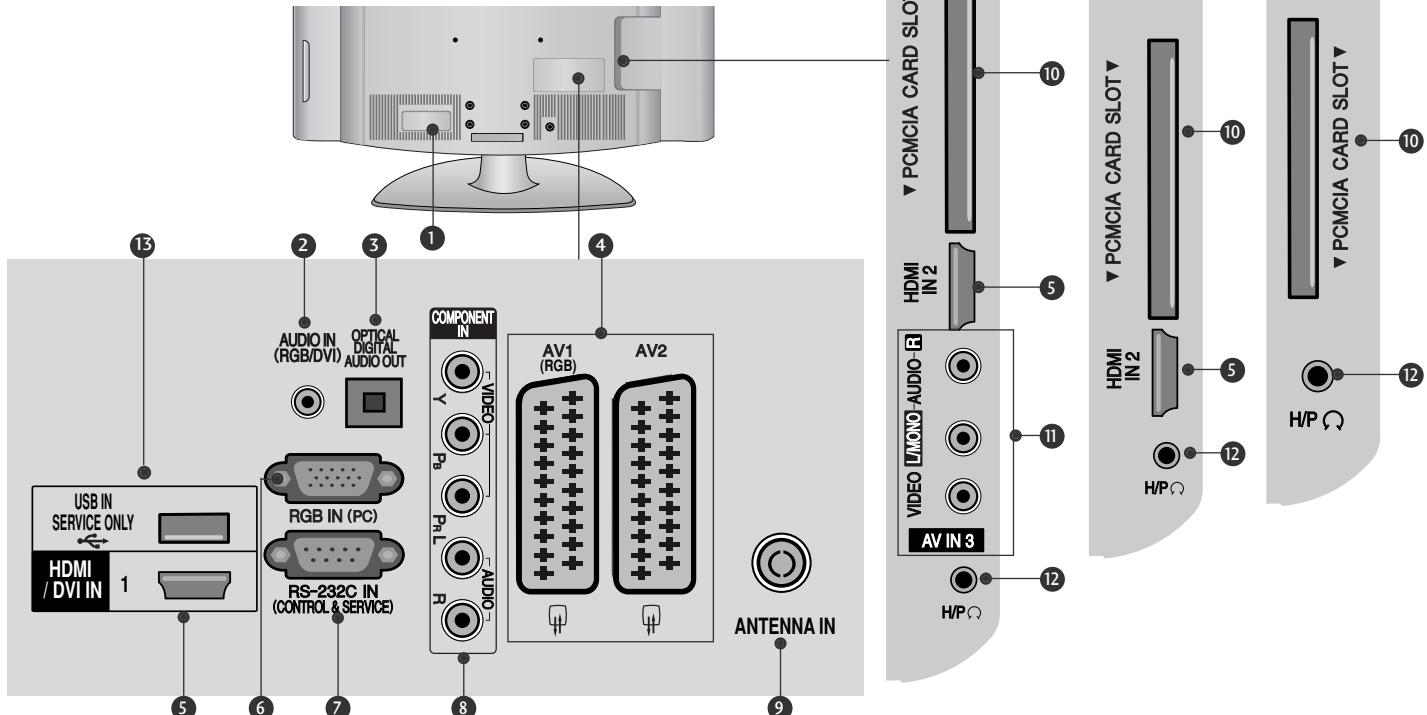
PREPARATION

LCD TV Models : 32/37/42LF25, 32/37/42LG2***, 32/37/42LG33**,
19/22/26LG31****

(Only 32/37/42LG2***,
32/37/42LG33**,
26LG31**)

(Only 32/37/42LF25**) (Only 19/22LG31**)

PREPARATION



① Power Cord Socket

This TV operates on an AC power. The voltage is indicated on the Specifications page. (▶ p.155~167)
Never attempt to operate the TV on DC power.

② RGB/DVI Audio Input

Connect the audio from a PC or DTV.

③ OPTICAL DIGITAL AUDIO OUT

Connect digital audio to various types of equipment.
Connect to a Digital Audio Component.
Use an Optical audio cable.

④ Euro Scart Socket (AV1/AV2)

Connect scart socket input or output from an external device to these jacks.

⑤ HDMI/DVI IN Input

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

⑥ RGB IN Input

Connect the output from a PC.

⑦ RS-232C IN (CONTROL & SERVICE) PORT

Connect to the RS-232C port on a PC.
This port is used for Service or Hotel mode.

⑧ Component Input

Connect a component video/audio device to these jacks.

⑨ Antenna Input

Connect antenna or cable to this jack.

⑩ PCMCIA (Personal Computer Memory Card International Association) Card Slot

Insert the CI Module to **PCMCIA CARD SLOT**.
(This feature is not available in all countries.)

⑪ Audio/Video Input

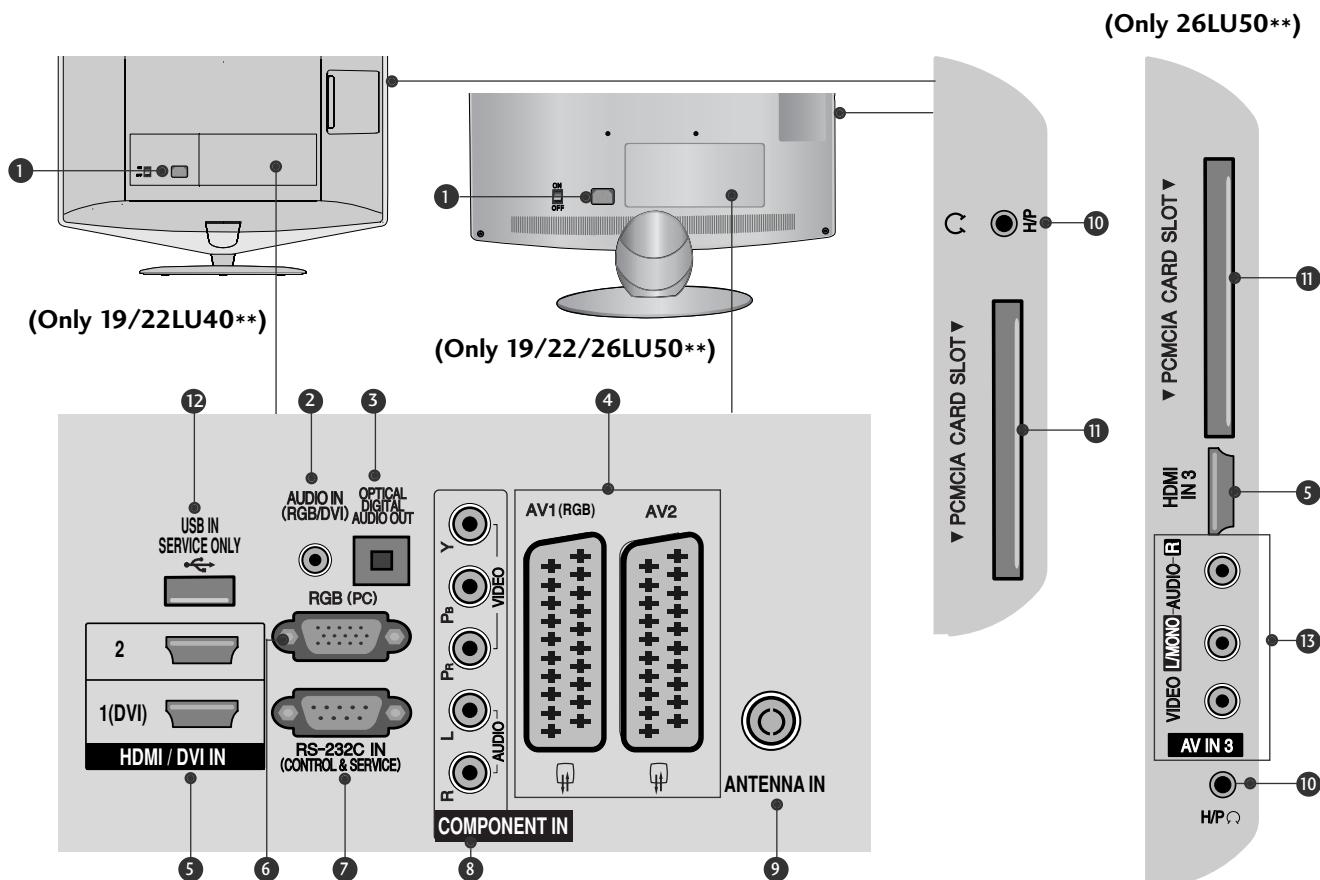
Connect audio/video output from an external device to these jacks.

⑫ Headphone Socket

Plug the headphone into the headphone socket.

⑬ SERVICE ONLY PORT

LCD TV Models : 19/22LU40**, 19/22/26LU50**



① Power Cord Socket

This TV operates on an AC power. The voltage is indicated on the Specifications page. (► p.155~167)
Never attempt to operate the TV on DC power.

② RGB/DVI Audio Input

Connect the audio from a PC or DTV.

③ OPTICAL DIGITAL AUDIO OUT

Connect digital audio to various types of equipment.
Connect to a Digital Audio Component.
Use an Optical audio cable.

④ Euro Scart Socket (AV1/AV2)

Connect scart socket input or output from an external device to these jacks.

⑤ HDMI/DVI IN Input

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

⑥ RGB Input

Connect the output from a PC.

⑦ RS-232C IN (CONTROL & SERVICE) PORT

Connect to the RS-232C port on a PC.
This port is used for Service or Hotel mode.

⑧ Component Input

Connect a component video/audio device to these jacks.

⑨ Antenna Input

Connect antenna or cable to this jack.

⑩ Headphone Socket

Plug the headphone into the headphone socket.

⑪ PCMCIA (Personal Computer Memory Card International Association) Card Slot

Insert the CI Module to **PCMCIA CARD SLOT**.
(This feature is not available in all countries.)

⑫ SERVICE ONLY PORT

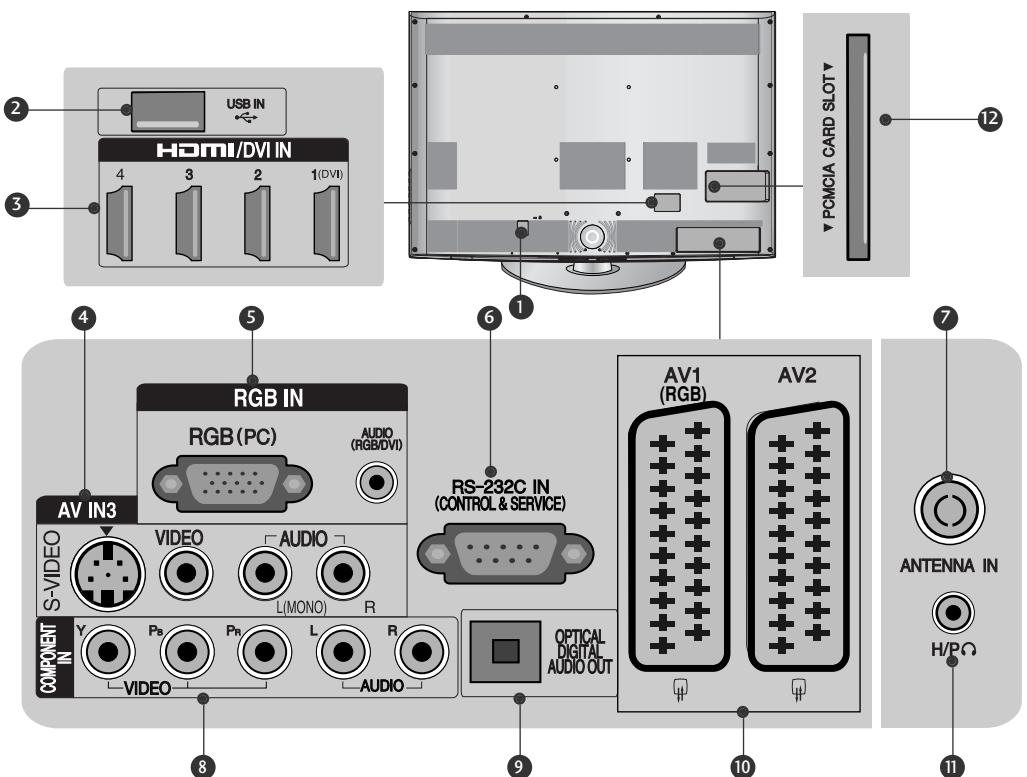
⑬ Audio/Video Input

Connect audio/video output from an external device to these jacks.

PREPARATION

LCD TV Models : 32/37/42/47LH70**

PREPARATION



① Power Cord Socket

This TV operates on an AC power. The voltage is indicated on the Specifications page. (▶ p.155~167)
Never attempt to operate the TV on DC power.

② USB Input

Connect USB storage device to this jack.

③ HDMI/DVI IN Input

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

④ S-Video Input

Connect S-Video out from an S-VIDEO device.
Audio/Video Input

Connect audio/video output from an external device to these jacks.

⑤ RGB IN Input

Connect the output from a PC.

RGB/DVI Audio Input

Connect the audio from a PC or DTV.

⑥ RS-232C IN (CONTROL & SERVICE) PORT

Connect to the RS-232C port on a PC.

This port is used for Service or Hotel mode.

⑦ Antenna Input

Connect antenna or cable to this jack.

⑧ Component Input

Connect a component video/audio device to these jacks.

⑨ OPTICAL DIGITAL AUDIO OUT

Connect digital audio to various types of equipment.
Connect to a Digital Audio Component.
Use an Optical audio cable.

⑩ Euro Scart Socket (AV1/AV2)

Connect scart socket input or output from an external device to these jacks.

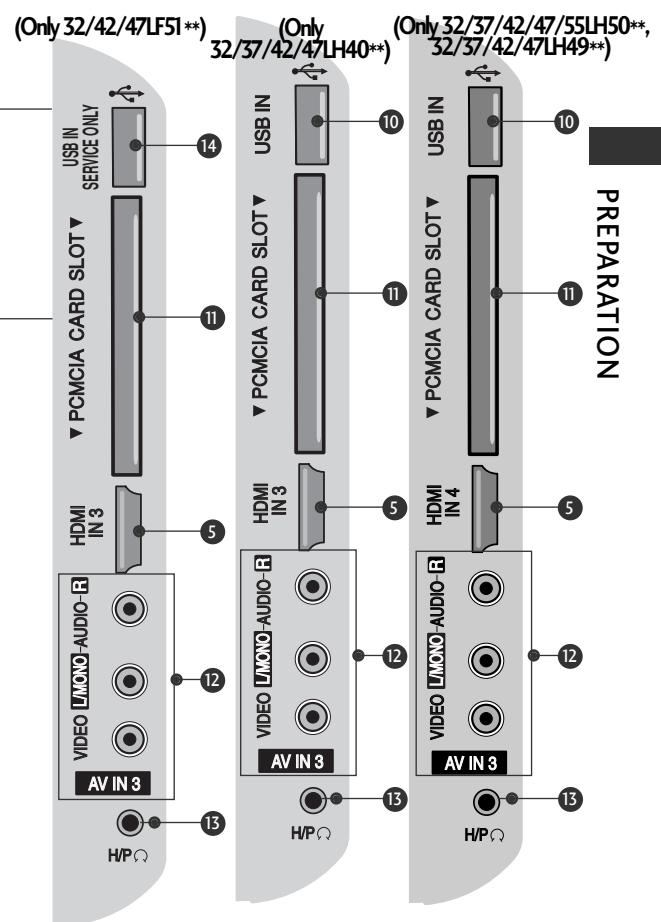
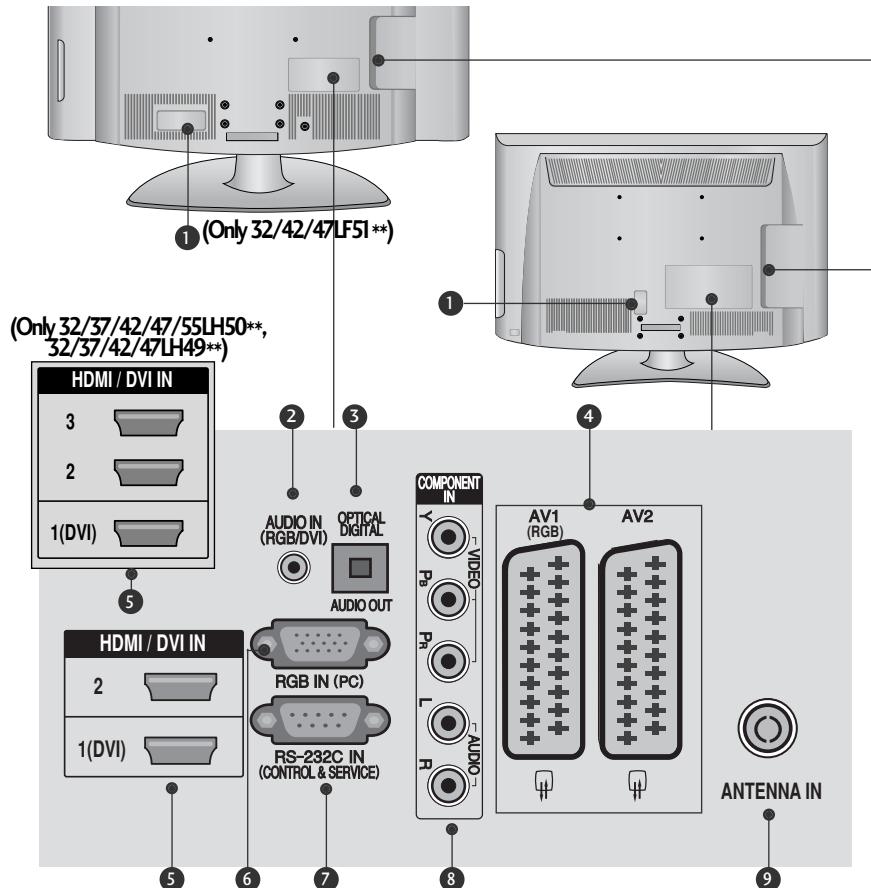
⑪ Headphone Socket

Plug the headphone into the headphone socket.

⑫ PCMCIA (Personal Computer Memory Card International Association) Card Slot

Insert the CI Module to **PCMCIA CARD SLOT**.
(This feature is not available in all countries.)

LCD TV Models : 32/37/42/47LH40**, 32/37/42/47LH49**, 32/37/42/47/55LH50**, 32/42/47LF51 **



① Power Cord Socket

This TV operates on an AC power. The voltage is indicated on the Specifications page. (► p.155~167)
Never attempt to operate the TV on DC power.

② RGB/DVI Audio Input

Connect the audio from a PC or DTV.

③ OPTICAL DIGITAL AUDIO OUT

Connect digital audio to various types of equipment.
Connect to a Digital Audio Component.
Use an Optical audio cable.

④ Euro Scart Socket (AV1/AV2)

Connect scart socket input or output from an external device to these jacks.

⑤ HDMI/DVI IN Input

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

⑥ RGB IN Input

Connect the output from a PC.

⑦ RS-232C IN (CONTROL & SERVICE) PORT

Connect to the RS-232C port on a PC.
This port is used for Service or Hotel mode.

⑧ Component Input

Connect a component video/audio device to these jacks.

⑨ Antenna Input

Connect antenna or cable to this jack.

⑩ USB Input

Connect USB storage device to this jack.

⑪ PCMCIA (Personal Computer Memory Card International Association) Card Slot

Insert the CI Module to **PCMCIA CARD SLOT**.
(This feature is not available in all countries.)

⑫ Audio/Video Input

Connect audio/video output from an external device to these jacks.

⑬ Headphone Socket

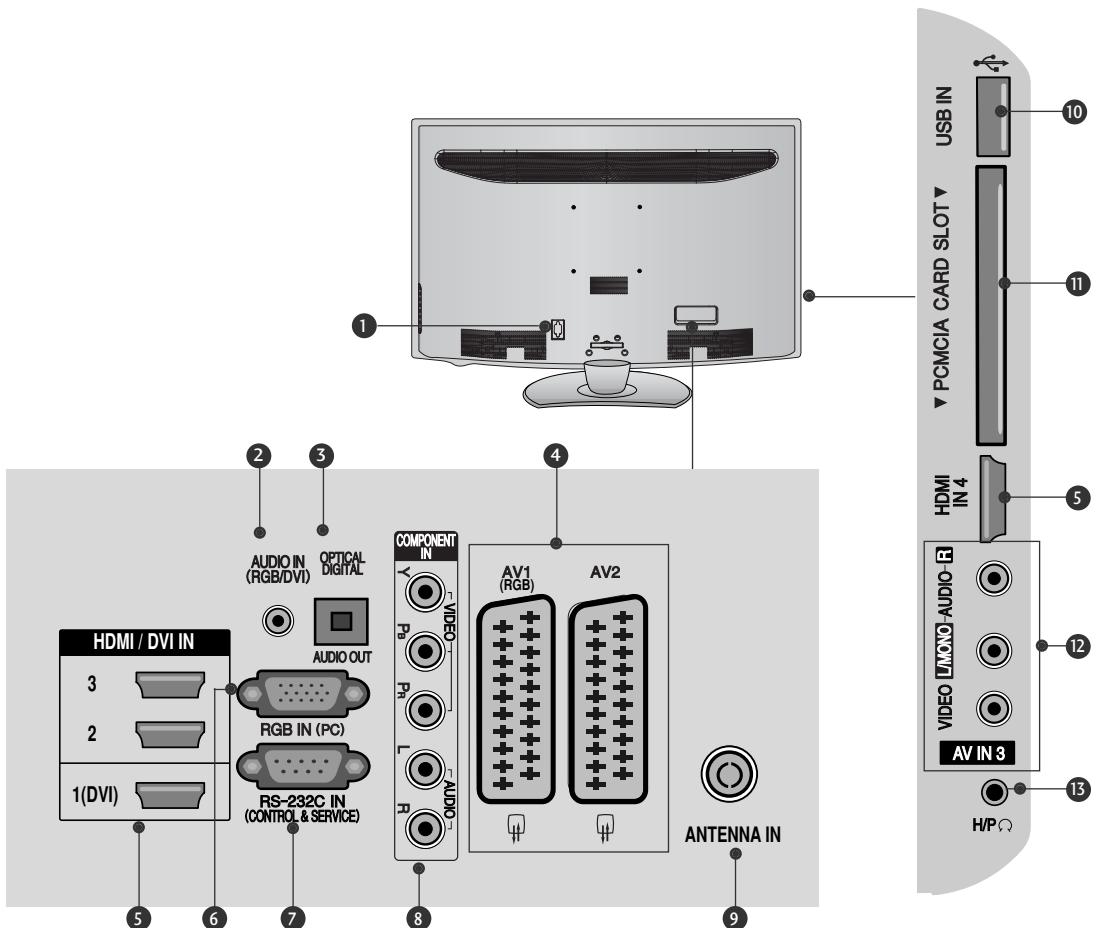
Plug the headphone into the headphone socket.

⑭ SERVICE ONLY PORT

PREPARATION

LED LCD TV Models : 42/47LH90**

PREPARATION



① Power Cord Socket

This TV operates on an AC power. The voltage is indicated on the Specifications page. (▶ p.155~167)
Never attempt to operate the TV on DC power.

② RGB/DVI Audio Input

Connect the audio from a PC or DTV.

③ OPTICAL DIGITAL AUDIO OUT

Connect digital audio to various types of equipment.
Connect to a Digital Audio Component.
Use an Optical audio cable.

④ Euro Scart Socket (AV1/AV2)

Connect scart socket input or output from an external device to these jacks.

⑤ HDMI/DVI IN Input

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

⑥ RGB IN Input

Connect the output from a PC.

⑦ RS-232C IN (CONTROL & SERVICE) PORT

Connect to the RS-232C port on a PC.
This port is used for Service or Hotel mode.

⑧ Component Input

Connect a component video/audio device to these jacks.

⑨ Antenna Input

Connect antenna or cable to this jack.

⑩ USB Input

Connect USB storage device to this jack.

⑪ PCMCIA (Personal Computer Memory Card International Association) Card Slot

Insert the CI Module to **PCMCIA CARD SLOT**.
(This feature is not available in all countries.)

⑫ Audio/Video Input

Connect audio/video output from an external device to these jacks.

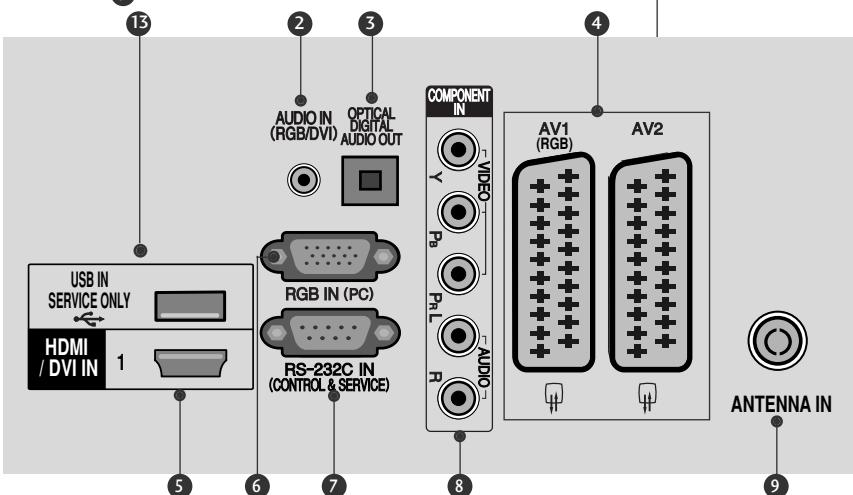
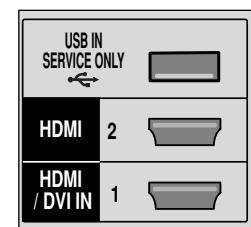
⑬ Headphone Socket

Plug the headphone into the headphone socket.

LCD TV Models : 26/32/37/42LH20**, 32/37/42/47LH3***

(Only 32/37/42/47LH3***) (Only 26/32/37/42LH20**)

(Only 32/37/42/47LH3***)



① Power Cord Socket

This TV operates on an AC power. The voltage is indicated on the Specifications page. (▶ p.155~167)
Never attempt to operate the TV on DC power.

② RGB/DVI Audio Input

Connect the audio from a PC or DTV.

③ OPTICAL DIGITAL AUDIO OUT

Connect digital audio to various types of equipment.
Connect to a Digital Audio Component.
Use an Optical audio cable.

④ Euro Scart Socket (AV1/AV2)

Connect scart socket input or output from an external device to these jacks.

⑤ HDMI/DVI IN Input

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

⑥ RGB IN Input

Connect the output from a PC.

⑦ RS-232C IN (CONTROL & SERVICE) PORT

Connect to the RS-232C port on a PC.
This port is used for Service or Hotel mode.

⑧ Component Input

Connect a component video/audio device to these jacks.

⑨ Antenna Input

Connect antenna or cable to this jack.

⑩ PCMCIA (Personal Computer Memory Card International Association) Card Slot

Insert the CI Module to **PCMCIA CARD SLOT**.
(This feature is not available in all countries.)

⑪ Audio/Video Input

Connect audio/video output from an external device to these jacks.

⑫ Headphone Socket

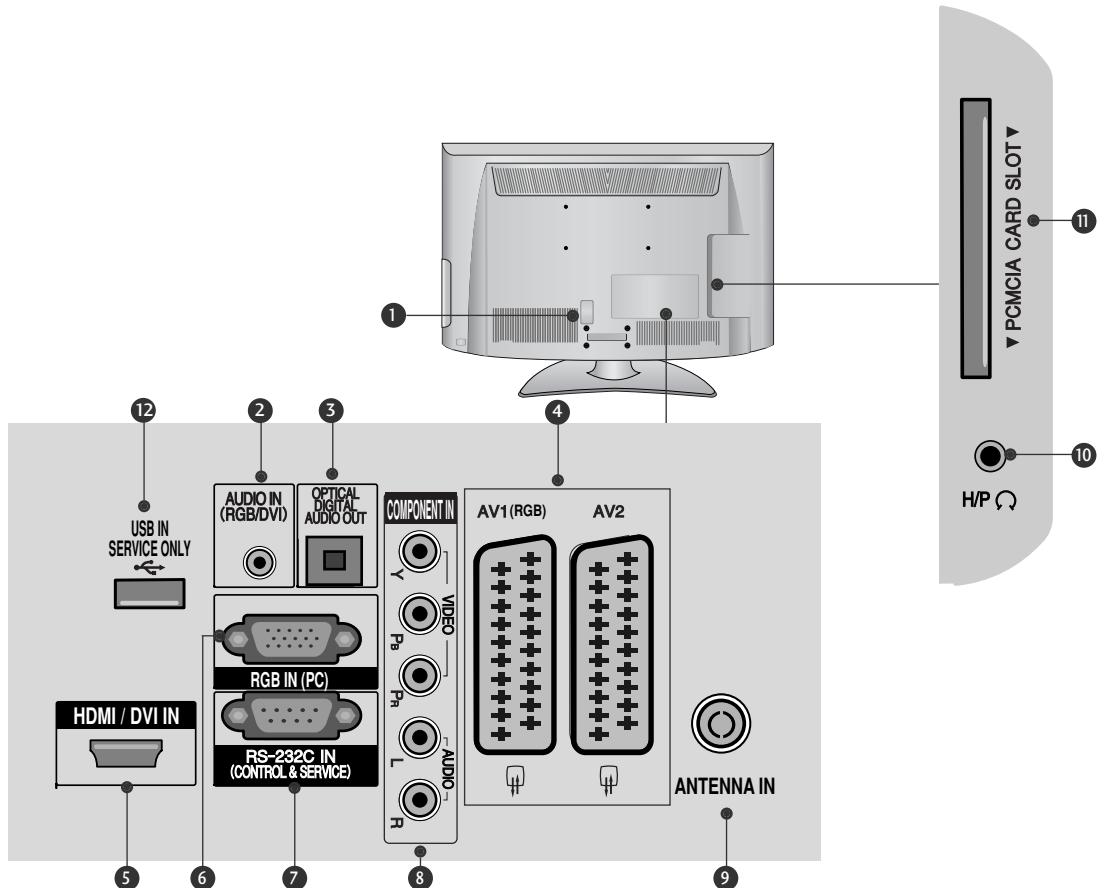
Plug the headphone into the headphone socket.

⑬ SERVICE ONLY PORT

PREPARATION

PREPARATION

LCD TV Models : 19/22LH20**



① Power Cord Socket

This TV operates on an AC power. The voltage is indicated on the Specifications page. (▶ p.155~167)
Never attempt to operate the TV on DC power.

② RGB/DVI Audio Input

Connect the audio from a PC or DTV.

③ OPTICAL DIGITAL AUDIO OUT

Connect digital audio to various types of equipment.
Connect to a Digital Audio Component.
Use an Optical audio cable.

④ Euro Scart Socket (AV1/AV2)

Connect scart socket input or output from an external device to these jacks.

⑤ HDMI/DVI IN Input

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

⑥ RGB IN Input

Connect the output from a PC.

⑦ RS-232C IN (CONTROL & SERVICE) PORT

Connect to the RS-232C port on a PC.
This port is used for Service or Hotel mode.

⑧ Component Input

Connect a component video/audio device to these jacks.

⑨ Antenna Input

Connect antenna or cable to this jack.

⑩ Headphone Socket

Plug the headphone into the headphone socket.

⑪ PCMCIA (Personal Computer Memory Card International Association) Card Slot

Insert the CI Module to **PCMCIA CARD SLOT**.
(This feature is not available in all countries.)

⑫ SERVICE ONLY PORT

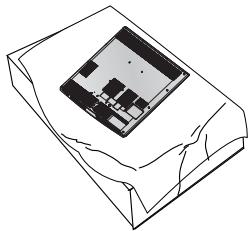
STAND INSTALLATION

■ Image shown may differ from your TV

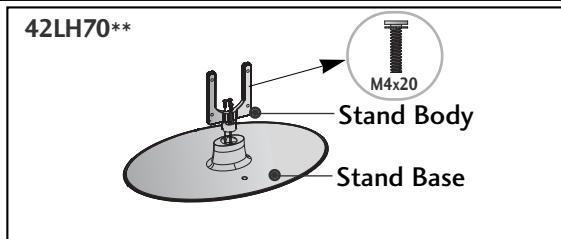
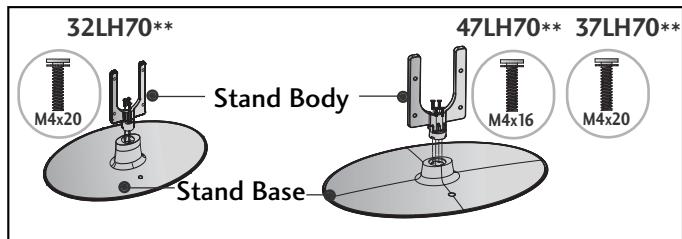
When assembling the desk type stand, check whether the bolt is fully tightened. (If not tightened fully, the product can tilt forward after the product installation.) If you tighten the bolt with excessive force, the bolt can deviate from abrasion of the tightening part of the bolt.

Only 32/37/42/47LH70**

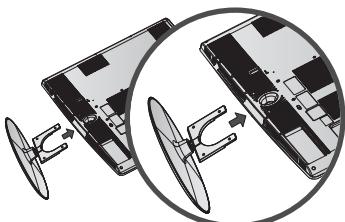
1 Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



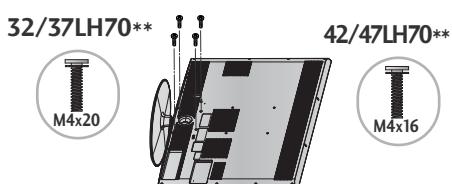
2 Assemble the parts of the **Stand Body** with the **Stand Base** of the TV.



3 Assemble the TV as shown.

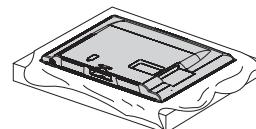


4 Fix the 4 bolts securely using the holes in the back of the TV.

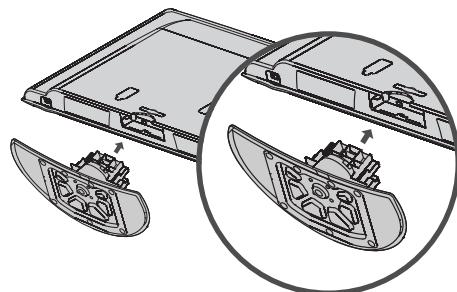


Only 26/32/37/42LH20, 32/37/42/47LH3**, 32/37/42/47LH40**, 32/37/42/47LH49**, 32/37/42/47LH50**, 42/47LH90****

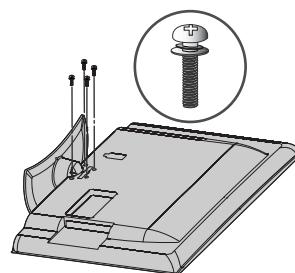
1 Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



2 Assemble the TV as shown.



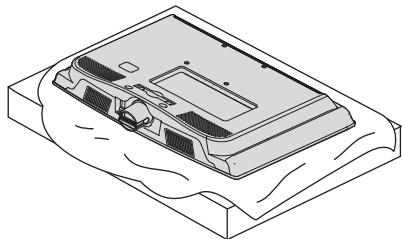
3 Fix the 4 bolts securely using the holes in the back of the TV.



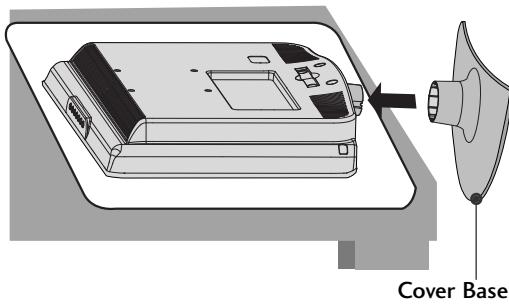
PREPARATION

Only 19/22LH20**

- 1 Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.

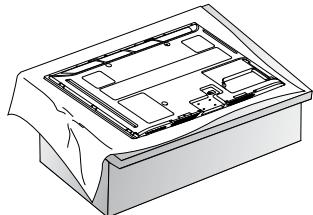


- 2 Assemble the TV as shown.

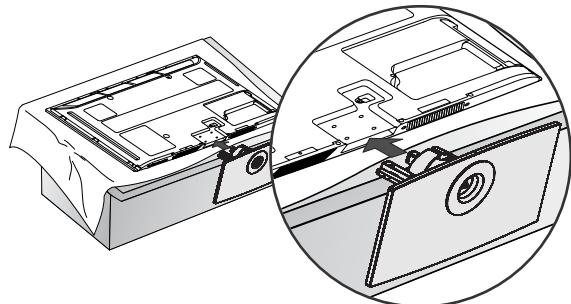


Only 50PS70**/50PS80**/ 42/50PQ35**/42PQ65**/50PS65**

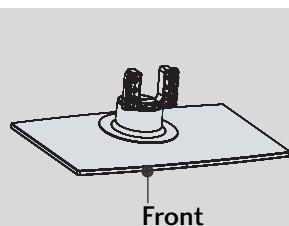
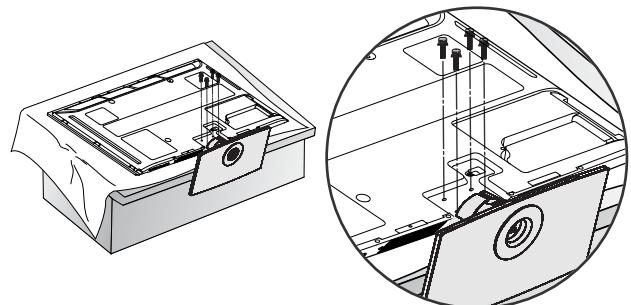
- 1 Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



- 2 Assemble the TV as shown.



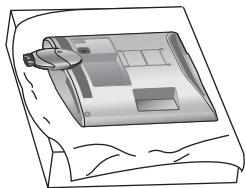
- 3 Fix the 4 bolts securely using the holes in the back of the TV.



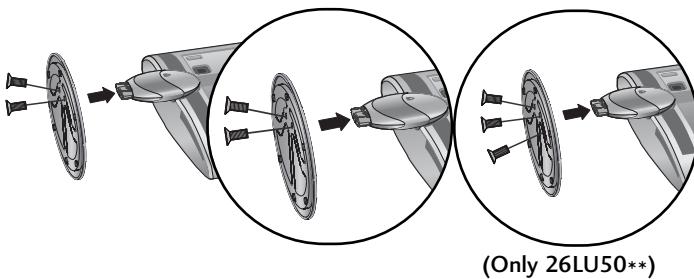
When assembling the stand, make sure to distinguish and assemble the front and rear side of the stand correctly.

Only 19/22/26LU50**

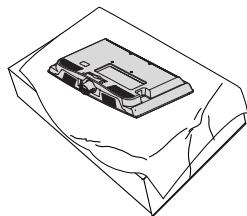
1 Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



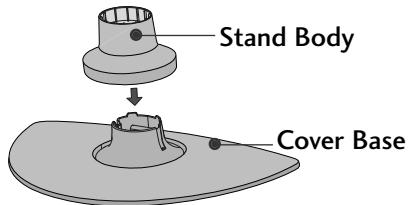
2 Fix the 2 or 3 bolts securely using the holes.

**Only 19/22LG31****

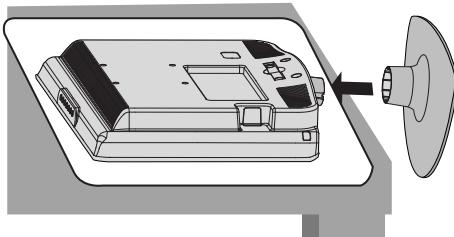
1 Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



2 Assemble the parts of the **STAND BODY** with **COVER BASE** of the TV. Insert the **STAND BODY** into a **COVER BASE** until clicking sound.



3 Assemble the TV as shown.

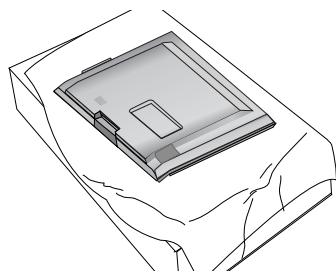


PREPARATION

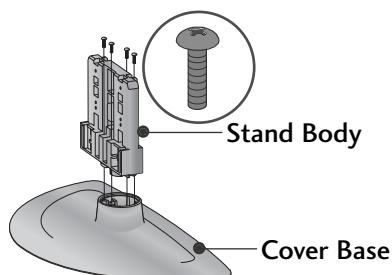
PREPARATION

Only 32/37/42LF25,
32/37/42LG2***, 32/37/42LG33**,
26LG31**, 32/42LF51****

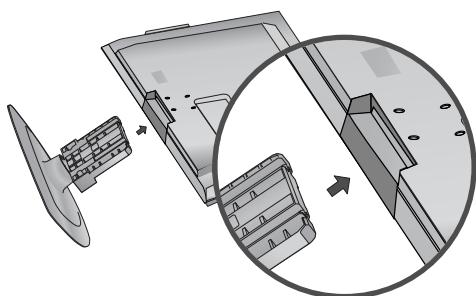
- 1 Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



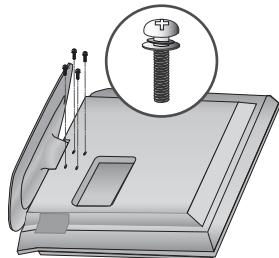
- 2 Assemble the parts of the **Stand Body** with the **Cover Base** of the TV.



- 3 Assemble the TV as shown.

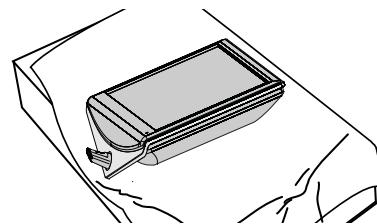


- 4 Fix the 4 bolts securely using the holes in the back of the TV.

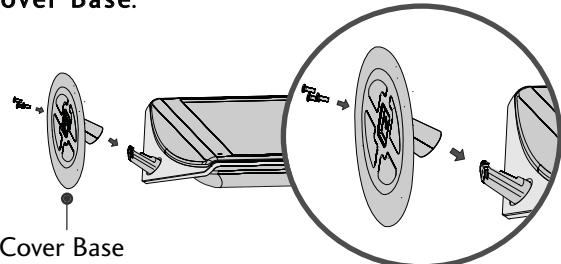


Only 19/22LU40**

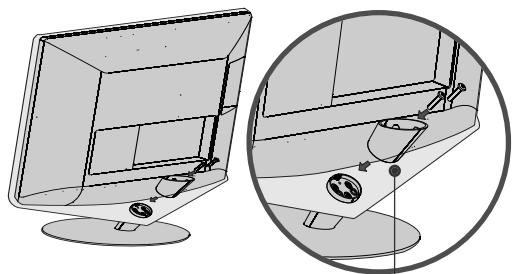
- 1 Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



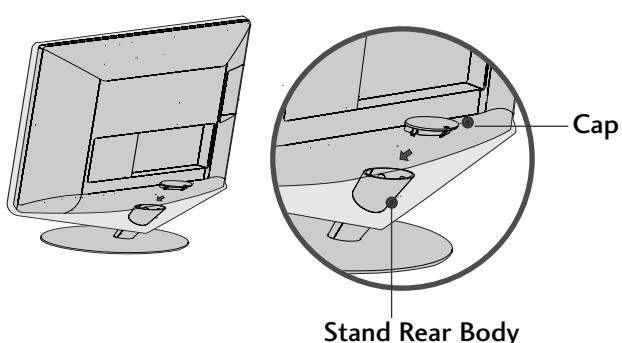
- 2 Fix the 3 bolts securely using the holes in the **Cover Base**.



- 3 Assemble the parts of the **Stand Rear Body** with the TV.



- 4 Assemble the parts of the **Cap** with the **Stand Rear Body** of the TV.

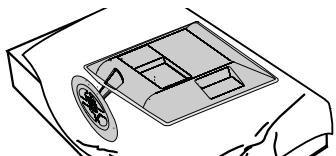


DETACHING STAND

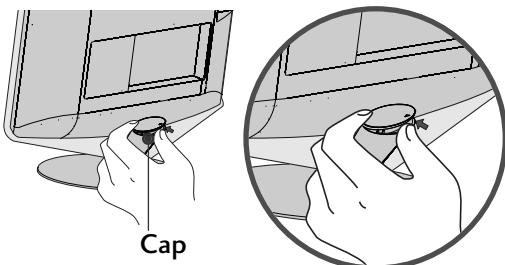
■ Image shown may differ from your TV.

Only 19/22LU40**

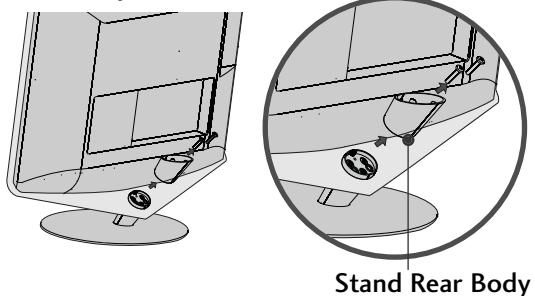
- Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



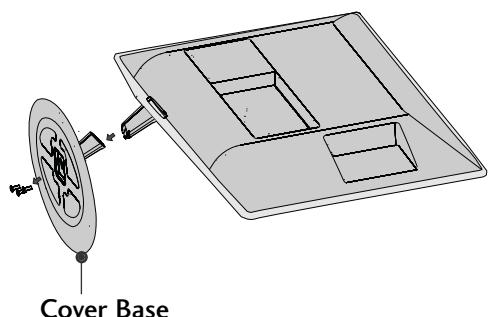
- Detach the **Cap** from TV.
Press in the direction of the arrow to detach the cap.



