LG
Life's Good

OWNER'S MANUAL

LCD TV / LED LCD TV / PLASMA TV

Please read this manual carefully before operating the set and retain it for future reference.

www.lg.com

LICENSES

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7,295,673; 7,460,668; 7,515,710; 7,519,274

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ASSEMBLING AND PREPARING

Unpacking

Check your product box for the following items. If there are any missing accessories, contact the local dealer where you purchased your product.
The illustrations in this manual may differ from the actual product and item.

Remote control and batteries(AAA)

Owner's manual

Polishing cloth[1] (This item is not included for all models.)

Ferrite core (Depending on model)
(This item is not included for all models.)

Power Cord(This item is not included for all models.)

1 Gently wipe the spots on the cabinet with the polishing cloth.

Only Plasma TV

M4 x 26 M5 x 14.5

(Except for 60PV25**, 60PZ55**)

M4 x 28 M5 x 24

(Only 60PV25**, 60PZ55**)

Screw for assembly

Cable Holder

Power Cord holder

Protection cover

Protection cover tape

3D Glasses
(AG-S250 : Depending on model)
(This item is not included for all models.)

ENGLISH

Only 22LK33**

Cable Holder

Protection cover

Only 26/32LK33**, 32/42LK43**, 42/47/55LK53**, 32/37/42/47LK45**

x 8

(M4x20)

Screw for assembly

(Except for 47/55LK53**, 47LK45**)

Screw for fixing

Protection cover

Only 19/22/26LV25**, 22/26LV55** , 26LV30**

x 2

M4x16

(Except for 26LV30**)

x 2

M4x12

x 4

M3x8

(Only 26LV30**)

Screw for assembly

or

Cable holder
(Depending on model)
(This item is not included for all models.)

DC Adapter

Composite gender cable
(Except for 26LV30**)

Only 32LV25**, 32/37/42/47/55LV35**, 32LV30**, 32/42LV34**, 32/42/47/55LW45**

x 8

M4 x 14

(Only 32LV25**)

x 8

M4 x 12

(Except for 32LV25**)

Screw for assembly

Cable holder
(Depending on model)
(This item is not included for all models.)

(Only 32LV25**, 32/37LV35**, 32LV34**, 32LW45**, 32LV30**)

Screw for fixing

Composite gender cable
(Except for 32LV30**, 32/42LV34**)

(Only 32/42/47/55LW45**)

3D Glasses[1]
(AG-P110, AG-F110)

1 The number of 3D glasses may differ depending on the country.

ENGLISH

CAUTION

- Do not use any pirated items to ensure the safety and product life span.
- Any damages or injuries by using pirated items are not covered by the warranty.

NOTE

- The items supplied with your product may vary depending on the model.
- Product specifications or contents of this manual may be changed without prior notice due to upgrade of product functions.
- Image shown may differ from your TV.
- How to use the ferrite core (Depending on model)

1 Use the ferrite core to reduce the electromagnetic interference in the PC audio cable.
Wind the PC audio cable on the ferrite core thrice. Place the ferrite core close to the TV.

[to an External device]

[to the TV]

[Figure 1]

[Cross Section of Ferrite Core]

2 Use the ferrite core to reduce the electromagnetic interference in the power cable.
Wind the power cable on the ferrite core once. Place the ferrite core close to the TV.

[to a wall plug]

[to the TV]

[Figure 2]

[Cross Section of Ferrite Core]

3 Use the ferrite core to reduce the electromagnetic interference in the power cable.
Wind the power cable on the ferrite core once. Place the ferrite core close to the TV and a wall plug.

[to a wall plug]

[to the TV]

[Figure 3]

[Cross Section of Ferrite Core]

- If there is one ferrite core, follow as shown in Figure 1.
- If there are two ferrite cores, follow as shown in Figures 1 and 2.
- If there are three ferrite cores, follow as shown in Figures 1 and 3.

- For an optimal connection, HDMI cables and USB devices should have bezels less than 10 mm thick and 18 mm width.(Except for Plasma TV, 22/26/32LK33**, 32/42LK43**, 42/47/55LK53**)

*A ≦ 10 mm
*B ≦ 18 mm

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Separate purchase

Separate purchase items can be changed or modified for quality improvement without any notification.
Contact your dealer for buying these items.
These devices only work with compatible LG Plasma TV, LED LCD TV or LCD TV.

Only Plasma TV	Only LCD / LED LCD TV
3D Glasses (AG-S230, AG-S250, AG-S270 : Only 3D Models)	3D Glasses (AG-P110, AG-F110 : Only 3D Models)

ENGLISH

Parts and buttons

NOTE

- TV can be placed in standby mode in order to reduce the power consumption. And TV should be turned off 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.

CAUTION

- 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.

In case of some model, the thin film on screen is a part of TV. So don't take it off.

- Image shown may differ from your TV.

Only 50/60PV25**, 42/50PT25**

Button	Description
⏻/I	Turns the power on or off
INPUT	Changes the input source
HOME	Accesses the main menus, or saves your input and exits the menus
OK ⦿	Selects the highlighted menu option or confirms an input
- ◿ +	Adjusts the volume level
∨ P ∧	Scrolls through the saved programmes

1 Intelligent sensor - Adjusts the image quality corresponding to the surrounding environment.
2 Touch Button - You can use the desired button function by touching.

ENGLISH

- Image shown may differ from your TV.

Only 42/50PW35**, 42/50PW45**, 50/60PZ55**

Button	Description
⏻/I	Turns the power on or off
INPUT	Changes the input source
HOME	Accesses the main menus, or saves your input and exits the menus
OK ⦿	Selects the highlighted menu option or confirms an input
- ◿ +	Adjusts the volume level
∨ P ∧	Scrolls through the saved programmes

1 Intelligent sensor - Adjusts the image quality corresponding to the surrounding environment.
2 Touch Button - You can use the desired button function by touching.

ENGLISH

- Image shown may differ from your TV.

Only 22LK33**

Button	Description
⏻/I	Turns the power on or off
INPUT	Changes the input source
HOME	Accesses the main menus, or saves your input and exits the menus
OK ⦿	Selects the highlighted menu option or confirms an input
- ◿ +	Adjusts the volume level
∨ P ∧	Scrolls through the saved programmes

ENGLISH

- Image shown may differ from your TV.

Only 26/32LK33**, 32/42LK43**

Button	Description
⏻/I	Turns the power on or off
INPUT	Changes the input source
HOME	Accesses the main menus, or saves your input and exits the menus
OK ⦿	Selects the highlighted menu option or confirms an input
- ◿ +	Adjusts the volume level
∨ P ∧	Scrolls through the saved programmes

ENGLISH

- Image shown may differ from your TV.

Only 42/47/55LK53**

Button	Description
⏻/I	Turns the power on or off
INPUT	Changes the input source
HOME	Accesses the main menus, or saves your input and exits the menus
OK ⦿	Selects the highlighted menu option or confirms an input
- ◿ +	Adjusts the volume level
∨ P ∧	Scrolls through the saved programmes

1 Intelligent sensor - Adjusts the image quality corresponding to the surrounding environment.

ENGLISH

- Image shown may differ from your TV.

Only 32/37/42/47LK45**

No.	Description
1	USB input
2	HDMI IN
3	Headphone Socket
4	AV (Audio and Video) IN
5	SPEAKER OUT

Button	Description
⏻/I	Turns the power on or off
INPUT	Changes the input source
HOME	Accesses the main menus, or saves your input and exits the menus
OK ⦿	Selects the highlighted menu option or confirms an input
- ◿ +	Adjusts the volume level
∨ P ∧	Scrolls through the saved programmes

1 Intelligent sensor - Adjusts the image quality corresponding to the surrounding environment.
2 Touch Button - You can use the desired button function by touching.

ENGLISH

- Image shown may differ from your TV.

Only 19/22/26LV25**

Button	Description
∨ P ∧	Scrolls through the saved programmes
- ◿ +	Adjusts the volume level
OK ⦿	Selects the highlighted menu option or confirms an input
HOME	Accesses the main menus, or saves your input and exits the menus
INPUT	Changes the input source
⏻/I	Turns the power on or off

1 Intelligent sensor - Adjusts the image quality corresponding to the surrounding environment.
2 Touch Button - You can use the desired button function by touching.

ENGLISH

- Image shown may differ from your TV.

Only 32LV25**, 32/37/42/47/55LV35**, 32/42LV34**, 32/42/47/55LW45**

Button	Description
∨ P ∧	Scrolls through the saved programmes
- ◿ +	Adjusts the volume level
OK ⦿	Selects the highlighted menu option or confirms an input
HOME	Accesses the main menus, or saves your input and exits the menus
INPUT	Changes the input source
⏻/I	Turns the power on or off

1 Intelligent sensor - Adjusts the image quality corresponding to the surrounding environment.
2 Touch Button - You can use the desired button function by touching.

ENGLISH

- Image shown may differ from your TV.

Only 22/26LV55**

Button	Description
∨ P ∧	Scrolls through the saved programmes
− ⊿ +	Adjusts the volume level
✓ OK	Selects the highlighted menu option or confirms an input
H HOME	Accesses the main menus, or saves your input and exits the menus
↘ INPUT	Changes the input source
⏻/I	Turns the power on or off

1 Intelligent sensor - Adjusts the image quality corresponding to the surrounding environment.
2 Touch Button - You can use the desired button function by touching.