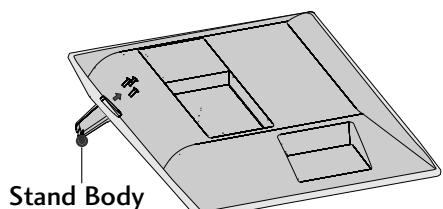
- Loose the bolts and then detach the **Stand Rear Body** from TV.



- Loose the bolts and then detach the **Cover Base** from TV.

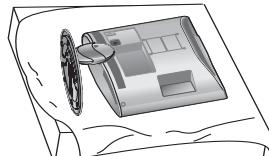


- Loose the bolts and then detach the **Stand Body** from TV.

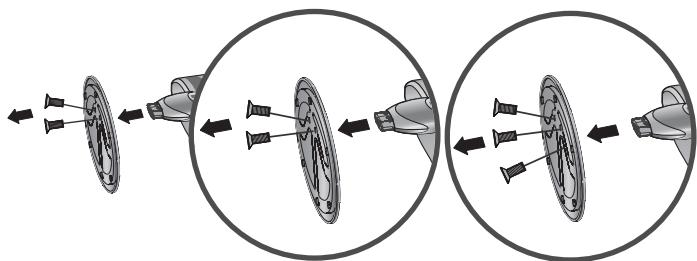


Only 19/22/26LU50**

- Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.

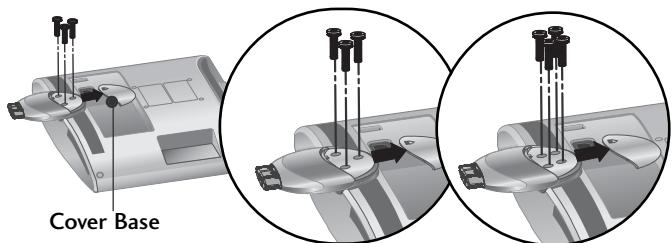


- Loose the bolts and then detach the stand from TV.



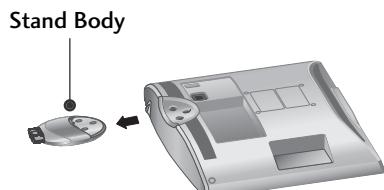
(Only 26LU50**)

- Loose the bolts from TV.
Detach the **Cover Base** from TV.



(Only 26LU50**)

- Detach the **Stand Body** from TV.



PREPARATION

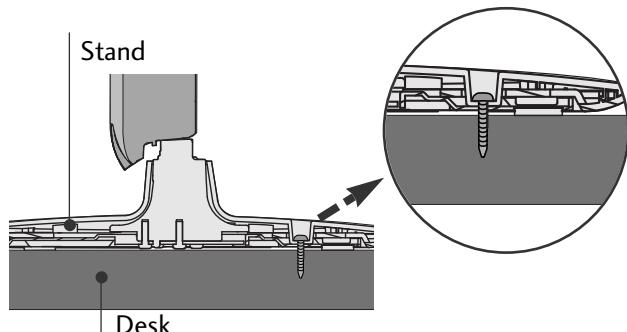
ATTACHING THE TV TO A DESK

(Only 26LG31**, 26LU50**, 32/37/42LF25**, 32/37/42LG2***, 32/37/42LG33**, 26/32/37/42LH20**, 32/37/42LH3***, 32/37/42LH40**, 32/37/42LH49**, 32/37/42LH50**, 32/37LH70**, 42LH90**, 32/42LF51**)

- Image shown may differ from your TV.
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.



1-Screw
(provided as parts of the product)

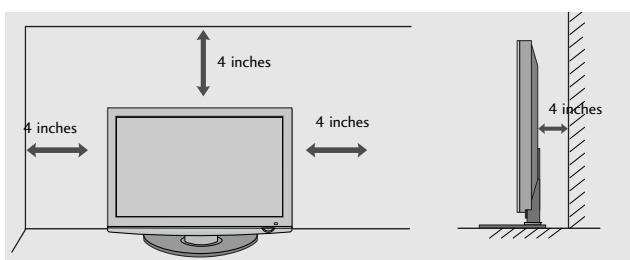


! WARNING

- 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.

DESKTOP PEDESTAL INSTALLATION

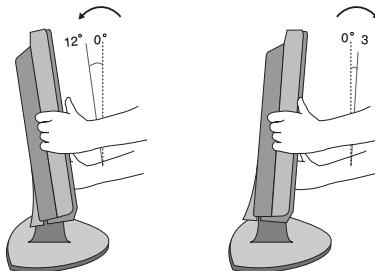
For adequate ventilation allow a clearance of 4" (10cm) all around the TV.



POSITIONING YOUR DISPLAY

(Only 19/22LH20**, 19/22LG31**)

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



! NOTE

- The following model is a fixed stand type model without the Tilt and Swivel features so excessive pressure may damage the set.

- 19/22/26LU50**, 19/22LU40**

KENSINGTON SECURITY SYSTEM

- This feature is not available for all models.
- Image shown may differ from your TV.

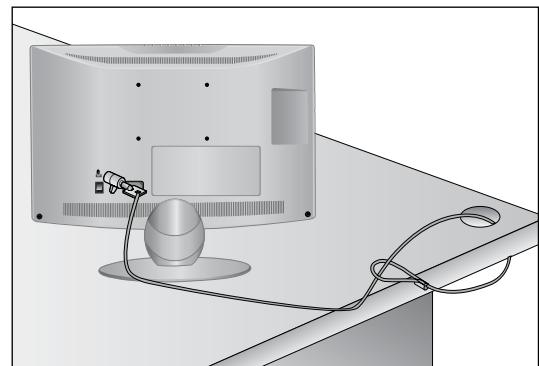
The TV is equipped with a Kensington Security System connector on the back panel. Connect the Kensington Security System cable as shown below. For the detailed installation and use of the Kensington Security System, refer to the user's guide provided with the Kensington Security System. For further information, 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.

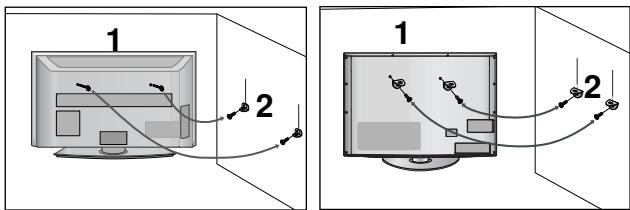
NOTES

- If the TV feels cold to the touch, there may be a small "flicker" when it is turned on. This is normal, there is nothing wrong with TV.
- 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.
- 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.

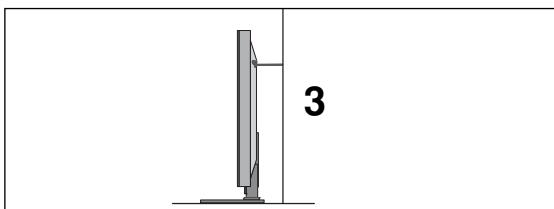


CAREFUL INSTALLATION ADVICE

- You should purchase necessary components to fix the TV safety and secure 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, by fixing 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.



- 1 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 the bolts on the wall.
Match the height of the bracket that is mounted on the wall.



- 3 Use a sturdy rope to tie the product for alignment. It is safer to tie the rope so it becomes horizontal between the wall and the product.

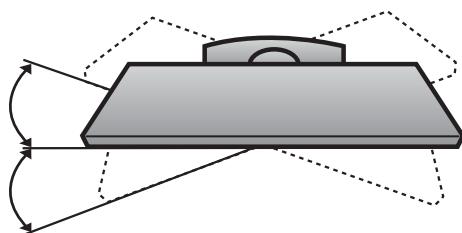
! NOTE

- When moving the TV undo the cords first.
- Use a platform or cabinet strong 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.

SWIVEL STAND

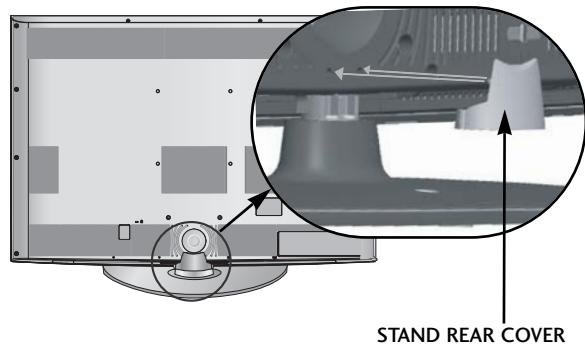
(Except for 19/22LH20**, 19/22LU40**, 19/22/26LU50**, 19/22LG31**)

- Image shown may differ from your TV.
After installing the TV, you can adjust the TV set manually to the left or right direction by 20 degrees to suit your viewing position.

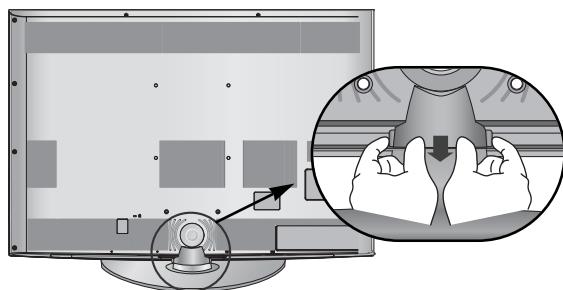


TO USE THE STAND REAR COVER (Only 37/42/47LH70**)

- Image shown may differ from your TV.
Install the **STAND REAR COVER** as shown.



Grip the knob in your fingers and pull it.



PREPARATION

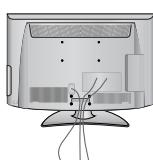
BACK COVER FOR WIRE ARRANGEMENT

■ Image shown may differ from your TV.

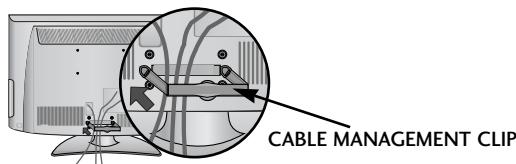
LCD TV Models : 19/22LH20, 19/22LG31****

1 Connect the cables as necessary.

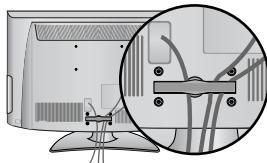
To connect additional equipment, see the **EXTERNAL EQUIPMENT SETUP** section.



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

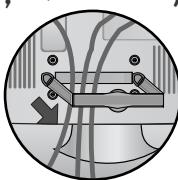


3 Fit the **CABLE MANAGEMENT CLIP** as shown.



How to remove the cable management clip (LCD TV Models : 19/22LH20, 19/22LG31**)**

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



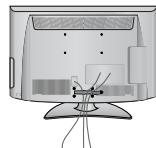
! NOTE

- 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.

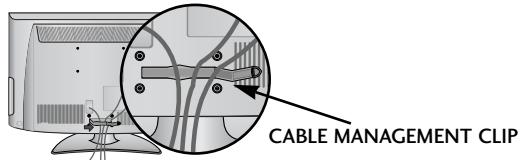
LCD TV Models / LED LCD TV Models : 32/37/42LF25, 32/37/42LG2***, 32/37/42LG33**, 26LG31**, 26/32/37/42LH20**, 32/37/42/47LH3***, 32/37/42/47LH40**, 32/37/42/47LH49**, 32/37/42/47/55LH50**, 42/47LH90**, 32/42/47LF51****

1 Connect the cables as necessary.

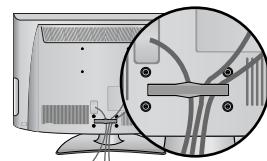
To connect additional equipment, see the **EXTERNAL EQUIPMENT SETUP** section.



2 Open the **CABLE MANAGEMENT CLIP** as shown.

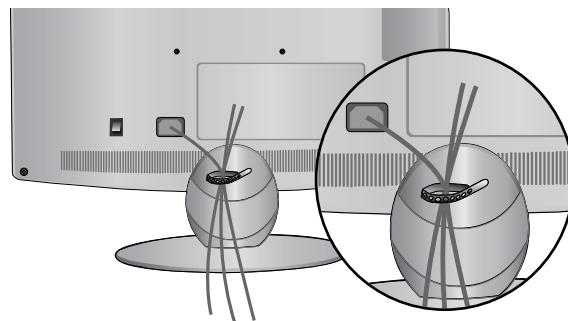


3 Fit the **CABLE MANAGEMENT CLIP** as shown.



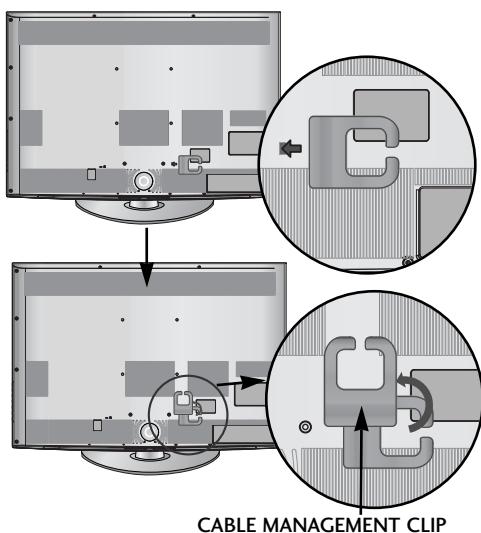
LCD TV Models : 19/22LU40, 19/22/26LU50****

After Connecting the cables as necessary, install **CABLE HOLDER** as shown and bundle the cables.



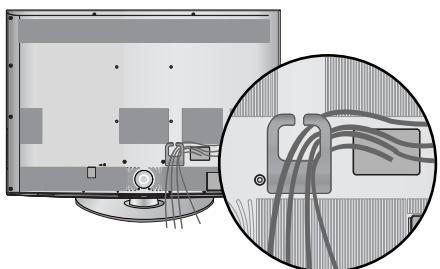
LCD TV Models : 32/37/42/47LH70**

1 Align the hole with the tab on the **CABLE MANAGEMENT CLIP**. Turn the **CABLE MANAGEMENT CLIP** as shown. Note : that excessive force might cause damage to the product when using Cable Management clip.



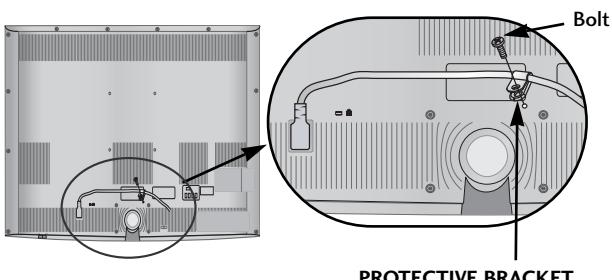
CABLE MANAGEMENT CLIP

2 Connect the cables as necessary. To connect additional equipment, see the **External equipment Setup** section.



How to secure the power cable (Only 32/37/42/47LH70**)

1 Secure the power cable with the **PROTECTIVE BRACKET** and the bolt as shown. It will help prevent the power cable from being removed by accident.



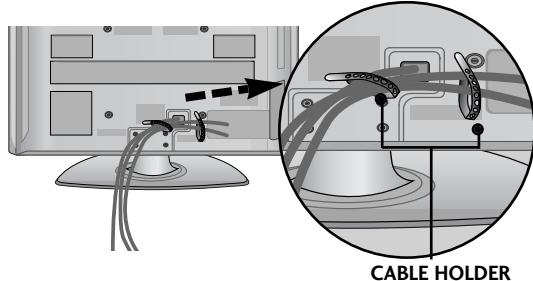
PROTECTIVE BRACKET

! 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.

Plasma TV Models : 42/50PQ35**,
42PQ65**, 50PS65**

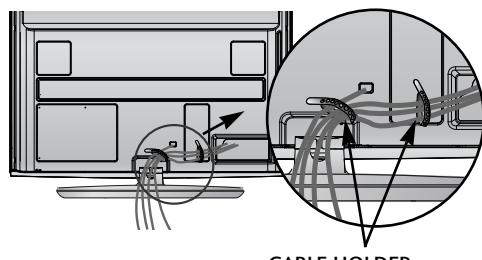
After Connecting the cables as necessary, install **CABLE HOLDER** as shown and bundle the cables.



CABLE HOLDER

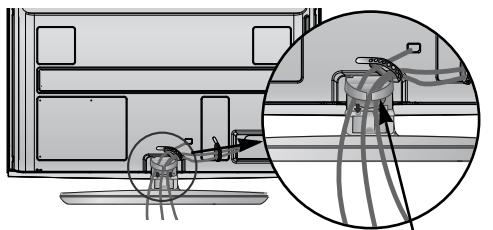
Plasma TV Models : 50/60PS70**,
50/60PS80**

1 After Connecting the cables as necessary, install **CABLE HOLDER** as shown and bundle the cables. To connect additional equipment, see the **External equipment Setup** section.



CABLE HOLDER

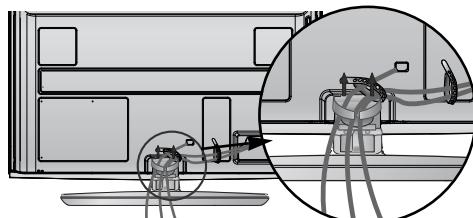
2 Install the **CABLE MANAGEMENT CLIP** as shown.



CABLE MANAGEMENT CLIP

How to remove the cable management clip (Only 50/60PS70**, 50/60PS80**)

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



PREPARATION

PREPARATION

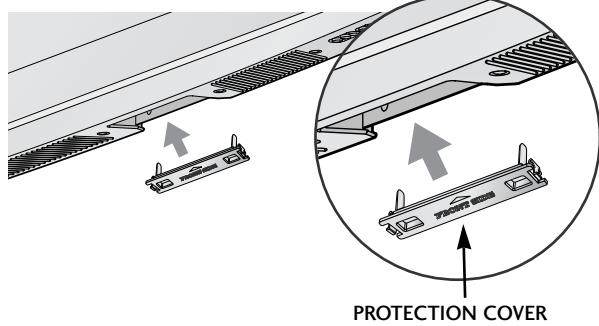
NOT USING THE DESK-TYPE STAND

(Except for 19/22LU40**, 19/22/26LU50**)

■ Image shown may differ from your TV.

When installing the wall-mounted unit, use the protection cover.

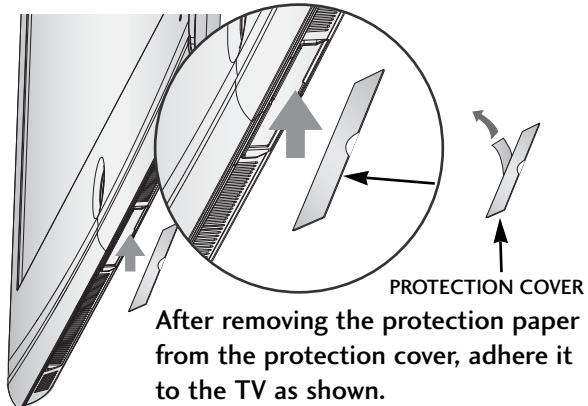
Plasma TV models



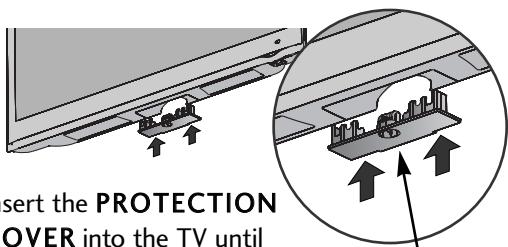
Insert the **PROTECTION COVER** into the TV until clicking sound.

LCD TV models / LED LCD TV Models

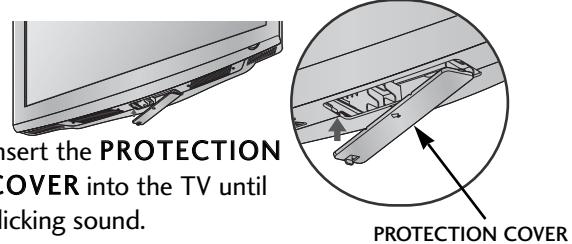
Only 32/37/42/47LH70**, 42/47LH90**



Only 26/32/37/42LH20**, 32/37/42/47LH3***,
32/37/42/47LH40**, 32/37/42/47LH49**,
32/37/42/47/55LH50**

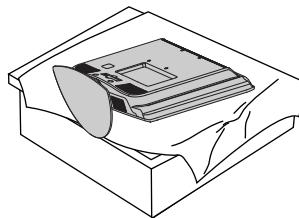


Only 32/37/42LF25**, 32/37/42LG2***,
32/37/42LG33**, 26LG31**, 32/42/47LF51**

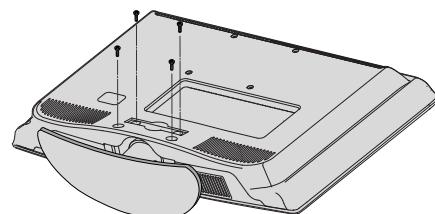


Only 19/22LH20**, 19/22LG31**

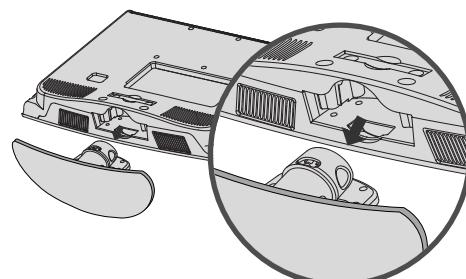
- 1 Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



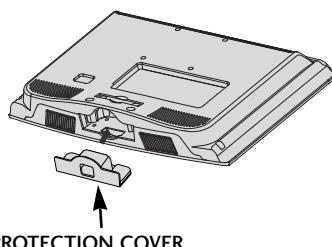
- 2 Loose the bolts from TV.



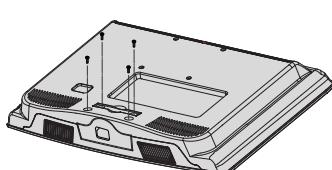
- 3 Detach the stand from TV.



- 4 Insert the **Protection Cover** into the TV.



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

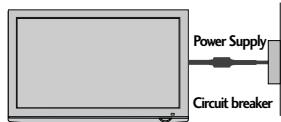


- The TV can be installed in various ways such as on a wall, or on a desktop etc.
- The TV is designed to be mounted horizontally.

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, lightning rods or gas pipes.

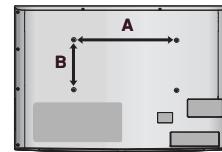


WALL MOUNT: HORIZONTAL INSTALLATION

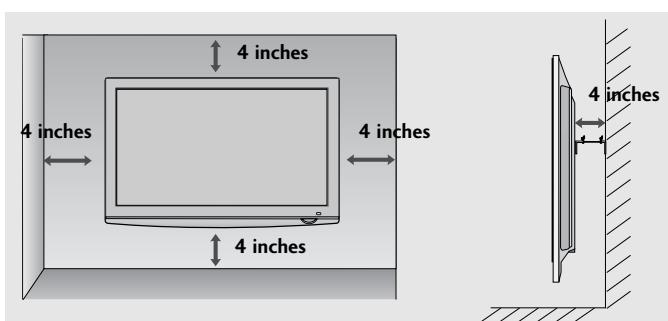
- We recommend the use of a LG Brand wall mounting bracket when mounting the TV to a wall.
- We recommend that you purchase a wall mounting bracket which supports VESA standard.
- LG recommends that wall mounting be performed by a qualified professional installer.
- First you connect the USB extension cable to the USB IN terminal, and then hang it on the wall. (Only 32/37/42/47LH70**)

! NOTE

- Should Install wall mount on a solid wall perpendicular to the floor.
- Should use a special wall mount, if you want to install it to ceiling or slanted wall.
- The surface that wall mount is to be mounted on should be of sufficient strength to support the weight of TV set; e.g. concrete, natural rock, brick and hollow block.
- Installing screw type and length depends on the wall mount used. Further information, refer to the instructions included with the mount.
- LG is not liable for any accidents or damage to property or TV due to incorrect installation:
 - Where a non-compliant VESA wall mount is used.
 - Incorrect fastening of screws to surface which may cause TV to fall and cause personal injury.
 - Not following the recommended Installation method.



Model	VESA (A * B)	Standard Screw	Quantity
19/22LU40**	100 * 100	M4	4
19/22LU50**	100 * 100	M4	4
26LU50**	200 * 100	M4	4
19/22LG31**	100 * 100	M4	4
26LG31**	200 * 100	M4	4
32LF25**	200 * 100	M4	4
37/42LF25**	200 * 200	M6	4
32LG2***	200 * 100	M4	4
37/42LG2***	200 * 200	M6	4
32LG33**	200 * 100	M4	4
37/42LG33**	200 * 200	M6	4
19/22LH20**	100 * 100	M4	4
26/32LH20**	200 * 100	M4	4
37/42LH20**	200 * 200	M6	4
32LH3***	200 * 100	M4	4
37/42/47LH3***	200 * 200	M6	4
32LH40**	200 * 100	M4	4
37/42/47LH40**	200 * 200	M6	4
32LH49**	200 * 100	M4	4
37/42/47LH49**	200 * 200	M6	4
32LH50**	200 * 100	M4	4
37/42/47LH50**	200 * 200	M6	4
55LH50**	400 * 400	M6	4
32LH70**	200 * 100	M4	4
37/42/47LH70**	200 * 200	M6	4
42/47LH90**	200 * 200	M6	4
32LF51**	200 * 100	M4	4
42/47LF51**	200 * 200	M6	4
50PS70**	400 * 400	M6	4
60PS70**	600 * 400	M8	4
50PS80**	400 * 400	M6	4
60PS80**	600 * 400	M8	4
42/50PQ35**	400 * 400	M6	4
42PQ65**	400 * 400	M6	4
50PS65**	400 * 400	M6	4



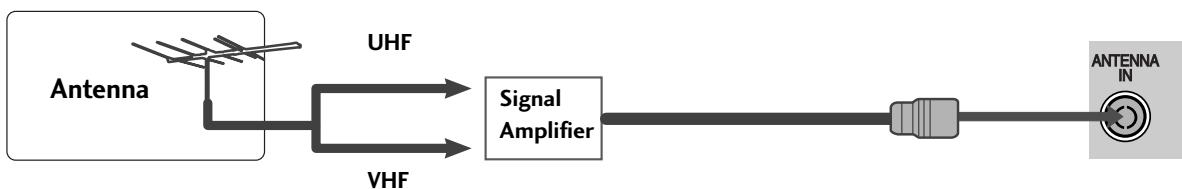
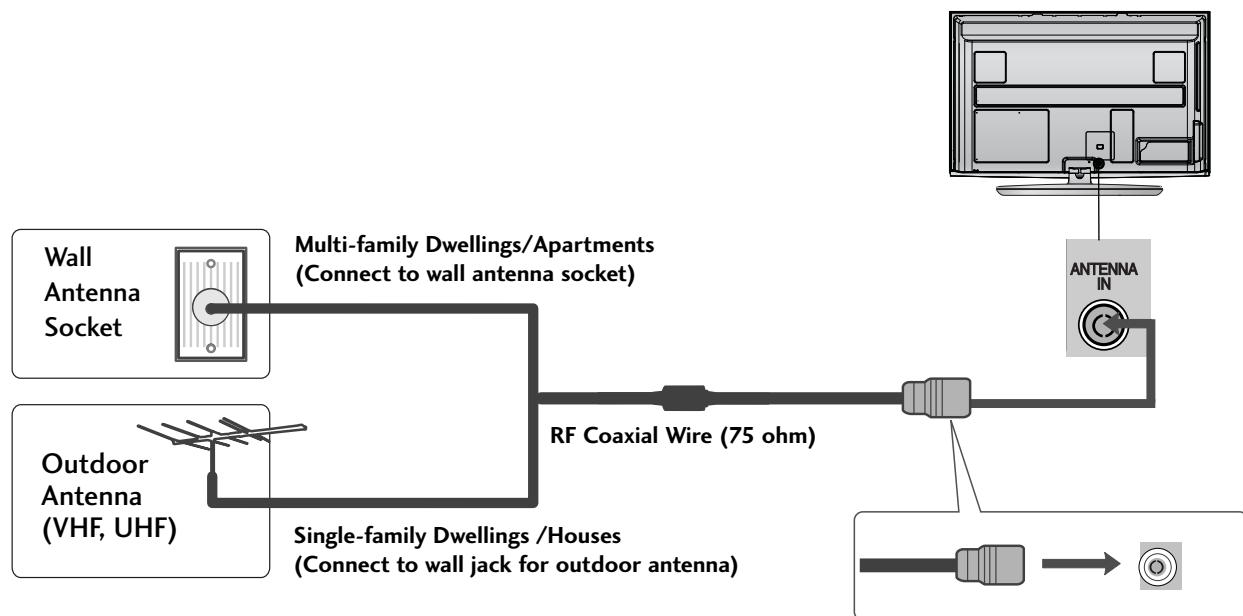
PREPARATION

PREPARATION

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

ANTENNA CONNECTION

- For optimum picture quality, adjust antenna direction.
- An antenna cable and converter are not supplied.

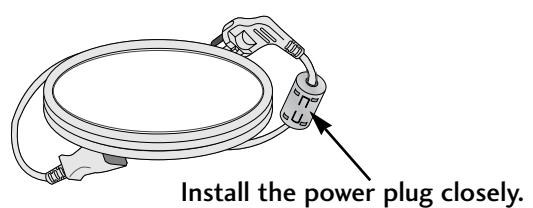


- In poor signal areas, to achieve better picture quality it may be necessary to install a signal amplifier to the antenna as shown above.
- If signal needs to be split for two TVs, use an antenna signal splitter for connection.

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.



EXTERNAL EQUIPMENT SETUP

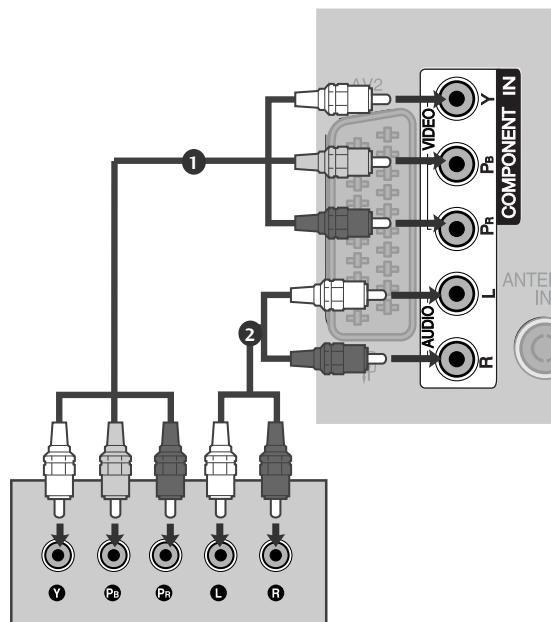
- To avoid damaging any equipment, never plug in any power cord until you have finished connecting all equipment.
- This section on EXTERNAL EQUIPMENT SETUP mainly uses diagrams for the 50/60PS70**, 50/60PS80** models.
- Image shown may differ from your TV.

HD RECEIVER SETUP

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

Connecting with a Component cable

- 1 Connect the video outputs (Y, Pb, Pr) of the digital set top box to the **COMPONENT IN VIDEO** jacks on the TV.
- 2 Connect the audio output of the digital set-top box to the **COMPONENT IN AUDIO** jacks on the TV.
- 3 Turn on the digital set-top box.
(Refer to the owner's manual for the digital set-top box.)
- 4 Select **Component** input source using the **INPUT** button on the remote control.



►HDMI Audio Supported format : Dolby Digital, PCM

Signal	Component	HDMI
480i/576i	O	X
480p/576p	O	O
720p/1080i	O	O
1080p (50/60Hz only)	O	O (24Hz/30Hz/50Hz/60Hz)

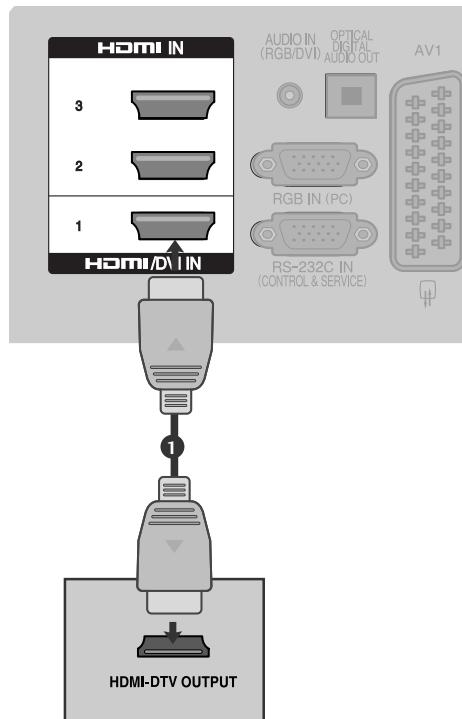
EXTERNAL EQUIPMENT SETUP

Connecting a set-top box with an HDMI cable

- 1 Connect the digital set-top box to **HDMI/DVI IN 1, HDMI IN 2** (Except for 19/22LH20**, 19/22LG31**), **HDMI IN 3** (Except for 19/22LU40**, 19/22LU50**, 19/22/32/37/42LH20**, 32/37/42LF25**, 32/37/42LG2***, 32/37/42LG33**, 26LG31**) or **HDMI IN 4** (Only 32/37/42/47LH49**, 32/37/42/47/55LH50**, 32/37/42/47LH70**, 42/47LH90**, 50/60PS70**, 50/60PS80**) jack on the TV.
- 2 Turn on the digital set-top box.
(Refer to the owner's manual for the digital set-top box.)
- 3 Select **HDMI1**, **HDMI2** (Except for 19/22LH20**, 19/22LG31**), **HDMI3** (Except for 19/22LU40**, 19/22LU50**, 19/22/32/37/42LH20**, 32/37/42LF25**, 32/37/42LG2***, 32/37/42LG33**, 26LG31**) or **HDMI4** (Only 32/37/42/47LH49**, 32/37/42/47/55LH50**, 32/37/42/47LH70**, 42/47LH90**, 50/60PS70**, 50/60PS80**) input source using the **INPUT** button on the remote control.

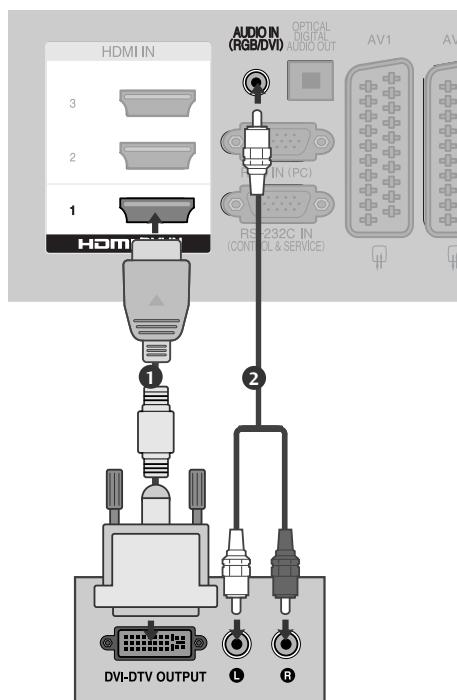
! NOTE

- Check that your HDMI cable is version 1.3 or higher.
If the HDMI cables don't support HDMI version 1.3, flickering or no screen display can result. Please use the latest cables that support at least HDMI version 1.3.



Connecting with an HDMI to DVI cable

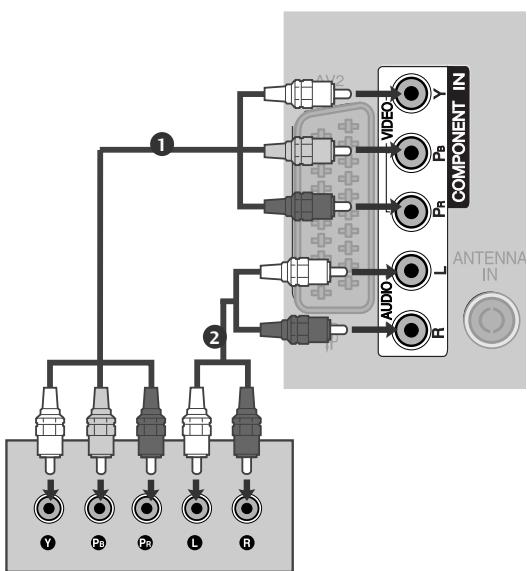
- 1 Connect the digital set-top box to **HDMI/DVI IN 1** jack on the TV.
- 2 Connect the audio output of the digital set-top box to the **AUDIO IN (RGB/DVI)** jack on the TV.
- 3 Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
- 4 Select **HDMI1** input source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



DVD SETUP

Connecting with a Component cable

- 1 Connect the video outputs (Y, Pb, Pr) of the DVD to the **COMPONENT IN VIDEO** jacks on the TV.
- 2 Connect the audio outputs of the DVD to the **COMPONENT IN AUDIO** jacks on the TV.
- 3 Turn on the DVD player, insert a DVD.
- 4 Select **Component** input source using the **INPUT** button on the remote control.
- 5 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	Y	P _B	P _R
Video output ports on DVD player	Y	P _B	P _R
	Y	B-Y	R-Y
	Y	C _b	C _r
	Y	P _b	P _r

EXTERNAL EQUIPMENT SETUP

Connecting with a Euro Scart cable

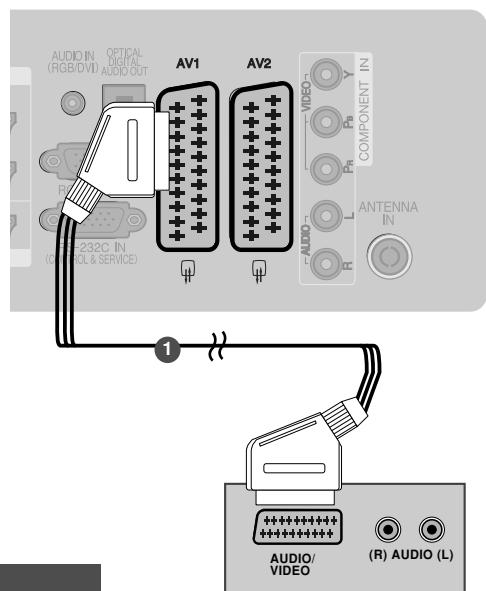
- 1 Connect the Euro scart socket of the DVD to the **AV1** Euro scart socket on the TV.
- 2 Turn on the DVD player, insert a DVD.
- 3 Select **AV1** input source using the **INPUT** button on the remote control.
If connected to **AV2** Euro scart socket, select **AV2** input source.
- 4 Refer to the DVD player's manual for operating instructions.

Scart	Input			Output
	Video	Audio	RGB	Video, Audio
AV1	O	O	O	Analogue only
AV2	O	O	X	Analogue, DTV, AV1/2/3 output is available.

Current input mode \ Output Type	AV1 (TV Out)	AV2 (Monitor Out)	AV2 (When DTV scheduled recording is in progress using recording equipment.)
Digital TV	X	O	O
Analogue TV, AV1/3	O	O	O
Component/RGB	O	X	(The input mode is converted to DTV.)
HDMI	X	X	
AV2	O	O	O

! NOTE

- Any Euro scart cable used must be signal shielded.

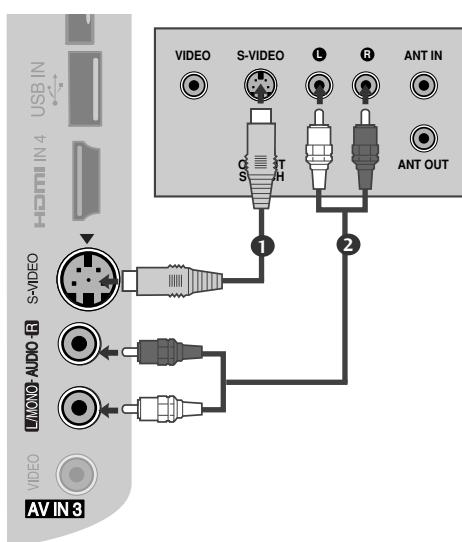


► **TV Out** : Outputs analogue TV signals.
Monitor Out: Outputs the current screen image.

Connecting with a S-Video cable

(Only 32/37/42/47LH70**, 50/60PS70**, 50/60PS80**, 42/50PQ35**, 42PQ65**, 50PS65**)

- 1 Connect the S-VIDEO output of the DVD to the **S-VIDEO** input on the TV.
- 2 Connect the audio outputs of the DVD to the **AUDIO** input jacks on the TV.
- 3 Turn on the DVD player, insert a DVD.
- 4 Select **AV3** input source using the **INPUT** button on the remote control.
- 5 Refer to the DVD player's manual for operating instructions.

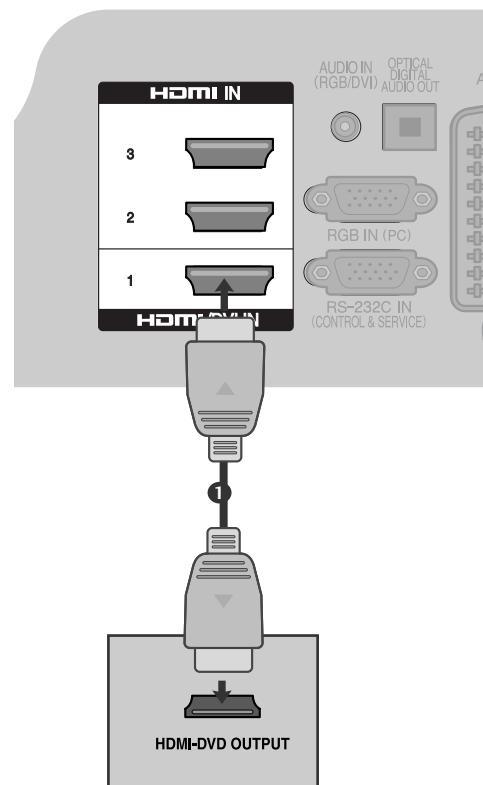


Connecting the HDMI cable

- 1 Connect the HDMI output of the DVD to the **HDMI/DVI IN 1, HDMI IN 2**(Except for 19/22LH20**, 19/22LG31**), **HDMI IN 3** (Except for 19/22LU40**, 19/22LU50**, 19/22/26/32/37/42LH20**, 32/37/42LF25**, 32/37/42LG2***, 32/37/42LG33**, 26LG31**) or **HDMI IN 4** (Only 32/37/42/47LH49**, 32/37/42/47/55LH50**, 32/37/42/47LH70**, 42/47LH90**, 50/60PS70**, 50/60PS80**) jack on the TV.
- 2 Select **HDMI1, HDMI2**(Except for 19/22LH20**, 19/22LG31**), **HDMI3**(Except for 19/22LU40**, 19/22LU50**, 19/22/26/32/37/42LH20**, 32/37/42LF25**, 32/37/42LG2***, 32/37/42LG33**, 26LG31**) or **HDMI4**(Only 32/37/42/47LH49**, 32/37/42/47/55LH50**, 32/37/42/47LH70**, 42/47LH90**, 50/60PS70**, 50/60PS80**) input source using the **INPUT** button on the remote control.
- 3 Refer to the DVD player's manual for operating instructions.

! NOTE

- The TV can receive video and audio signals simultaneously when using an HDMI cable.
- If the DVD does not support Auto HDMI, you must set the output resolution appropriately.
- Check that your HDMI cable is version 1.3 or higher. If the HDMI cables don't support HDMI version 1.3, flickering or no screen display can result. Please use the latest cables that support at least HDMI version 1.3.

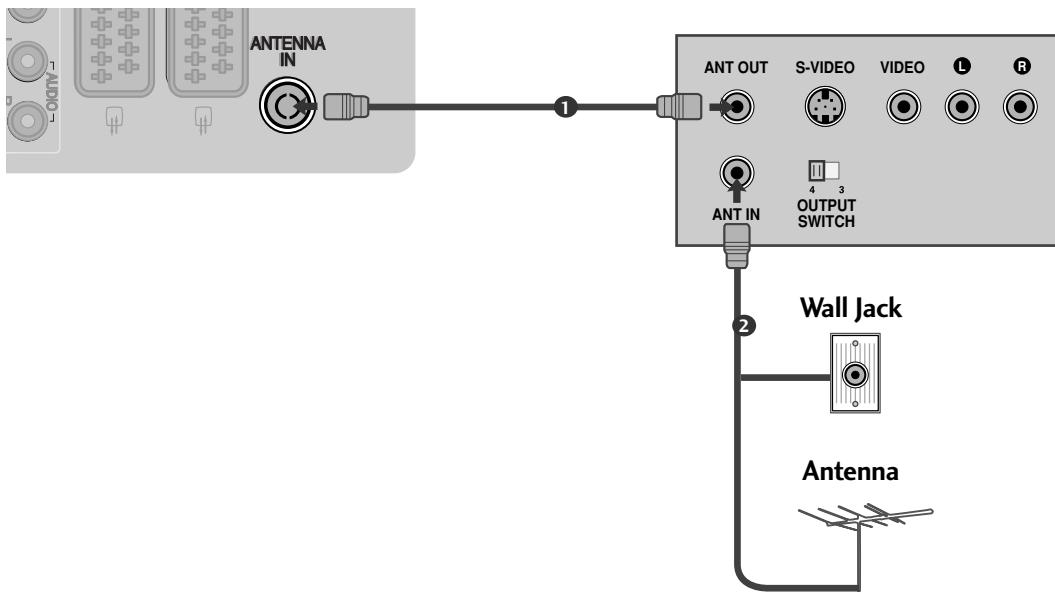


EXTERNAL EQUIPMENT SETUP

VCR SETUP

- To avoid picture noise (interference), allow adequate distance between the VCR and TV.

Connecting with a RF Cable



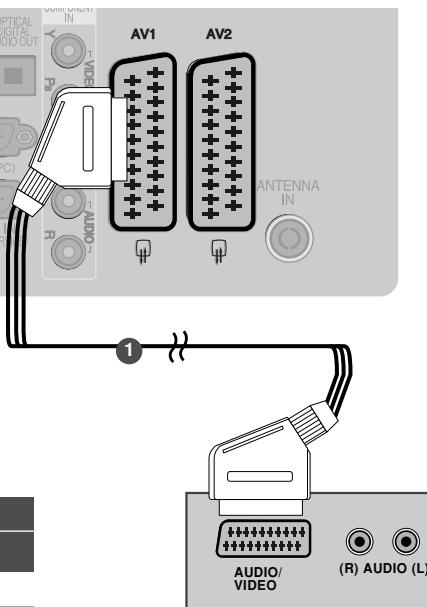
- 1 Connect the **ANT OUT** socket of the VCR to the **ANTENNA IN** socket on the TV.
- 2 Connect the antenna cable to the **ANT IN** socket of the VCR.
- 3 Press the **PLAY** button on the VCR and match the appropriate channel between the TV and VCR for viewing.

Connecting with a Euro Scart cable

- 1 Connect the Euro scart socket of the VCR to the **AV1** Euro scart socket on the TV.
- 2 Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)
- 3 Select **AV1** input source using the **INPUT** button on the remote control.
- 4 If connected to **AV2** Euro scart socket, select **AV2** input source.

Scart	Input			Output	
	Video	Audio	RGB		
AV1	O	O	O	Analogue only	
AV2	O	O	X	Analogue, DTV, AV1/2/3 output is available.	

Current input mode	Output Type	AV1	AV2	AV2 (When DTV scheduled recording is in progress using recording equipment.)
		(TV Out)	(Monitor Out)	
Digital TV	X	O		O
Analogue TV, AV1/3	O	O		O
Component/RGB	O		X	(The input mode is converted to DTV.)
HDMI	X	X		
AV2	O	O		O



► **TV Out** : Outputs analogue TV signals.
Monitor Out: Outputs the current screen image.

! NOTE

► Any Euro Scart cable used must be signal shielded.

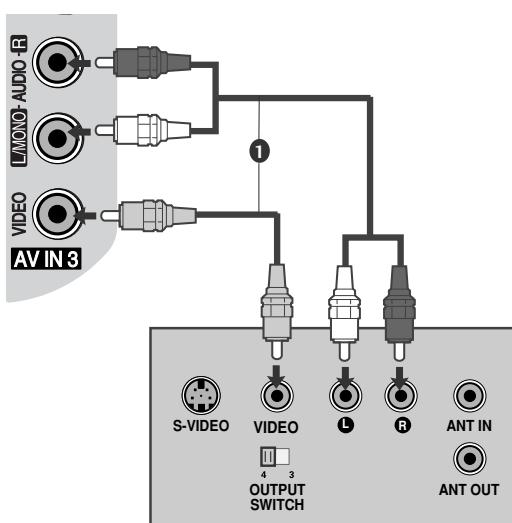
Connecting with a RCA cable

(Except for 19/22LU40**, 19/22LU50**, 19/22LH20**, 19/22LG31**, 32/37/42LF25**)

- 1 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.)
- 3 Select **AV3** input source using the **INPUT** button on the remote control.

! NOTE

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



EXTERNAL EQUIPMENT SETUP

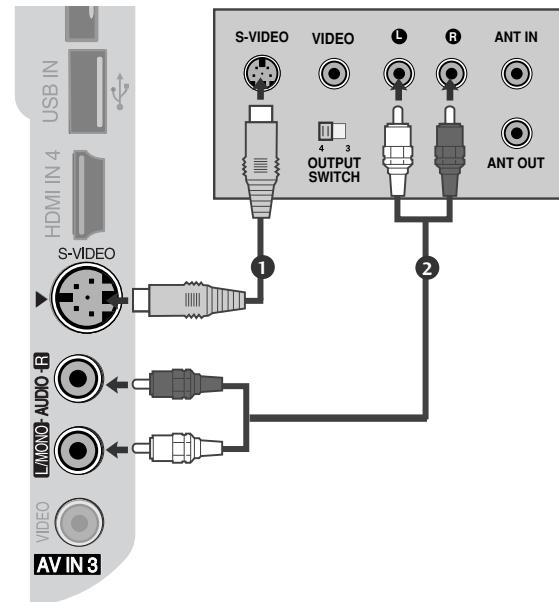
Connecting with a S-Video cable

(Only 32/37/42/47LH70**, 50/60PS70**, 50/60PS80**, 42/50PQ35**, 42PQ65**, 50PS65**)

- 1 Connect the S-VIDEO output of the VCR to the **S-VIDEO** input on the TV set. The picture quality is improved; compared to normal composite (RCA cable) input.
- 2 Connect the audio outputs of the VCR to the **AUDIO** input jacks on the TV.
- 3 Insert a video tape into the VCR and press **PLAY** on the VCR. (Refer to the VCR owner's manual.)
- 4 Select **AV3** input source with using the **INPUT** button on the remote control.

! NOTE

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



INSERTION OF CI MODULE

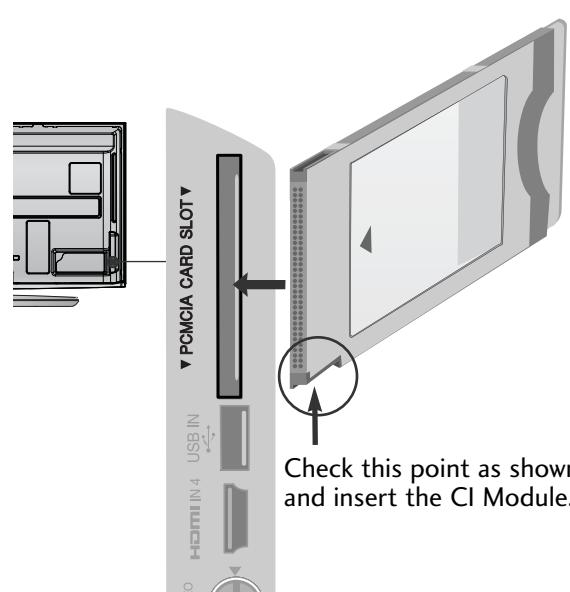
- To view the encrypted (pay) services in digital TV mode.
- This feature is not available in all countries.

- 1 Insert the CI Module to **PCMCIA** (Personal Computer Memory Card International Association) **CARD SLOT** of TV as shown.

For further information, see p.77.

! NOTE

- Check if the CI module is inserted into the PCMCIA card slot in the right direction. If the module is not inserted properly, this can cause damage to the TV and the PCMCIA card slot.



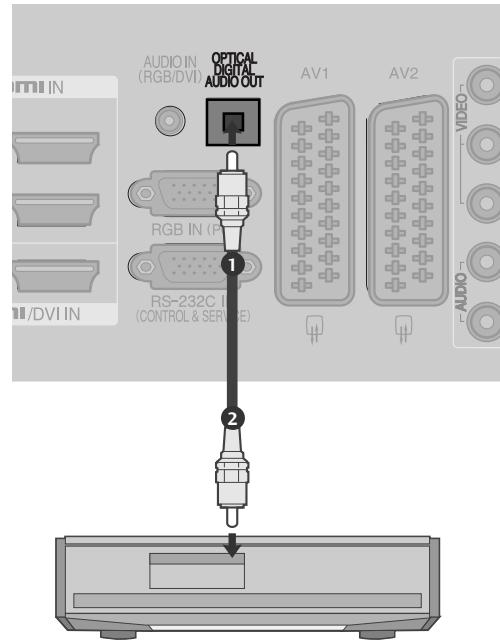
DIGITAL AUDIO OUT SETUP

Sending the TV's audio signal to external audio equipment via the Digital Audio Output (Optical) port. If you want to enjoy digital broadcasting through 5.1-channel speakers, connect the OPTICAL DIGITAL AUDIO OUT terminal on the back of TV to a Home Theater (or amp).

- 1 Connect one end of an optical cable to the TV Digital Audio (Optical) Output port.
- 2 Connect the other end of the optical cable to the digital audio (Optical) input on the audio equipment.
- 3 Set the "TV Speaker option - Off" in the AUDIO menu. (►p.132). Refer to the external audio equipment instruction manual for operation.

! CAUTION

► Do not look into the optical output port. Looking at the laser beam may damage your vision.

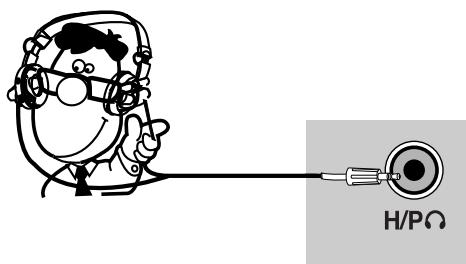


HEADPHONE SETUP

(Except for 50/60PS70**, 50/60PS80**, 42/50PQ35**, 42PQ65**, 50PS65**)

You can listen the sound through the headphone.

- 1 Plug the headphone into the headphone socket.
- 2 To adjust the headphone volume, press the Δ + or - button. If you press the MUTE button, the sound from the headphone is switched off.



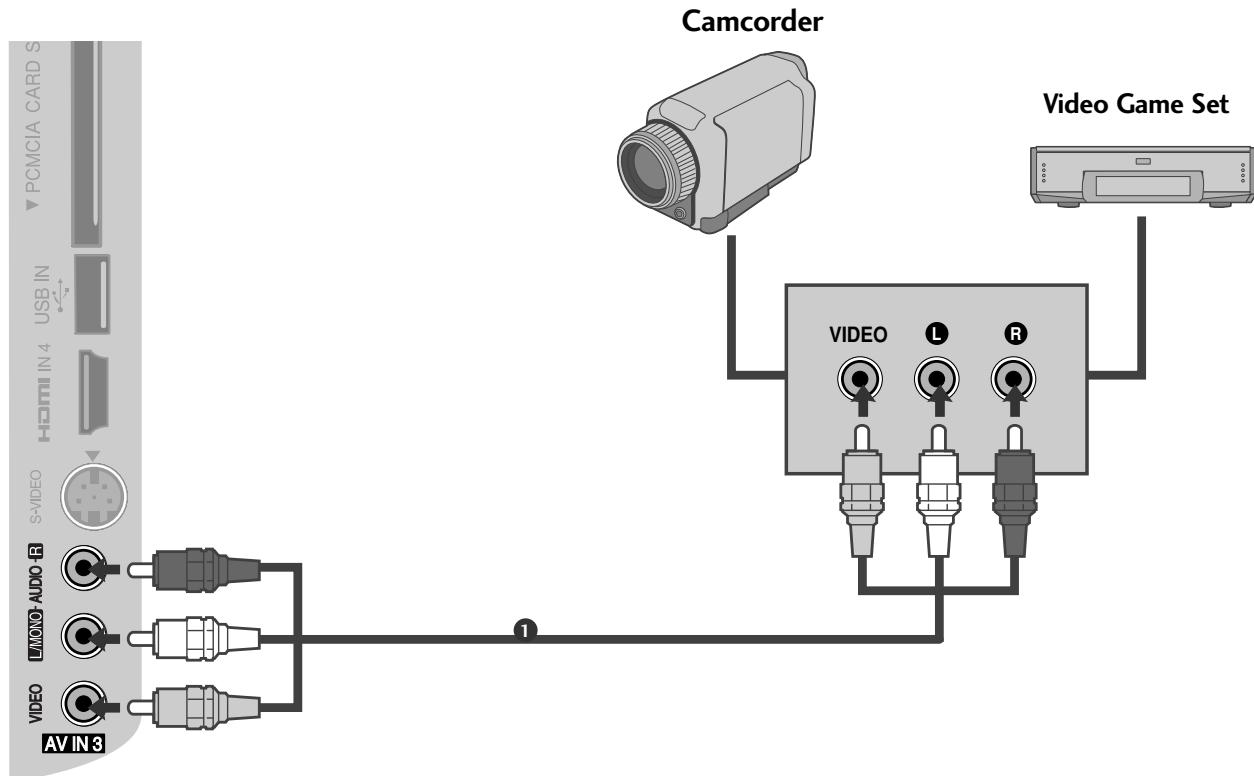
! NOTE

► AUDIO menu items are disabled when connecting a headphone.
 ► When changing AV MODE with a headphone connected, the change is applied to video but not to audio.
 ► Optical Digital Audio Out is not available when connecting a headphone.

EXTERNAL EQUIPMENT SETUP

OTHER A/V SOURCE SETUP

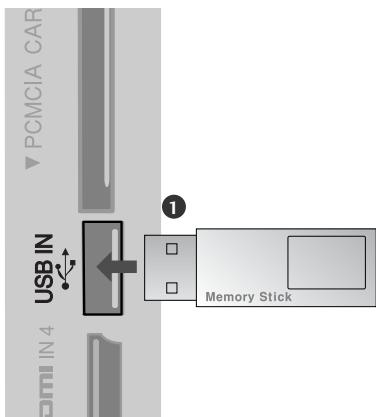
(Except for 19/22LU40**, 19/22LU50**, 19/22LH20**, 19/22LG31**, 32/37/42LF25**)



- 1 Connect the **AUDIO/VIDEO** jacks between TV and external equipment. Match the jack colours.
(Video = yellow, Audio Left = white, and Audio Right = red)
- 2 Select **AV3** input source with using the **INPUT** button on the remote control.
- 3 Operate the corresponding external equipment.
Refer to external equipment operating guide.

USB SETUP

(Except for 19/22LU40**, 19/22/26LU50**, 32/37/42LF25**, 32/37/42LG2***, 32/37/42LG33**, 19/22/26LG31**, 19/22/26/32/37/42LH20**, 32/37/42/47LH3***, 32/42/47LF51**)



- 1 Connect the USB device to the **USB IN** jack on the TV.

- 2 After connecting the **USB IN** jack, you use the **USB** function. (► p.96)

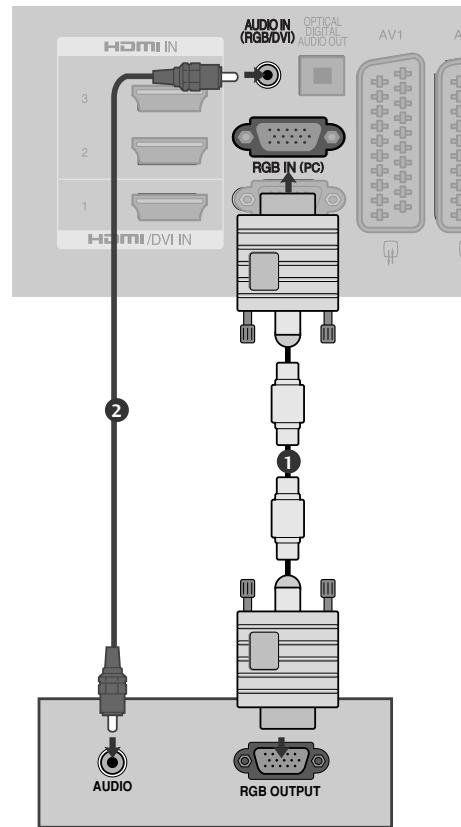
EXTERNAL EQUIPMENT SETUP

PC SETUP

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

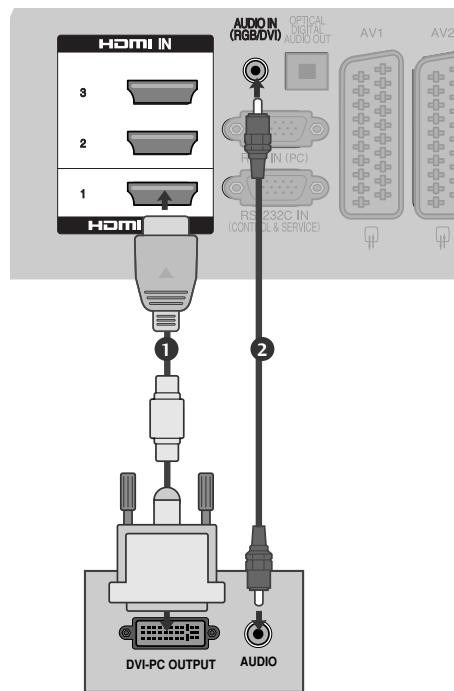
Connecting with a D-sub 15 pin cable

- 1 Connect the RGB output of the PC to the **RGB IN (PC)** jack on the TV.
- 2 Connect the PC audio output to the **AUDIO IN (RGB/DVI)** jack on the TV.
- 3 Turn on the PC and the TV
- 4 Select **RGB** input source using the INPUT button on the remote control.



Connecting with an HDMI to DVI cable

- 1 Connect the DVI output of the PC to the **HDMI/DVI IN1** jack on the TV.
- 2 Connect the PC audio output to the **AUDIO IN (RGB/DVI)** jack on the TV.
- 3 Turn on the PC and the TV.
- 4 Select **HDMI1** input source using the INPUT button on the remote control.



EXTERNAL EQUIPMENT SETUP

Supported Display Resolution

Plasma TV Models

RGB-PC, HDMI/DVI-PC mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
720x400	31.468	70.08
640x480	31.469	59.94
800x600	37.879	60.31
1024x768	48.363	60.00
1280x768	47.78	59.87
1360x768	47.72	59.80
1920x1080	66.587	59.934
1280x1024	63.98	60.02
1400x1050	65.317	59.979

(Except for 42/50PQ35**, 42PQ65**)

HDMI/DVI-DTV mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
640x480	31.649	59.94
	31.469	60
720x480	31.47	59.94
	31.50	60
720x576	31.25	50.00
1280x720	37.50	50.00
	44.96	59.94
	45.00	60
1920x1080	28.125	50.00
	33.72	59.94
	33.75	60
	27.00	24.00
	33.750	30
	56.25	50.00
	67.433	59.94
	67.50	60

LCD TV Models / LED LCD TV Models

RGB-PC, HDMI/DVI-PC mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
720x400	31.468	70.08
640x480	31.469	59.94
800x600	37.879	60.31
1024x768	48.363	60.00
1280x768	47.78	59.87
1360x768	47.72	59.80
1280x1024	63.595	60.00
1920x1080 (RGB-PC)	66.587	59.93
1920x1080 (HDMI-PC)	67.5	60.00
1440x900	55.5	59.90
1400x1050	64.744	59.948
1680x1050	65.16	59.94

HDMI/DVI-DTV mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
720x480	31.469/31.5	59.94/60
720x576	31.25	50
1280x720	37.5	50
	44.96/45	59.94/60
1920x1080	33.72/33.75	59.94/60
	28.125	50
	26.97/27	23.97/24
	33.716/33.75	29.976/30.00
	56.25	50
	67.43/67.5	59.94/60

! NOTE

- ▶ Avoid keeping a fixed image on the set's screen for prolonged periods of time. The fixed image may become permanently imprinted on the screen; use a screen saver when possible.
- ▶ 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 1920x1080, 60Hz(Except for 19/22LU40**, 19LU50**, 19/22/26/32/37/42LH20**, 32/37/42LG2***, 32/37/42LG33**, 19/22/26LG31**, 42/50PQ35**, 42PQ65**), 1360x768, 60Hz(Only 19/22LU40**, 19LU50**, 19/22/26/32/37/42LH20**, 32/37/42LG2***, 32/37/42LG33**, 26LG31**, 50PQ35**), 1024x768, 60Hz(Only 42PQ35**, 42PQ65**), 1440x900, 60Hz(Only 19LG31**) , 1680x1050, 60Hz(Only 22LG31**)for the PC mode, this should provide the best picture quality.
- ▶ Connect the signal cable from the monitor output port of the PC to the RGB (PC) port of the TV or the signal cable from the HDMI output port of the PC to the HDMI IN (or HDMI/DVI IN) port on the TV.
- ▶ Connect the audio cable from the PC to the Audio input on the TV. (Audio cables are not included with the TV).
- ▶ If using a sound card, adjust PC sound as required.
- ▶ If the graphic card on the PC does not output analogue and digital RGB simultaneously, connect only one of either RGB or HDMI IN (or HDMI/DVI IN) to display the PC output on the TV.
- ▶ If the graphic card on the PC does output analogue and digital RGB simultaneously, set the TV to either RGB or HDMI; (the other mode is set to Plug and Play automatically by the TV.)
- ▶ DOS mode may not work depending on the video card if you use an HDMI to DVI cable.
- ▶ If you use too long an RGB-PC cable that is too long, there may be interference on the screen. We recommend using under 5m of cable. This provides the best picture quality.

EXTERNAL EQUIPMENT SETUP

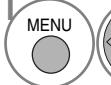
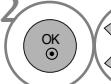
Screen Setup for PC mode

Screen Reset

Returns Position, Size and Phase to the factory default settings.

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



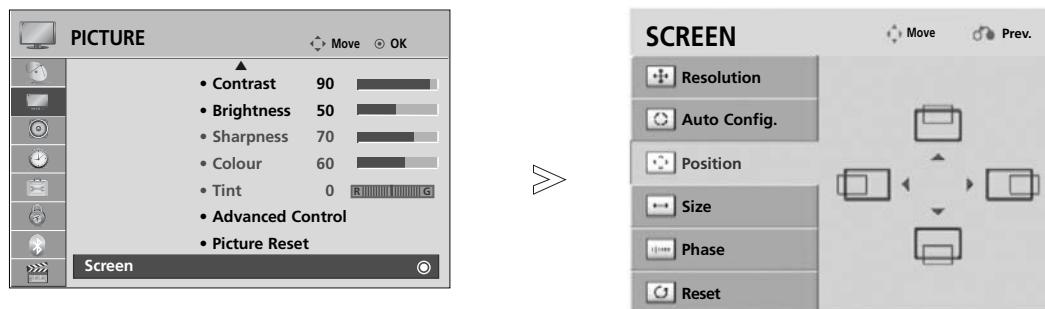
- 1   Select **PICTURE**.
- 2   Select **Screen**.
- 3   Select **Reset**.
- 4   Select **Yes**.
- 5  Run **Reset**.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

Adjustment for screen Position, Size, Phase

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

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



- 1 Select **PICTURE**.
- 2 Select **Screen**.
- 3 Select **Position, Size or Phase**.
- 4 Make appropriate adjustments.
- 5

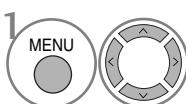
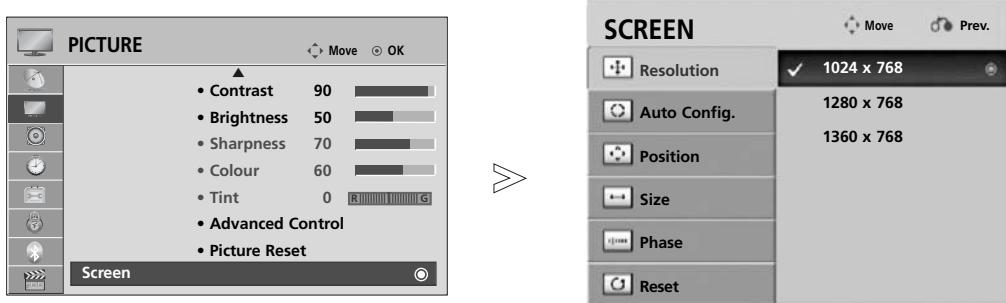
- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

EXTERNAL EQUIPMENT SETUP

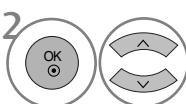
Selecting Resolution

To view a normal picture, match the resolution of RGB mode and selection of PC mode.

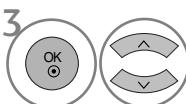
This function works in the following mode: RGB[PC]



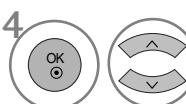
Select **PICTURE**.



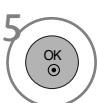
Select **Screen**.



Select **Resolution**.



Select the desired resolution.



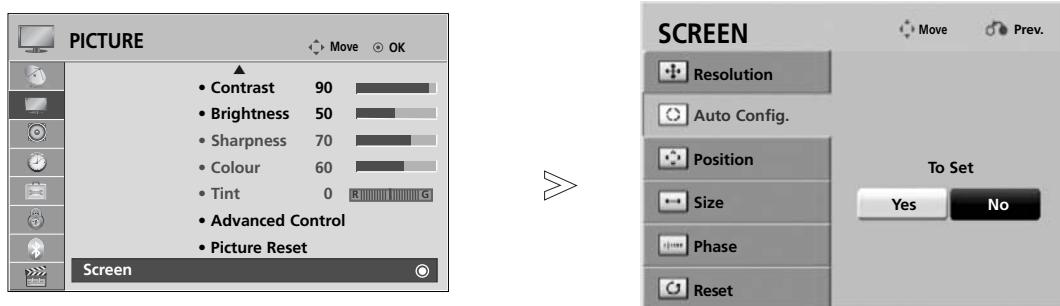
- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

Auto Configure (RGB [PC] mode only)

Automatically adjusts the 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, size, and phase. The displayed image will be unstable for a few seconds while the auto configuration is in progress.



- 1   Select **PICTURE**.
- 2   Select **Screen**.
- 3   Select **Auto Config..**
- 4   Select **Yes**.
- 5  Run **Auto Config..**

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

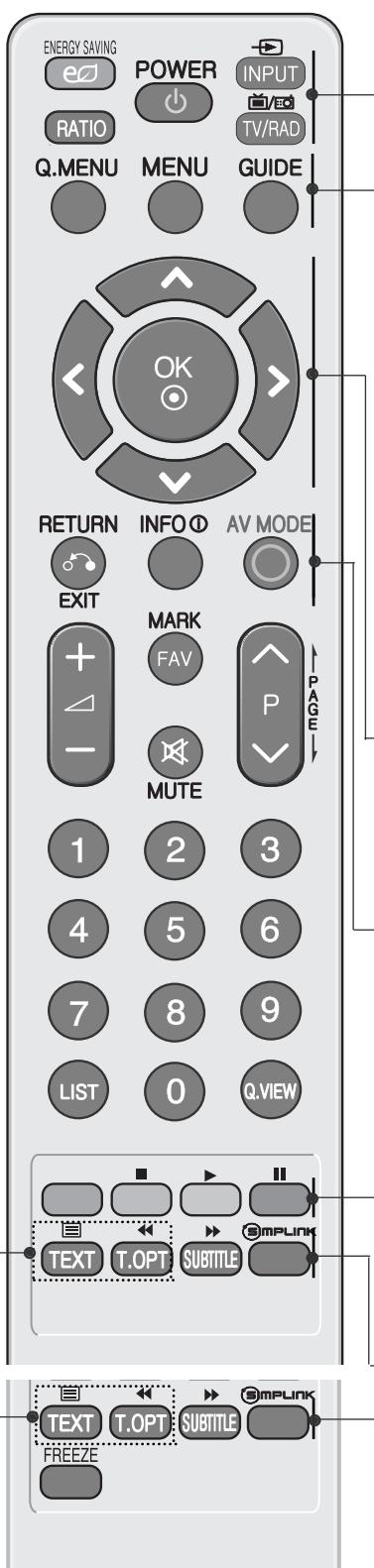
- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

WATCHING TV / PROGRAMME CONTROL

REMOTE CONTROL KEY FUNCTIONS

(Only 32/37/42/47LH40**, 32/37/42/47LH49**, 32/37/42/47/55LH50**, 32/37/42/47LH70**, 32/42/47LF51**, 50/60PS70**, 50/60PS80**, 42PQ65**, 50PS65**)

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



ENERGY SAVING Adjust the Energy Saving mode of the TV. (► p.116)

RATIO Selects your desired Aspect Ratio of picture. (► p.113)

POWER Switches the TV on from standby or off to standby.

INPUT External input mode rotate in regular sequence. (► p.80)

TV/RAD Selects Radio, TV and DTV channel.

Q. MENU Select the desired quick menu source. (Aspect Ratio, Clear Voice II, Picture Mode, Sound Mode, Audio, Sleep Timer, Favourite, USB Device). (► p.63)

MENU Selects a menu. Clears all on-screen displays and returns to TV viewing from any menu. (► p.64)

GUIDE Shows programme schedule. (► p.110)

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.

RETURN(EXIT) Allows the user to move return one step in an interactive application, EPG or other user interaction function.

INFO ⓘ Shows the present screen information.

AV MODE It helps you select and set images and sounds when connecting AV devices. (► p.86)

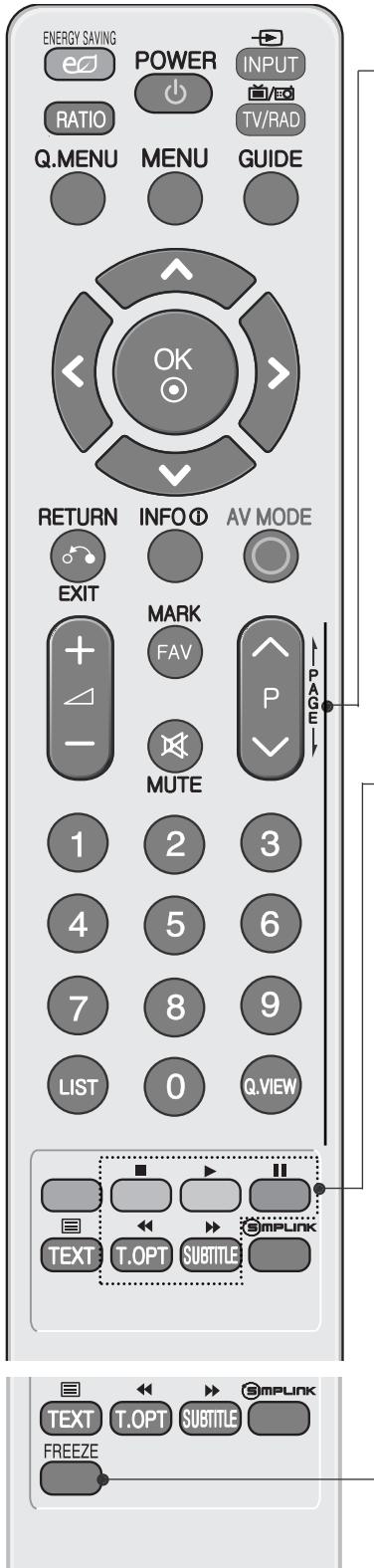
Coloured buttons These buttons are used for teletext (on **TELETEXT** models only), **Programme edit**.

1 TELETEXT These buttons are used for teletext.

BUTTONS For further details, see the 'Teletext' section. (► p.149)

SUBTITLE Recalls your preferred subtitle in digital mode.

1 SIMPLINK See a list of AV devices connected to TV. When you toggle this button, the Simlink menu appears at the screen. (► p.83)



VOLUME UP Adjusts the volume.
/DOWN

MARK Check and un-check programmes in the USB menu.

FAV Displays the selected favourite programme.

MUTE Switches the sound on or off.

Programme UP/DOWN Selects a programme.

PAGE UP/DOWN Move from one full set of screen information to the next one.

0~9 number button Selects a programme.
 Selects numbered items in a menu.

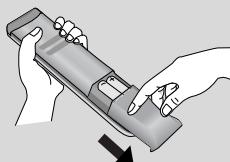
LIST Displays the programme table.(▶ p.78)

Q.VIEW Returns to the previously viewed programme.

SIMPLINK / USB Menu control buttons Controls SIMPLINK or USB menu(Photo List and Music List or Movie List (Only 32/37/42/47LH49**, 32/37/42/47/55LH50**, 32/37/42/47LH70**, 50/60PS70**, 50/60PS80**, 42PQ65**, 50PS65**)).

FREEZE Pause the present picture at the screen.(Plasma TV only)

Installing Batteries



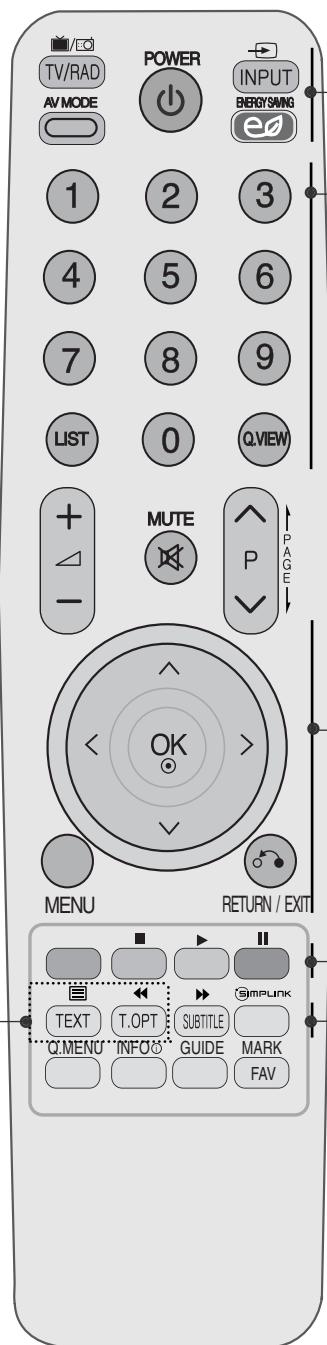
- Open the battery compartment cover on the back and install the batteries matching correct polarity (+with +, -with -).
- Install two 1.5V AAA batteries. Do not mix old or used batteries with new ones.
- Close cover.

WATCHING TV / PROGRAMME CONTROL

REMOTE CONTROL KEY FUNCTIONS

(Only 19/22LU40**, 19/22/26LU50**, 32/37/42LF25**, 32/37/42LG2***, 32/37/42LG33**, 19/22/26LG31**, 19/22/26/32/37/42LH20**, 32/37/42/47LH3***, 42/50PQ35**)

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



TV/RAD Selects Radio, TV and DTV channel.

AV MODE It helps you select and set images and sounds when connecting AV devices. (▶ p.86)

POWER Switches the TV on from standby or off to standby.

INPUT External input mode rotate in regular sequence. (► p.80)

ENERGY SAVING Adjust the Energy Saving mode of the TV. (► p.116)

0~9 number Selects a programme.

button Selects numbered items in a menu.

Q.VIEW Returns to the previously viewed programme.

LIST Displays the programme table.(► p.78)

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.

MENU Selects a menu.

Clears all on-screen displays and returns to TV viewing from any menu.(▶ p.64)

RETURN(EXIT) Allows the user to move return one step in an interactive application, EPG or other user interaction function.

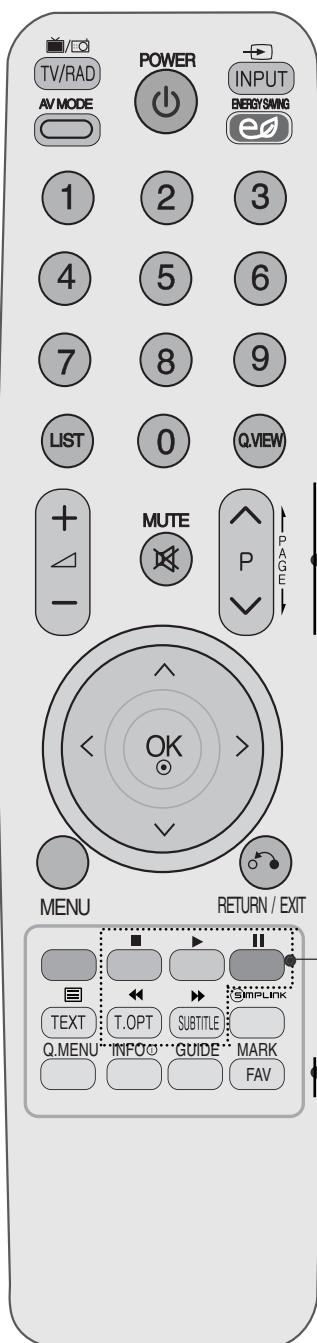
Coloured These buttons are used for teletext (on **TELETEXT** buttons models only) . **Programme edit.**

1 TELETEXT BUTTONS These buttons are used for teletext. For further details, see the 'Teletext' section. (► p. 149)

SUBTITLE Recalls your preferred subtitle in digital mode.

 SIMPLINK See a list of AV devices connected to TV.

When you toggle this button, the Simplink menu appears at the screen.(► p.83)



VOLUME UP Adjusts the volume.
/DOWN

MUTE Switches the sound on or off.

Programme Selects a programme.
UP/DOWN

PAGE Move from one full set of screen information to the next
UP/DOWN one.

SIMPLINK Controls SIMPLINK.
control buttons

Q. MENU Select the desired quick menu source. (Aspect Ratio, Clear Voice II, Picture Mode, Sound Mode, Audio, Sleep Timer, Favourite, Energy Saving.) (► p.63)

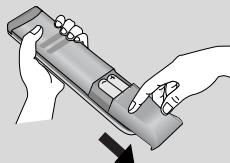
INFO ⓘ Shows the present screen information.

GUIDE Shows programme schedule. (► p.110)

FAV Displays the selected favourite programme.

MARK Select the input to apply the Picture Wizard settings.

Installing Batteries



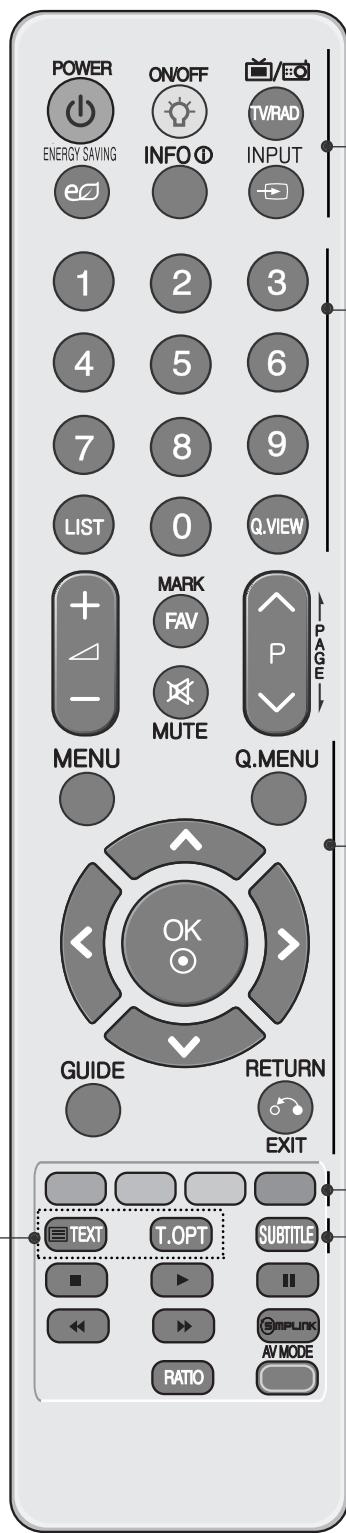
- Open the battery compartment cover on the back and install the batteries matching correct polarity (+with +, -with -).
- Install two 1.5V AAA batteries. Do not mix old or used batteries with new ones.
- Close cover.

WATCHING TV / PROGRAMME CONTROL

REMOTE CONTROL KEY FUNCTIONS

(Only 42/47LH90**)

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



POWER Switches the TV on from standby or off to standby.

ON/OFF Key lighting on or off.

TV/RAD Selects Radio, TV and DTV channel.

ENERGY SAVING Adjust the Energy Saving mode of the TV.(► p.116)

INFO Shows the present screen information.

INPUT External input mode rotate in regular sequence.(► p.80)

0~9 number button Selects a programme.

Selects numbered items in a menu.

LIST Displays the programme table. (► p.78)

Q.VIEW Returns to the previously viewed programme.

MENU Selects a menu.

Clears all on-screen displays and returns to TV viewing from any menu.(► p.64)

Q. MENU Select the desired quick menu source. (Aspect Ratio, Clear Voice II, Picture Mode, Sound Mode, Audio, Sleep Timer, Favourite, USB Device).(► p.63)

THUMBSTICK 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.

GUIDE Shows programme schedule.(► p.110)

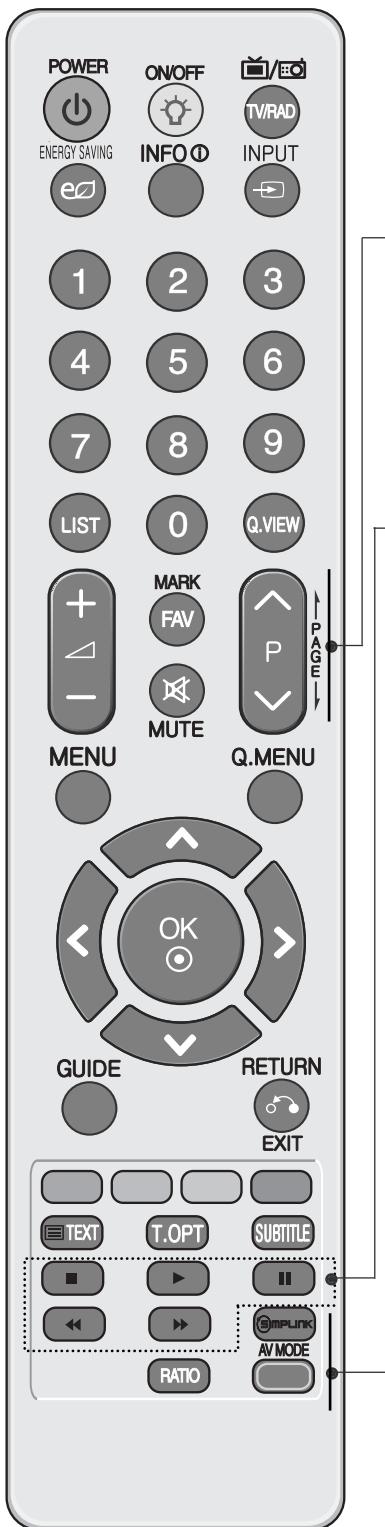
RETURN(EXIT) Allows the user to move return one step in an interactive application, EPG or other user interaction function.

Coloured buttons These buttons are used for teletext (on **TELETEXT** models only) , **Programme edit**.

1 TELETEXT These buttons are used for teletext.

BUTTONS For further details, see the 'Teletext' section.(► p.149)

SUBTITLE Recalls your preferred subtitle in digital mode.



VOLUME UP Adjusts the volume.
/DOWN

FAV Displays the selected favourite programme.

MARK Check and un-check programmes in the USB menu.

MUTE Switches the sound on or off.

Programme UP/DOWN Selects a programme.

PAGE UP/DOWN Move from one full set of screen information to the next one.

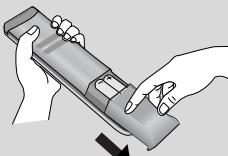
SIMPLINK / USB Menu Controls SIMPLINK or USB menu(Photo List and Music List or Movie List).
control buttons

SIMPLINK See a list of AV devices connected to TV.
When you toggle this button, the Simplink menu appears at the screen.(► p.83)

RATIO Selects your desired Aspect Ratio of picture.(► p.113)

AV MODE It helps you select and set images and sounds when connecting AV devices.(► p.86)

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.

WATCHING TV / PROGRAMME CONTROL

TURNING ON THE TV

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

- 1 Firstly, connect the power cord correctly.

And switch the **Main Power Switch** on TV. (Only 42/47LH90**, 32/37/42/47LH70**, 19/22/26/32/37/42LH20**, 32/37/42/47LH3***, 32/37/42/47LH40**, 32/37/42/47LH49**, 32/37/42/47/55LH50**, 19/22LU40**, 19/22/26LU50**)

At this stage, the TV switches to standby mode.

- 2 In standby mode to turn TV on, press the \odot / \mathbb{I} (LCD TV/LED LCD TV only), INPUT or $P \uparrow \downarrow$ (or $P \wedge \vee$) button on the TV or press the POWER, INPUT, $P \wedge \vee$ or NUMBER button on the remote control and the TV will switch on.

Initializing setup

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

Note:

- If you close without completing the initial setting, the Initial Setting menu can be displayed again.
- Press the RETURN button to change the current OSD to the previous OSD.
- For those countries without confirmed DTV broadcasting standards, some DTV features might not work, depending on the DTV broadcasting environment.
- "Home Use" mode is the optimal setting for home environments, and is the TV's default mode.
- "Store Demo" mode is the optimal setting for store environments. If a user modifies image quality data, "Store Demo" mode initializes the product to the image quality set by us after a certain period of time.
- The mode (Home Use, Store Demo) can be changed by executing Mode Setting in the OPTION menu.

PROGRAMME SELECTION

- 1 Press the $P \wedge \vee$ or NUMBER buttons to select a programme number.

VOLUME ADJUSTMENT

- 1 Press the $\Delta +$ or - button to adjust the volume.

If you wish to switch the sound off, press the MUTE button.

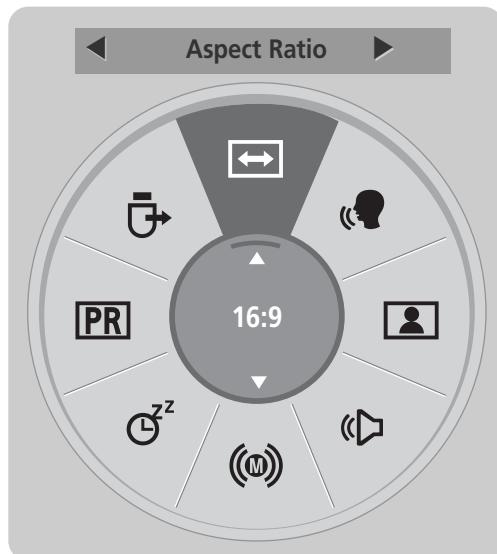
You can cancel this function by pressing the MUTE, $\Delta +$, - or AV Mode button.