ENGLISH

- Image shown may differ from your TV.

Only 26/32LV30**

Button	Description
∨ P ∧	Scrolls through the saved programmes
- ◿ +	Adjusts the volume level
OK ⦿	Selects the highlighted menu option or confirms an input
HOME	Accesses the main menus, or saves your input and exits the menus
INPUT	Changes the input source
⏻/I	Turns the power on or off

1 Intelligent sensor - Adjusts the image quality corresponding to the surrounding environment.

ENGLISH

Lifting and moving the TV

When moving or lifting the TV, read the following to prevent the TV from being scratched or damaged and for safe transportation regardless of its type and size.

CAUTION

- Avoid touching the screen at all times, as this may result in damage on the screen or some of the pixels used to create images.

- It is recommended to move the TV in the box or packing material that the TV originally came in.
- Before moving or lifting the TV, disconnect the power cord and all cables.
- When holding the TV, the screen should face away from you to avoid damage.

- Hold the top and bottom of the TV frame firmly. Make sure not to hold the transparent part, speaker, or speaker grill area.

- When transporting a large TV, there should be at least 2 people.
- When transporting the TV by hand, hold the TV as shown in the following illustration.

- When transporting the TV, do not expose the TV to jolts or excessive vibration.
- When transporting the TV, keep the TV upright, never turn the TV on its side or tilt towards the left or right.

Setting up the TV

- Image shown may differ from your TV.

Put your TV on a pedestal stand and mount the TV on a table or wall.

Attaching the stand

Only Plasma TV

1 Lay the TV with the screen side down on a flat surface.

CAUTION

- Lay a foam mat or soft protective cloth on the surface to protect the screen from damage. Make sure no objects press against the screen.

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

3 Secure the TV and the stand with the 4 screws.

Make sure to assemble the front and rear side of the stand.

CAUTION

- Tighten the screws firmly to prevent the TV from tilting forward. Do not over tighten.

ENGLISH

Only 22LK33**

1 Lay the TV with the screen side down on a flat surface.

CAUTION

- Lay a foam mat or soft protective cloth on the surface to protect the screen from damage.

2 Assemble the TV as shown.

CAUTION

- Tighten the screws firmly to prevent the TV from tilting forward. Do not over tighten.

Only 26/32LK33**, 32/42LK43**, 42/47/55LK53**

1 Lay the TV with the screen side down on a flat surface.

CAUTION

- Lay a foam mat or soft protective cloth on the surface to protect the screen from damage.

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

3 Secure the TV and the stand with the 4 screws.

CAUTION

- Tighten the screws firmly to prevent the TV from tilting forward. Do not over tighten.

Only 32/37/42/47LK45**

1 Lay the TV with the screen side down on a flat surface.

CAUTION

- Lay a foam mat or soft protective cloth on the surface to protect the screen from damage.

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

3 Secure the TV and the stand with the 4 screws.

CAUTION

- Tighten the screws firmly to prevent the TV from tilting forward. Do not over tighten.

ENGLISH

Only 19/22/26LV25**, 22/26LV55**

1 Lay the TV with the screen side down on a flat surface.

CAUTION

- Lay a foam mat or soft protective cloth on the surface to protect the screen from damage.

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

3 Secure the TV and the stand with the 2 screws.

CAUTION

- Tighten the screws firmly to prevent the TV from tilting forward. Do not over tighten.

Only 32LV25**

1 Lay the TV with the screen side down on a flat surface.

CAUTION

- Lay a foam mat or soft protective cloth on the surface to protect the screen from damage.

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

3 Secure the TV and the stand with the 4 screws.

CAUTION

- Tighten the screws firmly to prevent the TV from tilting forward. Do not over tighten.

ENGLISH

Only 32/37/42/47/55LV35**, 32LV30**, 32/42LV34**, 32/42/47/55LW45**

1 Lay the TV with the screen side down on a flat surface.

CAUTION

- Lay a foam mat or soft protective cloth on the surface to protect the screen from damage.

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

Except for 32LV30**	
Only 32LV30**	

3 Secure the TV and the stand with the 4 screws.

Except for 32LV30**	
Only 32LV30**	

CAUTION

- Tighten the screws firmly to prevent the TV from tilting forward. Do not over tighten.

Only 26LV30**

1 Lay the TV with the screen side down on a flat surface.

CAUTION

- Lay a foam mat or soft protective cloth on the surface to protect the screen from damage.

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

3 Secure the TV and the stand with the 2 screws.

CAUTION

- Tighten the screws firmly to prevent the TV from tilting forward. Do not over tighten.

ENGLISH

Not using the Desk Type Stand

- Image shown may differ from your TV.