QUICK MENU

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

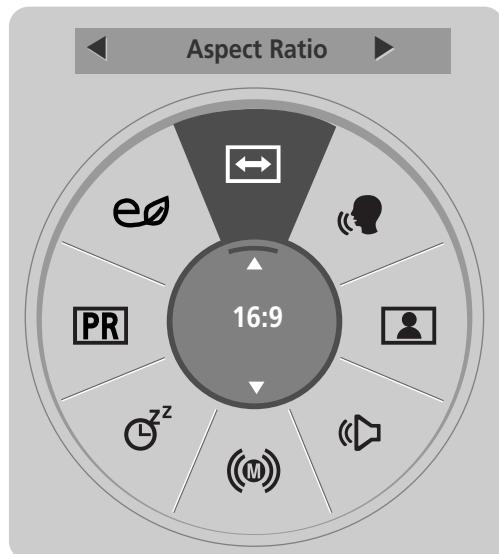
Q.Menu (Quick Menu) is a menu of features which users might use frequently.

- ◀ **Aspect Ratio**: Selects your desired picture format.
For Zoom Setting, select 14:9, Zoom and Cinema Zoom in Ratio Menu. After completing Zoom Setting, the display goes back to Q.Menu.
- ◀ **Clear Voice II** : By differentiating the human sound range from others, it helps users listen to human voices better.
- ◀ **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.



(Except for 19/22LU40**, 19/22/26LU50**, 32/37/42LF25**, 32/37/42LG2***, 32/37/42LG33**, 19/22/26LG31**, 19/22/26/32/37/42LH20**, 32/37/42/47LH3***, 32/42/47LF51**)

- ◀ **Audio** : Selects the sound output.
- ◀ **Sleep Timer** : Sets the sleep timer.
- ◀ **PR Favourite** : Selects the favourite programme.
- ◀ **USB Device**: Selects "Eject" in order to eject USB device.(Except for 19/22LU40**, 19/22/26LU50**, 32/37/42LF25**, 32/37/42LG2***, 32/37/42LG33**, 19/22/26LG31**, 19/22/26/32/37/42LH20**, 32/37/42/47LH3***, 32/42/47LF51**)
- ◀ **Energy Saving** : Selects your desired Energy Saving mode. (Only 19/22LU40**, 19/22/26LU50**, 32/37/42LF25**, 32/37/42LG2***, 32/37/42LG33**, 19/22/26LG31**, 19/22/26/32/37/42LH20**, 32/37/42/47LH3***, 32/42/47LF51**)



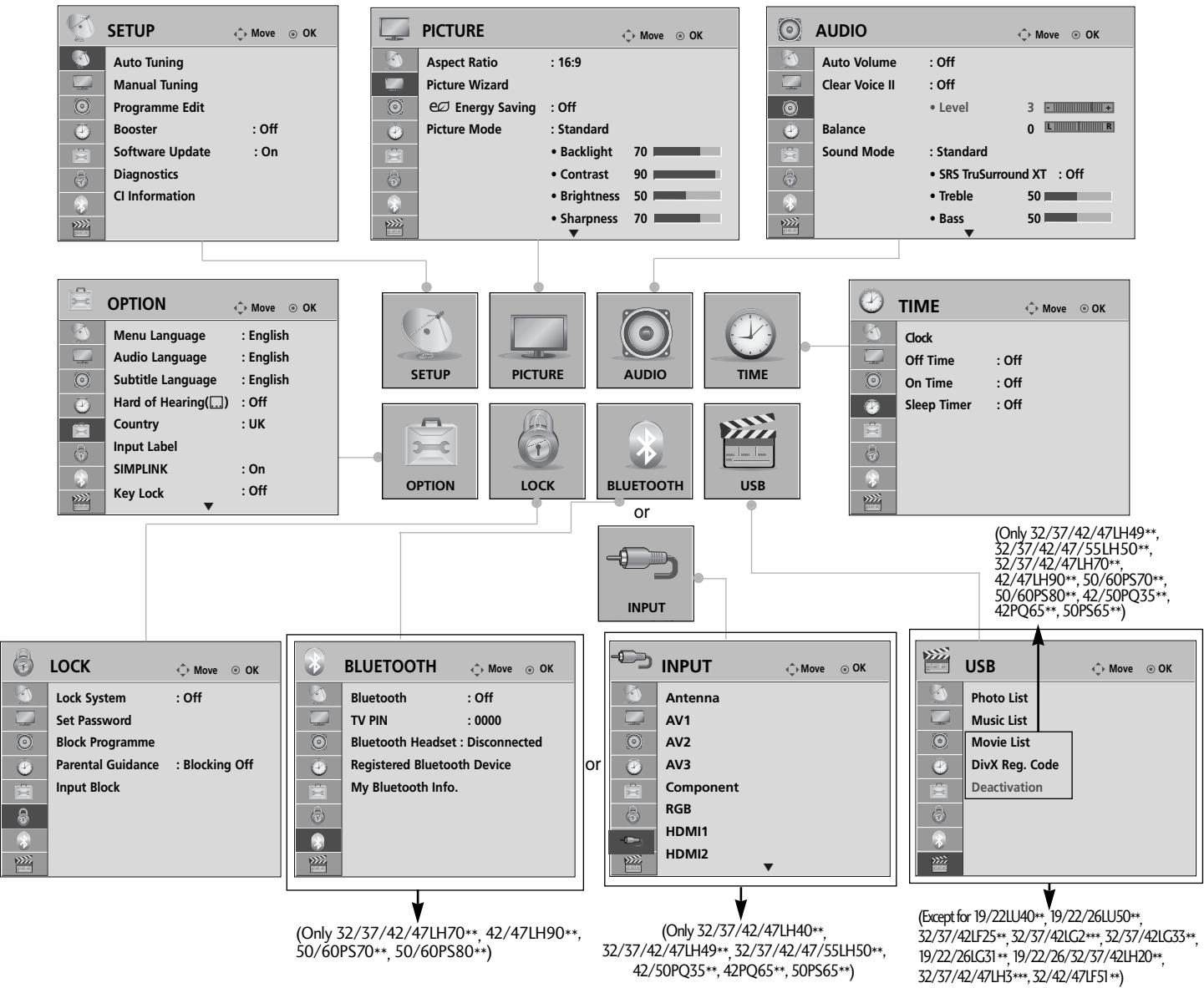
(Only 19/22LU40**, 19/22/26LU50**, 32/37/42LF25**, 32/37/42LG2***, 32/37/42LG33**, 19/22/26LG31**, 19/22/26/32/37/42LH20**, 32/37/42/47LH3***, 32/42/47LF51**)

- 1 Display each menu.
- 2 Select your desired Source.
- 3 • Press the **Q.MENU** button to return to normal TV viewing.
• Press the **RETURN** button to move to the previous menu screen.

WATCHING TV / PROGRAMME CONTROL

ON SCREEN MENUS SELECTION AND ADJUSTMENT

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



- 1 Display each menu.
- 2 Select a menu item.
- 3 Move to the pop up menu.

- Press the **INFO** button, you can check the **Simple Manual Menu**.
- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

! NOTE

- It is possible to use **ISM Method** in **Plasma TV** models only.
- It is possible to use **Backlight, Power Indicator** in **LCD TV/LED LCD TV** models only.
- It is not possible to use **CI Information** in **Analogue mode**.
- It is not possible to use **Booster** in **Analogue mode**. (Except for 32/37/42/47LH70**, 50/60PS70**, 50/60PS80**, 42/50PQ35**, 42PQ65**, 50PS65**)

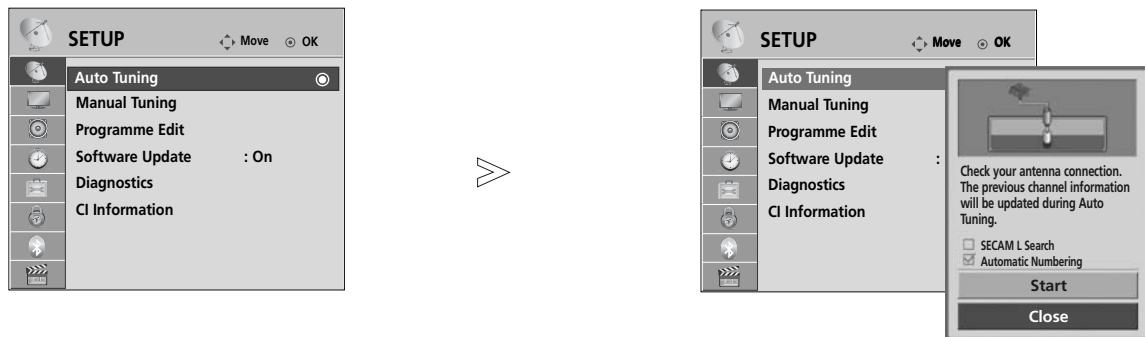
AUTO PROGRAMME TUNING

(For countries other than Finland and Sweden)

Use this to automatically find and store all available programmes.

When you start auto programming, all previously stored service information will be deleted.

The maximum number of programmes that can be stored is 500. But the number may differ slightly depending on broadcasting signals.



- 1 Select **SETUP**.
- 2 Select **Auto Tuning**.
- 3 Select **Start**.
- 4 Run **Auto tuning**.

- Use **NUMBER** buttons to input a 4-digit password in **Lock System 'On'**.
- If you wish to keep on auto tuning select **Start** using the **^ v** button. Then, press the **OK** button. Otherwise select **Close**.
- **Automatic Numbering:** Decide whether to use the programme numbers as sent by broadcasting stations for tuning.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

WATCHING TV / PROGRAMME CONTROL

AUTO PROGRAMME TUNING

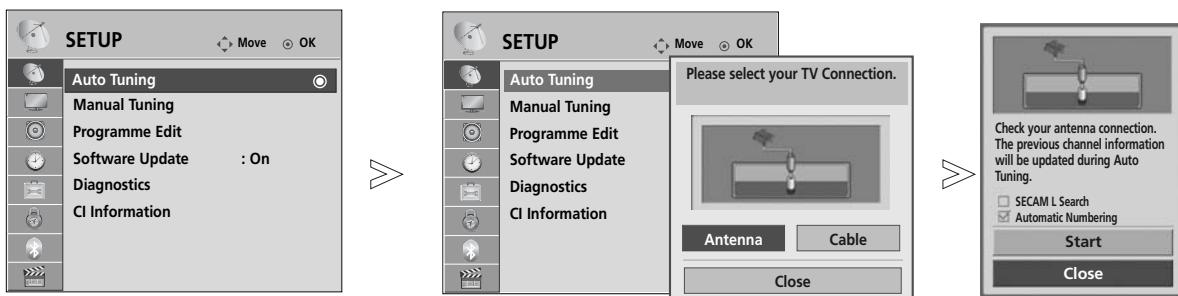
(Only for Finland and Sweden)

DVB-C Auto Tuning is a menu for users in countries that support DVB cable.

Use this to automatically find and store all available programmes.

When you start auto programming, all previously stored service information will be deleted.

If you want to select the Antenna,

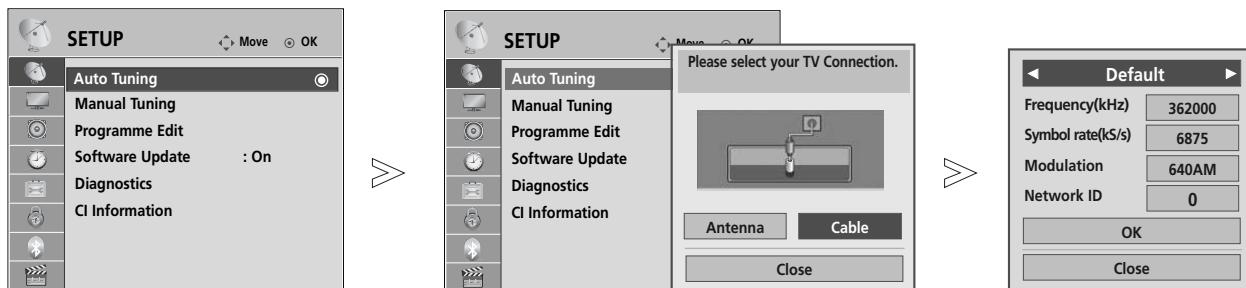


- 1   Select **SETUP**.
- 2   Select **Auto Tuning**.
- 3   Select **Antenna**.
- 4   Select **Start**.
- 5  Run **Auto tuning**.

- Use **NUMBER** buttons to input a 4-digit password in **Lock System 'On'**.
- If you wish to keep on auto tuning select **Start** using the **^ v** button. Then, press the **OK** button. Otherwise select **Close**.
- **Automatic Numbering:** Decide whether to use the programme numbers as sent by broadcasting stations for tuning.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

If you want to select the Cable,



- 1 Select **SETUP**.
- 2 Select **Auto Tuning**.
- 3 Select **Cable**.
- 4 Make appropriate adjustments.
- 5 Select **Start**.
- 6 Run **Auto tuning**.

- Use **NUMBER** buttons to input a 4-digit password in **Lock System 'On'**.
- If you wish to keep on auto tuning select **OK** using the **^ v** button. Then, press the **OK** button. Otherwise select **Close**.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

The following values are needed in order to search all available programmes quickly and correctly. The commonly used values are provided as "default".

However, for correct settings, please inquire of the cable service provider.

When running Auto Tuning in DVB cable mode, selecting Full will search through all frequencies between 110 MHz and 862 MHz to find available channels.

In the case when the programme is not searched by selecting the Default, perform the searching by selecting the Full. However, in the case when the programme is searched by selecting the Full, the Auto Tuning time can be taken too much.

- **Frequency** : Enter a user-defined frequency range.
- **Symbol rate** : Enter a user-defined symbol rate (Symbol rate: Speed at which a device such as modem sends symbols to a channel).
- **Modulation** : Enter a user-defined modulation. (Modulation: Loading of audio or video signals onto carrier).
- **Network ID**(Sweden only) : Unique identifier allocated for each user.

AUTO PROGRAMME TUNING

If you select the “--” of Country Setting, (Except for Finland and Sweden)

To watch DVB-C in the countries excluding Finland and Sweden, select '--' as the **Country** in **OPTION**. You can select **User** mode or **Full** mode in **Auto Tuning**.

The corresponding home frequency information may need to be changed when tuning the **User** mode, and the corresponding information depends on the Cable Service Operator (SO) in service.

During **Full** mode tuning, some channel may be restricted for some Cable Service Operator (SO), and it may take a long time for tuning.

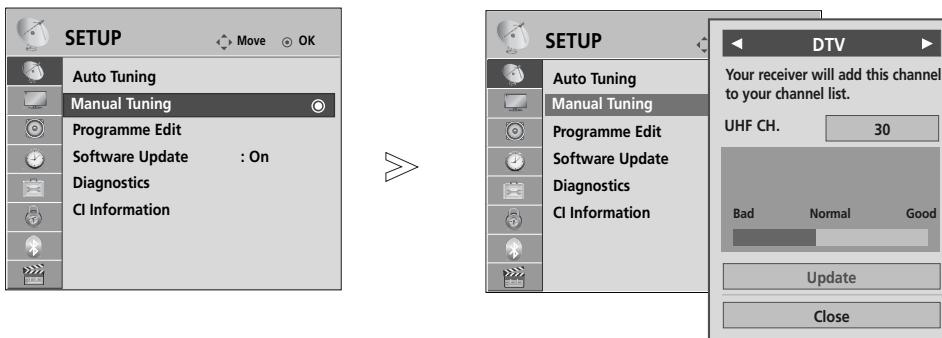
Note

- ▶ Your cable provider may charge for their services, or require you to agree to its items and conditions of business.
- ▶ DVB-C Cable may not operate correctly with some cable providers.
- ▶ Compatibility with DVB-C digital cable broadcasts is not guaranteed.

WATCHING TV / PROGRAMME CONTROL

MANUAL PROGRAMME TUNING (IN DIGITAL MODE)

Manual Tuning lets you manually add a programme to your programme list.
(For countries other than Finland and Sweden
& When selecting Antenna if Finland, Sweden or “--” country is chosen)



1   Select **SETUP**.

- Use NUMBER buttons to input a 4-digit password in **Lock System 'On'**.

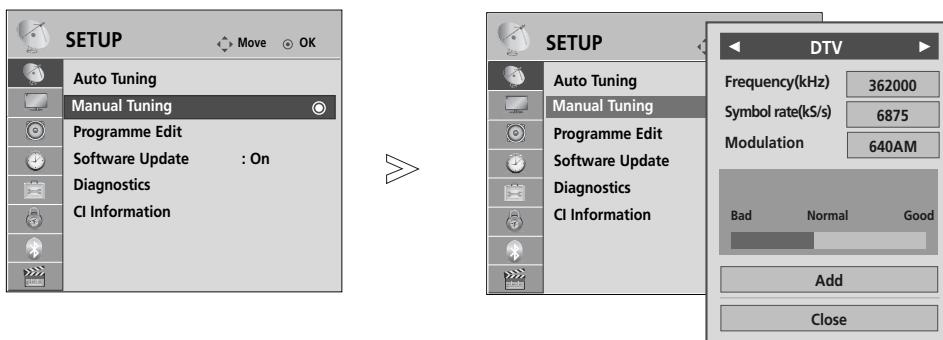
2   Select **Manual Tuning**.

3   Select **DTV**.

4   Select the desired channel number.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

(When selecting Cable (DVB cable mode) if Finland, Sweden or “--” country is chosen)



- 1 Select **SETUP**.
- 2 Select **Manual Tuning**.
- 3 Select **DTV**.
- 4 Make appropriate adjustments.

- Use NUMBER buttons to input a 4-digit password in **Lock System 'On'**.

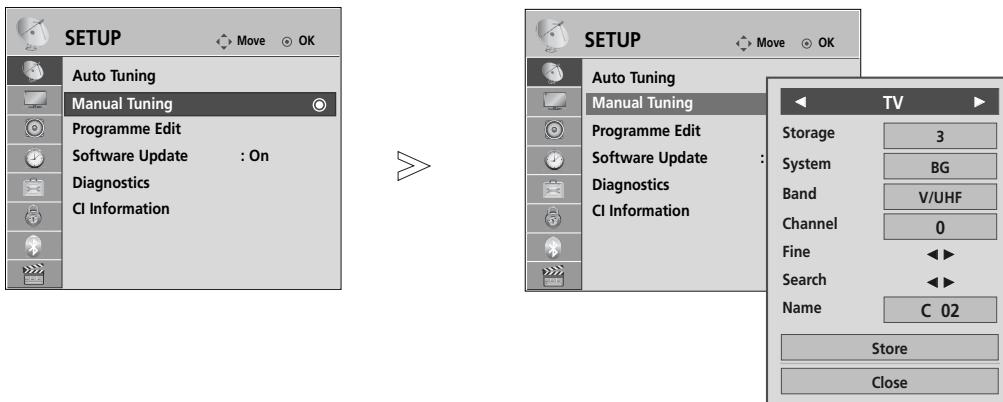
- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

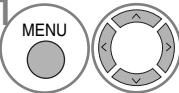
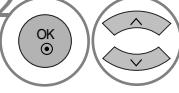
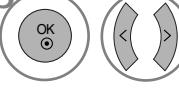
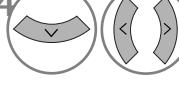
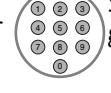
Frequency, Symbol rate, and Modulation mode are needed in order to add a programme correctly in DVB cable mode. Please inquire of the cable service provider about the correct values.

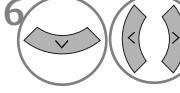
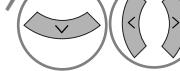
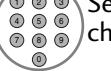
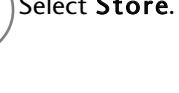
WATCHING TV / PROGRAMME CONTROL

MANUAL PROGRAMME TUNING (IN ANALOGUE MODE)

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

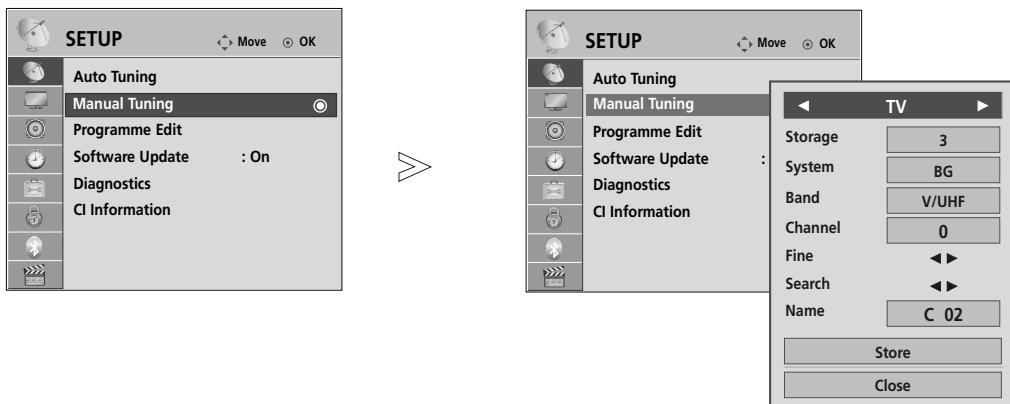


- 1  Select **SETUP**.
- 2  Select **Manual Tuning**.
- 3  Select **TV**.
- 4  or  Select the desired programme number on.
- 5  Select a TV system.

- 6   Select **V/UHF or Cable**.
- 7   or  Select the desired channel number.
- 8  Commence searching.
- 9   Select **Store**.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

- Use **NUMBER** buttons to input a 4-digit password in **Lock System 'On'**.
- **L** : SECAM L/L' (France)
BG : PAL B/G, SECAM B/G (Europe / East Europe / Asia / New Zealand / 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)
- To store another channel, repeat steps 4 to 9.



■ Assigning a station name

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

- 1 Select **SETUP**.
- 2 Select **Manual Tuning**.
- 3 Select **TV**.
- 4 Select **Name**.

- 5 Select the position and make your choice of the second character, and so on. You can use an the alphabet **A** to **Z**, the number **0** to **9**, **+/ -**, and blank.
- 6 Select **Close**.
- 7 Select **Store**.

■ Fine Tuning (Except for 32/37/42/47LH70**, 50/60PS70**, 50/60PS80**, 42/50PQ35**, 42PQ65**, 50PS65**)

Normally fine tuning is only necessary if reception is poor.

- 1 Select **SETUP**.
- 2 Select **Manual Tuning**.
- 3 Select **TV**.

- 4 Select **Fine**.
- 5 Fine tune for the best picture and sound.
- 6 Select **Store**.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

WATCHING TV / PROGRAMME CONTROL

PROGRAMME EDIT

When a programme number is skipped, it means that you will be unable to select it using **P ↑ ↓** button during TV viewing.

If you wish to select the skipped programme, directly enter the programme number with the **NUMBER** buttons or select it in the Programme edit menu.

This function enables you to skip the stored programmes.

You can change the programme number using "Move"function, if "Automatic Numbering" is unchecked when you start Auto Tuning.



1 Select **SETUP**.

2 Select **Programme Edit**.

3 Enter the **Programme Edit**.

4 Select a programme to be stored or skipped.

- Use **NUMBER** buttons to input a 4-digit password in **Lock System 'On'**.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

IN DTV/RADIO MODE

■ Skipping a programme number



1 Select a programme number to be skipped.



2 **BLUE** Turn the programme number to blue.



3 **BLUE** Release.

- When programmes are to be skipped, the skipped programme shows in blue and these programmes will not be selected by the **P** \wedge \vee buttons during TV viewing.
- If you wish to select a skipped programme, directly enter the programme number with the NUMBER buttons or select it in the programme edit or EPG.

IN TV MODE

This function enables you to delete or skip the stored programmes.
You can also move some channels and use other programme numbers.

■ Deleting a programme



1 Select a programme number to be deleted.



2 **RED** Turn the programme number to red.



RED Delete.



BLUE Release.

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

■ Moving a programme



1 Select a programme number to be moved.



2 **GREEN** Turn the programme number to green.



GREEN Release.

■ Auto Sort



1 **YELLOW** Start Auto Sort.

- After activating Auto Sort once, you can no longer edit programmes.

■ Skipping a programme number



1 Select a programme number to be skipped.



2 **BLUE** Turn the programme number to blue.



3 **BLUE** Release.

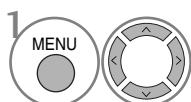
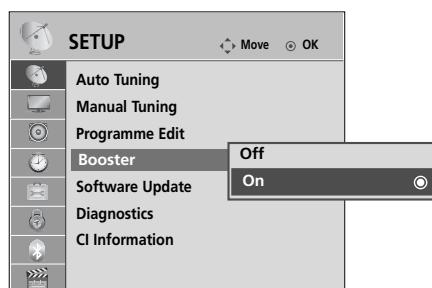
- When a programme number is skipped it means that you will be unable to select it using the **P** \wedge \vee button during normal TV viewing.
- If you wish to select a skipped programme, directly enter the programme number with the NUMBER buttons or select it in the programme edit or EPG.

WATCHING TV / PROGRAMME CONTROL

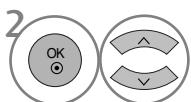
BOOSTER (IN DIGITAL MODE)

(Except for 32/37/42/47LH70**, 50/60PS70**, 50/60PS80**, 42/50PQ35**, 42PQ65**, 50PS65**)

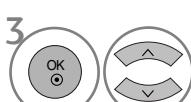
If reception is poor select Booster to On.
When the signal is strong, select "Off".



Select **SETUP**.



Select **Booster**.



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

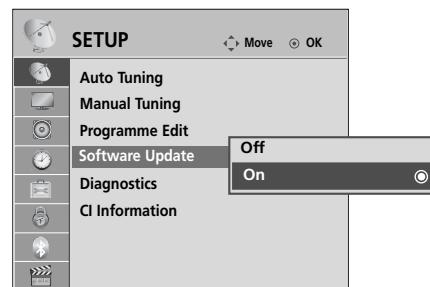


Save.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

SOFTWARE UPDATE

Software Update means software can be downloaded through the digital terrestrial broadcasting system.



- 1 Select **SETUP**.
- 2 Select **Software Update**.

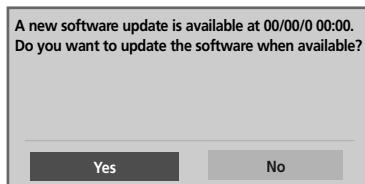
- 3 Select **On** or **Off**.
 - If you select **On**, a user confirm message box will be displayed to notify that new software is found.
- 4 Save.

* When setting "Software Update"

Occasionally, a transmission of updated digital software information will result in the following menu on the TV screen.



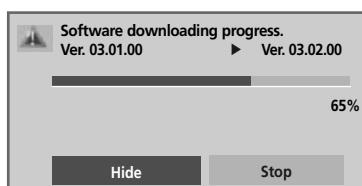
Simple Update :for current update stream



Schedule Update : for scheduled update stream

When the Software Update menu is "**Off**", the message to change it to "**On**" appears.

Select the **Yes** using the **< >** button and you will see the following picture.



After the Software Update is complete, the System restarts.

New Software is successfully installed.

When the power is turned off, downloading starts.

When the power is turned on while updating, the progress status is displayed.

- During Progress of a Software Update, please note the following:

- Power to the TV must not be interrupted.
- The TV must not be switched off.
- The antenna must not be disconnected.
- After Software Update, you can confirm the updated software version in Diagnostics menu.
- It may take hours to download the software, so make sure that the power stays on during the download.

WATCHING TV / PROGRAMME CONTROL

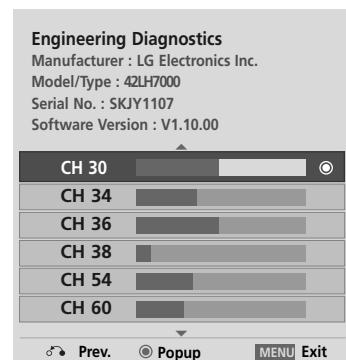
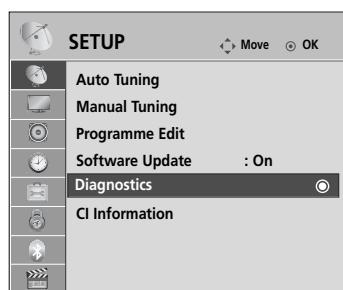
DIAGNOSTICS

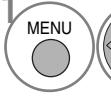
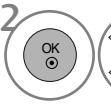
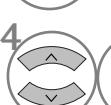
This function enables you to view information on the Manufacturer, Model/Type, Serial Number and Software Version.

This displays the information and signal strength of the tuned *MUX.

This displays the signal information and service name of the selected MUX.

(*MUX: A higher directory of channels in digital broadcasting (a single MUX contains multiple channels.))



- 1   Select **SETUP**.
- 2   Select **Diagnostics**.
- 3  Display Manufacturer, Model/Type, Serial Number and Software Version.
- 4   Display the information of Channel.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

CI [COMMON INTERFACE] INFORMATION

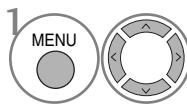
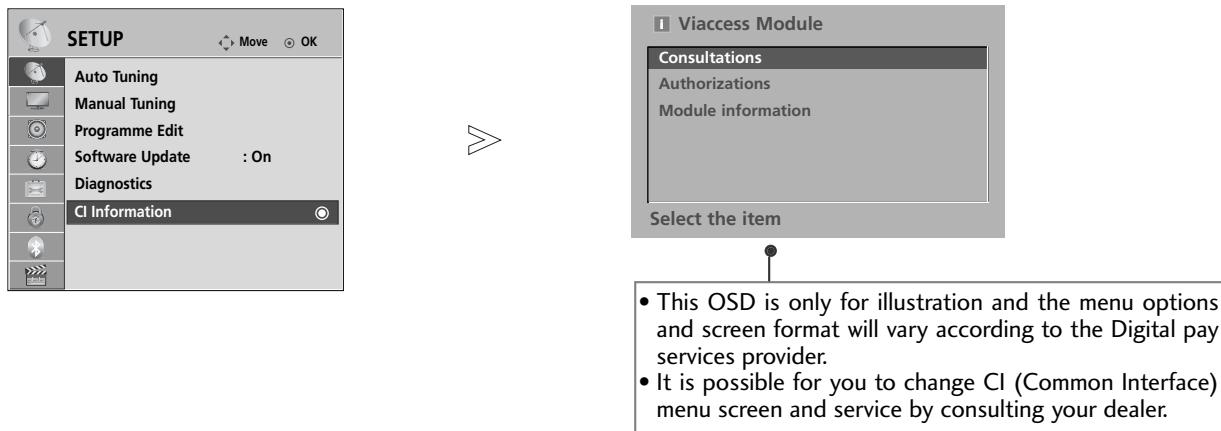
This function enables you to watch some encrypted services (pay services). If you remove the CI Module, you cannot watch pay services.

When the module is inserted into the CI slot, you can access the module menu.

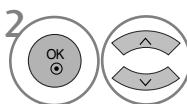
To purchase a module and smart card, contact your dealer. Do not repeatedly insert or remove a CI module from the TV. This may cause a malfunction. When the TV is turned on after inserting a CI Module, you may not have any sound output.

This may be incompatible with the CI module and smart card.

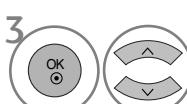
CI (Common Interface) functions may not be possible depending upon the country broadcasting circumstances.



1 Select **SETUP**.



2 Select **CI Information**.



3 Select the desired item: Module information, smart card information, language, or software download etc.



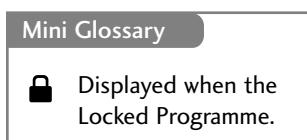
4 Save.

• Press the **RETURN** button to return to normal TV viewing.

WATCHING TV / PROGRAMME CONTROL

SELECTING THE PROGRAMME LIST

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



■ Displaying programme LIST



Display the Programme List.

- You may find some blue programmes. These have been set up to be skipped by auto programming or in the programme edit mode.
- 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



1 Select a programme.

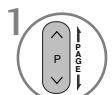


2 Switch to the chosen programme number.



The mode will be switched between TV, DTV, and Radio from the program you are currently watching.

■ Paging through a programme list



1 Turn the pages.



2 Return to normal TV viewing.

FAVOURITE PROGRAMME SETUP

■ Selecting favourite programme

Favorite programmes is a convenient feature that lets you quickly scan up to programmes of your choice without having to wait for the TV to scan through all the in-between programmes.



(Except for 19/22LU40**, 19/22/26LU50**, 32/37/42LF25**, 32/37/42LG2***, 32/37/42LG33**, 19/22/26LG31**, 19/22/26/32/37/42LH20**, 32/37/42/47LH3***, 32/42/47LF51**)

1 or Select your desired programme.

2 Select **Favourite**.



(Only 19/22LU40**, 19/22/26LU50**, 32/37/42LF25**, 32/37/42LG2***, 32/37/42LG33**, 19/22/26LG31**, 19/22/26/32/37/42LH20**, 32/37/42/47LH3***, 32/42/47LF51**)

3 Select **Favourite**.

4 Return to TV viewing.

- This will automatically include the selected programme into your favourite programme list.

■ Displaying the favourite programme list



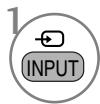
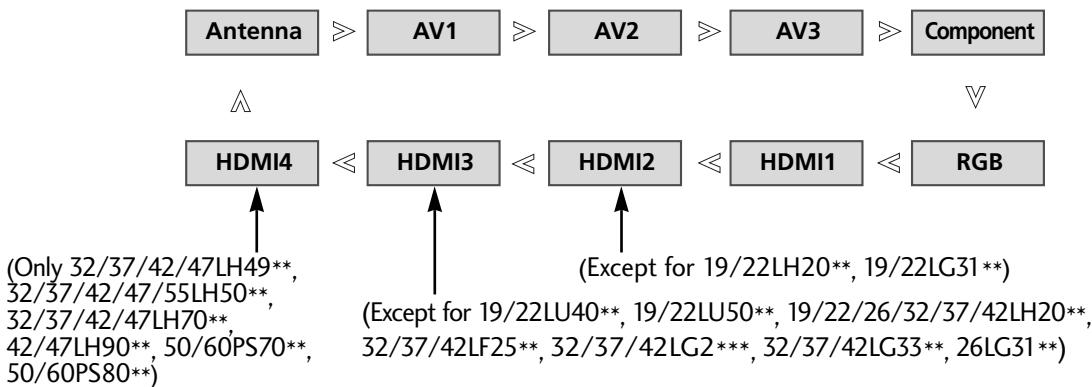
1 Display the Favourite Programme List.

WATCHING TV / PROGRAMME CONTROL

INPUT LIST

HDMI and AV1, 2 (SCART) can be recognized by a detect pin and thus enabled only when an external device approves voltage.

By using **TV/RAD** button, you can move from External Input to RF Input and to the last watched programme in DTV/RADIO/TV mode.



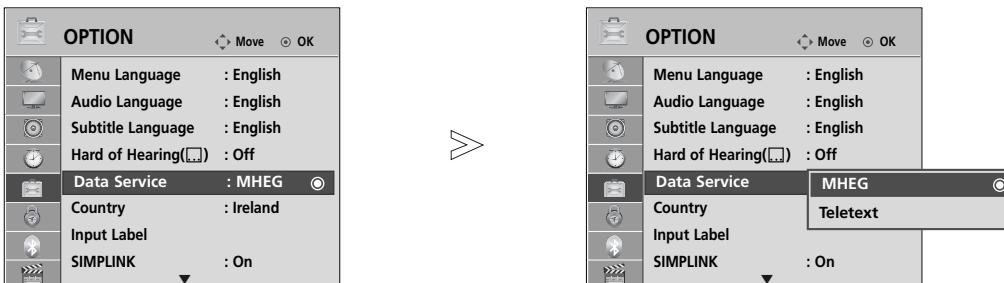
Select the input source.

- **Antenna or Cable** : Select it when watching the DTV/TV. (Digital cable input is available only at Finland, Sweden and “--” country)
- **AV1, AV2, AV3** : Select it when watching the VCR or external equipment.
- **Component** : Select it when using the DVD or the Digital set-top box depends on connector.
- **RGB** : Select it when using PC depends on connector.
- **HDMI1, HDMI2** (Except for 19/22LH20**, 19/22LG31**), **HDMI3** (Except for 19/22LU40**, 19/22LU50**, 19/22/26/32/37/42LH20**, 32/37/42LF25**, 32/37/42LG2***, 32/37/42LG33**, 26LG31**), **HDMI4** (Only 32/37/42/47LH49**, 32/37/42/47/55LH50**, 32/37/42/47LH70**, 42/47LH90**, 50/60PS70**, 50/60PS80**) : Select it when using DVD, PC or Digital set-top box depend on connector.

DATA SERVICE

(This menu is enabled only in Ireland.)

This function allow users to choose between **MHEG(Digital Teletext)** and **Teletext** if both exist at the same time.
If only one of them exists, either **MHEG** or **Teletext** is enabled regardless of which option you selected.



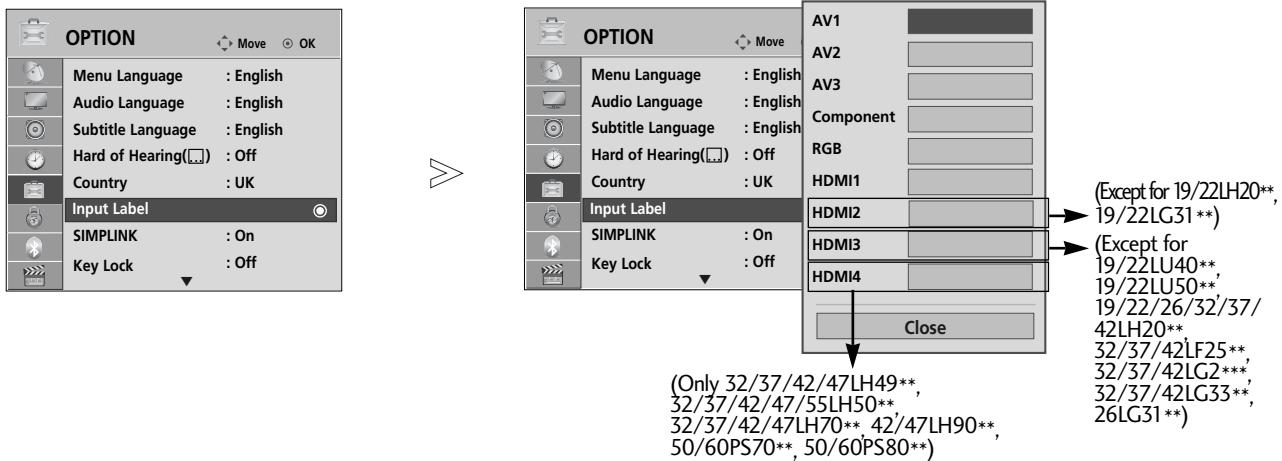
- 1 Select **OPTION**.
- 2 Select **Data Service**.

- 3 Select **MHEG** or **Teletext**.
- 4 Save.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

INPUT LABEL

Selects a label for each input source.



- 1 Select **OPTION**.
- 2 Select **Input Label**.

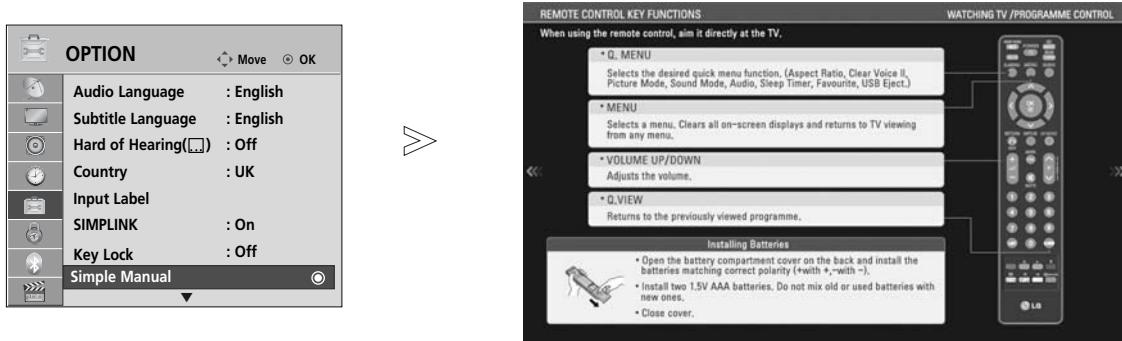
- 3 Select the source.
- 4 Select the label.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

WATCHING TV / PROGRAMME CONTROL

SIMPLE MANUAL

You can easily and effectively access the TV information by viewing a simple manual on the TV. During the Simple Manual operation, audio will be muted.



OPTION

Move OK

Audio Language : English
Subtitle Language : English
Hard of Hearing(□) : Off
Country : UK
Input Label
SIMPLINK : On
Key Lock : Off
Simple Manual

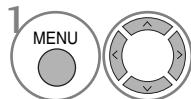
REMOTE CONTROL KEY FUNCTIONS

When using the remote control, aim it directly at the TV.

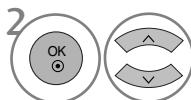
- Q. MENU
- MENU
- VOLUME UP/DOWN
- Q.VIEW

Installing Batteries

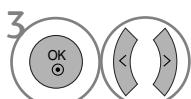
- Open the battery compartment cover on the back and install the batteries matching correct polarity (+with +, -with -).
- Install two 1.5V AAA batteries. Do not mix old or used batteries with new ones.
- Close cover.



1 Select OPTION.



2 Select Simple Manual.



3 Select the part of the manual you want to see.

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



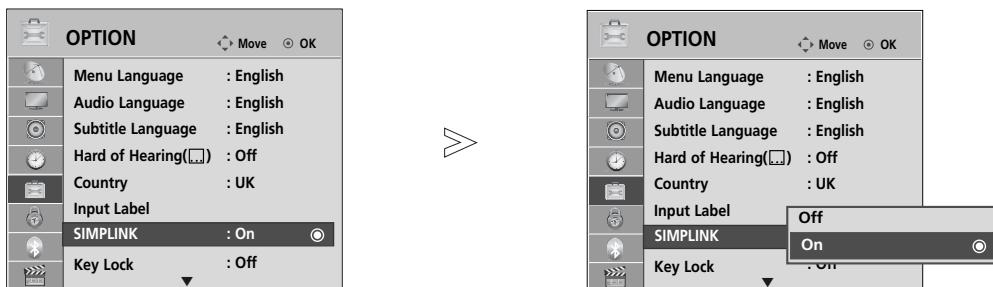
This function operates only with devices with the SIMPLINK logo.

Please check the SIMPLINK logo.

This TV 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 want SIMPLINK menu, select "Off".



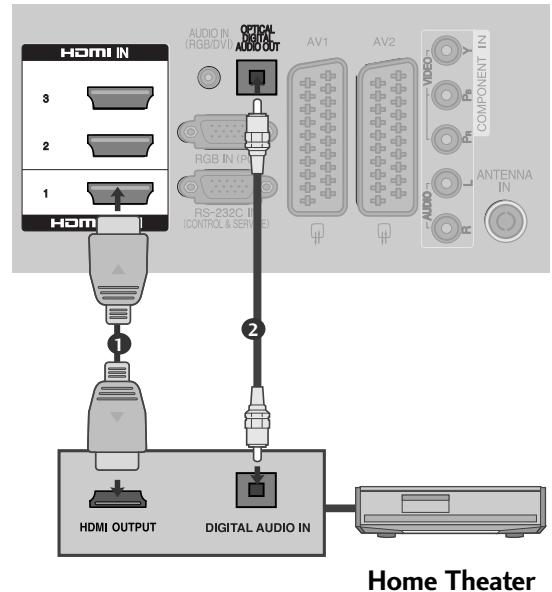
- 1 Select **OPTION**.
- 2 Select **SIMPLINK**.
- 3 Select **On** or **Off**.
- 4 Save.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

WATCHING TV / PROGRAMME CONTROL

Connecting to Home Theater with the SIMPLINK logo.

- 1 Connect the **HDMI/DVI IN 1**, **HDMI IN 2**(Except for 19/22LH20**, 19/22LG31**), **HDMI IN 3** (Except for 19/22LU40**, 19/22LU50**, 19/22/26/32/37/42LH20**, 32/37/42LF25**, 32/37/42LG2***, 32/37/42LG33**, 26LG31**) or **HDMI IN 4** (Only 32/37/42/47LH49**, 32/37/42/47/55LH50**, 32/37/42/47LH70**, 42/47LH90**, 50/60PS70**, 50/60PS80**) terminal on the back of the TV and the HDMI output terminal of the Home Theater using HDMI cables.
- 2 Connect the Digital Audio output terminal on the back of the TV and the Digital Audio input terminal of the Home Theater using optical cables.
- 3 Select Home Theater in the Speaker menu by pushing the **SIMPLINK** button.



Home Theater

► When you select or operate a media device with home theater function, the speaker automatically switches to home theater speaker (HT speaker).

! NOTE

- Connect the HDMI/DVI IN or HDMI IN terminal of the TV to the terminal (HDMI terminal) of the SIMPLINK device with the HDMI cable.
- 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.

SIMPLINK Functions

Disc playback

Control connected AV devices by pressing the \wedge \vee $<$ $>$, OK, \blacktriangleright , \blacksquare , II , \blacktriangleleft and $\blacktriangleright\blacktriangleleft$ buttons.

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

When the equipment with Simplink function connected HDMI terminal starts to play, The TV will change automatically to turn on mode.

* A device, which is connected to the TV through an HDMI cable but does not support SIMPLINK, does not provide this function.

Note: To operate SIMPLINK, an HDMI cable over Version 1.3 with *CEC function should be used. (*CEC: Consumer Electronics Control).

SIMPLINK Menu

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

① **TV viewing** : Switch to the previous TV programme regardless of the current mode.

② **DISC playback** : Select and play connected discs.

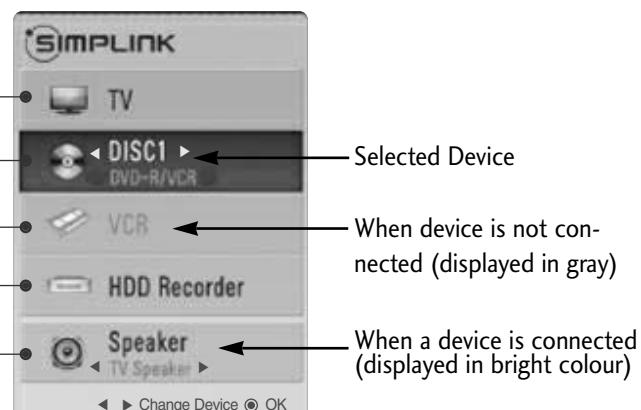
When multiple discs are available, the titles of discs are conveniently displayed at the bottom of the screen.

③ **VCR playback** : Play and control the connected VCR.

④ **HDD Recordings playback** : Play and control recordings stored in HDD.

⑤ **Audio Out to Home theater/Audio Out to TV:**

Select Home theater or TV speaker for Audio Out.



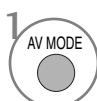
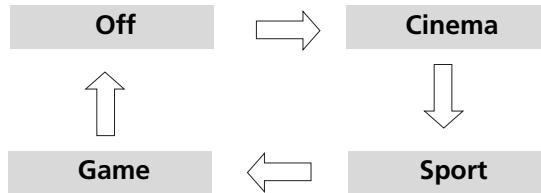
- Home theater: Only one supported at a time
- DVD, Recorder: Up to one(19/22LH20**, 19/22LG31**), two(19/22LU40**, 19/22LU50**, 26/32/37/42LH20**, 32/37/42LF25**, 32/37/42LG2***, 32/37/42LG33**, 26LG31**), three(32/37/42/47LH3***, 32/37/42/47LH40**, 26LU50**, 32/42/47LF51**, 42/50PQ35**, 42PQ65**, 50PS65**) or four(32/37/42/47LH49**, 32/37/42/47/55LH50**, 32/37/42/47LH70**, 42/47LH90**, 50/60PS70**, 50/60PS80**) supported at a time.
- VCR: Only one supported at a time

WATCHING TV / PROGRAMME CONTROL

AV MODE

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

- Off** Disables the AV MODE.
- Cinema** Optimizes video and audio for watching movies.
- Sport** Optimizes video and audio for watching sports events.
- Game** Optimizes video and audio for playing games.



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



- If you select **Cinema** in AV mode, **Cinema** 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.

INITIALIZING (RESET TO ORIGINAL FACTORY SETTINGS)

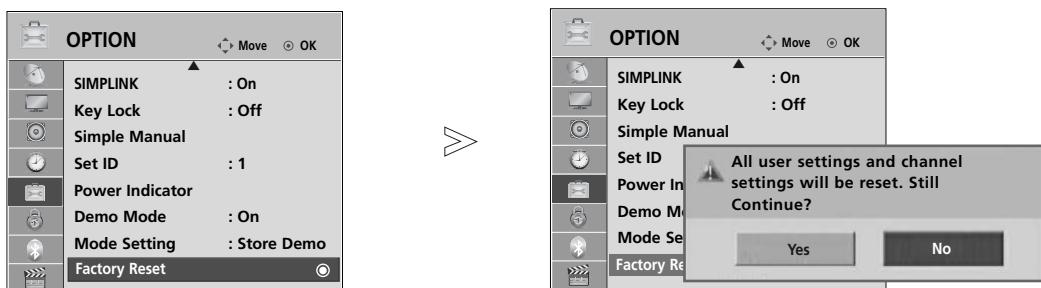
This function initializes all settings.

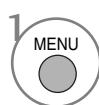
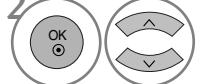
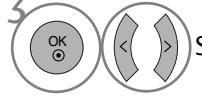
But the settings of **Day** and **Night** of the **Picture Mode** cannot be initialized.

It is useful to initialize the product or when you move to other city or country.

When the Factory Reset is completed, you must restart the Initializing setup.

When the **Lock System** menu is "On", the message to enter the password appears.



- 1   Select **OPTION**.
- 2  Select **Factory Reset**.
- 3  Select **Yes**.
- 4  Start Factory Reset.

- In **Lock System** "On", if you forget your password, press '7', '7', '7', '7' on the remote control handset.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

TO USE THE BLUETOOTH

(Only 32/37/42/47LH70**, 42/47LH90**, 50/60PS70**, 50/60PS80**)

Bluetooth?

Bluetooth is a short distance networking technology using 2.4 GHz frequency to connect various types of information devices such as computers, cell phones and PDAs, as well as digital appliances through wireless connection, without having to connect any cable, to enable data exchange.

With the Bluetooth communication function, you can connect the Bluetooth enabled wireless headset or receive images(only JPEG), listen to music from the Bluetooth enabled cell phone using this TV.

- Communication Spec.: Bluetooth Specification Version 2.0 + EDR (Enhanced Data Rate)
- Output: Bluetooth Specification Power Class 2
- Maximum Communication Range: Line of open sight approx. 10 m (30 ft)
- Frequency Band: 2.4 GHz band (2.4 GHz ~ 2.4835 GHz)
- Bluetooth Module: EAX57538201 (LG Electronics)
- Compatible Bluetooth Profile : GAVDP(Generic Audio/Video Distribution Profile)
A2DP(Advanced Audio Distribution Profile)
HSP(Headset Profile)
OPP(Object Push Profile)
BIP(Basic Imaging Profile)
FTP(File Transfer Profile)

CE0678

Precautions when using the Bluetooth

- ▶ Use within 10m(-45° ~ 45°) range.
If you use the device out of the range or within the range with obstacles, it can result in communication error.
- ▶ Communication error can occur depending on the surrounding devices.
- ▶ Products using the same frequency of 2.4 GHz (Wireless LAN, microwave oven etc.), can cause communication error by using the same frequency bandwidth.
- ▶ The device search time differs depending on the number of Bluetooth devices and the operating situation.
- ▶ The probability of search increases with less number of devices.
- ▶ Electromagnetic wave can be interfered with applicable wireless devices.
- ▶ Because applicable wireless devices have the possibility of electromagnetic wave interference, they cannot provide services related to human life.
- ▶ You can only connect one Bluetooth device at a time.
- ▶ You cannot receive photos(only JPEG) or listen to music from other Bluetooth devices while using the Bluetooth headset.
- ▶ For details of Bluetooth, refer to the user manual of the Bluetooth device.
- ▶ USB (Photo List, Music List, Movie List(Only 32/37/42/47LH49**, 32/37/42/47/55LH50**, 32/37/42/47LH70**, 42/47LH90**, 50/60PS70**, 50/60PS80**, 42/50PQ35**, 42PQ65**, 50PS65**)) and Bluetooth will not be supported at the same time.
- ▶ Operation is subject to the following two conditions : (1) This device may not cause (harmful) interference, and (2) this device must accept any interference received, including interference that may cause undesired operation (of the device).

QDID(Qualified Design Identity) : B014836

SETTING THE BLUETOOTH

If you want to listen to the broadcasted sound using the Bluetooth headset or receive the jpeg images from an external device and view them on the TV, listen to music from cell phone(Bluetooth device), you can use the wireless communication without having to connect any cables.

You can use the BLUETOOTH menu by selecting “On”.

If you do not want to use the Bluetooth function, select “Off”.

If it is connected to the external Bluetooth device, you can select “Off” after disconnecting the device.



- 1   Select **BLUETOOTH**.
- 2   Select **Bluetooth**.
- 3   Select **On** or **Off**.
- 4  Save.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

TO USE THE BLUETOOTH

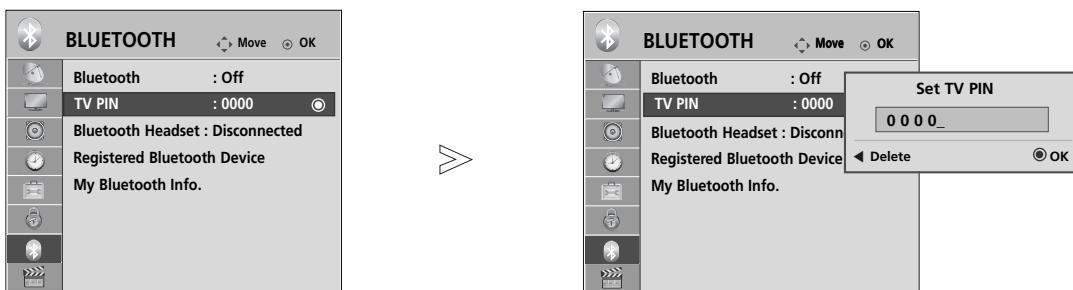
SET TV PIN

To accept connection from an external Bluetooth device or to connect to an external Bluetooth device, the PIN needs to be entered.

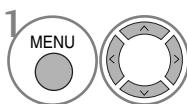
For details on how to set the PIN of the external Bluetooth device, refer to the user manual of the applicable device.

The TV PIN is composed of numbers of up to 10 digits.

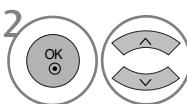
The TV PIN must have more than 1 digit.



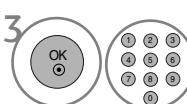
TO USE THE BLUETOOTH



Select **BLUETOOTH**.



Select **TV PIN**.



Select the desired PIN number.



- Press the < button to delete digits one by one.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

BLUETOOTH HEADSET

When you select the Bluetooth headset, you can listen to the TV sound in the Bluetooth headset through wireless communication.

You must pair it with any new Bluetooth device before the first use. For details, refer to the user manual of the applicable device. A maximum of 12 devices can be paired.

When the unit is searching for the Bluetooth headset, other buttons except for the "Stop" (OK button) do not work.

Connecting a new Bluetooth headset

You can only search for the new Bluetooth headset only in the **Disconnected** condition.

When you run the search, it will show you the list of all Bluetooth headsets responding.

After new Bluetooth device is searched, the PIN number is validated to connect the device. For details, refer to the user manual of the applicable device.

When selecting Cable (DVB cable mode) if Finland, Sweden or "--" country is chosen, you cannot hear stereo sound through the Bluetooth headset.

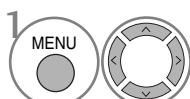
*When selecting Cable (DVB cable mode) if Finland, Sweden or "--" country is chosen.

1. A Bluetooth headset is disconnected if there is any.

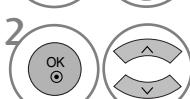
2. All headset device lists are deleted.

3. Bluetooth mode is turned off.

4. When trying to connect with a stereo-only headset, "Invalid format" will be displayed.



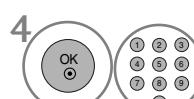
Select **BLUETOOTH**.



Select **Bluetooth Headset**.



Search the Bluetooth headset.



Select Bluetooth headset PIN number.
Refer to the user manual of the applicable device for the PIN number.



Connect the Bluetooth headset.

Connecting to Bluetooth headset already registered

Bluetooth headsets are listed in the order most recently used with the headset currently in use listed at the top.

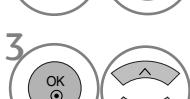
When connecting to the Bluetooth device already registered, you can select and connect directly without any PIN validation.



Select **BLUETOOTH**.



Select **Bluetooth Headset**.



Select the desired Bluetooth headset.



Message asking to connect the selected Bluetooth headset will be displayed.
Select **Yes** or **No**.

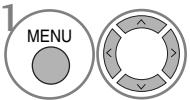
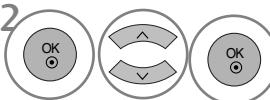


Connect the Bluetooth headset.

- After connecting/using the Bluetooth headset, the headset setting will be the **Disconnected** condition automatically when you turn off the power of the TV and then turn on.
- After connecting the Bluetooth headset, the TV speaker is switched to Mute condition and the sound will only be generated from the headset.

TO USE THE BLUETOOTH

Disconnecting the Bluetooth headset during use

- 1  Select **BLUETOOTH**.
- 2  Select **Bluetooth Headset**.
- 3  Disconnect the Bluetooth headset.

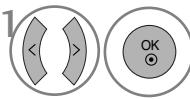
When requesting to connect to TV from the Bluetooth headset

When the Bluetooth menu is "On" and there is a connection request from the headset, this message is displayed.

Not all headsets support this feature.(Refer to the user manual of the applicable Bluetooth headset.)

Some headset types may make an attempt at connection when they are turned off/on even though they are not included in the Registered Device list.



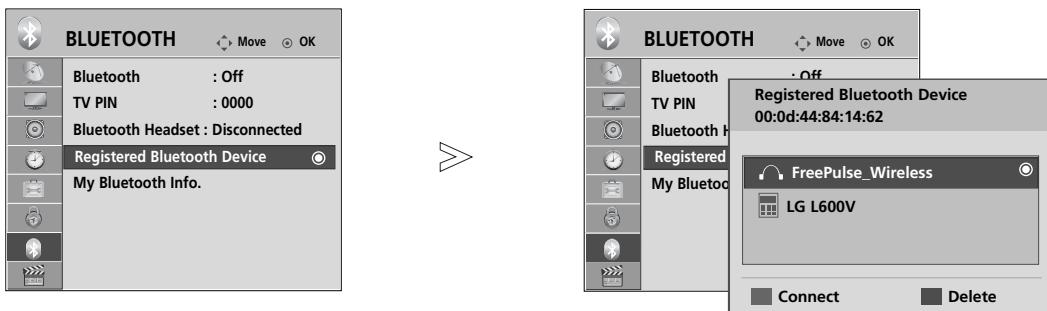
- 1  Select **Yes** or **No**.

! NOTE

- ▶ LG recommends the following headset models.
 - Mono/Stereo : Nokia : BH501 / Jabra : BT620s / Sony : DR-BT30Q / Philips : SHB7100 / Plantronics : Pulsar590 / Motorola : HT820 / Motorola : S9 / LG : HBS200
 - Only Stereo : Logitech : Freepulse-wireless
 - Only Mono : Motorola : H800 / Jabra : BT250v / Jabra : BT2040 / Plantronics : Discovery665 / Nokia : BH-900 / Sony Ericsson : HBH-GV435 / Samsung : WEP500 / LG: Prada HBM-510
- ▶ There might be an audio delay, depending on the buffer memory size of the headset.
- ▶ The stereo/mono headset officially certified to be Bluetooth compatible can be searched and connected.
- ▶ The stereo/mono headset that supports the A2DP or HSP function among the Bluetooth devices can be connected.
- ▶ If the surrounding environment of the TV is as follows, the device may not be searched or connected properly.
 - If there is strong electromagnetic wave.
 - If there are many Bluetooth devices.
 - If the headset is turned off, not in place or has an error.
 - Because products such as microwave oven, wireless LAN, plasma light, gas range etc., use the same frequency range, it can cause communication error.
- ▶ Only one Bluetooth headset can be connected at once.
- ▶ Connection that is lost due to the TV being turned off etc. will not be automatically recovered. Try connecting the applicable device again.
- ▶ Some operations can be slower while operating the headset.
- ▶ Even if you choose simplink Home Theater after using the headset during Simplink operation, the unit will not automatically switch to Home Theater speakers.
- ▶ When the headset connection continuously fails, pair the device one more time.
- ▶ The audio quality of mono headsets will not be as good as that for stereo headsets.
- ▶ Mono headsets may suffer from noise as the distance from the TV increases, because they use a different transmission method compared with stereo headsets.
- ▶ When a Bluetooth headset is in use, the Volume +/- and Mute keys do not work, and the Audio menu returns to the default value and is disabled.
- ▶ With Bluetooth set to On, if any registered devices are turned on, the TV will switch to Bluetooth mode automatically even though you are watching in another input mode. In this case, set Bluetooth to Off.

MANAGING REGISTERED BLUETOOTH DEVICE

If there are no devices registered, Registered Bluetooth Device menu will be deactivated and cannot be used. When 12 devices are registered, you cannot register any more devices, and the external device will no longer be able to pair up with the TV. In this case, you should delete one (disconnect first if a device is connected to the TV) and then you can register another device.



- 1 Select **BLUETOOTH**.
- 2 Select **Registered Bluetooth Device**.
- 3 Check the registered Bluetooth device.

■ Connecting the registered Bluetooth headset

- 1 Select the registered Bluetooth headset you want to connect.
- 2 **BLUE** Message asking to connect the selected Bluetooth headset will be displayed.
- 3 Select **Yes** or **No**.

■ Deleting registered Bluetooth device

"Delete" will be available when selecting the device that is not connected to the TV.

- 1 Select the Bluetooth device you want to remove.
- 2 **RED** Message asking to delete the selected Bluetooth device will be displayed.
- 3 Select **Yes** or **No**.

■ Disconnecting registered Bluetooth device

"Disconnect" will be available when selecting the device that is connected to the TV.

- 1 Select the Bluetooth device that is currently connected to the TV.
- 2 **BLUE** Disconnect the Bluetooth device.

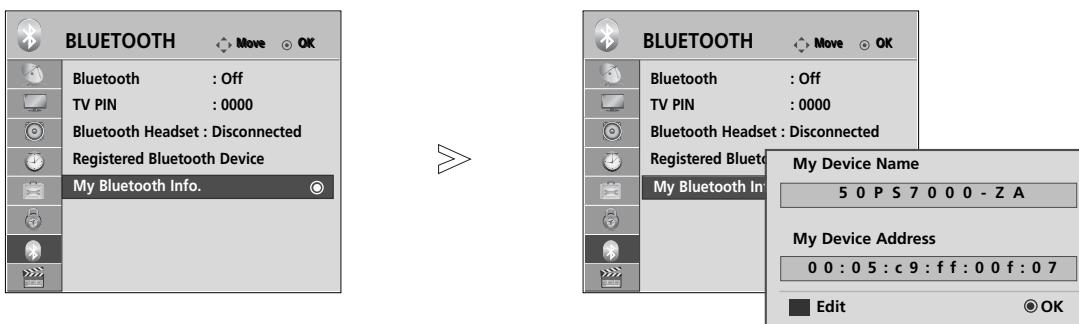
TO USE THE BLUETOOTH

MY BLUETOOTH INFORMATION

This function provides the My Bluetooth Information to the user.
"Edit" will be available when TV is not connected with any device.

You can edit the My Device Name.

You can check the My Device Address.



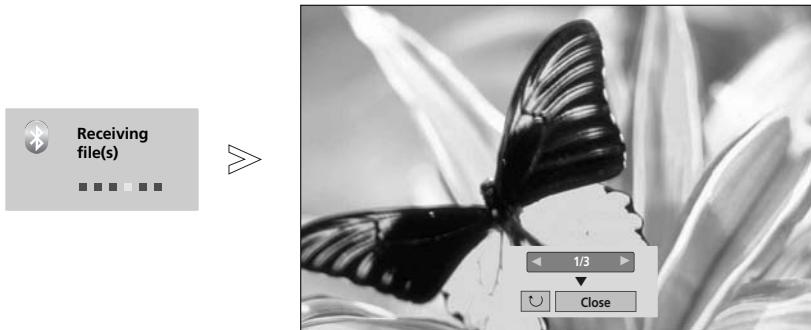
TO USE THE BLUETOOTH

- 1 Select **BLUETOOTH**.
- 2 Select **My Bluetooth Info..**
- 3 You can use an the alphabet **A** to **Z**, the number **0** to **9**, **+/ -**, and blank.
- 4 Save.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

RECEIVING PHOTOS FROM EXTERNAL BLUETOOTH DEVICE

For details on how to send photos(only JPEG) from the external Bluetooth device to TV, refer to the user manual of the applicable device.



- When you select **Close** with the $\wedge \vee < >$ button, the OSD will disappear. And when you press the OK button again, it will appear again.



Select the desired photos.

(Rotate) : Rotate photos.

- Rotates the photo 90° clockwise upon **OK** button on **(Rotate)**.

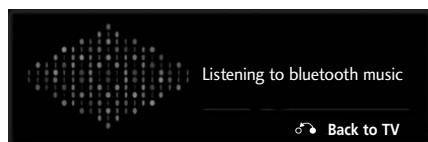
- The maximum accumulated size of the image(s) that can be received is 10MBytes.
- You cannot receive the image(s) while using the Bluetooth headset.
- You cannot receive the image(s) while listening to music from Bluetooth device.
- When the external Bluetooth device is currently sending the photo, press the **RETURN** button to stop receiving the photo. All photos already received will be deleted as a result.
- With some Bluetooth devices, you may not be able to transmit an image (JPEG) file to the TV set.

LISTENING TO THE MUSICS FROM EXTERNAL BLUETOOTH DEVICE

For details on how to listen to the musics from the external Bluetooth device to TV, refer to the user manual of the applicable device.

You should use the Bluetooth device supporting A2DP(as external device)

- With some Bluetooth devices, you may not be able to listen to music via the TV speaker system.



- Press the $\triangle +$ or $-$ button to adjust the volume.
- If you wish to switch the sound off, press the MUTE button.
- Press the **RETURN** button to return to normal TV viewing.

! NOTE

- ▶ You cannot listen to music while using the Bluetooth headset.
- ▶ You cannot listen to music while receiving image(s).

TO USE A USB DEVICE

► It is not possible to use USB function in 19/22LU40**, 19/22/26LU50**, 32/37/42LF25**, 32/37/42LG2***, 32/37/42LG33**, 19/22/26LG31**, 19/22/26/32/37/42LH20**, 32/37/42/47LH3***, 32/42/47LF51** models.

When connecting a USB device

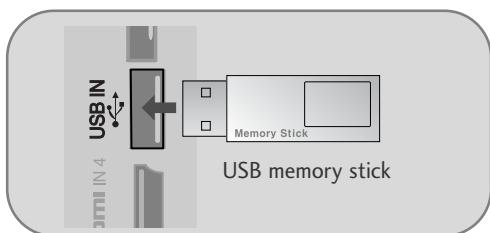
When you connect a USB device, this pop up menu is displayed, automatically.

“POP UP MENU” will not be displayed while the OSD including Menu, EPG or Schedule list is activated or while the Bluetooth Headset is connected.

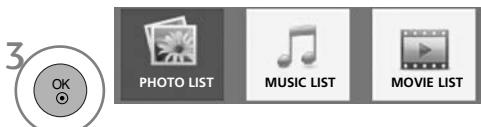
When the Pop Up menu does not appear, you can select Music List, Photo List or Movie List(Only 32/37/42/47LH49**, 32/37/42/47/55LH50**, 32/37/42/47LH70**, 42/47LH90**, 50/60PS70**, 50/60PS80**, 42/50PQ35**, 42PQ65**, 50PS65**) in the USB menu.

In USB device, you can not add a new folder or delete the existing folder.

- 1 Connect the USB device to the **USB IN** jack on the TV.



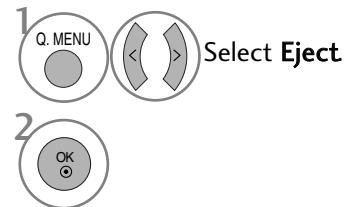
- 2 Select **PHOTO LIST**, **MUSIC LIST** or **MOVIE LIST**(Only 32/37/42/47LH49**, 32/37/42/47/55LH50**, 32/37/42/47LH70**, 42/47LH90**, 50/60PS70**, 50/60PS80**, 42/50PQ35**, 42PQ65**, 50PS65**).



- Only photo(JPEG), music (MP3) and movie(DAT, MPG, MPEG, VOB, AVI, DIVX, MP4, MKV, TS, TRP, TP) (Only 32/37/42/47LH49**, 32/37/42/47/55LH50**, 32/37/42/47LH70**, 42/47LH90**, 50/60PS70**, 50/60PS80**, 42/50PQ35**, 42PQ65**, 50PS65**) are supported.

When removing the USB device

Select the USB Device menu before removing the USB device.



Precautions when using the USB device

- Only a USB storage device is recognizable.
- If the USB storage device is connected through a USB hub, the device is not recognizable.
- A USB storage device using an automatic recognition programme may not be recognized.
- A USB storage device which uses its own driver may not be recognized.
- The recognition speed of a USB storage device may depend on each device.
- Please do not turn off the TV or unplug the USB device when the connected USB storage device is working. When such device is suddenly separated or unplugged, the stored files or the USB storage device may be damaged.
- Please do not connect the USB storage device which was artificially maneuvered on the PC. The device may cause the product to malfunction or fail to be played. Never forget to use only a USB storage device which has normal music files, image files or movie files.
- Please use only a USB storage device which was formatted as a FAT32 file system, NTFS file system provided with the Windows operating system. In case of a storage device formatted as a different utility programme which is not supported by Windows, it may not be recognized.
- Please connect power to a USB storage device(over 0.5A) which requires an external power supply. If not, the device may not be recognized.
- Please connect a USB storage device with the cable offered by the device maker.
- Some USB storage devices may not be supported or operated smoothly.
- File alignment method of USB storage device is similar to Window XP and filename can recognize up to 100 English characters.
- Be sure to back up important files since data stored in a USB memory device may be damaged. We will not be responsible for any data loss.
- If the USB HDD does not have an external power source, the USB device may not be detected. So be sure to connect the external power source.
 - Please use a power adaptor for an external power source. We do not guarantee an USB cable for an external power source.
- Data in a USB storage device cannot be deleted in the NTFS file system.
- If your USB memory device has multiple partitions, or if you use a USB multi-card reader, you can use up to 4 partitions or USB memory devices.
- Only the FAT32 file system supports the delete function.
- If a USB memory device is connected to a USB multi-card reader, its volume data may not be detected.
- If the USB memory device does not work properly, disconnect and reconnect it.
- How fast a USB memory device is detected differs from device to device.
- If the USB is connected in Standby Mode, specific hard disk will automatically be loaded when the TV is turned on.
- The recommended capacity is 1TB or less for a USB external hard disk and 32GB or less for USB memory.
- Any device with more than the recommended capacity may not work properly.
- If a USB external hard disk with a “Energy Saving” function does not work, turn the hard disk off and on again to make it work properly.
- USB storage devices below USB 2.0 are supported as well. But they may not work properly in the movie list.

! NOTE

- Image shown may differ from your TV.
- In order to avoid losing the USB memory stick, use the USB connector(sold separately) to fix the USB memory stick to the USB connector holder of the TV. (Plasma TV only)

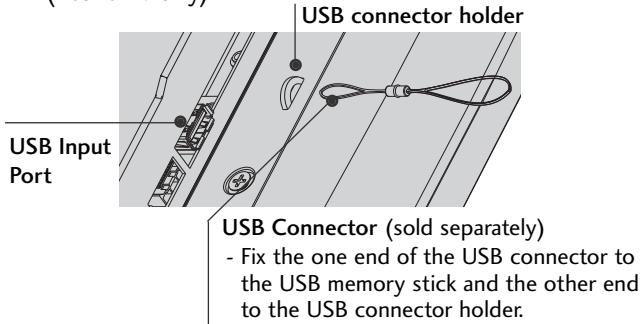


PHOTO LIST

You can view photo files on USB storage device.

The On Screen Display may be different from your TV. Images are an example to assist with the TV operation. When you are watching the photo by the Photo List function, you can not change the picture mode.

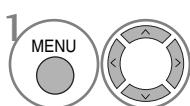
PHOTO(*.JPEG) supporting file

Baseline : 64 x 64 ~ 15360 x 8640

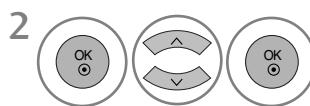
Progressive : 64 x 64 ~ 1920 x 1440

- You can play JPEG files only.
- Non-supported files are displayed in the form of predefined icon.

Screen Components

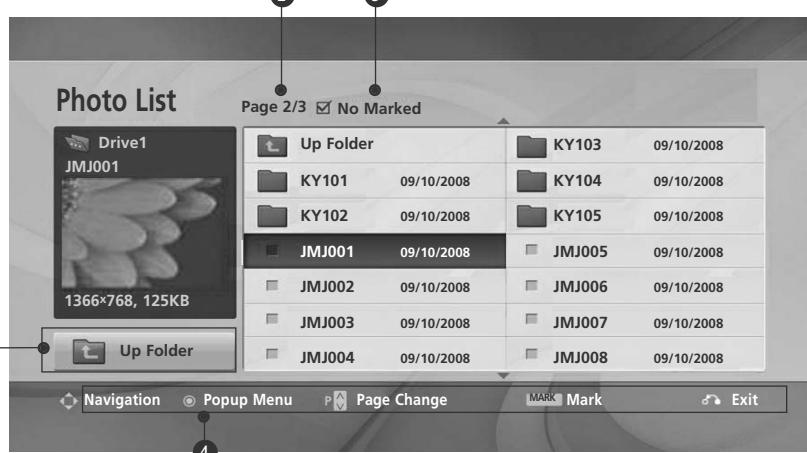


Select USB.



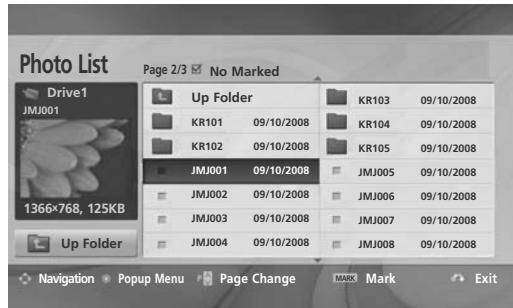
Select Photo List.

- ① Moves to upper level folder
- ② Current page/Total pages
- ③ Total number of marked photos
- ④ Corresponding buttons on the remote control

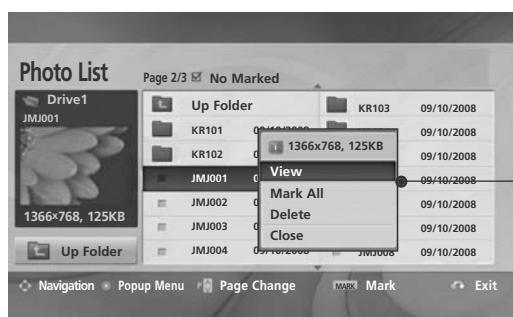


TO USE A USB DEVICE

Photo Selection and PopUp Menu



V



- ▶ **View** : Display the selected item.
- ▶ **Mark All** : Mark all photos on the screen.
- ▶ **Unmark All** : Deselect all marked photos.
- ▶ **Delete or Delete Marked**(FAT32 file system only)
: Delete the selected photo item.
- ▶ **Close** : Close the pop-up menu.

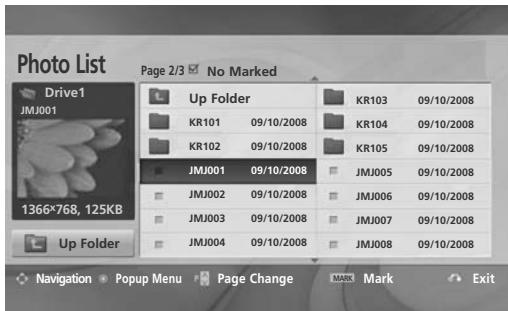
- 1 Select the target folder or drive.
- 2 Select the desired photos.
- 3 Show the PopUp menu.
- 4 Select the desired PopUp menu.

- Use the **P** button to navigation in the photo page.
- Use the **MARK** button to mark or unmark a photo. When one or more photos are marked, you can view each marked photo or a slide show of the marked photos. If no photos are marked, you can view every individual photo in the folder or a slide show of all photos in the folder.

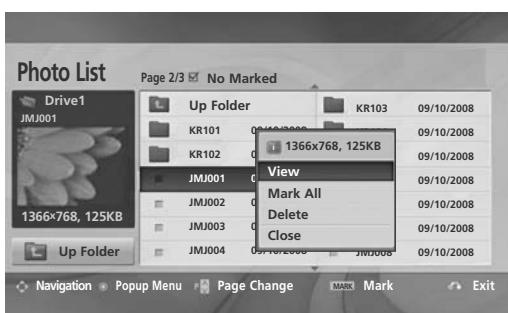
- Press the **RETURN** button to return to normal TV viewing.

How to view photo

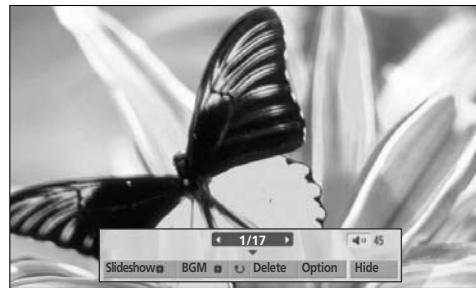
Detailed operations are available on full-sized photo view screen.



V



A



The aspect ratio of a photo may change the size of the photo displayed on the screen in full size.

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

1 Select the target folder or drive.

- Use the **P** button to navigation in the photo page.

2 Select the desired photos.

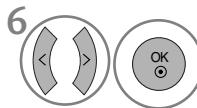
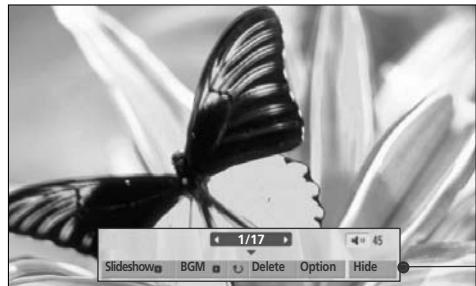
3 Show the PopUp menu.

4 Select **View**.

5 The selected photo is displayed in full size.

TO USE A USB DEVICE

TO USE A USB DEVICE



Select the **Slideshow** , **BGM** , **↻ (Rotate)** , **Delete** , **Option** or **Hide**.

- Use < > button to select the previous or next photo.
- Use < > button to select and control the menu on the full-sized screen.

► **Slideshow** : When no picture is selected, all photos in the current folder are displayed during slide show. If some photos are selected, those photos are displayed in a slide show.

- Set the time interval of the slide show in **Option**.

► **BGM** (Background Music) : Listen to music while viewing photos in full size.

- Set the Music Folder for BGM in Options before using this function.

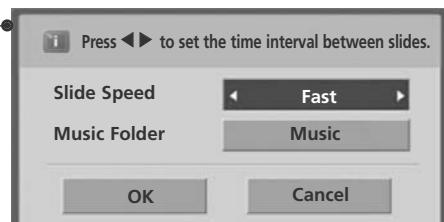
► **↻ (Rotate)** : Rotate photos.

- Rotates the photo 90°, 180°, 270°, 360° clockwise.
- It can not be rotate when the width of a picture is bigger than supported height.

► **Delete(FAT32 file system only)** : Delete photos.

► **Option** : Set values for **Slide Speed** and **Music Folder** for **BGM**.

- Use ▲ ▼ < > button and **OK** button to set values. Then go to **OK** and press **OK** to save the settings.
- You cannot change **Music Folder** while BGM is playing.



► **Hide** : Hide the menu on the full-sized screen.

- To see the menu again on the full-sized screen, press **OK** button to display.

MUSIC LIST

You can play music files on USB storage device.

Purchased music files (*.MP3) may contain copyright restrictions. Playback of these files may not be supported by this model.

Music file on your USB device can be played by this unit.

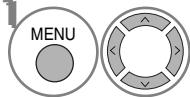
The On Screen Display may be different from your TV. Images are an example to assist with the TV operation.

MUSIC (*.MP3) supporting file

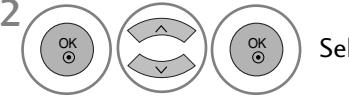
Bit rate 32 ~ 320

- Sampling rate MPEG1 Layer3 : 32kHz, 44.1kHz, 48kHz
- Sampling rate MPEG2 Layer3 : 16kHz, 22.05kHz, 24kHz
- Sampling rate MPEG2.5 Layer3 : 8kHz, 11.025kHz, 12kHz

Screen Components



1
Select USB.



2
Select Music List

① Preview: If any album jacket for the file(Album Art Image) exists, this jacket is displayed.

② Moves to upper level folder

③ Current page/Total pages

④ Total number of marked music title

⑤ Corresponding buttons on the remote control



1
2
3
4
5

Music List

Page 2/3 No Marked

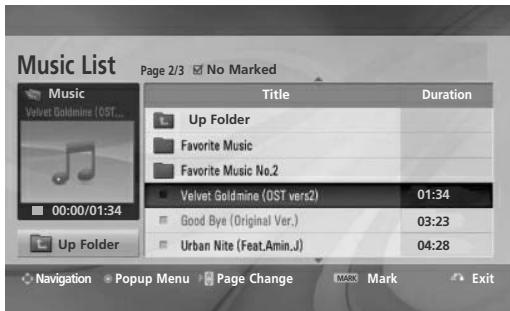
Title	Duration
Up Folder	
Favorite Music	
Favorite Music No.2	
Velvet Goldmine (OST vers2)	01:34
Good Bye (Original Ver.)	03:23
Urban Nite (Feat.Amin.J)	04:28

Navigation Popup Menu Page Change MARK Mark Exit

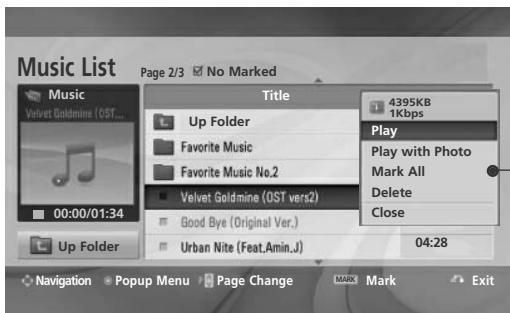
TO USE A USB DEVICE

Music Selection and PopUp Menu

As shown, up to 6 music titles are listed per page.



V



► Play (During stop) : Play the selected music titles.

One playback of a piece of music finishes, the next selected one will be played. When there are no selected music titles to play, the next one in the current folder will be played. If you go to a different folder and press the **OK** button, the current music in playback will stop.

► Play Marked : Play the selected music titles. Once a music finishes playing, the next selected one will be played automatically.

► Stop Play (During playback) : Stop the playing music titles.

► Play with Photo : Start playing the selected music titles and then move to the Photo List.

► Mark All : Mark all music titles in the folder.

► Unmark All : Deselect all marked music titles.

► Delete or Delete Marked(FAT32 file system only) : Delete the selected music titles.

► Close : Close the pop-up menu.



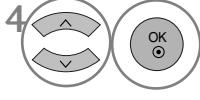
1 Select the target folder or drive.



2 Select the desired music title



3 Show the PopUp menu.



4 Select the desired PopUp menu.

• Use the **P** \wedge \vee button to navigate up/down in the music page.

• Use **MARK** button to mark or unmark a music. When one or more music files are marked, the marked music title will be played in sequence. For example, if you want to listen to only one music repeatedly, just mark the music only and play it. If no music is marked, all the music in the folder will be played in sequence.

• Press the **RETURN** button to return to normal TV viewing.

- If you don't press any button for a while during the playing, the play information box (as shown in the below) will float as a screen saver.

- The 'Screen Saver'?

Screen saver is to prevent screen pixel damage due to a fixed image remaining on the screen for a extended period of time.



! NOTE

- When a music file is played, ♪ is displayed behind the title.
- A damaged or corrupted music does not play but displays 00:00 in playtime.
- A music downloaded from a paid service with copyright protection does not start but displays inappropriate information in playtime.
- If you press OK, ■ buttons, screen saver is stopped.
- The PLAY(▶), Pause(II), ■, ▶▶, ◀◀ buttons on the remote control are also available in this mode.
- You can use the ▶▶ button to select the next music and the ◀◀ button to select the previous music.

TO USE A USB DEVICE

MOVIE LIST (Only 32/37/42/47LH49**, 32/37/42/47/55LH50**, 32/37/42/47LH70**, 42/47LH90**, 50/60PS70**, 50/60PS80**, 42/50PQ35**, 42PQ65**, 50PS65**)

You can play movie files on a USB storage device.

The movie list is activated once USB is detected. It is used when playing movie files on TV.

Displays the movies in the USB folder and supports Play.

Allows playback of all movies in the folder and user desired files.

It is a movie list that displays folder information and movie file.

The On Screen Display may be different from your TV. Images are an example to assist with the TV operation.

Movie(*.dat/*.mpg/*.mpeg/*.ts/*.trp/*.tp/*.vob/*.mp4/*.mkv/*.avi/*.divx) supporting file

Video format :DivX3.11, DivX4.12, DivX5.x, DivX6, Xvid1.00, Xvid1.01, Xvid1.02, Xvid1.03, Xvid 1.10-beta-1/beta-2, Mpeg-1, Mpeg-2, Mpeg-4, H.264/AVC

Audio format : Dolby Digital, AAC, Mpeg, MP3, LPCM, HEAAC

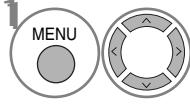
Bit rate : within 32 ~ 320kbps(MP3)

Subtitle format : *.smi/*.srt/*.sub(MicroDVD, SubViewer1.0/2.0)/*.ass/*.ssa/*.txt(TMPlayer)/*.psb(PowerDivx)

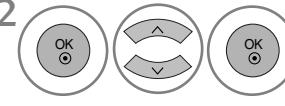
- Some user-created subtitles may not work properly.
- Some special characters are not supported in subtitles.
- HTML tags are not supported in subtitles.
- Subtitles in languages other than the supported languages are not available.
- Time information in an external subtitle file should be arranged in ascending order to be played.
- The screen may suffer temporary interruptions (image stoppage, faster playback, etc.) when the audio language is changed.
- A damaged movie file may not be played correctly, or some player functions may not be usable.
- Movie files produced with some encoders may not be played correctly.
- If the video and audio structure of recorded file is not interleaved, either video or audio is outputted.
- HD videos with a maximum of 1920x1080@25/30P or 1280x720@50/60P are supported, depending on the frame.
- Videos with resolutions higher than 1920X1080@25/30P or 1280x720@50/60P may not work properly depending on the frame.
- Movie files other than the specified types and formats may not work properly.
- **Max bitrate of playable movie file is 20Mbps.**
- We do not guarantee smooth playback of profiles encoded level 4.1 or higher in H.264/AVC.
- DTS Audio codec is not supported.
- A movie file more than 30GB in file size is not supported for playback.
- A DivX movie file and its subtitle file must be located in the same folder.
- A video file name and its subtitle file name must be identical for it to be displayed.
- Playing a video via a USB connection that doesn't support high speed may not work properly..
- Files encoded with GMC(Global Motion Compensation) may not be played.
- When you are watching the movie by Movie List function, you can adjust an image by **Energy Saving** and **AV Mode** key on the remote control. User setup for each image mode does not operate.

File Extension name	Video Decoder	Audio Codec	Max Resolution
mpg, mpeg, vob	MPEG1, MPEG2	Dolby Digital,MPEG,MP3,LPCM	1920x1080@30p
dat	MPEG1	Dolby Digital,MPEG,MP3,LPCM	
ts,trp,tp	MPEG2, H.264/AVC	Dolby Digital,AAC,MPEG	
mp4	MPEG4 SP, MPEG4 ASP, Divx 3.11, Divx 4.12, Divx 5.x Divx 6, Xvid 1.00, Xvid 1.01, Xvid 1.02, Xvid 1.03 Xvid 1.10-beta 1, Xvid 1.10-beta 2, H.264/AVC	Dolby Digital,HEAAC, AAC,MPEG,MP3,LPCM	
avi	MPEG 2, MPEG 4 SP, MPEG4 ASP,Divx 3.11, Divx 4, Divx 5, Divx 6 Xvid 1.00, Xvid 1.01, Xvid 1.02, Xvid 1.03, Xvid 1.10-beta 1 Xvid 1.10-beta 2, H.264/AVC	Dolby Digital,HEAAC,AAC,MPEG, MP3,LPCM	
mkv	H.264/AVC, MPEG 1, MPEG 2, MPEG 4 SP ,MPEG4 ASP	Dolby Digital,HEAAC,AAC,MPEG,MP3,LPCM	
divx	MPEG 2, MPEG 4 SP, MPEG4 ASP,Divx 3.11, Divx 4, Divx 5, Divx 6 Xvid 1.00, Xvid 1.01, Xvid 1.02, Xvid 1.03, Xvid 1.10-beta 1 Xvid 1.10-beta 2, H.264/AVC	Dolby Digital,HEAAC,AAC,MPEG, MP3,LPCM	

Screen Components



1 Select **USB**.



2 Select **Movie List**.

① Moves to upper level folder
 ② Current page/Total pages
 ③ Total number of marked movie title
 ④ Corresponding buttons on the remote control



Movie List

Title	Duration
Up Folder	
Favorite Music	
The Aviator_(2004)_5CH_AC3_2CD	
Apple_(1992).Dvdrip	01:34:45
The Incredibles [REPACK_AC3_5.1c-CiM]	01:15:30
The Incredibles [REPACK_AC3_5.1c-CiM]	01:30:20

Page 2/3 No Marked

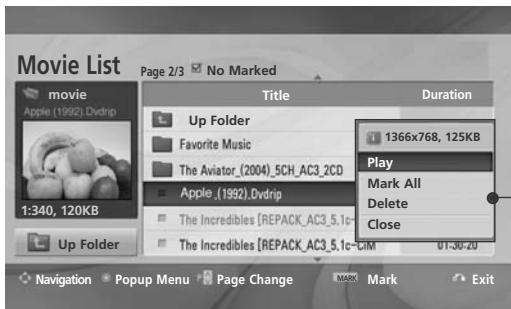
① **Up Folder**
 ② **Page 2/3**
 ③ **No Marked**
 ④ **Navigation**

TO USE A USB DEVICE

Movie Selection and PopUp Menu



V



- ▶ **Play** : Play the selected movie.
Divx Play is executed while screen changes.
- ▶ **Mark All** : Mark all Movie in the folder.
- ▶ **Unmark All** : Deselect all marked movies.
- ▶ **Delete or Delete Marked**(FAT32 file system only)
: Delete the selected Movie item.
- ▶ **Close** : Close the pop-up menu.