Only Plasma TV

- Push the supplied protection cover into the opening at the bottom of the TV until it locks in place.
- Attach the protection cover tape.
  - This will protect the opening from accumulating dust and dirt.
  - When installing the wall mounting bracket, use the Protection cover.

Only 26/32LK33**, 32/42LK43**, 32/37/42/47LK45**, 42/47/55LK53**

1 Push the supplied protection cover into the opening at the bottom of the TV until clicking sound.

Only 22LK33**

1 Lay the TV with the screen side down on a flat surface.

2 Remove the 2 screws and pull the stand away from the TV.

3 Push the supplied protection cover into the opening at the bottom of the TV until it locks in place.
This will protect the opening from accumulating dust and dirt.

ENGLISH

Mounting on a table

- Image shown may differ from your TV.

1 Lift and tilt the TV into its upright position on a table.
   - Leave a 10 cm (minimum) space from the wall for proper ventilation.

2 Connect the power cord to a wall outlet.

CAUTION

- Do not place the TV near or on sources of heat, as this may result in fire or other damage.

NOTE

(Except for 22LK33**, 19/22/26LV25**, 22/26LV55**, 26LV30**)
Swivel 20 degrees to the left or right and adjust the angle of the TV to suit your view.

Securing the TV to a table

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

Only 26/32LK33**, 32/42LK43**, 42LK53**,32/37/42LK45**, 32LV25**, 32/37LV35**, 32LV34**, 32LW45**, 32LV30**

Fix the TV to a table to prevent from tilting forward, damage, and potential injury.
Mount the TV on a table, and then insert and tighten the supplied screw on the rear of the stand.

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 TV may cause injury.

ENGLISH

Securing the TV to a wall

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

1 Insert and tighten the eye-bolts, or TV brackets and bolts on the back of the TV.
   - If there are bolts inserted at the eye-bolts position, remove the bolts first.

2 Mount the wall brackets with the bolts to the wall.
   Match the location of the wall bracket and the eye-bolts on the rear of the TV.

3 Connect the eye-bolts and wall brackets tightly with a sturdy rope.
   Make sure to keep the rope horizontal with the flat surface.

CAUTION

- Make sure that children do not climb on or hang on the TV.

NOTE

- Use a platform or cabinet that is strong and large enough to support the TV securely.

Using the Kensington security system

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

The Kensington security system connector is located at the rear of the TV. For more information of installation and using, refer to the manual provided with the Kensington security system or visit *http://www.kensington.com.*

Connect the Kensington security system cable between the TV and a table.

Mounting on a wall

Attach a wall mount bracket at the rear of the TV carefully and install the wall mount bracket on a solid wall perpendicular to the floor. When you attach the TV to other building materials, please contact qualified personnel.

LG recommends that wall mounting be performed by a qualified professional installer.

Separate purchase(Wall Mounting Bracket)

Make sure to use screws and wall mount bracket that meet the VESA standard. Standard dimensions for the wall mount kits are described in the following table.

Model	42/50PT25** 50PV25** 42/50PW35** 42/50PW45** 50PZ55**	60PV25** 60PZ55**
VESA (A x B)	400 x 400	600 x 400
Standard screw	M6	M8
Number of screws	4	4
Wall mount bracket	PSW400B, PSW400BG, DSW400BG 	PSW600B, PSW600BG

Model	22LK33** 19/22/26LV25** 22/26LV55** 26LV30**	26/32LK33** 32LK43** 32LK45** 32LV25** 32LV35** 32LV30** 32LV34** 32LW45**
VESA (A x B)	100 x 100	200 x 100
Standard screw	M4	M4
Number of screws	4	4
Wall mount bracket	LSW100B, LSW100BG 	
Model	42LK43** 37/42/47LK45** 42/47LK53** 37LV35**	42/47/55LV35** 42/47/55LW45** 55LK53**
VESA (A x B)	200 x 200	400 x 400
Standard screw	M6	M6
Number of screws	4	4
Wall mount bracket	LSW200B, LSW200BG 	LSW400B, LSW400BG

Model	42LV34**
VESA (A x B)	400 x 400
Standard screw	M6
Number of screws	4
Wall mount bracket	LSW400BX, LSW400BXG

CAUTION

- Disconnect the power first, and then move or install the TV. Otherwise electric shock may occur.
- If you install the TV on a ceiling or slanted wall, it may fall and result in severe injury. Use an authorized LG wall mount bracket and contact the local dealer or qualified personnel.
- Do not over tighten the screws as this may cause damage to the TV and void your warranty.
- Use the screws and wall mount bracket that meet the VESA standard. Any damages or injuries by misuse or using an improper accessory are not covered by the warranty.

NOTE

- Use the screws that are listed on the VESA standard screw specifications.
- The wall mount kit includes an installation manual and necessary parts.
- The length of screws may differ depending on the wall mount. Make sure to use the proper length.
- For more information, refer to the manual supplied with the wall mount bracket.

Tidying cables

- Image shown may differ from your TV.

Only Plasma TV

1 Install the **Power Cord Holder** and **Power Cord**. It will help prevent the power cable from being removed by accident.

2 Gather and bind the cables with the **Cable Holder**.

CAUTION

- Do not move the TV by holding the **Cable Holder** & **Power Cord Holder**, as the Cable holders may break, and injuries and damage to the TV may occur.

Only 22LK33**, 19/22/26LV25**, 22/26LV55**

1 After connecting the cables as necessary, install **Cable Holder** as shown and bundle the cables.

Only 26LV30**

1 After connecting the cables as necessary, install **Cable Holder** as shown and bundle the cables.

Only 26/32LK33**, 32/42LK43**, 32/37/42/47LK45**, 42/47/55LK53**

1 Gather and bind the cables with the cable management clip.

2 Fix the cable management clip firmly to the TV.

NOTE

- Do not move the TV by holding the cable management clip, as the cable management clip may break, and injuries and damage to the TV may occur.

ENGLISH

Only 32LV25**, 32/37/42/47/55LV35**, 32LV30**, 32/42LV34**, 32/42/47/55LW45**

1 Gather and bind the cables with the **Cable Holder** on the TV back cover.

or

Positioning your display

- Image shown may differ from your TV.

Only 22LK33**

Adjust the position of the panel in various ways for maximum comfort.

• Tilt range

Connection of TV

- Image shown may differ from your TV.

Only 19/22/26LV25**, 22/26LV55**, 26LV30**

1 Connect the antenna cable to the antenna input port on the TV.

2 Connect the DC adapter plug to the power input jack on the TV.

3 Connect the power cord to the DC adapter first, then plug the power cord into the wall power outlet.

ENGLISH

REMOTE CONTROL

The descriptions in this manual are based on the buttons on the remote control.
Please read this manual carefully and use the TV correctly.

To replace batteries, open the battery cover, replace batteries (1.5 V AAA) matching ⊕ and ⊖ ends to the label inside the compartment, and close the battery cover. Be sure to point the remote control toward the remote control sensor on the TV.

To remove the batteries, perform the installation actions in reverse.

CAUTION

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

- Image shown may differ from your TV.
- In Analogue TV and in some countries, some remote control keys may not work.

ENGLISH

⏻ (POWER)
Turns the TV on or off.

ENERGY SAVING (See p.67)
Adjusts the brightness of the screen to reduce energy consumption

AV MODE (See p.46)
Selects an AV mode

INPUT (See p.46)
Changes the input source; Turns the TV on.

TV/RAD
Selects Radio, TV and DTV programme.

Number buttons
Enters numbers.

LIST (See p.39)
Accesses the saved programme list.

Q.VIEW
Returns to the previously viewed programme.

◿ + -
Adjusts the volume level.

MARK
Selects a menu or option.

FAV (See p.40)
Accesses your favourite programme list

3D(See p.51)(Only 3D Models)
Used for viewing 3D video.

RATIO (See p.45)
Resizes an image

MUTE
Mutes all sounds.

P∧ ∨
Scrolls through the saved programmes.

PAGE
Moves to the previous or next screen.

GUIDE
Shows programme guide.

Home
Accesses the main menus, or saves your input and exit the menus.

Q. MENU (See p.48)
Accesses the quick menus

Navigation buttons (up/down/left/right)
Scrolls through menus or options.

OK
Selects menus or options and confirms your input.

BACK
Returns to the previous level.

INFO (See p.41)
Views the information of the current programme and screen.

EXIT
Clears all on-screen displays and return to TV viewing.

ENGLISH

Coloured buttons
These buttons are used for teletext (on TELETEXT models only), Programme edit.
3D SETTING(Only 3D Models)
Use this to view 3D video.

TELETEXT BUTTONS (See p.89)
These buttons are used for teletext.
For further details, see the 'Teletext' section.

SUBTITLE
Recalls your preferred subtitle in digital mode.

Control buttons(■, ▶, II, ◀◀, ▶▶)
Controls the MY MEDIA menus, or the SIMPLINK compatible devices (USB,SIMPLINK).

FREEZE(Only Plasma TV)
Freezes the current frame while using the TV, AV, Component, RGB-PC, or HDMI input source.

SIMPLINK (See p.88)
Accesses the AV devices connected to the TV;
Opens the SIMPLINK menu.

RATIO (See p.45)
Resizes an image

AD(Only 22/26LV55**)
Switches the Audio Description On or Off.