TO USE A USB DEVICE

- 1 Select the target folder or drive.
- 2 Select the desired movie title
- 3 Show the PopUp menu.
- 4 Select the desired PopUp menu.

- Use the **P** button to navigation in the movie page.
- Use **MARK** button to mark or unmark a movie. When one or more movie files are marked, the marked movies will be played in sequence.

- Press the **RETURN** button to return to normal TV viewing.

! NOTE

- ▶ In the case of files not supported, a message regarding non-supported file is displayed.

Using the Movie List function, play



Subtitle Language	Support Language
Latin1	English, Spanish, French, German, Italian, Swedish, Finnish, Dutch, Portuguese, Danish, Romanian, Norwegian, Albanian, Gaelic, Welsh, Irish, Catalan, Valencian
Latin2	Bosnian, Polish, Croatian, Czech, Slovak, Slovenian, Serbian, Hungarian
Latin4	Estonian, Latvian, Lithuanian
Cyrillic	Bulgarian, Macedonian, Russian, Ukrainian, Kazakh
Greek	Greek
Turkish	Turkish

- ▶ **Picture Size** : Selects your desired picture format during movie play.
- ▶ **Audio Language & Subtitle Language** : Changes the Language Group of the audio/subtitle during movie play.
- ▶ **Sync** : Adjusts the time synchronisation of the subtitle from -10 secs ~ +10 secs by steps of 0.5 secs during movie play.
- ▶ **Position** : Changes the position of the subtitle either up or down during movie play.

! NOTE

- ▶ Only the files saved in ASCII CODE is supported for the external subtitles of the movie.
- ▶ Only 500 alphabets and 500 numbers are supported for each line of the subtitle.
- ▶ Only 10,000 of sync blocks can be supported within the subtitle file.

Using the remote control

◀◀ / ▶▶	<p>When playing, repeatedly, press the REW(◀◀) button to speed up ▶◀(x2) -> ▶◀◀(x4) -> ▶◀◀◀(x8) -> ▶◀◀◀◀(x16) -> ▶◀◀◀◀◀(x32) . repeatedly, press the FF(▶▶) button to speed up ▶▶(x2) -> ▶▶▶(x4) -> ▶▶▶▶(x8) -> ▶▶▶▶▶(x16) -> ▶▶▶▶▶▶(x32). ■ Pressing these buttons repeatedly increases the fast forward/reverse speed.</p>
	<p>During playback, press the Pause() button. ■ Still screen is displayed. ■ If no buttons are pressed on the remote control for 10 minutes after pausing, the TV returns to the playback state. ■ Press the Pause() button and then use the FF(▶▶) button for slow motion.</p>
< >	<p>■ When using the < or > button during playback a cursor indicating the position can be viewed on the screen.</p>
PLAY(▶)	<p>Press the PLAY(▶) button to return to normal playback.</p>
ENERGY SAVING 	<p>Press the ENERGY SAVING button repeatedly to increase the brightness of your screen.(Refer to p. 116)</p>
AV MODE 	<p>Press the AV MODE button repeatedly to select the desired source.(Refer to p. 86)</p>

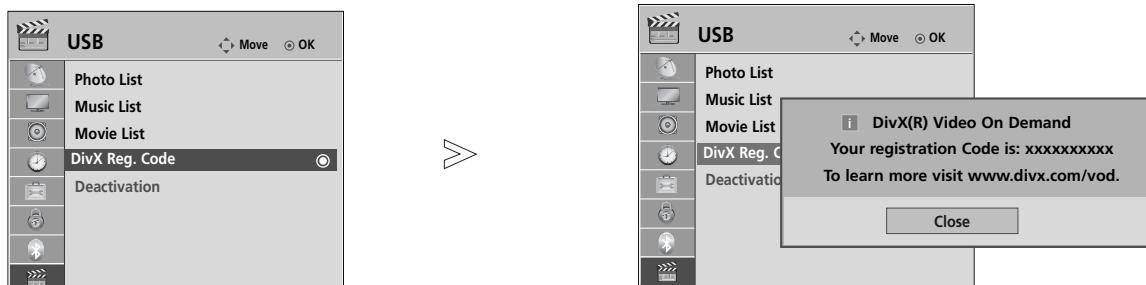
TO USE A USB DEVICE

DIVX REGISTRATION CODE

(Only 32/37/42/47LH49**, 32/37/42/47/55LH50**, 32/37/42/47LH70**, 42/47LH90**, 50/60PS70**, 50/60PS80**, 42/50PQ35**, 42PQ65**, 50PS65**)

Confirm the DivX registration code number of the TV. Using the registration number, movies can be rented or purchased at www.divx.com/vod.

With a DivX registration code from other TV, playback of rented or purchased DivX file is not allowed. (Only DivX files matched with the registration code of the purchased TV are playable.)



TO USE A USB DEVICE

- 1 Select USB.
- 2 Select DivX Reg. Code.
- 3 Display DivX Reg. Code.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

"DivX Certified to play DivX video up to HD 1080p, including premium content"



ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX, Inc. This is an official DivX Certified device that plays DivX video. Visit www.divx.com for more information and software tools to convert your files into DivX video.

ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play DivX Video-on-Demand (VOD) content. To generate the registration code, locate the DivX VOD section in the device setup menu. Go to vod.divx.com with this code to complete the registration process and learn more about DivX VOD.

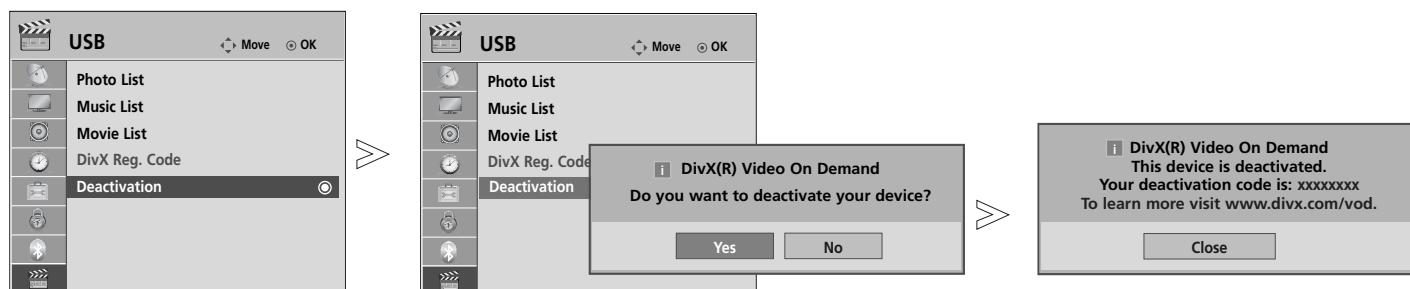
! NOTE

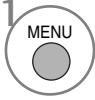
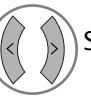
- Movie files are supported as follows
 - Resolution : under 1920x1080 WxH pixels
 - Frame rate : under 30 frames/sec(1920x1080), under 60 frames/sec(under 1280x720)
- Video Codec : MPEG 1, MPEG 2, MPEG 4, H.264/AVC, DivX 3.11, DivX 4.12, DivX 5.x, DivX 6, Xvid 1.00, Xvid 1.01, Xvid 1.02, Xvid 1.03, Xvid 1.10-beta1, Xvid 1.10-beta2

DEACTIVATION

(Only 32/37/42/47LH49**, 32/37/42/47/55LH50**, 32/37/42/47LH70**, 42/47LH90**, 50/60PS70**, 50/60PS80**, 42/50PQ35**, 42PQ65**, 50PS65**)

The purpose of deactivation is to allow deactivation of devices for users who have activated all the available devices through the web_server and are blocked from activating more devices. DivX VOD allowed the consumer to activate up to 6 devices under one account, but to replace or deactivate any of those devices, the consumer had to contact DivX Support and request deletion. Now with this added feature, consumers will be able to deactivate the device themselves and hence better manage their DivX VOD devices.



- 1   Select **USB**.
- 2   Select **Deactivation**.
- 3   Select **Yes**.
- 4  Display **Deactivation**.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

EPG (ELECTRONIC PROGRAMME GUIDE)(IN DIGITAL MODE)

This system has an Electronic Programme Guide (EPG) to help your navigation through all the possible viewing options.

The EPG supplies information such as programme listings, start and end times for all available services. In addition, detailed information about the programme is often available in the EPG (the availability and amount of these programme details will vary, depending on the particular broadcaster).

This function can be used only when the EPG information is broadcast by broadcasting companies

The EPG displays the programme details for next 8 days.

	Shows the present screen information.
	Displayed with a DTV Programme.
	Displayed with a Radio Programme.
	Displayed with a MHEG Programme.
	Displayed with a AAC Programme.
	Aspect ratio of broadcasting programme.
	Aspect ratio of broadcasting programme.
	Displayed with a Teletext Programme.
	Displayed with a Subtitle Programme.
	Displayed with a Scramble Programme.
	Displayed with a Dolby Programme.
	Displayed with a Dolby Digital PLUS Programme.
	576i/p, 720p, 1080i/p : Resolution of broadcasting programme

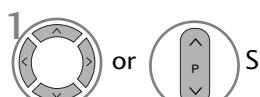
Switch on/off EPG



Switch on or off EPG.



Select a programme



or

Select desired programme.



The EPG will disappear after moving to a selected program.

Button Function in NOW/NEXT Guide Mode

You can view a program being broadcasted and one scheduled to follow.



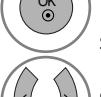
Change EPG mode.



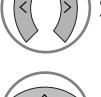
Enter Timer Record/Remind setting mode.



Enter Timer Record/Remind list mode.



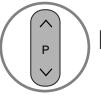
The EPG will disappear after moving to a selected program.



Select NOW or NEXT Programme.



Select the Broadcast Programme.



Page Up/Down.

Programme Guide

6 Apr. 2007 15:09		
ALL	NOW	NEXT
1 YLE TV1	That '70s show	Keno
2 YLE TV2	Your World Today	World Business
4 TV..	Legenen om Den....	Fantomen
5 YLE FST	Naturtimmen	Kritiskt
6 CNN	Lyssna	ABC
8 YLE24	Glamour	Tänään otsikoissa

FAV Favourite

INFO ⓘ Information

Pr. Change

TV/RAD RADIO

Mode

Schedule

Schedule List



Switch off EPG.



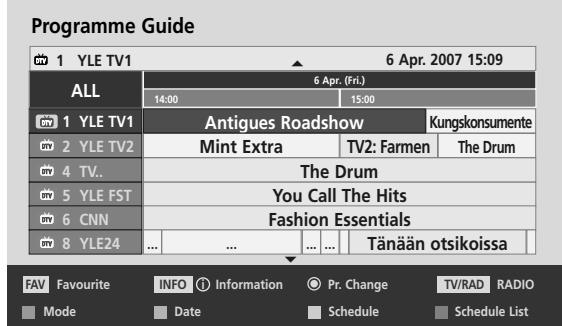
Select TV or RADIO Programme.



Detail information on or off

Button Function in 8 Day Guide Mode

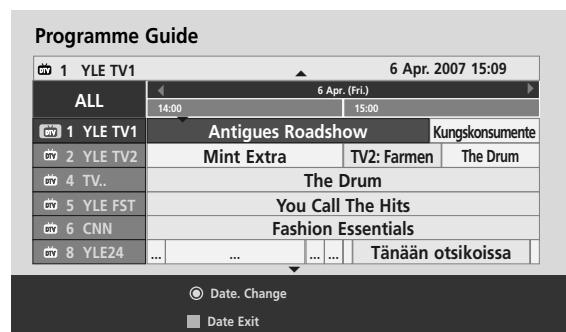
- RED** Change EPG mode.
- GREEN** Enter Date setting mode.
- YELLOW** Enter Timer Record/Remind setting mode.
- BLUE** Enter Timer Record/Remind list mode.
-  The EPG will disappear after moving to a selected program.
-  Select Programme.
-  Select the Broadcast Programme.



-  Page Up/Down.
-  or  Switch off EPG.
-  Select TV or RADIO Programme.
-  Detail information on or off

Button Function in Date Change Mode

- GREEN** Switch off Date setting mode.
-  Change to the selected date.
-  Select a date.
-  Switch off Date setting mode.
-  or  Switch off EPG.



EPG (ELECTRONIC PROGRAMME GUIDE)(IN DIGITAL MODE)

Button Function in Extended Description Box



Text Up/Down.



Enter Timer Record/Remind setting mode.



or



The detail information on or off.



Switch off EPG.



Button Function in Record/Remind Setting Mode

Sets a start or end time for recording, and sets only a start time for the reminder with the end time grayed out. This function is available only when recording equipment that use pin8 recording signalling has been connected to the DTV-OUT(AV2) terminal, using a SCART cable.



Change to Guide or Schedule mode.



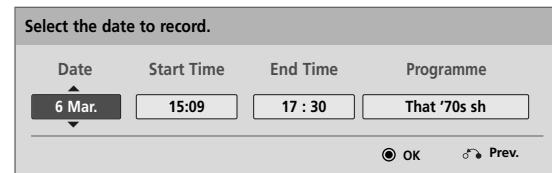
Select Record or Remain.
Function setting.



Select Date, Start/End time or Programme.



Save Timer Record/Remind.



Button Function in Schedule List Mode

If you've created a schedule list, a scheduled program is displayed at the scheduled time even when you are watching a different program at the time.

Only the Up/Down/OK/Return keys will work when a popup window is open.



Add new Manual Recording setting mode.



Add new Timer Watching setting mode.



or



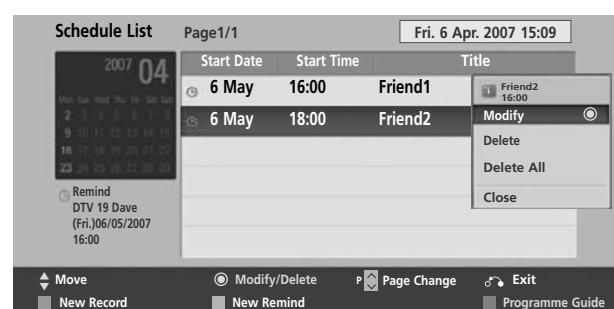
Change to Guide mode.



Switch off EPG.



Select your desired Option(Modify/Delete/Delete All).



Select Schedule List.



Page Up/Down.

PICTURE CONTROL

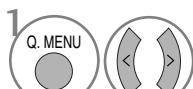
PICTURE SIZE (ASPECT RATIO) CONTROL

You can watch the screen in various picture formats; 16:9, Just Scan, Original, Full Wide, 4:3, 14:9, Zoom and Cinema Zoom.

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.



Select Aspect Ratio.



Select the desired picture format.

- You can also adjust **Aspect Ratio** in the **PICTURE** menu.
- For Zoom Setting, select **14:9, Zoom** and **Cinema Zoom** in Ratio Menu. After completing Zoom Setting, the display goes back to Q.Menu.

• 16:9

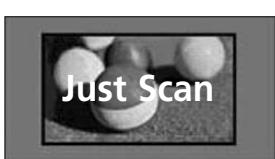
The following selection will allow you to adjust the picture horizontally, in linear proportion, to fill the entire screen (useful for viewing 4:3 formatted DVDs).



• Just Scan

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

Note : If there is noise in original Picture, You can see the noise at the edge.



• Original

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



• Full Wide

When TV receives the wide screen signal, it will lead you to adjust the picture horizontally or vertically, in a linear proportion, to fill the entire screen fully.



PICTURE CONTROL

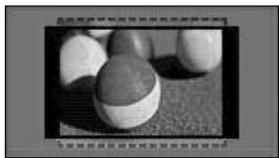
• 4:3

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



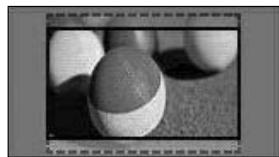
• 14:9

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.



• Zoom

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.



• Cinema Zoom

Choose Cinema Zoom when you want to enlarge the picture in correct proportion.

Note: When enlarging or reducing the picture, the image may become distorted.



◀ or ▶ button: Adjust enlarge proportion of Cinema Zoom. The adjustment range is 1~16.
▼ or ▲ button: Move the screen.

! NOTE

- You can only select **4:3, 16:9 (Wide), 14:9, Zoom/Cinema Zoom** in Component mode.
- You can only select **4:3, Original, 16:9 (Wide), 14:9, Zoom/Cinema Zoom** in HDMI mode.
- You can only select **4:3, 16:9 (Wide)** in RGB-PC, HDMI-PC mode only.
- In DTV/HDMI/Component (over 720p) mode, **Just Scan** is available.
- In Analogue/AV mode, **Full Wide** is available.

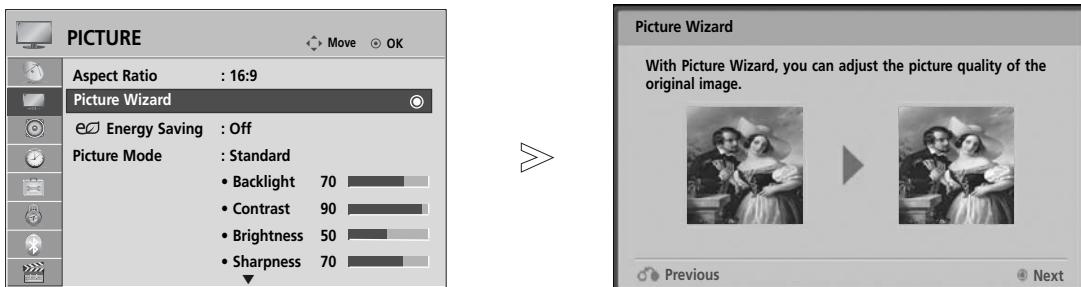
PICTURE WIZARD

This feature lets you adjust the picture quality of the original image.

Use this to calibrate the screen quality by adjusting the Black and White Level etc. General users can calibrate the screen quality by easily following each stage.

When you adjust the image to Low, Recommended or High, you can see the changed result as an example.

In RGB-PC/HDMI-PC/DVI-PC mode, the changed Colour, Tint and H/V Sharpness values are not applied.



- 1 Select **PICTURE**.
- 2 Select **Picture Wizard**.
- 3 Adjust **Black level, White level, Colour, Tint, H Sharpness, V Sharpness, Colour Temperature**(Only 42/47LH90**), **Dynamic Contrast**(Only 42/47LH90**), **Colour Gain**(Only 42/47LH90**), **Backlight** (LCD TV/LED LCD TV only).
- 4 Select input source to apply the settings.
- 5 Press the **OK** button to complete the wizard.

- If you stop the setting before the final stage, the changes will not be applied
- The adjustment value is saved to Expert1.
- Once the Picture Wizard sets the image quality, the Energy Saving is changed into Off. (LCD TV/LED LCD TV only)

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

PICTURE CONTROL

Energy Saving

It reduces the TV's power consumption.

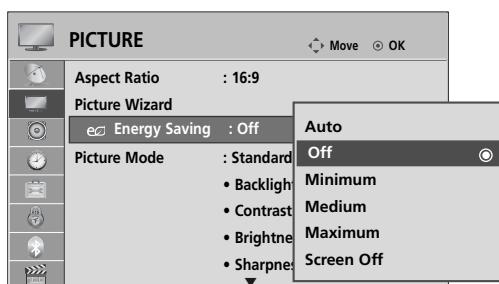
The default factory setting complies with the **Energy Star** requirements and is adjusted to the comfortable level to be viewed at home.

You can increase the brightness of your screen by adjusting the **Energy Saving level** or by setting the **Picture Mode**.

When adjusting Energy Saving in MHEG mode, the Energy Saving setting is applied after MHEG is finished.

Selecting 'Screen Off' while tuned to a radio station channel will reduce power consumption. (LCD TV/LED LCD TV only)

LCD TV/LED LCD TV only



Plasma TV only



1 Select **PICTURE**.

2 Select **Energy Saving**.

3 Select **Auto**(except for 19/22LU40**, 19/22/26LU50**, 32/37/42LF25**, 32/37/42LG2***, 32/37/42LG33**, 19/22/26LG31**, 19/22/26/32/37/42LH20**, 32/37/42/47LH3***), **Off**, **Minimum**, **Medium**, **Maximum** or **Screen Off**.

1 Select **PICTURE**.

2 Select **Energy Saving**.

3 Select **Intelligent Sensor**, **Off**, **Minimum**, **Medium** or **Maximum**.

• Intelligent Sensor

Select **Low**, **Middle** or **High**.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

- When selecting Screen off, TV turned off after 3 seconds.
- If you adjust "Energy Saving-Auto(except for 19/22LU40**, 19/22/26LU50**, 32/37/42LF25**, 32/37/42LG2***, 32/37/42LG33**, 19/22/26LG31**, 19/22/26/32/37/42LH20**, 32/37/42/47LH3***), **Minimum**, **Medium**, **Maximum**", **Backlight** feature will not work.(LCD TV/LED LCD TV only).
- You can also adjust this feature by selecting **Energy Saving** button on the remote control.
- When selecting Auto, Backlight is automatically adjusted through intelligent sensor according to the surrounding condition when intelligent sensor is in the TV.

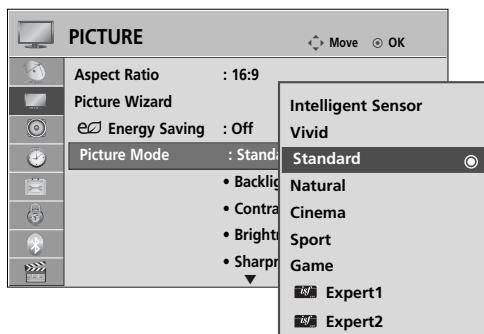
PRESET PICTURE SETTINGS

Picture Mode-Preset

Vivid
Standard
Natural
Cinema
Sport
Game

Strengthen the contrast, brightness, colour and sharpness for vivid picture.
The most general screen display status.
The most natural screen display status.
Optimizes video for watching movies.
Optimizes video for watching sports events.
Optimizes video for playing games.

LCD TV/LED LCD TV only



1 Select PICTURE.

2 Select Picture Mode.

3 Select Intelligent Sensor(except for 19/22LU40**, 19/22/26LU50**, 32/37/42LF25**, 32/37/42LG2***, 32/37/42LG33**, 19/22/26LG31**, 19/22/26/32/37/42LH20**, 32/37/42/47LH3***), Vivid, Standard, Natural, Cinema, Sport or Game.

Plasma TV only



(Only 50/60PS80**)

(Except for 50/60PS80**)

1 Select PICTURE.

2 Select Picture Mode.

3 Select Vivid, Standard, THX Cinema(or Cinema), Sport or Game.

- **Picture Mode** adjusts the TV for the best picture appearance. Select the preset value in the **Picture Mode** menu based on the programme category.
- When the Intelligent sensor function is on, the most suitable picture is automatically adjusted according to the surrounding conditions. (except for 19/22LU40**, 19/22/26LU50**, 32/37/42LF25**, 32/37/42LG2***, 32/37/42LG33**, 19/22/26LG31**, 19/22/26/32/37/42LH20**, 32/37/42/47LH3***)
- You can also adjust **Picture Mode** in the **Q. Menu**.
- **Intelligent Sensor** Adjusts picture according to the surrounding conditions. (except for 19/22LU40**, 19/22/26LU50**, 32/37/42LF25**, 32/37/42LG2***, 32/37/42LG33**, 19/22/26LG31**, 19/22/26/32/37/42LH20**, 32/37/42/47LH3***)

- **THX Cinema**(Only 50/60PS80**):This is cinema quality mode to provide you the experience of watching a movie at home.The user will be able enjoy the best level of satisfactory screen quality in any movie without any separate adjustments.Cinema expresses the optimal screen quality when it is darkest.
When selecting **THX Cinema**, Aspect ratio changes to Just scan.

- **THX Cinema**(Thomlinson Holman 's Experiment)is the audio and video certification standard of THX established by George Lucas,who directed the movie Star Wars, and Thomlinson.
This is the product to be certified in THX display area and guarantees screen quality that exceeds the display standard specification in both hardware and software.

PICTURE CONTROL

MANUAL PICTURE ADJUSTMENT

Picture Mode-User option

Backlight (LCD TV/LED LCD TV Only)

To control the brightness of the screen, adjust the brightness of LCD panel.

Adjusting the backlight when setting the brightness of the set is recommended.

Contrast

Adjusts the signal level between black and white in the picture. You may use Contrast when the bright part of the picture is saturated.

Brightness

Adjusts the base level of the signal in the picture.

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.

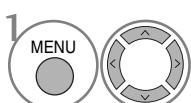
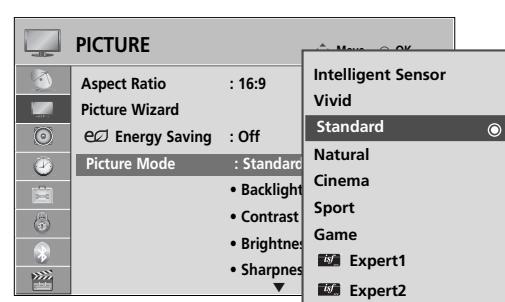
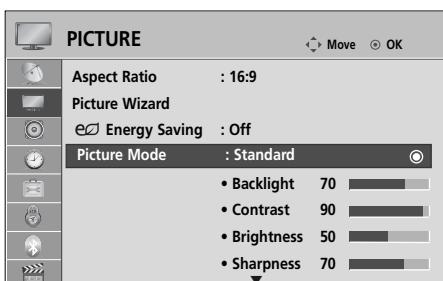
Colour

Adjusts intensity of all colours.

Tint

Adjusts the balance between red and green levels.

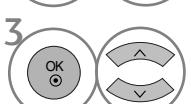
It is not available to use this function in "Intelligent Sensor" (except for 19/22LU40**, 19/22/26LU50**, 32/37/42LF25**, 32/37/42LG2***, 32/37/42LG33**, 19/22/26LG31**, 19/22/26/32/37/42LH20**, 32/37/42/47LH3***).



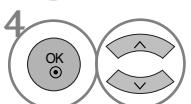
Select PICTURE.



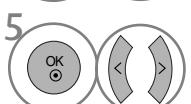
Select Picture Mode.



Select Vivid, Standard, Natural, Cinema (or THX Cinema), Sport or Game.



Select Backlight (LCD TV/LED LCD TV only), Contrast, Brightness, Sharpness, Colour or Tint.



Make appropriate adjustments.

• Benefits of using Backlight

(LCD TV/LED LCD TV Only)

- The electricity consumption is reduced by up to 60%.
- The black brightness is reduced. (As the black has greater depth, you can enjoy a better quality definition.)
- You can adjust brightness with maintaining original signal resolution.

- Press the MENU button to return to normal TV viewing.
- Press the RETURN button to move to the previous menu screen.

! NOTE

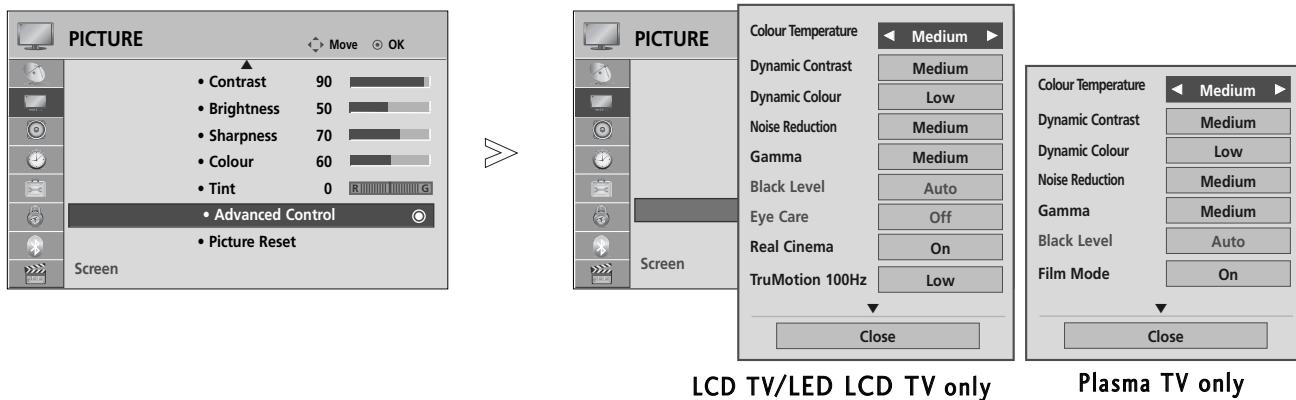
- You cannot adjust colour, sharpness and tint in the RGB-PC/HDMI-PC mode.
- When the Expert 1/2 is selected, you can select Backlight (LCD TV/LED LCD TV only), Contrast, Brightness, H Sharpness, V Sharpness, Colour or Tint.

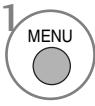
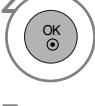
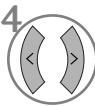
PICTURE IMPROVEMENT TECHNOLOGY

You can calibrate the screen for each Picture Mode or set the video value according to the special video screen. You can set the video value differently for each input.

To reset to the factory default screen after making adjustments to each video mode, execute the "Picture Reset" function for each Picture Mode.

Image shown may differ from your TV.



- 1   Select **PICTURE**.
- 2   Select **Advanced Control**.
- 3   Select your desired Source.: **Colour Temperature, Dynamic Contrast, Dynamic Colour, Noise Reduction, Gamma, Black Level, Eye Care(LCD TV/LED LCD TV only), Real Cinema(LCD TV/LED LCD TV only), Film Mode(Plasma TV only), TruMotion 100Hz or TruMotion 200Hz(LCD TV/LED LCD TV only), Colour Gamut, Edge Enhancer, xvYCC or OPC(LCD TV/LED LCD TV only)).(Refer to p. 121~122)**
- 4  Make appropriate adjustments.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

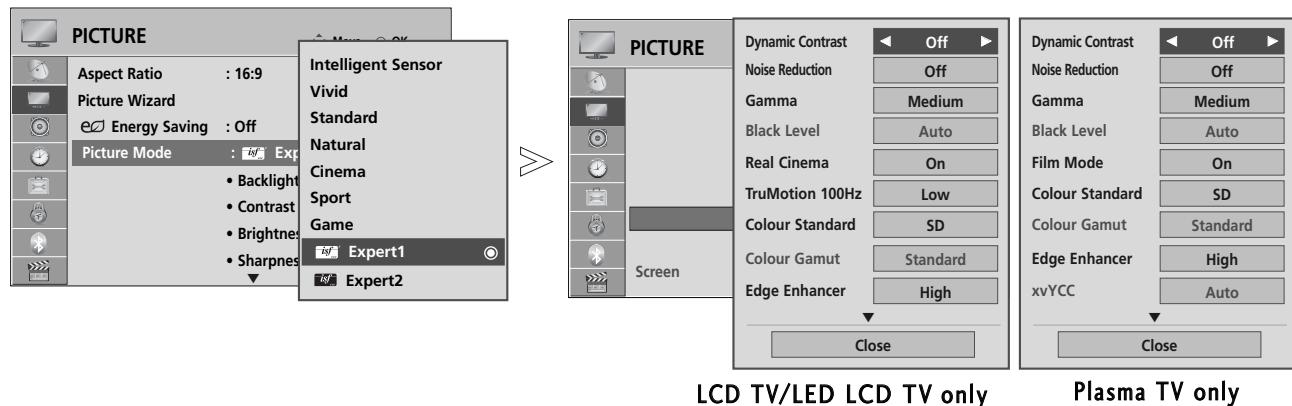
PICTURE CONTROL

EXPERT PICTURE CONTROL

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

This may also be used to help a professional optimize the TV performance using specific videos.

Image shown may differ from your TV.



- 1 Select **PICTURE**.
- 2 Select **Picture Mode**.
- 3 Select **ISF Expert1** or **ISF Expert2**.
- 4 Select **Expert Control**.
- 5 Select your desired Source.
- 6 Make appropriate adjustments.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

*This feature is not available for all models.

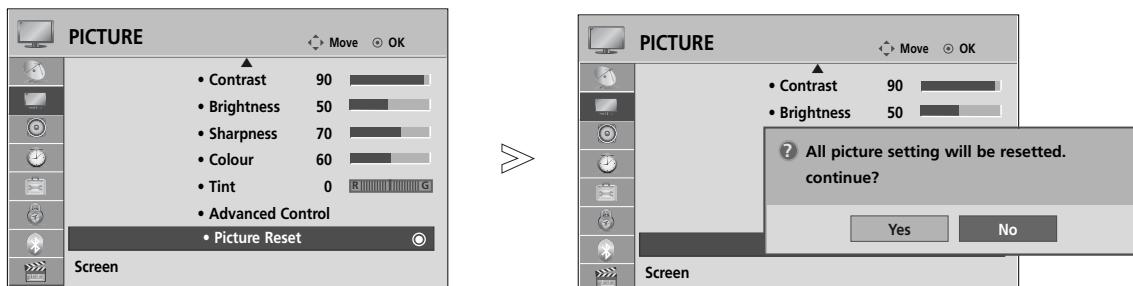
Colour Temperature [Advanced Control] (Warm/Medium/Cool)	<ul style="list-style-type: none"> Choose one of three automatic colour adjustments. Set to warm to enhance hotter colours such as red, or set to cool to make picture bluish.
Dynamic Contrast (Off/Low/Medium(LCD TV/LED LCD TV only)/High)	<ul style="list-style-type: none"> Adjusts the contrast to keep it at the best level according to the brightness of the screen. The picture is improved by making bright parts brighter and dark parts darker.
Dynamic Colour (Off/Low/High)	<ul style="list-style-type: none"> Adjusts screen colours so that they look livelier, richer and clearer. This feature enhances hue, saturation and luminance so that red, blue, green and white look more vivid.
Noise Reduction (Off/Low/Medium/High)	<ul style="list-style-type: none"> Reduces screen noise without compromising video quality.
Gamma (Low/Medium/High)	<ul style="list-style-type: none"> You can adjust brightness of dark area and middle gray level area of the picture. <ul style="list-style-type: none"> Low : Make dark and middle gray level area of the picture brighter. Medium: Express original picture levels. High: Make dark and middle gray level area of the picture darker.
Black Level (Low/High)	<ul style="list-style-type: none"> Low : The picture of the screen gets darker. High : The picture of the screen gets brighter. Auto : Realizing the black level of the screen and set it to High or Low automatically. Set black level of the screen to proper level. This function enables to select 'Low' or 'High' in the following mode: AV(NTSC-M), HDMI or Component. Otherwise, 'Black level' is set to 'Auto'.
Eye Care (On/Off)	<ul style="list-style-type: none"> *This feature is not available for all models. Adjust the brightness of the screen to prevent the screen from being too bright. Dims extremely bright pictures. This feature is disable in "Picture Mode-Vivid, Cinema, Intelligent Sensor (except for 19/22LU40**, 19/22/26LU50**, 32/37/42LF25**, 32/37/42LG2***, 32/37/42LG33**, 19/22/26LG31**, 19/22/26/32/37/42LH20**, 32/37/42/47LH3***)".
Real Cinema/Film Mode (On/Off)	<ul style="list-style-type: none"> You can watch a cinema-like video by eliminating judder effect. Use this function when you watch movies. This function can work when TruMotion is off.
TruMotion 100Hz or TruMotion 200Hz (Off/Low/High)	<ul style="list-style-type: none"> *This feature is not available for all models. High : Provides smoother picture movement. Low : Provides smooth picture movement. Use this setting for standard use. Off : Use this setting when "High" and "Low" setting result in noise. TruMotion 100Hz can reduce perception of blur on fast moving scenes by displaying one hundred images per second. TruMotion 200Hz displays 200 scenes per second by combining advanced 100Hz technology with scanning backlight. This technology is verified from Intertek & TÜV Rheinland. It is used for the best picture quality without any motion blur or judder when you enter a quick image or Film Source. This feature is disable in RGB-PC,HDMI-PC mode. If you enable "TruMotion 100Hz or TruMotion 200Hz", noise may appear on the screen. If this occurs, set "TruMotion 100Hz or TruMotion 200Hz" to "Off".

PICTURE CONTROL

Colour Gamut (Wide/Standard)	<ul style="list-style-type: none"> • Standard : Mode to reproduce original colour according to the standard of input signal independent of the display characteristics. • Wide : Mode to use and set the rich colour area of the display. ■ Maximize the utilization for colour area that can be expressed.
Edge Enhancer(LCD TV/LED LCD TV :Off/Low/High Plasma TV:On/Off)	<ul style="list-style-type: none"> ■ Shows clearer and distinctive yet natural corners of the video. ■ This function is enabled in "Picture Mode-Cinema, Expert."(LCD TV/LED LCD TV only)
xvYCC (Auto/off/on)	<ul style="list-style-type: none"> *This feature is not available for all models. ■ This is the function to express richer colour. ■ This function is enabled in "Picture mode - Cinema, Expert" when xvYCC signal is inputted through HDMI
OPC (On/Off)	<ul style="list-style-type: none"> *This feature is not available for all models. ■ As the technology to reduce the power consumption while keeping the same brightness, this has the effect of reducing power consumption, improvement in contrast.
Colour Standard (SD/HD)	<ul style="list-style-type: none"> ■ Converts the colour of a different video to HD colour. This function is set for SD video (BT-601) and HD video (BT-709) colour format.
Expert Pattern (Off/Expert1/Expert2)	<ul style="list-style-type: none"> ■ This is the pattern necessary for expert adjustment. ■ This function is enabled in "Picture Mode - Expert" when you watch DTV.
Colour Filter (Off/Red/Green/Blue)	<ul style="list-style-type: none"> ■ This is the function to filter the specific colours of the video. You can use the RGB filter to set colour saturation and hue accurately.
Colour Temperature [Expert Control](LCD TV/LED LCD TV), White Balance(Plasma TV) (Medium/Warm/Cool)	<ul style="list-style-type: none"> ■ This is the function to adjust the overall colour of the screen to the feeling you want. <ul style="list-style-type: none"> a. • Method : 2 Points <ul style="list-style-type: none"> • Pattern: Inner, Outer • Red/Green/Blue Contrast, Red/Green/Blue Brightness: The adjustment range is -50 ~ +50. b. • Method : 10 point IRE(LCD TV/LED LCD TV), 20 Point IRE(Plasma TV) <ul style="list-style-type: none"> • Pattern: Inner / Outer • IRE (Institute of Radio Engineers) is the unit to display the size of the video signal and can be set among 10, 20, 30 - 100(LCD TV/LED LCD TV), 5, 10, 15 - 100(Plasma TV), . You can adjust Red, Green or Blue according to each setting. • Luminance: This function displays calculated luminance value for 2.2 gamma. You can input luminance value you want at 100 IRE, than the target luminance value for 2.2 gamma is displayed at every 10 steps from 10 IRE to 90 IRE.(LCD TV/LED LCD TV only) • Red/Green/Blue: The adjustment range is -50 ~ +50.
Colour Management System	<ul style="list-style-type: none"> ■ As the tool used by the experts to make adjustments by using the test patterns, this does not affect other colours but can be used to selectively adjust the 6 colour areas (Red/Green/Blue/Cyan/Magenta/Yellow). Colour difference may not be distinctive even when you make the adjustments for the general video. ■ Adjusts Red/Green/Blue/Yellow/Cyan/Magenta. • Red/Green/Blue/Yellow/Cyan/Magenta Colour : The adjustment range is -30 ~ +30. • Red/Green/Blue/Yellow/Cyan/Magenta Tint : The adjustment range is -30 ~ +30. ■ This feature is disable in RGB-PC and HDMI (PC) mode.

PICTURE RESET

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



- 1
- 2
- 3
- 4

Select **PICTURE**.

Select **Picture Reset**.

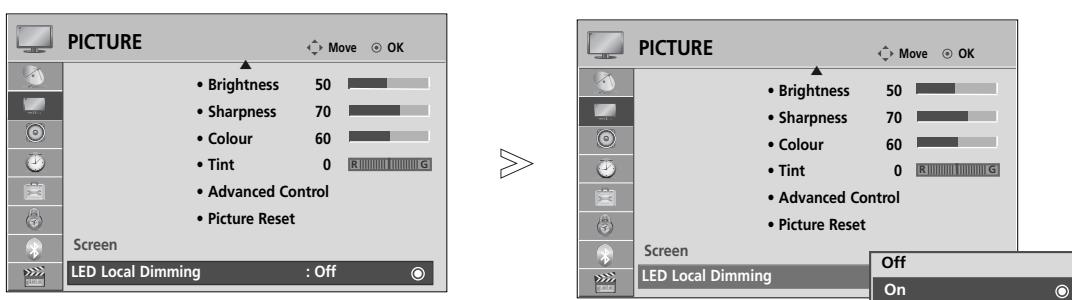
Select **Yes** or **No**.

Initialize the adjusted value.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

LED LOCAL DIMMING (Only 42/47LH90**)

After analyzing the signal of the input video by areas of the screen, it adjusts the backlight to improve the contrast ratio.



- 1
- 2
- 3

Select **PICTURE**.

Select **LED Local Dimming**.

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

POWER INDICATOR

(except for 19/22LU40**, 19/22/26LU50**, 19/22/26LH20**, 32/37/42LF25**, 32/37/42LG2***, 32/37/42LG33**, 19/22/26LG31**, 32/42/47LF51**, 50/60PS70**, 50/60PS80**, 42/50PQ35**, 42PQ65**, 50PS65**)

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

Startup Sound(Only 32/37/42/47LH70**)

Set Startup Sound to **Off**, **Low**, **Medium** or **High** when the power is turned on.

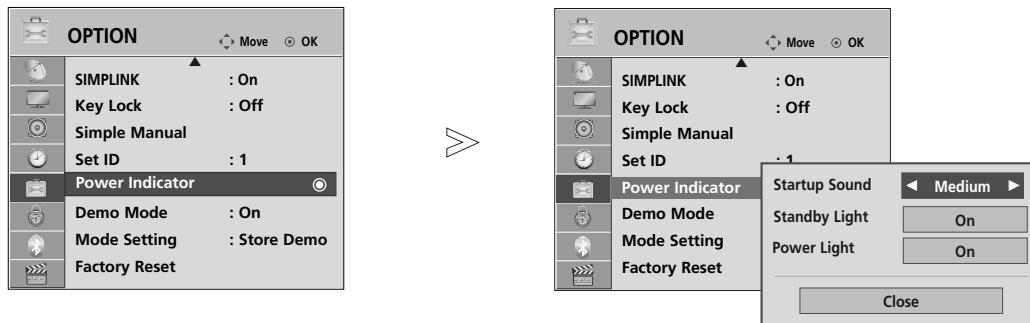
Standby Light

Determines whether to set the indicator light on the front of the TV to **Off**, **Low** or **High** in standby mode.(Only 32/37/42/47LH70**)

Determines whether to set the indicator light on the front of the TV to **On** or **Off** in standby mode.(except for 32/37/42/47LH70**)

Power Light

Determines whether to set the indicator light on the front of the TV to **On** or **Off** when the power turns on.



PICTURE CONTROL

- 1   Select **OPTION**.
- 2   Select **Power Indicator**.
- 3   Select **Startup Sound**(Only 32/37/42/47LH70**), **Standby Light** or **Power Light**.
- 4  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.

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

A frozen or still picture 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.

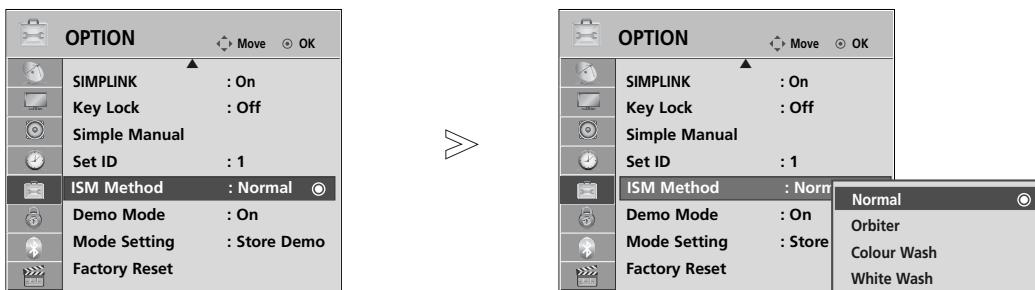
Note: An excessive permanent image may be impossible to clear entirely with White Wash.

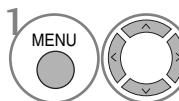
Orbiter

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.

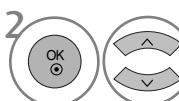
Colour Wash

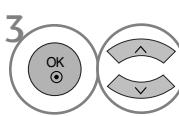
The colour block with the screen moved a little and the white pattern are alternately displayed. It is difficult to sense the afterimage occurred while the temporary afterimage is removed and the colour pattern is operating.



1  Select **OPTION**.

- If you do not need this function, set **Normal**.

2  Select **ISM Method**.

3  Select **Normal, Orbiter, Colour Wash** or **White Wash**.

4  Save.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

PICTURE CONTROL

DEMO MODE

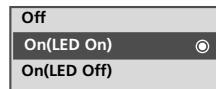
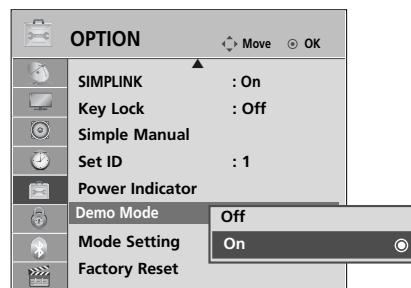
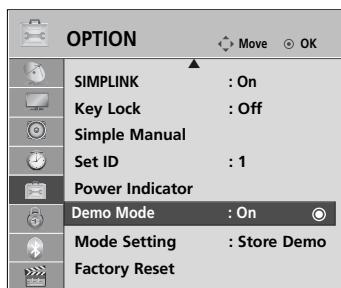
Display the slide show to explain the various logo of this TV.