ENGLISH

WATCHING TV

Connecting an antenna

Connect an antenna to watch TV while referring to the following.
To prevent damage do not connect to the mains outlet until all connections are made between the devices.

Connect the TV to a wall antenna socket with an RF cable (75 Ω).

- Image shown may differ from your TV.

NOTE

- Use a signal splitter to use more than 2 TVs.
- If the image quality is poor, install a signal amplifier properly to improve the image quality.
- If the image quality is poor with an antenna connected, aim the antenna to the correct direction.
- An antenna cable and converter are not supplied.

Turning the TV on for the first time

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

1 Connect the power cord to a power outlet.

2 In Standby mode, press ⏻ **(POWER)** to turn the TV on.

The Initial setting screen appears if you turn the TV on for the first time.

NOTE

- You can also access **Factory Reset** by accessing **OPTION** in the main menus.

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

Language	Selects a language to display. (Except for Australia, New Zealand, Singapore, South Africa),
⇩	
Mode Setting	Selects **Home Use** for the Home environment.
⇩	
Power Indicator	Sets the power indicator. (When you select Home Use from the Mode Setting - only LED LCD TV)
⇩	
Country	Selects a country to display. (Only Australia, New Zealand)
⇩	
Time Zone	Selects a Time Zone to display.(Only Australia)
⇩	
Auto Tuning	Scans and saves available channels automatically.

NOTE

- DTV mode control buttons may not function based on country broadcasting circumstances. (Only DTV)
- In country that Digital broadcasting regulation isn't fixed, some DTV function may not work depending on digital broadcasting circumstances. (Only DTV)

ENGLISH

4 When the basic settings are complete, press **OK**.

NOTE

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

5 To turn the TV off, press ⏻ **(POWER)** .

Watching TV

1 In Standby mode, press ⏻ **(POWER)** to turn the TV on.

2 Press **INPUT** and select **Antenna**.

3 To turn the TV off, press ⏻ **(POWER)** .
The TV switches to Standby mode.

Managing programmes

Automatically setting up programme

Use this to automatically find and store all available programmes.
When you start auto programming, all previously stored service information will be deleted.

1 Press **Home** to access the main menus.

2 Press the Navigation buttons to scroll to **SETUP** and press **OK**.

3 Press the Navigation buttons to scroll to **Auto Tuning** and press **OK**.

4 Select **Start** to start automatic tuning.
The TV scans and saves available programmes automatically.

5 When you are finished, press **EXIT**.
When you return to the previous menu, press **BACK**.

NOTE

- If the TV scans a blocked programme, you will be prompted to enter your password to keep the programme scanned.
- If you wish to keep on auto tuning select **Start** using the Navigation buttons. Then, press the **OK** button. Otherwise select **Close**.
- **Automatic Numbering**: Decide whether to use the programme numbers as sent by broadcasting stations for tuning. (Only DTV)

Manually setting up programme (In digital mode) (Only DTV)

Manual Tuning lets you manually add a programme to your programme list.

1 Press **Home** to access the Main menus.

2 Press the Navigation buttons to scroll to **SETUP** and press **OK**.

3 Press the Navigation buttons to scroll to **Manual Tuning** and press **OK**.

4 Press the Navigation buttons to scroll to **DTV** and press **OK**.

5 Scroll through the programme types, and then add or delete programmes.

6 When you are finished, press **EXIT**.
When you return to the previous menu, press **BACK**.

NOTE

- If the TV scans a blocked programme, you will be prompted to enter your password to keep the programme scanned.

Manually setting up programme (In analogue mode)

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

1 Press **Home** to access the main menus.

2 Press the Navigation buttons to scroll to **SETUP** and press **OK**.

3 Press the Navigation buttons to scroll to **Manual Tuning** and press **OK**.

4 Press the Navigation buttons to scroll to **TV** and press **OK**. (Only DTV)

5 Press the Navigation buttons or Number buttons to scroll to the desired programme Storage.

6 Press the Navigation buttons to scroll to TV System. (Except for Australia)

7 Press the Navigation buttons to scroll to **V/UHF** or **Cable**.

8 Press the Navigation buttons or Number buttons to scroll to the desired channel number.

9 Press the Navigation buttons to scroll and start searching.

10 Press the Navigation buttons to scroll to **Store** and press **OK.**

11 When you are finished, press **EXIT**.
When you return to the previous menu, press **BACK**.

NOTE

- If the TV scans a blocked programme, you will be prompted to enter your password to keep the programme scanned.
- **BG** : PAL B/G (New Zealand / South Africa / Singapore / Indonesia / Israel / Malaysia / Vietnam / Asia)
  DK : PAL D/K (New Zealand / South Africa / Singapore / Indonesia / Israel / Malaysia / Vietnam / Asia)
  I : PAL I/II (New Zealand / South Africa / Singapore / Indonesia / Israel / Malaysia / Vietnam / Asia)
  B/B : Australia
  M : NTSC-M (South Africa / Indonesia / Israel / Malaysia / Vietnam / Asia)
- To store another channel, repeat steps 6 to 10.