It is not possible to use **Demo Mode** in **Home Use** mode.

In **Store Demo**, **Demo Mode** is automatically set to **On**.

Once **Demo Mode** is set to **Off** in **Store Demo**, **Demo Mode** does not run and only the screen is reset.

The screen is reset automatically after 5 minutes in **Demo Mode**.



(Except for 50/60PS70**,
50/60PS80**)

(Only 50/60PS70**,
50/60PS80**)

1 Select **OPTION**.

2 Select **Demo Mode**.

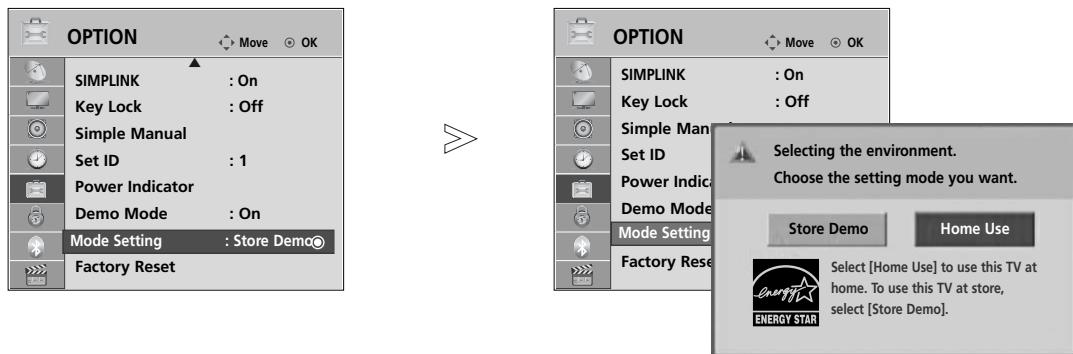
3 Select **On** to show the various logo of TV.

4 Return to TV viewing.
If you want to stop the demo, press any button. (except for
MUTE, +, - button)

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

MODE SETTING

We recommend setting the TV to “**Home Use**” mode for the best picture in your home environment. “**Store Demo**” mode is an optimal setting for displaying at stores..



- 1 Select **OPTION**.
- 2 Select **Mode Setting**.
- 3 Select **Store Demo** or **Home Use**.
- 4 Save.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

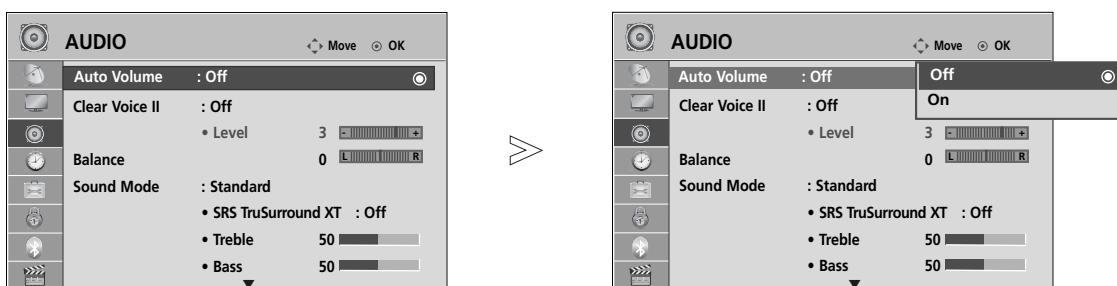
SOUND & LANGUAGE CONTROL

AUTO VOLUME LEVELER

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

Because each broadcasting station has its own signal conditions, volume adjustment may be needed every time the channel is changed. This feature allows users to enjoy stable volume levels by making automatic adjustments for each program.

If sound quality or volume is not at the level you want, it is recommended to use a separate home theater system or amp to cope with different user environments.

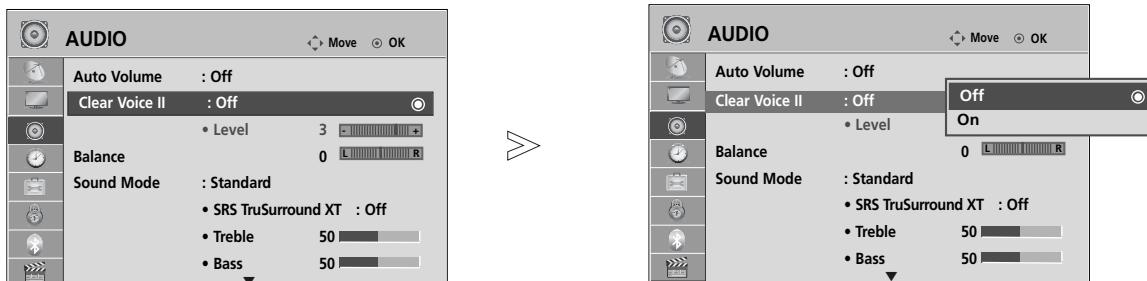


- 1 Select **AUDIO**.
- 2 Select **Auto Volume**.
- 3 Select **On** or **Off**.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

CLEAR VOICE II

By differentiating the human sound range from others, it helps users listen to human voices better.



- 1 Select **AUDIO**.
- 2 Select **Clear Voice II**.
- 3 Select **On** or **Off**.

- If you select "On" for **Clear Voice II**, **SRS TruSurround XT** feature will not work.
- Select levels from '-6' to '+6'.

Adjustment for Clear Voice Level With selecting On

- 4 Select **Level**.
- 5 Make desired adjustment.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

SOUND & LANGUAGE CONTROL

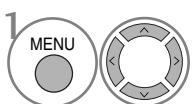
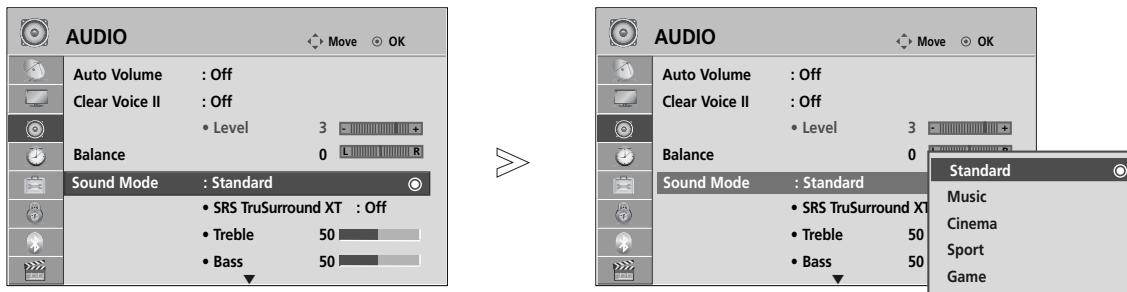
PRESET SOUND SETTINGS-SOUND MODE

You can select your preferred sound setting; Standard, Music, Cinema, Sport or Game and you can also adjust the Treble, Bass.

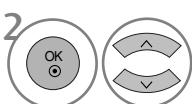
Sound Mode lets you enjoy the best sound without any Special adjustment as the TV sets the appropriate sound options based on the programme content.

Standard, Music, Cinema, Sport and Game are preset for optimum sound quality at the factory.

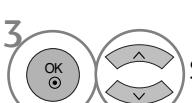
Standard	Offers standard-quality sound.
Music	Optimizes sound for listening to music.
Cinema	Optimizes sound for watching movies.
Sport	Optimizes sound for watching sports events.
Game	Optimizes sound for playing games.



Select AUDIO.



Select Sound Mode.

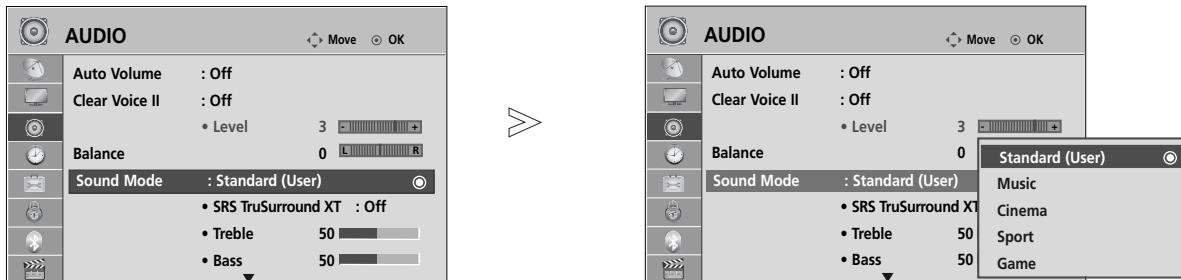


Select Standard, Music, Cinema, Sport or Game.

- You can also adjust **Sound Mode** in the **Q. Menu**.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

SOUND SETTING ADJUSTMENT -USER MODE



- 1 Select **AUDIO**.
- 2 Select **Sound Mode**.
- 3 Select **Standard, Music, Cinema, Sport or Game**.
- 4 Select **Treble or Bass**.
- 5 Set the desired sound level.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

SRS TRUSURROUND XT

Select this option to sound realistic.

- 1 Select **AUDIO**.
- 2 Select **SRS TruSurround XT**.
- 3 Select **On or Off**.

SRS TruSurround XT : TruSurround XT is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers.

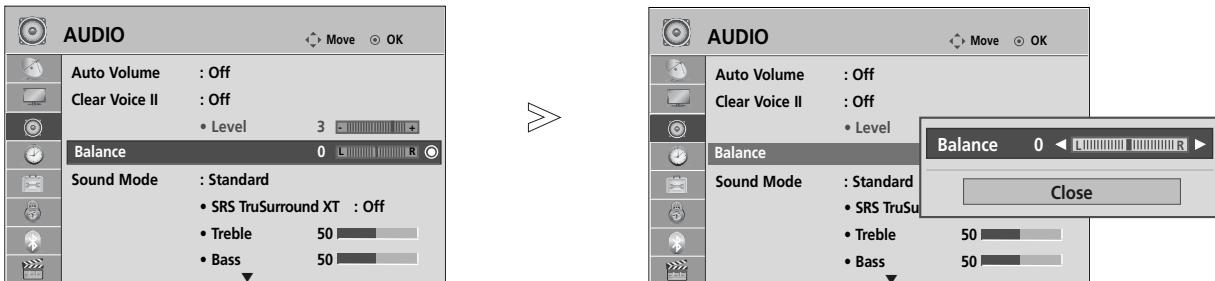
- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

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

SOUND & LANGUAGE CONTROL

BALANCE

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



1 Select **AUDIO**.

2 Select **Balance**.

3 Make desired adjustment.

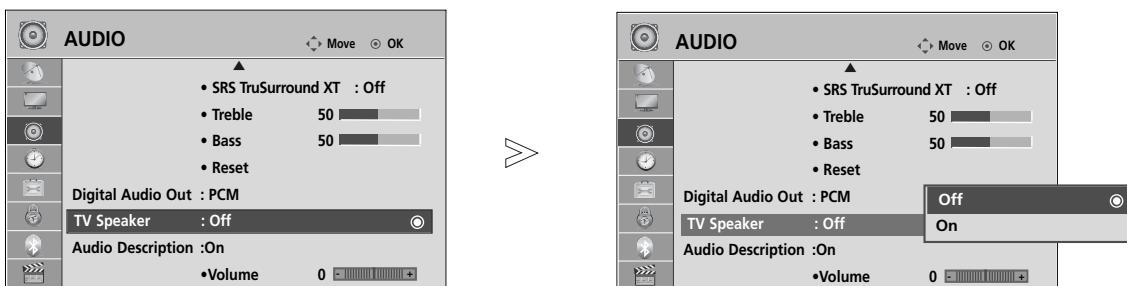
- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

TV SPEAKERS ON/ OFF SETUP

You can adjust the TV internal speaker status.

In **AV1**, **AV2**, **AV3**, **COMPONENT**, **RGB** and **HDMI1** with HDMI to DVI cable, the TV speaker can be operational even when there is no video signal.

If you wish to use an external Hi-Fi system, turn off the TV's internal speakers.



1 Select **AUDIO**.

2 Select **TV Speaker**.

3 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.

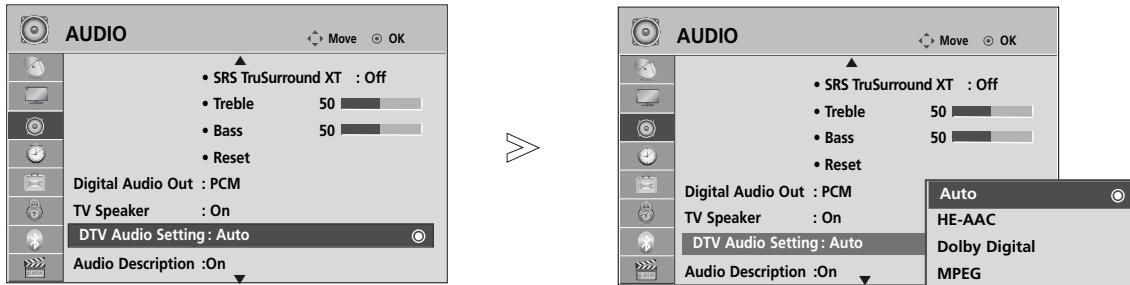
NOTE

- When the TV speaker is turned off while the Simplink home theater is operating, the sound output automatically switches to the Home theater speaker, but when the TV speaker is turned on, the sound output goes to the TV speaker.
- Some menus in **AUDIO** are disabled when TV Speaker is set to Off.

DTV AUDIO SETTING (IN DIGITAL MODE ONLY)

(This menu is enabled only in Sweden.)

When different audio types exist in an input signal, this function allows you to select the audio type you want.



- 1 Select **AUDIO**.
- 2 Select **DTV Audio Setting**.
- 3 Select **Auto, HE-AAC, Dolby Digital or MPEG**.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

- **Auto:** Automatically outputs in the order **HE-AAC > Dolby Digital > MPEG**.
- **HE-AAC, Dolby Digital, MPEG:** Allows users to select the audio type they want.
If **MPEG** is selected, **MPEG** is always outputted.
If **MPEG** is not supported, **HE-AAC** and **Dolby Digital** are selected in that order.
- Refer to p. 140 (Audio Language Selection)

SOUND & LANGUAGE CONTROL

SELECTING DIGITAL AUDIO OUT

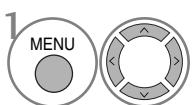
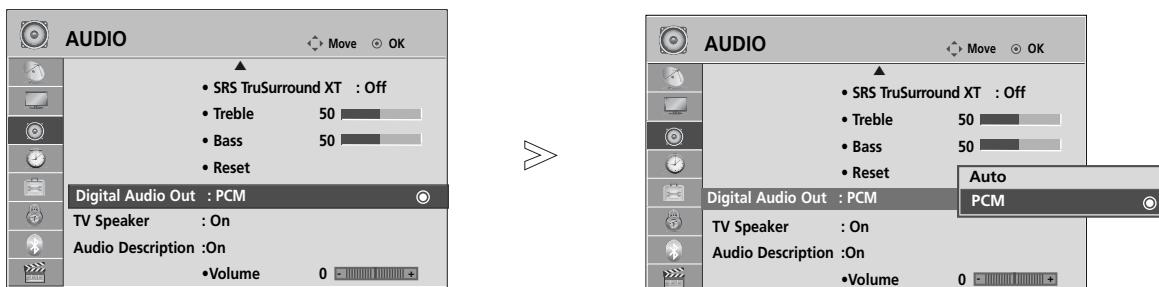
This function allows you to select your preferred Digital Audio Output.

The TV can only output DOLBY Digital if a channel is broadcast with Dolby Digital audio.

When Dolby digital is available, selecting Auto in the Digital Audio Out menu will set SPDIF(Sony Philips Digital Interface) output to Dolby Digital.

If Auto is selected in the digital audio out menu when dolby digital is not available, SPDIF output will be PCM(Pulse-code modulation).

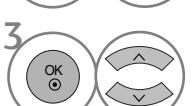
Even if both Dolby Digital and Audio language have been set in a channel which broadcast Dolby Digital Audio, only Dolby Digital will be played.



1 Select AUDIO.



2 Select Digital Audio Out.



3 Select Auto or PCM.



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

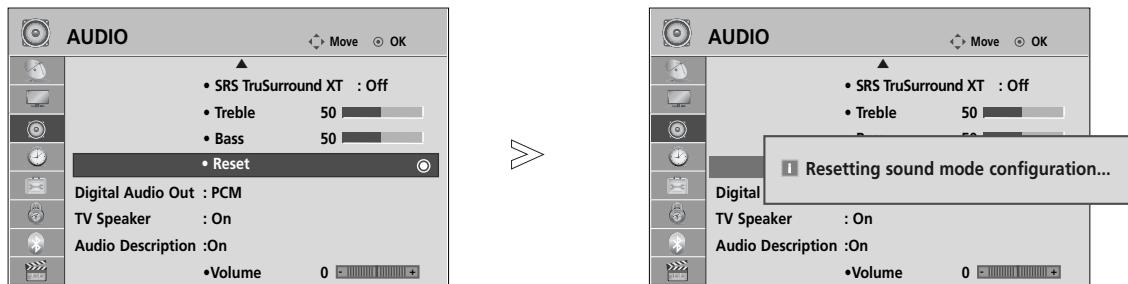
- There is a possibility that when HDMI mode, some DVD players do not make SPDIF sound. At that time, set the output of the digital audio of the DVD player to PCM. (In HDMI, Dolby Digital Plus is not supported).

Item	Audio Input	Digital Audio output
Auto(Speaker On)	MPEG DD DD+ HE-AAC	PCM DD DD PCM
Auto(Speaker Off)	MPEG DD DD+ HE-AAC	PCM DD DD DD
PCM	PCM	PCM

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

AUDIO RESET

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



- 1 Select **AUDIO**.
- 2 Select **Reset**.
- 3 Initialize the adjusted value.

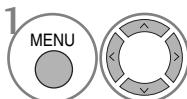
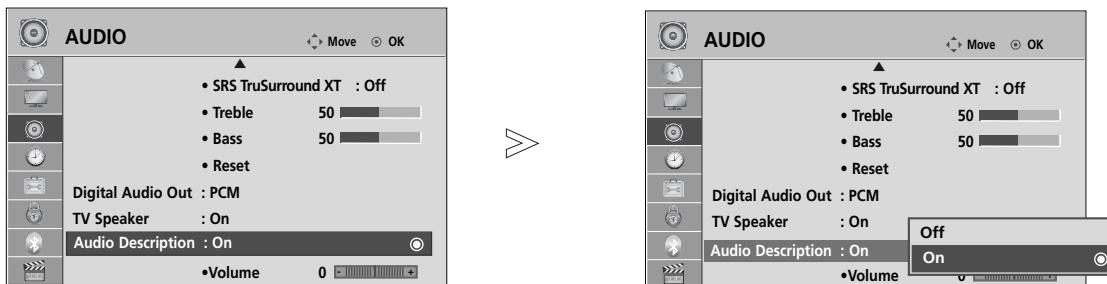
- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

SOUND & LANGUAGE CONTROL

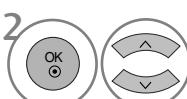
AUDIO DESCRIPTION (IN DIGITAL MODE ONLY)

This function is for the blind, and provides explanatory audio describing the current situation in a TV programme in addition to the basic audio.

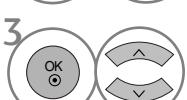
When Audio Description On is selected, basic audio and Audio Description are provided only for those programmes that have Audio Description included.



1 Select **AUDIO**.

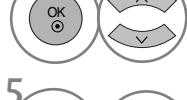


2 Select **Audio Description**.

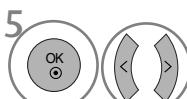


3 Select **On** or **Off**.

Adjustment for Audio Description Volume With selecting On



4 Select **Volume**.



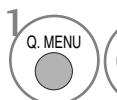
5 Make desired adjustment.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

I/II

Stereo/Dual Reception (In Analogue Mode Only)

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



Select **Audio**.



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.

■ 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 (In Analogue Mode Only)

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.

1 When **NICAM mono** is received, you can select **NICAM MONO** or **FM MONO**.

2 When **NICAM stereo** is received, you can select **NICAM STEREO** or **FM MONO**.
If the stereo signal is weak, switch to **FM MONO**.

3 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 / COUNTRY SELECTION

The installation guide menu appears on the TV screen when it is switched on for the first time.



Select your desired language.



Select your country.

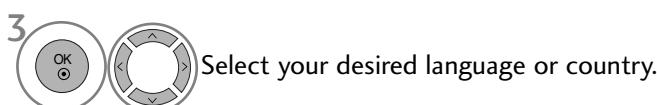
* If you want to change Language/ Country selection



Select **OPTION**.



Select **Menu Language or Country**.



Select your desired language or country.



Save.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

! NOTE

- If you do not finish the set-up **Installation Guide** by pressing **RETURN** or if you time out on the OSD (On Screen Display) the installation menu will continuously appear until the set up is completed whenever the TV is switched on.
- If you select the wrong local country, teletext may not appear correctly on the screen and some problems may occur during teletext operation.
- The CI (Common Interface) function may not be applied based on country broadcasting circumstances.
- DTV mode control buttons may not function based on country broadcasting circumstances.
- In country that Digital broadcasting regulation isn't fixed, some DTV function may not work depending on digital broadcasting circumstances.
- The Country Setting "UK" should only be activated in UK.
- If the country setting is set to "--", European terrestrial/cable digital standard broadcasting programmes are available, but some DTV functions may not work properly.

SOUND & LANGUAGE CONTROL

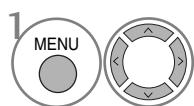
LANGUAGE SELECTION (IN DIGITAL MODE ONLY)

The Audio function allows selection of a preferred language.

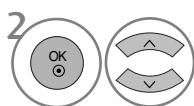
If audio data in a selected language is not broadcast, the default language audio will be played.

Use the Subtitle function when two or more subtitle languages are broadcast. If subtitle data in a selected language is not broadcast, the default language subtitle will be displayed.

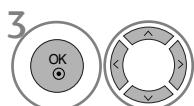
When the languages you selected as the primary for Audio Language and Subtitle Language are not supported, you can select language in secondary category.



Select **OPTION**.



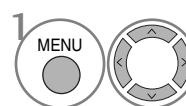
Select **Audio Language** or **Subtitle Language**.



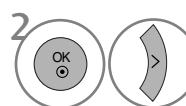
Select your desired language.



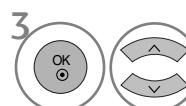
Save.



Select **OPTION**.



Select **Hard of Hearing (□)**.

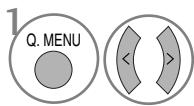


Select **On** or **Off**.

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

< Audio Language Selection >

- When two or more audio languages are broadcast, you can select the audio language.



Select **Audio**



Select an audio language.

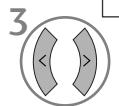
< Subtitle Language Selection >

- When two or more subtitle languages are broadcast, you can select the subtitle language with the **SUBTITLE** button on the remote control.
- Press the **^** **^** button to select a subtitle language.

- The audio/subtitles can be displayed in a simpler form with 1 to 3 characters broadcast by the service provider.
- When you select supplementary Audio (Audio for "Visual/Hearing Impaired") the TV may output a part of the Main audio.

Audio Language OSD Information

Display	Status
N.A	Not Available
MPEG	MPEG Audio
Dolby	Dolby Digital Audio
Visual Impaired	Audio for "Visual Impaired"
Hearing Impaired	Audio for "Hearing Impaired"
Dolby Digital Plus	Dolby Digital Plus Audio
AAC	AAC Audio



Select **L+R, L+L or R+R**.

Subtitle Language OSD Information

Display	Status
N.A	Not Available
Teletext	Teletext Subtitle
ABC	Subtitle for "Hard of Hearing"

TIME SETTING

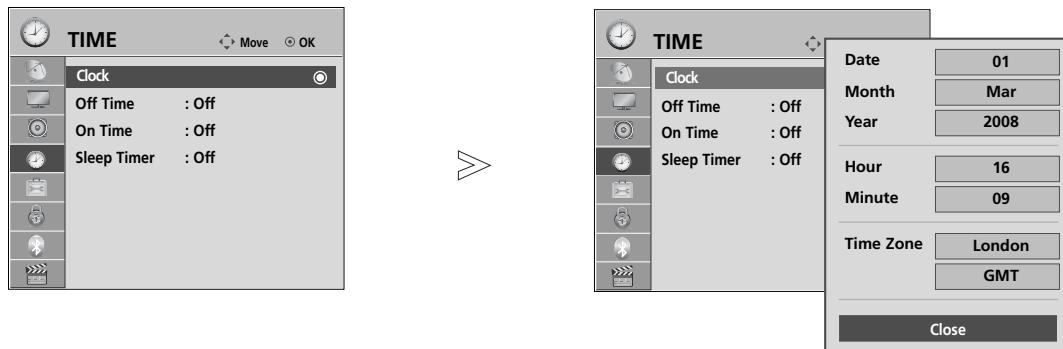
CLOCK SETUP

The clock is set automatically when receiving a digital signal. (You can set the clock manually only if the TV has no DTV signal.)

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

When you select a Time Zone city, the TV time is set by the time offset information based on Time Zone and GMT (Greenwich Mean Time) which is received with the broadcast signal and the time is set automatically by a digital signal.

Once Clock is set in DTV mode, you cannot change time, but if the city name in Time Zone is changed into offset, you can change time by 1 hour.



- 1   Select **TIME**.
- 2   Select **Clock**.
- 3   Select either the year, month, date, time or Time Zone option.
- 4  Set the year, month, date, time or Time Zone option.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

TIME SETTING

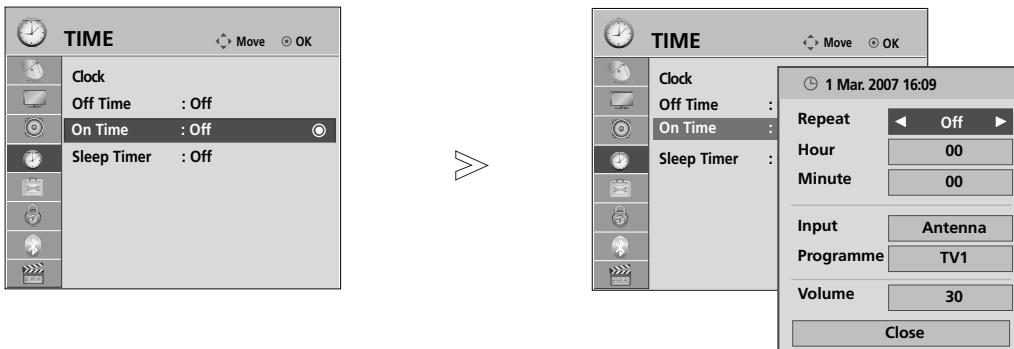
AUTO ON/OFF TIME SETTING

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.

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

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



TIME SETTING

- 1 Select **TIME**.
- 2 Select **Off Time** or **On Time**.
- 3 Select **Repeat**.
- 4 Select **Off**, **Once**, **Daily**, **Mon ~ Fri**, **Mon ~ Sat**, **Sat ~ Sun** or **Sun**.
- 5 Set the hour.
- 6 Set the minutes.

- To cancel **On/Off Time** function, select **Off**.
- For **On Time** function only

- 1 Select **Input**.
- 2 Select **Antenna** or **Cable**, **AV 1 ~ 3**, **Component**, **RGB** or **HDMI1**, **HDMI2** (Except for 19/22LH20**, 19/22LG31**), **HDMI3** (Except for 19/22LU40**, 19/22LU50**, 19/22/26/32/37/42LH20**, 32/37/42LF25**, 32/37/42LG2***, 32/37/42LG33**, 26LG31**), **HDMI4** (Only 32/37/42/47LH49**, 32/37/42/47LH50**, 32/37/42/47LH70**, 42/47LH90**, 50/60PS70**, 50/60PS80**).
- 3 Set the programme.
- 4 Adjust volume level at switch-on.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

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.

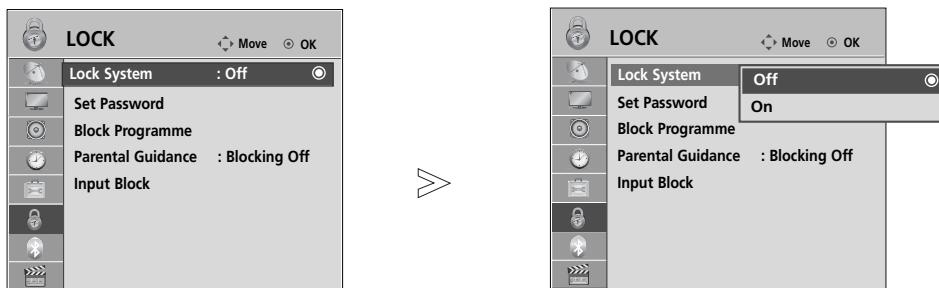


- When you switch the TV off, the preset sleep timer is cancelled.
- You can also adjust **Sleep Timer** in the **TIME** menu.

PARENTAL CONTROL / RATINGS

SET PASSWORD & LOCK SYSTEM

Enter the password, press '0', '0', '0', '0' on the remote control handset.
If a channel is locked, enter the password to unlock it temporarily.



- 1 Select **LOCK**.
- 2 Select **Lock System**.
- 3 Select **On**.
- 4 Set the password.
- 5 Input a 4-digit password.
Be sure to remember this number!
Re-enter new password for confirm.

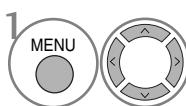
- If you forget your password, press '7', '7', '7', '7' on the remote control handset.

BLOCK PROGRAMME

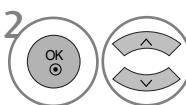
Blocks any programme that you do not want to watch or that you do not want your children to watch.

It is available to use this function in **Lock System "On"**.

Enter a password to watch a blocked programme.



1 Select **LOCK**.



2 Select **Block Programme**.



3 Enter the **Block Programme**.



4 Select a programme to be locked.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

PARENTAL CONTROL / RATINGS

PARENTAL CONTROL (IN DIGITAL MODE ONLY)

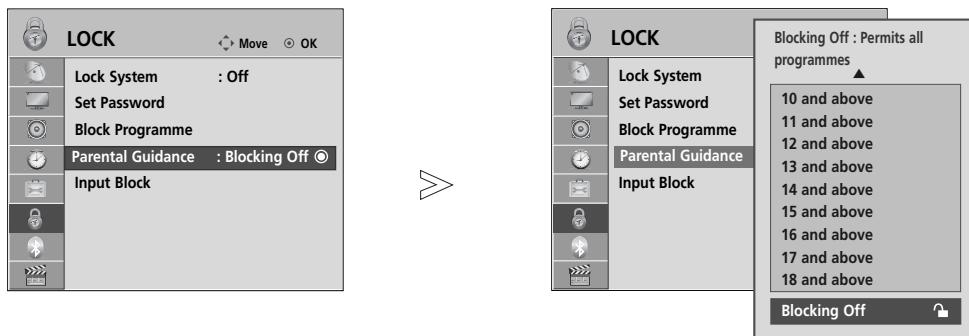
This function operates according to information from the broadcasting station. Therefore if the signal has incorrect information, this function does not operate.

A password is required to gain access to this menu.

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

Prevents children from watching certain adult's TV programmes, according to the ratings limit set.

Enter a password to watch a blocked programme.



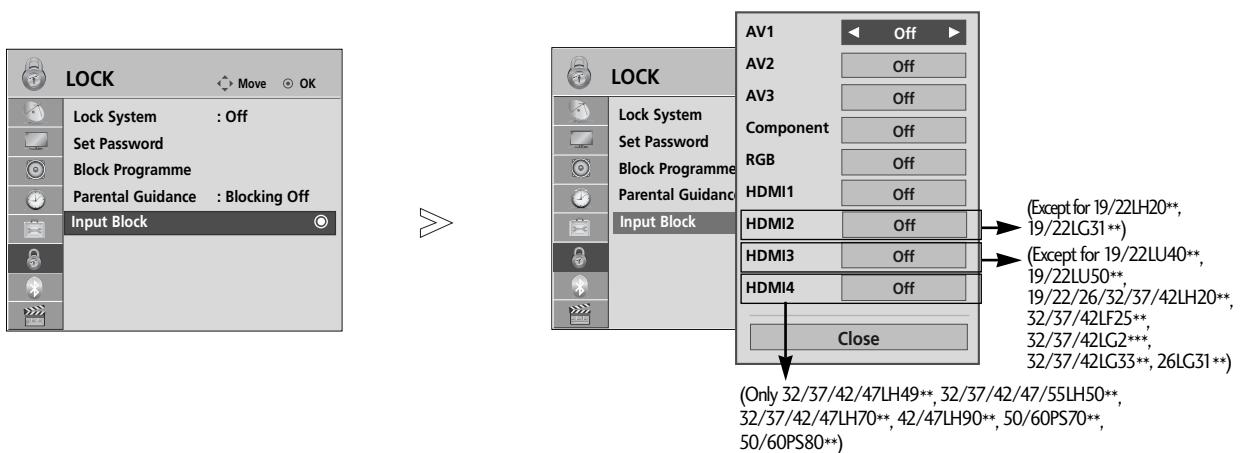
- 1 Select **LOCK**.
- 2 Select **Parental Guidance**.
- 3 Make appropriate adjustments.
- 4 Save.

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

EXTERNAL INPUT BLOCKING

Enables you to block an input.

It is available to use this function in **Lock System "On"**.



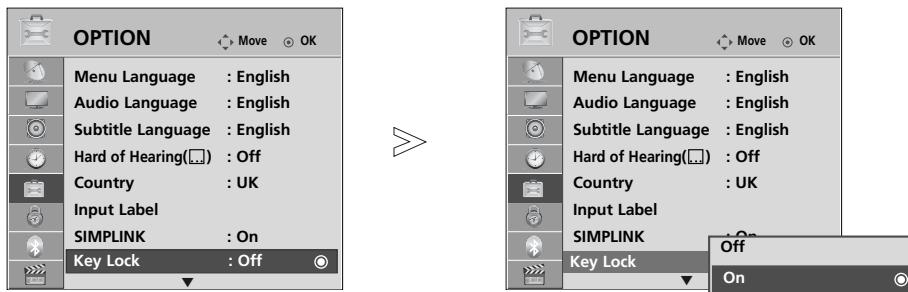
- 1   Select **LOCK**.
- 2   Select **Input Block**.
- 3   Select input source.
- 4   Select **On** or **Off**.
- 5  Save.

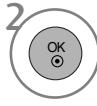
- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

PARENTAL CONTROL / RATINGS

KEY LOCK

The TV can be set so that the remote control is required to control it. This feature can be used to prevent unauthorized viewing.



- 1   Select **OPTION**.
- 2   Select **Key Lock**.
- 3   Select **On** or **Off**.
- 4  Save.

- In **Key Lock 'On'**, if the TV is turned off, press the \odot / I, INPUT, P \blacktriangle or \blacktriangledown (or P \wedge \vee) button on the TV or POWER INPUT, P \wedge \vee or NUMBER buttons on the remote control then the set will be turned on.
- 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. (Except for \odot / I button : Plasma TV only)

- Press the **MENU** button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

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.

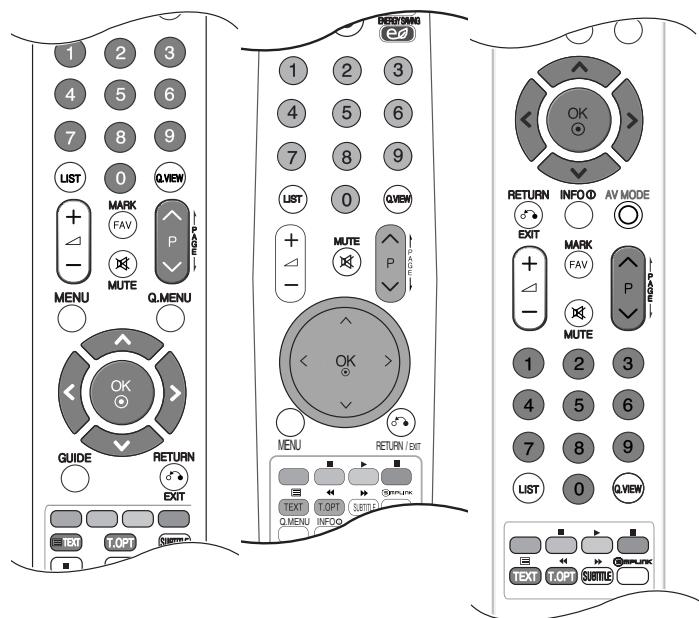
The teletext decoder of this TV can support the SIMPLE, TOP and FASTEXT systems. SIMPLE (standard teletext) consists of a number of pages which are selected by directly entering the corresponding page number. TOP and FASTEXT are more modern methods allowing quick and easy selection of teletext information.

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** 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 ^** **V** button can be used to select the preceding or following page.

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

- 1 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 ^** button can be used.
- 4 The red button returns to the previous selection. Alternatively the **P V** 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.

TELETEXT

FASTEXT

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

■ Page selection

- ① Press the **T.OPT** button and then use $\wedge \vee$ button to select  menu. Display 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.
- ④ The **P $\wedge \vee$** button can be used to select the preceding or following page.

SPECIAL TELETEXT FUNCTIONS

■ Press the **T. OPT** button and then use $\wedge \vee$ button to select the **Text Option** menu.



■ Index

Select the each index page.



■ Time

When viewing a TV programme, select this menu to display the time at the top right hand corner of the screen.

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, $< >$ or NUMBER buttons.



■ 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 menu is selected the stop symbol is displayed at the top left-hand corner of the screen and the automatic page change is inactive.



■ Reveal

Select this menu to display concealed information, such as solutions to riddles or puzzles.



■ 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. Select this menu again to view the updated teletext page.



DIGITAL TELETEXT

*This function works in UK, Ireland only.

The TV gives you access to digital teletext which is greatly improved in various aspects such as text, graphics etc. This digital teletext can access special digital teletext services and specific services which broadcast digital teletext.

You should select off in the subtitle language menu to display teletext by pressing the **SUBTITLE** button.

TELETEXT WITHIN DIGITAL SERVICE

- 1 Press the numeric or **P** \wedge \vee button to select a digital service which broadcasts digital teletext.
- 2 Follow the indications on digital teletext and move onto the next step by pressing **TEXT**, **OK**, \wedge \vee $<$ $>$, **RED**, **GREEN**, **YELLOW**, **BLUE** or **NUMBER** buttons and etc..
- 3 To change digital teletext service, select a different service by the numeric or **P** \wedge \vee button.



TELETEXT IN DIGITAL SERVICE

- 1 Press the numeric or **P** \wedge \vee button to select a certain service which broadcasts digital teletext.
- 2 Press the **TEXT** or coloured button to switch on teletext.
- 3 Follow the indications on digital teletext and move onto the next step by pressing **OK**, \wedge \vee $<$ $>$, **RED**, **GREEN**, **YELLOW**, **BLUE** or **NUMBER** buttons and so on.
- 4 Press the **TEXT** or colour button to switch off digital teletext and return to TV viewing.

Some services may allow you to access text services by pressing the **RED** button.



APPENDIX

TROUBLESHOOTING

The TV does not operate properly.

The remote control does not work	<ul style="list-style-type: none">Check to see if there is any object between the TV and the remote control causing an obstruction. Ensure you are pointing the remote control directly at the TV.Ensure that the batteries are installed with correct polarity (+ to +, - to -).Install new batteries.
Power is suddenly turned off	<ul style="list-style-type: none">Is the sleep timer set?Check the power control settings. Has the Power supply been interrupted.If the TV is switched on and there is no input signal, it will switch off automatically after 15 minutes.

The video function does not work.

No picture & No sound	<ul style="list-style-type: none">Check whether the TV is switched on.Try another channel. The problem may be with the broadcast.Is the power cord inserted correctly into the mains?Check your antenna direction and/or location.Test the mains outlet by plugging another TV into the same outlet.
Picture appears slowly after switching on	<ul style="list-style-type: none">This is normal, the image is muted during the TV startup process. Please contact your service centre, if the picture has not appeared after five minutes.
No or poor colour or poor picture	<ul style="list-style-type: none">Adjust Colour in menu option.Allow a sufficient distance between the TV and the VCR.Try another channel. The problem may be with the broadcast.Are the video cables installed properly?Activate any function to restore the brightness of the picture.
Horizontal/vertical bars or picture shaking	<ul style="list-style-type: none">Check for local interference such as an electrical appliance or power tool.
Poor reception on some channels	<ul style="list-style-type: none">Station or cable channel experiencing problems, tune to another station.Station signal is weak, reposition the antenna to receive weaker stations.Check for sources of possible interference.
Lines or streaks in pictures	<ul style="list-style-type: none">Check antenna (Change the position of the antenna).
No picture when connecting HDMI	<ul style="list-style-type: none">Check that your HDMI cable is version 1.3 or higher.If the HDMI cables don't support HDMI version 1.3, flickering or no screen display can result. Please use the latest cables that support at least HDMI version 1.3.

The audio function does not work.

Picture OK & No sound

- Press the  + or - button.
- Sound muted? Press **MUTE** button.
- Try another channel. The problem may be with the broadcast.
- Are the audio cables installed properly?

No output from one of the speakers

- Adjust **Balance** in menu option.

Unusual sound from inside the 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

- Check HDMI cable over version 1.3.
- Check USB cable over version 2.0.

*This feature is not available for all models.

There is a problem in PC mode. (Only PC mode applied)

The signal is out of range (Invalid format)

- Adjust resolution, horizontal frequency, or vertical frequency.
- Check the input source.

Vertical bar or stripe on background & Horizontal Noise & Incorrect position

- Use Auto configure or adjust clock, phase, or H/V position. (Option)

Screen colour is unstable or single colour

- Check the signal cable.
- Reinstall the PC video card.

There is a problem with PICTURE settings.

When the user changes the picture settings, the TV automatically converts back to the initial settings after a certain period of time.

- It means that the TV is currently set to **Store Demo** mode. To switch to **Home use** mode you should do the followings:
From the TV Menu, choose **OPTION** -> Choose **Mode Setting** -> Choose **Home use**. Now, you have completed switching to the **Home use** mode.

APPENDIX

MAINTENANCE

Early malfunctions can be prevented. Careful and regular cleaning can prolong the life of your new TV.

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

Cleaning the Screen

- 1 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 is 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 use a wet cloth.

Extended Absence

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		32LH40**		37LH40**	
		32LH4000-ZA	32LH4010-ZD 32LH4020-ZC	37LH4000-ZA	37LH4010-ZD 37LH4020-ZC
Dimensions (Width x Height x Depth)	with stand	804.4 x 586.3 x 223.8 mm 31.7 x 23.1 x 8.8 inches	804.4 x 589.1 x 210.9 mm 31.7 x 23.2 x 8.3 inches	924.7 x 666.7 x 296.2mm 36.4x 26.3 x 11.7 inches	924.7 x 667.7 x 270.6mm 36.4x 26.3 x 10.7 inches
	without stand	804.4 x 529.2 x 81.0mm 31.7 x 20.9 x 3.2 inches	804.4 x 529.2 x 81.0mm 31.7 x 20.9 x 3.2 inches	924.7 x 599.9x 89.6mm 36.4x 23.6 x 3.5 inches	924.7 x 599.9x 89.6mm 36.4x 23.6 x 3.5 inches
Weight	with stand	12.7 kg / 28.0 lbs	12.7 kg / 28.0 lbs	15.8 kg / 34.9 lbs	15.8 kg / 34.9 lbs
	without stand	11.5 kg / 25.4 lbs	11.5 kg / 25.4 lbs	14.0 kg / 30.9 lbs	14.0 kg / 30.9 lbs
Power requirement		AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz
Power Consumption		150W	150W	180W	180W
MODELS		42LH40**		47LH40**	
		42LH4000-ZA	42LH4010-ZD 42LH4020-ZC	47LH4000-ZA	47LH4010-ZD 47LH4020-ZC
Dimensions (Width x Height x Depth)	with stand	1036.0 x 721.3 x 296.2 mm 40.8 x 28.4 x 11.7 inches	1036.0 x 722.3 x 270.6 mm 40.8 x 28.5 x 10.7 inches	1153.2 x 791.5x 337.4mm 45.4x 31.2 x 13.3 inches	1153.2 x 793.3x 319.0mm 45.4x 31.3 x 12.6 inches
	without stand	1036.0 x 655.4 x 89.8mm 40.8x 25.8 x 3.6 inches	1036.0 x 655.4 x 89.8mm 40.8x 25.8 x 3.6 inches	1153.2x 719.0x 99.8mm 45.4x 28.3 x 3.9 inches	1153.2x 719.0x 99.8mm 45.4x 28.3 x 3.9 inches
Weight	with stand	18.9 kg / 41.7 lbs	18.9 kg / 41.7 lbs	22.2 kg / 49.0 lbs	22.2 kg / 49.0 lbs
	without stand	17.1 kg / 37.7 lbs	17.1 kg / 37.7 lbs	19.6 kg / 43.2 lbs	19.6 kg / 43.2 lbs
Power requirement		AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz
Power Consumption		210W	210W	280W	280W
CI Module Size (Width x Height x Depth)		100.0 x 55.0 x 5.0mm 3.94 x 2.17 x 0.20inches			
Environment condition	Operating Temperature	0 ~ 40°C / 32 ~ 104°F			
	Operating Humidity	Less than 80%			
	Storage Temperature	-20 ~ 60°C / -4 ~ 140°F			
	Storage Humidity	Less than 85%			

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

APPENDIX

MODELS		32LH50**		37LH50**	
		32LH5000-ZB	32LH5010-ZD 32LH5020-ZE	37LH5000-ZB	37LH5010-ZD 37LH5020-ZE
Dimensions (Width x Height x Depth)	with stand	815.0 x 583.8 x 223.8mm 32.1 x 23.0 x 8.8 inches	815.0 x 585.6 x 210.9mm 32.1 x 23.1 x 8.3 inches	940.8 x 665.2 x 296.2mm 37.1 x 26.2 x 11.7 inches	940.8 x 666.2 x 270.6mm 37.1 x 26.2 x 10.7 inches
	without stand	815.0 x 529.6 x 82.0 mm 32.1 x 20.9 x 3.2 inches	815.0 x 529.6 x 82.0 mm 32.1 x 20.9 x 3.2 inches	940.8 x 603.5 x 90.6mm 37.1 x 23.8 x 3.6 inches	940.8 x 603.5 x 90.6mm 37.1 x 23.8 x 3.6 inches
Weight	with stand	12.6 kg / 27.8 lbs	12.6 kg / 27.8 lbs	16.3 kg / 35.9 lbs	16.3 kg / 35.9 lbs
	without stand	11.4 kg / 25.2 lbs	11.4 kg / 25.2 lbs	14.5 kg / 32.0 lbs	14.5 kg / 32.0 lbs
Power requirement		AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz
Power Consumption		150W	150W	180W	180W
MODELS		42LH50**		47LH50**	
		42LH5000-ZB	42LH5010-ZD 42LH5020-ZE	47LH5000-ZB	47LH5010-ZD 47LH5020-ZE
Dimensions (Width x Height x Depth)	with stand	1052.2 x 719.1 x 296.2mm 41.5 x 28.3 x 11.7 inches	1052.2 x 720.1 x 270.6mm 41.5 x 28.4 x 10.7 inches	1173.4 x 789.7 x 337.4mm 46.2 x 31.1 x 13.3 inches	1173.4 x 791.4 x 319.0mm 46.2 x 31.2 x 12.6 inches
	without stand	1052.2 x 657.3 x 90.8mm 41.5 x 25.9 x 3.6 inches	1052.2 x 657.3 x 90.8mm 41.5 x 25.9 x 3.6 inches	1173.4 x 723.4 x 100.8mm 46.2 x 28.5 x 4.0 inches	1173.4 x 723.4 x 100.8mm 46.2 x 28.5 x 4.0 inches
Weight	with stand	19.0 kg / 41.9 lbs	19.0 kg / 41.9 lbs	23.4 kg / 51.6 lbs	23.6 kg / 52.0 lbs
	without stand	17.2 kg / 37.9 lbs	17.2 kg / 37.9 lbs	20.8 kg / 45.9 lbs	20.8 kg / 45.9 lbs
Power requirement		AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz
Power Consumption		210W	210W	260W	260W
CI Module Size (Width x Height x Depth)		100.0 x 55.0 x 5.0mm 3.94 x 2.17 x 0.20 inches			
Environment condition	Operating Temperature	0 ~ 40°C / 32 ~ 104°F			
	Operating Humidity	Less than 80%			
	Storage Temperature	-20 ~ 60°C / -4 ~ 140°F			
	Storage Humidity	Less than 85%			
Supported movie files		Refer to p.104			

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

MODELS		55LH50** 55LH5000-ZB
Dimensions (Width x Height x Depth)	with stand	1357.0 x 901.0 x 423.0 mm 53.4 x 35.5 x 16.7 inches
	without stand	1357.0 x 835.4 x 109.6 mm 53.4 x 32.9 x 4.3 inches
Weight	with stand	36.4 kg / 80.2 lbs
	without stand	32.9 kg / 72.5 lbs
Power requirement Power Consumption		AC100-240V~ 50/60Hz 350W
MODELS		42LH90** 42LH9000-ZA
Dimensions (Width x Height x Depth)	with stand	1065.9 x 776 x 361.7 mm 42 x 30.5 x 14.2 inches
	without stand	1065.9 x 716.4 x 94.4 mm 42 x 28.2 x 3.7 inches
Weight	with stand	23.2 kg / 51.1 lbs
	without stand	19.5 kg / 42.9 lbs
Power requirement Power Consumption		AC100-240V~ 50/60Hz 190W
CI Module Size (Width x Height x Depth)		100.0 x 55.0 x 5.0mm 3.94 x 2.17 x 0.20inches
Environment condition	Operating Temperature	0 ~ 40°C / 32 ~ 104°F
	Operating Humidity	Less than 80%
	Storage Temperature	-20 ~ 60°C / -4 ~ 140°F
	Storage Humidity	Less than 85%
Supported movie files		Refer to p.104

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

APPENDIX

MODELS		19LG31**	22LG31**	26LG31**
		19LG3100-ZA	22LG3100-ZA	26LG3100-ZA
Dimensions (Width x Height x Depth)	with stand	458.8 x 391.0 x 189.2 mm 18.1 x 15.4 x 7.5 inches	522.2 x 431.5 x 189.0 mm 20.6 x 17.0 x 7.5 inches	663.3 x 508.2 x 227.3 mm 26.1 x 20.1 x 9.0 inches
	without stand	458.8 x 344.5 x 69.0 mm 18.1 x 13.6 x 2.7 inches	522.2 x 384.2 x 69.0 mm 20.6 x 15.2 x 2.7 inches	663.3 x 449.8 x 80.0 mm 26.1 x 17.8 x 3.2 inches
Weight	with stand	4.5 kg / 9.9 lbs	5.6 kg / 12.4 lbs	10.1 kg / 22.3 lbs
	without stand	4.2 kg / 9.3 lbs	5.34 kg / 11.8 lbs	8.6 kg / 19.0 lbs
Power requirement		AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz
Power Consumption		50W	55W	110W
MODELS		32LG33**	37LG33**	42LG33**
		32LG3300-ZA	37LG3300-ZA	42LG3300-ZA
Dimensions (Width x Height x Depth)	with stand	801.8 x 604.2 x 2273 mm 31.6 x 23.8 x 9.0 inches	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
	without stand	801.8 x 544.1 x 79.0 mm 31.6 x 21.5 x 3.2 inches	919.6 x 610.3 x 89.0 mm 36.2 x 24.0 x 3.5 inches	1032.8 x 670.1 x 92.0 mm 40.7 x 26.4 x 3.7 inches
Weight	with stand	13.4 kg / 29.6 lbs	18.8 kg / 41.5 lbs	23.6 kg / 52.1 lbs
	without stand	11.9 kg / 26.3 lbs	16.2 kg / 35.7 lbs	21.0 kg / 46.3 lbs
Power requirement		AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz
Power Consumption		150W	180W	210W
MODELS		32LF51**	42LF51**	47LF51**
		32LF5100-ZA	42LF5100-ZA	47LF5100-ZA
Dimensions (Width x Height x Depth)	with stand	813.8 x 598.8 x 227.3 mm 32.1 x 23.6 x 9.2 inches	1034.0 x 735.0 x 293.8 mm 40.7 x 35.3 x 11.6 inches	1156.2 x 813.1 x 342.9 mm 45.6 x 32.0 x 13.5 inches
	without stand	813.8 x 540.4 x 79.0 mm 32.1 x 21.3 x 3.8 inches	1034.0 x 663.0 x 92.0 mm 40.7 x 26.1 x 3.5 inches	1156.2 x 739.2 x 103.0 mm 45.6 x 29.1 x 4.1 inches
Weight	with stand	14.1 kg / 31.1 lbs	22.5 kg / 49.6 lbs	29.2 kg / 64.4 lbs
	without stand	12.6 kg / 27.8 lbs	20.0 kg / 44.1 lbs	24.6 kg / 54.2 lbs
Power requirement		AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz
Power Consumption		150W	210W	280W
CI Module Size (Width x Height x Depth)		100.0 x 55.0 x 5.0mm 3.94 x 2.17 x 0.20inches		
Environment condition	Operating Temperature	0 ~ 40°C / 32 ~ 104°F		
	Operating Humidity	Less than 80%		
	Storage Temperature	-20 ~ 60°C / -4 ~ 140°F		
	Storage Humidity	Less than 85%		

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

MODELS		19LU50**	22LU50**	26LU50**
		19LU5000-ZA 19U5010-ZB 19LU5020-ZC	22LU5000-ZA 22U5010-ZB 22LU5020-ZC	26LU5000-ZA 26U5010-ZB 26LU5020-ZC
Dimensions (Width x Height x Depth)	with stand	462.0 x 373.0 x 182.0 mm 18.2 x 14.7 x 7.2 inches	529.1 x 416.6 x 196.0 mm 20.9 x 16.4 x 7.7 inches	668.0 x 538.3 x 236 mm 26.3 x 21.2 x 9.3 inches
	without stand	462.0 x 305.0 x 65.0 mm 18.2 x 12.0 x 2.6 inches	529.1 x 342.3 x 65.0 mm 20.9 x 13.5 x 2.6 inches	668.0 x 456.0 x 81.0 mm 26.3 x 18.0 x 3.2 inches
Weight	with stand	4.4 kg / 9.7 lbs	5.4 kg / 11.9 lbs	8.9 kg / 19.6 lbs
	without stand	3.7 kg / 8.2 lbs	4.6 kg / 10.2 lbs	7.7 kg / 17.0 lbs
Power requirement		AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz
Power Consumption		40W	55W	110W
MODELS		19LU40**	22LU40**	
		19LU4000-ZB	19LU4010-ZC	22LU4000-ZB
Dimensions (Width x Height x Depth)	with stand	474.0 x 390.0 x 182.0 mm 18.7 x 15.4 x 7.2 inches	474.0 x 390.0 x 182.0 mm 18.7 x 15.4 x 7.2 inches	542.9 x 429.3 x 196.0 mm 21.4 x 16.9 x 7.7 inches
	without stand	474.0 x 357.9 x 65.0 mm 18.7 x 14.1 x 2.6 inches	474.0 x 357.9 x 65.0 mm 18.7 x 14.1 x 2.6 inches	542.9 x 397.8 x 65.0 mm 21.4 x 15.7 x 2.6 inches
Weight	with stand	4.4 kg / 9.7 lbs	4.4 kg / 9.7 lbs	5.5 kg / 12.1 lbs
	without stand	3.9 kg / 8.6 lbs	3.9 kg / 8.6 lbs	5.0 kg / 11.0 lbs
Power requirement		AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz
Power Consumption		40W	40W	55W
CI Module Size (Width x Height x Depth)		100.0 x 55.0 x 5.0mm 3.94 x 2.17 x 0.20 inches		
Environment condition	Operating Temperature	0 ~ 40°C / 32 ~ 104°F		
	Operating Humidity	Less than 80%		
	Storage Temperature	-20 ~ 60°C / -4 ~ 140°F		
	Storage Humidity	Less than 85%		

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

APPENDIX

MODELS		19LH20**		22LH20**			
		19LH2000-ZA / 19LH2010-ZB 19LH2020-ZC / 19LH201C-ZA		22LH2000-ZA / 22LH2010-ZB 22LH2020-ZC / 22LH201C-ZA			
Dimensions (Width x Height x Depth)	with stand	462.4 x 353.0 x 171.0 mm 18.2 x 13.9 x 6.8 inches		533.4 x 397.0 x 171.0 mm 21.0 x 15.7 x 6.8 inches			
	without stand	462.4 x 308.0 x 65.0 mm 18.2 x 12.2 x 2.6 inches		533.4 x 351.7 x 65.0 mm 21.0 x 13.9 x 2.6 inches			
Weight	with stand	3.8 kg / 8.4 lbs		4.8 kg / 10.6 lbs			
	without stand	3.6 kg / 8.0 lbs		4.6 kg / 10.2 lbs			
Power requirement		AC100-240V~ 50/60Hz		AC100-240V~ 50/60Hz			
Power Consumption		40W		55W			
MODELS		26LH20**		32LH20**			
		26LH2000-ZA 26LH2020-ZC 26LH201C-ZA	26LH2010-ZB	32LH2000-ZA 32LH2020-ZC 32LH201C-ZA	32LH2010-ZB		
Dimensions (Width x Height x Depth)	with stand	667.0 x 504.0 x 224.0 mm 26.3 x 19.9 x 8.8 inches	667.0 x 507.0 x 211.0 mm 26.3 x 20.0 x 8.3 inches	805.0 x 583.0 x 224.0 mm 31.7 x 23.0 x 8.8 inches	805.0 x 586.0 x 211.0 mm 31.7 x 23.1 x 8.3 inches		
	without stand	667.0 x 446.2 x 80.0 mm 26.3 x 17.6 x 3.2 inches	667.0 x 446.2 x 80.0 mm 26.3 x 17.6 x 3.2 inches	805.0 x 528.0 x 79.9mm 31.7 x 20.8 x 3.2 inches	805.0 x 528.0 x 79.9mm 31.7 x 20.8 x 3.2 inches		
Weight	with stand	8.9 kg / 19.7 lbs	8.9 kg / 19.7 lbs	11.5 kg / 25.4 lbs	11.5 kg / 25.4 lbs		
	without stand	7.8 kg / 17.2 lbs	7.8 kg / 17.2 lbs	10.3 kg / 22.7 lbs	10.3 kg / 22.7 lbs		
Power requirement		AC100-240V~ 50/60Hz		AC100-240V~ 50/60Hz			
Power Consumption		110W		150W			
MODELS		37LH20**		42LH20**			
		37LH2000-ZA 37LH2020-ZC 37LH201C-ZA	37LH2010-ZB	42LH2000-ZA 42LH2020-ZC 42LH201C-ZA	42LH2010-ZB		
Dimensions (Width x Height x Depth)	with stand	922.0 x 659.0 x 2970mm 36.3x 26.0 x 11.7 inches	922.0 x 660.0x 270.6mm 36.3x 26.0 x 10.7 inches	1028.0 x 715.4 x 2970mm 40.5x 28.2 x 11.7 inches	1028.0 x 716.4 x 270.6mm 40.5x 28.2 x 10.7 inches		
	without stand	922.0 x 595.0x 88.0mm 36.3x 23.4 x 3.5 inches	922.0 x 595.0x 88.0mm 36.3x 23.4 x 3.5 inches	1028.0 x 655.0x 88.7mm 40.5 x 25.8 x 3.5 inches	1028.0 x 655.0x 88.7mm 40.5 x 25.8 x 3.5 inches		
Weight	with stand	14.8 kg / 32.6 lbs	14.8 kg / 32.6 lbs	18.0 kg / 39.7 lbs	18.0 kg / 39.7 lbs		
	without stand	13.0 kg / 28.7 lbs	13.0 kg / 28.7 lbs	16.2 kg / 35.7 lbs	16.2 kg / 35.7 lbs		
Power requirement		AC100-240V~ 50/60Hz		AC100-240V~ 50/60Hz			
Power Consumption		180W		210W			
CI Module Size (Width x Height x Depth)		100.0 x 55.0 x 5.0mm 3.94 x 2.17 x 0.20inches					
Environment condition	Operating Temperature	0 ~ 40°C / 32 ~ 104°F					
	Operating Humidity	Less than 80%					
	Storage Temperature	-20 ~ 60°C / -4 ~ 140°F					
	Storage Humidity	Less than 85%					

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

MODELS		32LH3***		37LH3***	
		32LH3000-ZA 32LH3020-ZD 32LH3800-ZD 32LH301C-ZA	32LH3010-ZB/ 32LH3030-ZE/ 32LH3040-ZG	37LH3000-ZA 37LH3020-ZD 37LH3800-ZD 37LH301C-ZA	37LH3010-ZB/ 37LH3030-ZE/ 37LH3040-ZG
Dimensions (Width x Height x Depth)	with stand	805.0 x 583.0 x 224.0 mm 31.7 x 23.0 x 8.8 inches	805.0 x 586.0 x 211.0 mm 31.7 x 23.1 x 8.3 inches	922.0 x 659.0 x 297.0mm 36.3 x 26.0 x 11.7 inches	922.0 x 660.0 x 270.6mm 36.3 x 26.0 x 10.7 inches
	without stand	805.0 x 531.0 x 79.9mm 31.7 x 20.9 x 3.2 inches	805.0 x 531.0 x 79.9mm 31.7 x 20.9 x 3.2 inches	922.0 x 595.0 x 88.0mm 36.3 x 23.4 x 3.5 inches	922.0 x 595.0 x 88.0mm 36.3 x 23.4 x 3.5 inches
Weight	with stand	12.1 kg / 26.7 lbs	12.1 kg / 26.7 lbs	14.9 kg / 32.9 lbs	14.9 kg / 32.9 lbs
	without stand	11.0 kg / 24.3 lbs	11.0 kg / 24.3 lbs	13.1 kg / 28.9 lbs	13.1 kg / 28.9 lbs
Power requirement		AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz
Power Consumption		150W, 110W (32LH3800)	150W	180W, 120W (37LH3800)	180W
MODELS		42LH3***		47LH3***	
		42LH3000-ZA 42LH3020-ZD 42LH3800-ZD 42LH301C-ZA	42LH3010-ZB/ 42LH3030-ZE/ 42LH3040-ZG	47LH3000-ZA 47LH3020-ZD 47LH301C-ZA	47LH3010-ZB/ 47LH3030-ZE/ 47LH3040-ZG
Dimensions (Width x Height x Depth)	with stand	1028.0 x 715.4 x 297.0mm 40.5x 28.2 x 11.7 inches	1028.0 x 716.4 x 270.6mm 40.5x 28.2 x 10.7 inches	1140.6 x 784.8 x 337.4 mm 44.9 x 30.9 x 13.3 inches	1140.6 x 788.3 x 318.9 mm 44.9 x 31.0 x 12.6 inches
	without stand	1028.0x 658.6x 88.7mm 40.5 x 25.9 x 3.5 inches	1028.0x 658.6x 88.7mm 40.5 x 25.9 x 3.5 inches	1140.6 x 722.9 x 99.0 mm 44.9 x 28.5 x 3.9 inches	1140.6 x 722.9 x 99.0 mm 44.9 x 28.5 x 3.9 inches
Weight	with stand	18.0 kg / 39.7 lbs	18.0 kg / 39.7 lbs	22.5 kg / 49.6 lbs	22.5 kg / 49.6 lbs
	without stand	16.2 kg / 35.7 lbs	16.2 kg / 35.7 lbs	19.9 kg / 43.9 lbs	19.9 kg / 43.9 lbs
Power requirement		AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz
Power Consumption		210W, 150W (42LH3800)	210W	280W	280W
CI Module Size (Width x Height x Depth)		100.0 x 55.0 x 5.0mm 3.94 x 2.17 x 0.20inches			
Environment condition	Operating Temperature	0 ~ 40°C / 32 ~ 104°F			
	Operating Humidity	Less than 80%			
	Storage Temperature	-20 ~ 60°C / -4 ~ 140°F			
	Storage Humidity	Less than 85%			

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

APPENDIX

MODELS		32LH70** 32LH7000-ZA/32LH7010-ZD 32LH7020-ZC/32LH7030-ZE	37LH70** 37LH7000-ZA/37LH7010-ZD 37LH7020-ZC/37LH7030-ZE
Dimensions (Width x Height x Depth)	with stand	803 x 632.9 x 284.8 mm 31.6 x 24.9 x 11.2 inches	903x 689.1x 299.5mm 35.5x 27.1 x 11.7inches
	without stand	803 x 584.2 x 75mm 31.6 x 23 x 2.9 inches	903 x 639.4x 51.8mm 35.5 x 25.1 x 2.0inches
Weight	with stand	13.5kg / 29.7 lbs	16.2kg / 35.7 lbs
	without stand	11.6kg / 25.5 lbs	14.1 kg / 31.0lbs
Power requirement Power Consumption		AC100-240V~ 50/60Hz 150W	AC100-240V~ 50/60Hz 180W
MODELS		42LH70** 42LH7000-ZA/42LH7010-ZD 42LH7020-ZC/42LH7030-ZE	47LH70** 47LH7000-ZA/47LH7010-ZD 47LH7020-ZC/47LH7030-ZE
Dimensions (Width x Height x Depth)	with stand	1009.7 x 753.6 x 334.4 mm 39.7 x 29.6x 13.1 inches	1123.5 x 823.4x 372.8 mm 44.2 x 32.4 x 14.7 inches
	without stand	1009.7 x 695.4 x 39.7 mm 39.7 x 27.3 x 1.5inches	1123.5 x 765.4x 40.9 mm 44.2 x 30.1 x 1.6inches
Weight	with stand	19.8 kg / 43.7 lbs	26.4 kg / 58.2 lbs
	without stand	17.2 kg / 37.9lbs	22.8 kg / 50.2 lbs
Power requirement Power Consumption		AC100-240V~ 50/60Hz 230W	AC100-240V~ 50/60Hz 300W
CI Module Size (Width x Height x Depth)		100.0 x 55.0 x 5.0mm 3.94 x 2.17 x 0.20inches	
Environment condition	Operating Temperature	0 ~ 40°C / 32 ~ 104°F	
	Operating Humidity	Less than 80%	
	Storage Temperature	-20 ~ 60°C / -4 ~ 140°F	
	Storage Humidity	Less than 85%	
Supported movie files		Refer to p.104	

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

MODELS		32LH49** 32LH4900-ZD	37LH49** 37LH4900-ZD
Dimensions (Width x Height x Depth)	with stand	804.4 x 589.1 x 210.9 mm 31.7 x 23.2 x 8.3 inches	924.7 x 667.7 x 270.6 mm 36.4 x 26.3 x 10.7 inches
	without stand	804.4 x 529.2 x 81.0 mm 31.7 x 20.9 x 3.2 inches	924.7 x 599.9 x 89.6 mm 36.4 x 23.6 x 3.5 inches
Weight	with stand	12.7 kg / 28.0 lbs	15.8 kg / 34.9 lbs
	without stand	11.5 kg / 25.4 lbs	14.0 kg / 30.9 lbs
Power requirement Power Consumption		AC100-240V~ 50/60Hz 150W	AC100-240V~ 50/60Hz 180W
MODELS		42LH49** 42LH4900-ZD	47LH49** 47LH4900-ZD
Dimensions (Width x Height x Depth)	with stand	1036.0 x 722.3 x 270.6 mm 40.8 x 28.5 x 10.7 inches	1153.2 x 793.3 x 319.0 mm 45.4 x 31.3 x 12.6 inches
	without stand	1036.0 x 655.4 x 89.8 mm 40.8 x 25.8 x 3.6 inches	1153.2 x 719.0 x 99.8 mm 45.4 x 28.3 x 3.9 inches
Weight	with stand	18.9 kg / 41.7 lbs	22.2 kg / 49.0 lbs
	without stand	17.1 kg / 37.7 lbs	19.6 kg / 43.2 lbs
Power requirement Power Consumption		AC100-240V~ 50/60Hz 210W	AC100-240V~ 50/60Hz 260W
CI Module Size (Width x Height x Depth)		100.0 x 55.0 x 5.0 mm 3.94 x 2.17 x 0.20 inches	
Environment condition	Operating Temperature	0 ~ 40°C / 32 ~ 104°F	
	Operating Humidity	Less than 80%	
	Storage Temperature	-20 ~ 60°C / -4 ~ 140°F	
	Storage Humidity	Less than 85%	
Supported movie files		Refer to p.104	

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

APPENDIX

MODELS		32LF25**		37LF25**			
		32LF2500-ZA	32LF2510-ZB	37LF2500-ZA	37LF2510-ZB		
Dimensions (Width x Height x Depth)	with stand	801.8 x 604.2 x 227.8 mm 31.6 x 23.8 x 9.0 inches	801.8 x 604.2 x 227.3 mm 31.6 x 23.8 x 9.0 inches	919.6 x 682.3 x 289.0 mm 36.2 x 26.9 x 11.4 inches	919.6 x 682.3 x 293.8 mm 36.2 x 26.9 x 11.6 inches		
	without stand	801.8 x 544.1 x 79.0 mm 31.6 x 21.5 x 3.2 inches	801.8 x 544.1 x 79.0 mm 31.6 x 21.5 x 3.2 inches	919.6 x 610.3 x 89.0 mm 36.2 x 24.0 x 3.5 inches	919.6 x 610.3 x 89.0 mm 36.2 x 24.0 x 3.5 inches		
Weight	with stand	13.4 kg / 29.6 lbs	13.4 kg / 29.6 lbs	18.8 kg / 41.5 lbs	18.8 kg / 41.5 lbs		
	without stand	11.9 kg / 26.3 lbs	11.9 kg / 26.3 lbs	16.2 kg / 35.7 lbs	16.2 kg / 35.7 lbs		
Power requirement		AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz		
Power Consumption		150W	150W	180W	180W		
MODELS		42LF25**					
		42LF2500-ZA		42LF2510-ZB			
Dimensions (Width x Height x Depth)	with stand	1032.8 x 742.3 x 289.0 mm 40.7 x 29.3 x 11.4 inches		1032.8 x 742.3 x 293.8 mm 40.7 x 29.3 x 11.6 inches			
	without stand	1032.8 x 670.1 x 92.0 mm 40.7 x 26.4 x 3.7 inches		1032.8 x 670.1 x 92.0 mm 40.7 x 26.4 x 3.7 inches			
Weight	with stand	23.6 kg / 52.1 lbs		23.6 kg / 52.1 lbs			
	without stand	21.0 kg / 46.3 lbs		21.0 kg / 46.3 lbs			
Power requirement		AC100-240V~ 50/60Hz		AC100-240V~ 50/60Hz			
Power Consumption		210W		210W			
CI Module Size (Width x Height x Depth)		100.0 x 55.0 x 5.0mm 3.94 x 2.17 x 0.20inches					
Environment condition	Operating Temperature	0 ~ 40°C / 32 ~ 104°F					
	Operating Humidity	Less than 80%					
	Storage Temperature	-20 ~ 60°C / -4 ~ 140°F					
	Storage Humidity	Less than 85%					

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

MODELS		32LG2*** 32LG2100-ZA 32LG2200-ZA	37LG2*** 37LG2100-ZA	42LG2*** 42LG2100-ZA
Dimensions (Width x Height x Depth)	with stand	801.8 x 604.2 x 227.3 mm 31.6 x 23.8 x 9.0 inches	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
	without stand	801.8 x 544.1 x 79.0 mm 31.6 x 21.5 x 3.2 inches	919.6 x 610.3 x 89.0 mm 36.2 x 24.0 x 3.5 inches	1032.8 x 670.1 x 92.0 mm 40.7 x 26.4 x 3.7 inches
Weight	with stand without stand	13.4 kg / 29.6 lbs 11.9 kg / 26.3 lbs	18.8 kg / 41.5 lbs 16.2 kg / 35.7 lbs	23.6 kg / 52.1 lbs 21.0 kg / 46.3 lbs
Power requirement		AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz
Power Consumption		150W	180W	210W
CI Module Size (Width x Height x Depth)			100.0 x 55.0 x 5.0mm 3.94 x 2.17 x 0.20inches	
Environment condition	Operating Temperature		0 ~ 40°C / 32 ~ 104°F	
	Operating Humidity		Less than 80%	
	Storage Temperature		-20 ~ 60°C / -4 ~ 140°F	
	Storage Humidity		Less than 85%	

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

APPENDIX

MODELS		50PS70** 50PS7000-ZA	60PS70** 60PS7000-ZA
Dimensions (Width x Height x Depth)	with stand	1228.8 x 835.8 x 309 mm 48.4 x 32.9 x 12.2 inches	1465.4 x 986.4 x 371 mm 57.7 x 38.9 x 14.6 inches
	without stand	1228.8 x 784.5 x 78.9 mm 48.4 x 30.9 x 3.1 inches	1465.4 x 932.2 x 82.1 mm 57.7 x 36.7 x 3.2 inches
Weight	with stand	38.1 kg / 84.0 lbs	53.3kg / 117.5 lbs
	without stand	34.1kg / 75.2 lbs	46.3kg / 102.1 lbs
Power requirement		AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz
Power Consumption		490W	580W
MODELS		50PS80** 50PS8000-ZA	60PS80** 60PS8000-ZA
Dimensions (Width x Height x Depth)	with stand	1228.8 x 835.8 x 309 mm 48.4 x 32.9 x 12.2 inches	1465.4 x 986.4 x 371 mm 57.7 x 38.9 x 14.6 inches
	without stand	1228.8 x 795.1 x 78.9 mm 48.4 x 31.3 x 3.1 inches	1465.4 x 926.7 x 82.1 mm 57.7 x 36.5 x 3.2 inches
Weight	with stand	38.3 kg / 84.4 lbs	53.6kg / 118.2 lbs
	without stand	34.3kg / 75.6 lbs	46.6kg / 102.8 lbs
Power requirement		AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz
Power Consumption		490W	580W
CI Module Size (Width x Height x Depth)		100.0 x 55.0 x 5.0mm 3.94 x 2.17 x 0.20 inches	
Environment condition	Operating Temperature	0 ~ 40°C / 32 ~ 104°F	
	Operating Humidity	Less than 80%	
	Storage Temperature	-20 ~ 60°C / -4 ~ 140°F	
	Storage Humidity	Less than 85%	
Supported movie files		Refer to p.104	

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

MODELS		42PQ35** 42PQ3500-ZB	50PQ35** 50PQ3500-ZB
Dimensions (Width x Height x Depth)	with stand	1031.2 x 720.9 x 308.0 mm 40.6 x 28.4 x 12.1 inches	1216.7 x 818.1 x 353.0 mm 47.9 x 32.2 x 13.9 inches
	without stand	1031.2 x 656.7 x 80.8mm 40.6 x 25.9 x 3.2 inches	1216.7 x 759.0 x 83.0 mm 47.9 x 29.9 x 3.3 inches
Weight	with stand	24.3 kg / 53.6 lbs	33.7kg / 74.3 lbs
	without stand	22.2 kg / 48.9 lbs	31.2 kg / 68.8 lbs
Power requirement		AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz
Power Consumption		320W	430W
CI Module Size (Width x Height x Depth)		100.0 x 55.0 x 5.0mm 3.94 x 2.17 x 0.20inches	
Environment condition	Operating Temperature	0 ~ 40°C / 32 ~ 104°F	
	Operating Humidity	Less than 80%	
	Storage Temperature	-20 ~ 60°C / -4 ~ 140°F	
	Storage Humidity	Less than 85%	
Supported movie files		Refer to p.104	

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

APPENDIX

MODELS		42PQ65**	50PS65**
		42PQ6500-ZA	50PS6500-ZA
Dimensions (Width x Height x Depth)	with stand	1040.8 x 725.8 x 308 mm 41.0 x 28.6 x 12.1 inches	1228.8 x 824.6 x 353.0 mm 48.4 x 32.5 x 13.9 inches
	without stand	1040.8 x 669.2 x 76.8 mm 41.0 x 26.4 x 3.1 inches	1228.8 x 772.0 x 78.9 mm 48.4 x 30.4 x 3.1 inches
Weight	with stand	25.3kg / 55.8 lbs	36.3 kg / 80.0 lbs
	without stand	23.3 kg / 51.4 lbs	33.8 kg / 74.5 lbs
Power requirement		AC100-240V~ 50/60Hz	AC100-240V~ 50/60Hz
Power Consumption		320W	490W
CI Module Size (Width x Height x Depth)		100.0 x 55.0 x 5.0mm 3.94 x 2.17 x 0.20inches	
Environment condition	Operating Temperature	0 ~ 40°C / 32 ~ 104°F	
	Operating Humidity	Less than 80%	
	Storage Temperature	-20 ~ 60°C / -4 ~ 140°F	
	Storage Humidity	Less than 85%	
Supported movie files		Refer to p.104	

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

	Digital TV	Analogue TV
Television System	DVB-T DVB-C (Sweden, Finland only)	PAL/SECAM B/G/D/K, PAL I/II, SECAM L/L'
Program Coverage	VHF, UHF	VHF: E2 ~ E12, UHF: E21 ~ E69, CATV: S1 ~ S20, HYPER: S21 ~ S47
External Antenna Impedance	75 Ω	75 Ω

IR CODES

*This feature is not available for all models.

Code (Hexa)	Function	Note
95	Energy Saving	R/C BUTTON
08	POWER	R/C BUTTON(POWER ON/OFF)
0B	INPUT	R/C BUTTON
79	RATIO	R/C BUTTON
F0	TV/RAD	R/C BUTTON
45	Q.MENU	R/C BUTTON
43	MENU	R/C BUTTON
AB	GUIDE	R/C BUTTON
40	Up (↑)	R/C BUTTON
41	Down (↓)	R/C BUTTON
07	Left (⟨)	R/C BUTTON
06	Right (⟩)	R/C BUTTON
44	OK(◎)	R/C BUTTON
28	RETURN/EXIT	R/C BUTTON
AA	INFO ⓘ	R/C BUTTON
30	AV MODE	R/C BUTTON
02	△ +	R/C BUTTON
03	△ -	R/C BUTTON
1E	FAV (MARK)	R/C BUTTON
09	MUTE	R/C BUTTON
00	P ^	R/C BUTTON
01	P ∨	R/C BUTTON
10~19	Number Key 0~9	R/C BUTTON
53	LIST	R/C BUTTON
1A	Q.VIEW	R/C BUTTON
72	RED Key	R/C BUTTON
71	GREEN Key	R/C BUTTON
63	YELLOW Key	R/C BUTTON
61	BLUE Key	R/C BUTTON
20	TEXT	R/C BUTTON
21	T.OPT(T.Option)	R/C BUTTON
39	SUBTITLE	R/C BUTTON
7E	SIMPLINK	R/C BUTTON
65	FREEZE	R/C BUTTON

APPENDIX

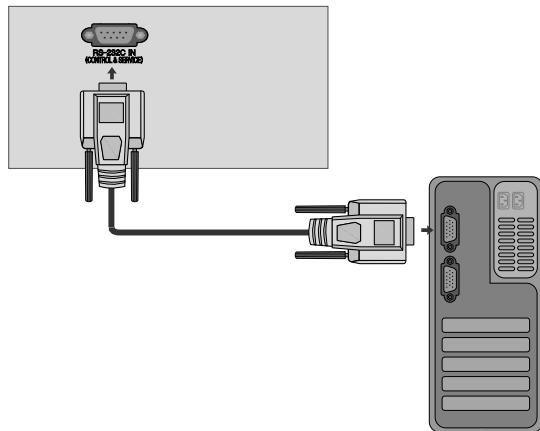
EXTERNAL CONTROL DEVICE SETUP

RS-232C Setup

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

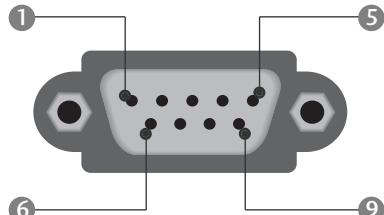
Connect the serial port of the control device to the RS-232C jack on the product back panel.

Note: RS-232C connection cables are not supplied with the product.



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 Configurations (Standard RS-232C cable)

	PC	TV
RXD	2	3
TXD	3	2
GND	5	5
DTR	4	6
DSR	6	4
RTS	7	8
CTS	8	7

D-Sub 9 D-Sub 9

3-Wire Configurations (Not standard)

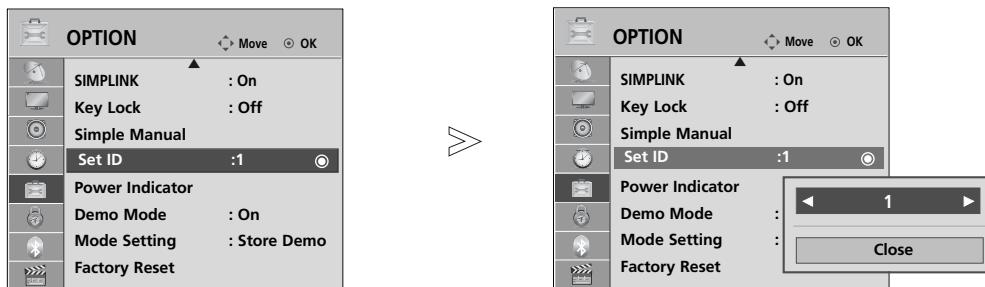
	PC	TV
RXD	2	3
TXD	3	2
GND	5	5
DTR	4	6
DSR	6	4
RTS	7	7
CTS	8	8

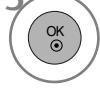
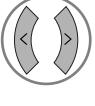
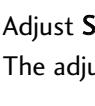
D-Sub 9 D-Sub 9

Set ID

Use this function to specify a set ID number.

Refer to 'Real Data Mapping'. ► p.175



- 1   Select **OPTION**.
- 2    Select **Set ID**.
- 3    Adjust **Set ID** to choose the desired TV ID number.
The adjustment range of SET ID is 1~99.

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

APPENDIX

Communication Parameters

- Baud rate : 9600 bps (UART)
- Data length : 8 bits
- Parity : None
- Stop bit : 1 bit
- Communication code : ASCII code
- Use a crossed (reverse) cable.

Command Reference List

	COMMAND 1	COMMAND 2	DATA (Hexadecimal)
01. Power	k	a	00 ~ 01
02. Aspect Ratio	k	c	Refer to p. 173
03. Screen Mute	k	d	00 ~ 01
04. Volume Mute	k	e	00 ~ 01
05. Volume Control	k	f	00 ~ 64
06. Contrast	k	g	00 ~ 64
07. Brightness	k	h	00 ~ 64
08. Colour	k	i	00 ~ 64
09. Tint	k	j	00 ~ 64
10. Sharpness	k	k	00 ~ 64
11. OSD Select	k	l	00 ~ 01
12. Remote control lock mode	k	m	00 ~ 01
13. Treble	k	r	00 ~ 64
14. Bass	k	s	00 ~ 64
15. Balance	k	t	00 ~ 64
16. Colour Temperature	k	u	00 ~ 02
17. ISM Method	j	p	Refer to p. 175
18. Energy Saving	j	q	00 ~ 04
19. Auto Configuration	j	u	01
20. Tune Command	m	a	Refer to p. 175
21. Programme Add/Skip	m	b	00 ~ 01
22. Key	m	c	Key C o de
23. Control Back Light	m	g	00 ~ 64
24. Input select (Main)	x	b	Refer to p. 176

Transmission / Receiving Protocol

Transmission

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

- * [Command 1] : First command to control the TV.
(j, k, m or x)
- * [Command 2] : Second command to control the TV.
- * [Set ID] : You can adjust the set ID to choose desired monitor ID number in option menu. Adjustment range is 1 ~ 99. When selecting Set ID '0', every connected set is controlled.
- * [DATA] : To transmit command data. Transmit 'FF' data to read status of command.
- * [Cr] : Carriage Return ASCII code '0x0D'
- * [] : ASCII code 'space (0x20)'

OK Acknowledgement

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

- * The set 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]

- * The set transmits ACK (acknowledgement) based on this format when receiving abnormal data from non-viable functions or communication errors.

* When setting the 17 ~ 24, a menu does not appear on screen. Data 00: Illegal Code

* Note : During USB operations such as Dvix or EMF, all commands except Power(ka) and Key(mc) are not executed and treated as NG.

01. Power (Command: k a)

► To control Power On/Off of the set.

Transmission

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

Data 00 : Power Off 01 : Power On

Ack

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

► To show Power On/Off.

Transmission

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

Ack

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

* Similarly, if other functions transmit '0xFF' data based on this format, Acknowledgement data feed back presents status about each function.

* OK Ack., Error Ack. and other message may display on the screen when TV is power On.

02. Aspect Ratio (Command: k c) (Main Picture Size)

► To adjust the screen format. (Main picture format)

You can also adjust the screen format using the **Aspect Ratio** in the Q.MENU. or PICTURE menu.

Transmission

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

Data 01 : Normal screen (4:3)	07 : 14:9
02 : Wide screen (16:9)	09 : Just Scan
04 : Zoom	0B : Full Wide
06 : Original	10~1F : Cinema Zom 1~16

Ack

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

* Using the PC input, you select either 16:9 or 4:3 screen aspect ratio.

* In DTV/HDMI (1080i 50Hz/60Hz, 720p 50Hz/60Hz, 1080p 24Hz/30Hz/50Hz/60Hz), Component(720p, 1080i, 1080p 50Hz/60Hz) mode, Just Scan is available.

* **Full Wide** is supported only for Analogue, AV1,2,3.

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)
Video mute off

01 : Screen mute on (Picture off)
10 : Video mute on

Ack

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

* In case of video mute on only, TV will display On Screen Display(OSD). But, in case of Screen mute on, TV will not display OSD.

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)
01 : Volume mute off (Volume on)

Ack

[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 175.

Ack

[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 175.

Ack

[g][][Set ID][][OK/NG][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 175.

Ack

[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 175.

Ack

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

APPENDIX

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 175.

Ack

[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 175.

Ack

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

11. OSD Select (Command: k l)

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

Transmission

[k][l][][Set ID][][Data][Cr]

Data 00 : OSD off 01 : OSD on

Ack

[l][][Set ID][][OK/NG][Data][x]

12. Remote control lock mode (Command: k m)

► To lock the front panel controls on the monitor and remote control.

Transmission

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

Data 00 : Lock off 01 : Lock on

Ack

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

* If you are not using the remote control, use this mode. When main power is on/off, external control lock is released.

* Local Power Key will work properly.

13. Treble (Command: k r)

► To adjust treble.

You can also adjust treble in the AUDIO menu.

Transmission

[k][r][][Set ID][][Data][Cr]

Data Min : 00 ~ Max : 64

* Refer to 'Real data mapping 1'. See page 175.

Ack

[r][][Set ID][][OK/NG][Data][x]

14. Bass (Command: k s)

► To adjust bass.

You can also adjust bass in the AUDIO menu.

Transmission

[k][s][][Set ID][][Data][Cr]

Data Min : 00 ~ Max : 64

* Refer to 'Real data mapping 1'. See page 175.

Ack

[s][][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 175.

Ack

[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

Ack

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

17. ISM Method (Plasma TV only) (Command: j p)

► To control the ISM method. You can also adjust ISM Method in OPTION menu.

Transmission

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

Data 02: Orbiter

04: White wash

08: Normal

20: Colour Wash

Ack

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

18. Energy Saving (Command: j q)

► To reduce the power consumption of the TV. You can also adjust Energy Saving in OPTION menu.

Transmission

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

Power Saving Function				Level				Description	
7	6	5	4	3	2	1	0		
0	0	0	0	Low Power	0	0	0	0	Off
0	0	0	0	Low Power	0	0	0	1	Minimum
0	0	0	0	Low Power	0	0	1	0	Medium
0	0	0	0	Low Power	0	0	1	1	Maximum
0	0	0	0	Low Power	0	1	0	0	Auto
0	0	0	0	Low Power	0	1	0	1	Screen Off (LCD TV/LED LCD TV only)
0	0	0	1	Intelligent Sensor	0	0	0	0	Low(Plasma TV only)
0	0	0	1	Intelligent Sensor	0	0	0	1	Middle(Plasma TV only)
0	0	0	1	Intelligent Sensor	0	0	1	0	High(Plasma TV only)

Ack

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

(except for 19/22LU40**,
19/22/26LU50**,
32/37/42LF25**,
32/37/42LG2***,
32/37/42LG35**,
19/22/26LG31**,
19/22/26/32/37/42LH20**,
32/37/42/47LH3***,
50/60PS70**, 50/60PS80**,
42/50PQ35**, 42PQ65**,
50PS65**)

19. 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

Ack

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

20. Tune Command (Command: m a)

► Select channel to following physical number.

Transmission

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

Data00 : High channel data

Data01 : Low channel data

ex. No. 47 -> 00 2F (2FH)

No. 394 -> 01 8A (18AH),

DTV No. 0 -> Don't care

Data02 : 0x00 : Analogue Main

0x10 : DTV Main

0x20 : Radio

Channel data range

Analogue - Min: 00 ~ Max: 63 (0~99)

Digital - Min: 00 ~ Max: 3E7 (0~999)

(Except For Sweden, Finland, Norway, Denmark, Ireland)

Digital - Min: 00 ~ Max: 270F (0~9999)

(Only Sweden, Finland, Norway, Denmark, Ireland)

Ack

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

Data Min: 00 ~ Max: 7DH

21. Programme Add/Skip(Command: m b)

► To set skip status for the current Programme.

Transmission

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

Data 00 : Skip 01 : Add

Ack

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

* Real data mapping 1

00 : Step 0

A : Step 10 (Set ID 10)

F : Step 15 (Set ID 15)

10 : Step 16 (Set ID 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 : -40

01 : -39

02 : -38

28 : 0

4E : +38

4F : +39

50 : +40

APPENDIX

22. Key(Command: m c)

- To send IR remote key code.

Transmission

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

Data Key code - Refer to page 169.

Ack

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

23. Control Back Light (Command: m g) (LCD TV/LED LCD TV only)

► To Control the back light.

Transmission

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

Data : data Min: 00 ~ Max: 64

Ack

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

24. Input select (Command: x b) (Main Picture Input)

- To select input source for main picture.

Transmission

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

Data Structure

Diagram of a 9-bit register with MSB and LSB labels. Bits 8 and 9 are labeled 'External Input' and 'Input Number' respectively.

External Input				Data
0	0	0	0	DTV
0	0	0	1	Analogue
0	0	1	0	AV
0	1	0	0	Component
0	1	1	0	RGB
1	0	0	1	HDMI

Input Number				Data
0	0	0	0	Input1
0	0	0	1	Input2
0	0	1	0	Input3
0	0	1	1	Input4

Ack

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

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