Assigning a station name

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

1 Press **Home** to access the main menus.

2 Press the Navigation buttons to scroll to **SETUP** and press **OK**.

3 Press the Navigation buttons to scroll to **Manual Tuning** and press **OK**.

4 Press the Navigation buttons to scroll to **TV**. (Only DTV)

5 Press the Navigation buttons to scroll to **Name** and press **OK**.

6 Press the Navigation buttons to scroll 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 and press **OK**.

7 Press the Navigation buttons to scroll to **Close** and press **OK**.

8 Press the Navigation buttons to scroll to **Store** and press **OK**

9 When you are finished, press **EXIT**.
When you return to the previous menu, press **BACK**.

ENGLISH

Fine Tuning(Depending on model)

Normally fine tuning is only necessary if reception is poor.

1 Press **Home** to access the main menus.

2 Press the Navigation buttons to scroll to **SETUP** and press **OK**.

3 Press the Navigation buttons to scroll to **Manual Tuning** and press **OK**.

4 Press the Navigation buttons to scroll to **TV**. (Only DTV)

5 Press the Navigation buttons to scroll to **Fine**.

6 Fine tune for the best picture and sound.

7 Press the Navigation buttons to scroll to **Store** and press **OK**

8 When you are finished, press **EXIT**.
When you return to the previous menu, press **BACK**.

Editing your programme list

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 (Only DTV).

1 Press **Home** to access the main menus.

2 Press the Navigation buttons to scroll to **SETUP** and press **OK**.

3 Press the Navigation buttons to scroll to **Programme Edit** and press **OK**.

4 Press the Navigation buttons to select a programme to be stored or skipped.

5 When you are finished, press **EXIT**.
When you return to the previous menu, press **BACK**.

In DTV/RADIO mode

Skipping a programme number

1 Press the Navigation buttons to scroll to select a programme number to be skipped.

2 Press Blue button to turn the programme number.

3 Press Blue button to release.

NOTE

- When programmes are to be skipped, the skipped programme shows in blue and these programmes will not be selected by the P ^ v 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.

Locking a programme number

1 Press the Navigation buttons to scroll to select a programme number to be locked.

2 Press Yellow button to turn the programme number.

3 Press Yellow button to release.

NOTE

- It can be registered as Lock programme even when **Lock System** is turned **Off**.

In TV mode

Deleting a programme

1 Press the Navigation buttons to scroll to select a programme number to be deleted.

2 Press Red button to turn the programme number.

NOTE

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

Moving a programme

1 Press the Navigation buttons to scroll to select a programme number to be moved.

2 Press the Green button to turn the programme number and press the Navigation buttons.

3 Press Green button to release.

Skipping a programme number

1 Press the Navigation buttons to scroll to select a programme number to be skipped.

2 Press Blue button to turn the programme number.

3 Press Blue button to release.

NOTE

- When programmes are to be skipped, the skipped programme shows in blue and these programmes will not be selected by the P ^ v 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.

ENGLISH

Locking a programme number

1 Press the Navigation buttons to scroll to select a programme number to be locked.

2 Press Yellow button to turn the programme number.

3 Press Yellow button to release.

NOTE

- It can be registered as Lock programme even when **Lock System** is turned **Off**.

Selecting favourite programme

1 Press the Navigation buttons to scroll to select your desired programme.

2 Press the **FAV** to add corresponding programme to Favourite list of current Favourite group.

3 Press **FAV** to release.

Selecting favourite programme group

1 Press the Navigation buttons to scroll to select your desired programme.

2 Press the **Q.MENU** to display a pop-up window where Favourite group can be changed.

3 Press the Navigation buttons to scroll to select a Favourite group and press **OK**.

Selecting the programme list

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

Displaying programme LIST

1 Press **LIST** to access the Programme List.

2 Press Blue button to turn the programme edit.

NOTE

- 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 Press the Navigation buttons to select programme.

2 Press **OK** to switch to the chosen programme number.

NOTE

- Press **TV/RAD** in Digital TV. (The mode will be switched between TV, DTV, and Radio from the programme you are currently watching.)

ENGLISH

Paging through a programme list

1 Press the **P ^ v** buttons to turn the pages.

2 Press **LIST** to return normal TV viewing.

Displaying the favourite programme list

1 Press **FAV** to access the Favourite Programme List.

2 When you are finished, press **EXIT**.

Button	Description
Blue button	Turn the programme edit.
Yellow button	Current channel is registered/ cancelled as preferred channel on currently selected Group.
OK	Selects a programme to view
< >	Favourite group is changed.

EPG (Electronic Program Guide) (In digital mode)

This feature is disabled in New Zealand.

- Image shown may differ from your TV.

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.
You must set the Clock in the **Time** menu, before using EPG function.

- Press **INFO** to show current programme information.

	Displayed with a TV or DTV Programme.
	Displayed with a Radio Programme.
MHEG	Displayed with a MHEG Programme.
HE-AAC	Displayed with a HE-AAC Programme.
4:3	Aspect ratio of broadcasting programme.
16:9	Aspect ratio of broadcasting programme.
	Displayed with a Teletext Programme.
	Displayed with a Subtitle Programme.
	Displayed with a Scramble Programme.
D	Displayed with a Dolby Digital Programme.
D+	Displayed with a Dolby Digital PLUS Programme.
576i/p, 720p, 1080i/p : Resolution of broadcasting programme	

>	Shows next programme information.
∧ ∨	Shows other programme information.

OK	A pop-up window for remind settings appear.
< >	Select Timer Remind setting mode.

Switch on/off EPG

1 Press **GUIDE** to switch on or off EPG.

Select a programme

1 Press Navigation buttons or P ∧ ∨ to select desired programme.

ENGLISH

NOW/NEXT Guide Mode

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

Button	Description
Red button	Change EPG mode.
Yellow button	Enter **Manual Timer** mode.
Blue button	Enter **Schedule List** mode.
OK	When 'Now' is selected, it is moved to selected programme and EPG disappears When 'Next' is selected, a reservation pop-up window appears.
< >	Select NOW or NEXT Programme.
∧ ∨	Select the Broadcast Programme.
P ∧ ∨	Page Up/Down.
GUIDE	Switch off EPG.
BACK	
EXIT	
TV/RAD	Select DTV or RADIO Programme.
INFO	Detail information on or off.

8 Day Guide Mode

Button	Description
Red button	Change EPG mode.
Green button	Enter Date setting mode.
Yellow button	Enter **Manual Timer** mode.
Blue button	Enter **Schedule List** mode.
OK	When 'Currently broadcasting programme is selected, it is moved to selected programme and EPG disappears When 'Future broadcasting programme is selected, a reservation pop-up window appears.
< >	Select Programme.
∧ ∨	Select the Broadcast Programme.
P ∧ ∨	Page Up/Down.
GUIDE	Switch off EPG.
BACK	
EXIT	
TV/RAD	Select DTV or RADIO Programme.
INFO	Detail information on or off.

Date Change Mode

Button	Description
Green button	Switch off Date setting mode.
v	
BACK	
OK	Change to the selected date.
< >	Select a date.
GUIDE	Switch off EPG.
EXIT	

Extended Description Box

Button	Description
GUIDE	The detail information on or off.
∧ ∨	Text Up/Down.
GUIDE	Switch off EPG.
EXIT	

Remind Setting Mode

Button	Description
BACK	Switch off **Manual Timer** mode.
∧ ∨	Select Remind function setting.
< >	Select **Start Time** or Programme.
OK	Save Timer Remind.

Schedule List Mode

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

Button	Description
Yellow button	Change to **Manual Timer** mode.
Blue button	Change to Guide mode.
GUIDE	
BACK	Switch off **Schedule List**.
OK	Select your desired Option (**Modify**/ **Delete**/**Delete All**).
∧ ∨	Select programme.
P ∧ ∨	Page Up/Down.

ENGLISH

MHEG (Multimedia and Hypermedia Information coding Expert Group) (In digital mode)

This feature is not available for all country.

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.

Teletext Within Digital Service

1 Press the numeric or **P** ∧ ∨ 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**, Navigation buttons, **RED**, **GREEN**, **YELLOW**, **BLUE** or **NUMBER** buttons and etc.

3 To change digital teletext service, select a different service by the numeric or **P** ∧ ∨ button.

Teletext in Digital Service

1 Press the numeric or **P** ∧ ∨ 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**, Navigation buttons, **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.

ENGLISH

This feature is enabled only in New Zealand.

- In New Zealand, pressing the Guide key will display MHEG EPG provided by New Zealand on the screen.

This system has an MHEG(Multimedia and hypermedia information coding expert group) to help your navigation through all the possible viewing options.

- Press INFO to show current programme information.

	Displayed with a TV or DTV Programme.
	Displayed with a Radio Programme.
MHEG	Displayed with a MHEG Programme.
HE-AAC	Displayed with a HE-AAC Programme.
4:3	Aspect ratio of broadcasting programme.
16:9	Aspect ratio of broadcasting programme.
	Displayed with a Teletext Programme.
	Displayed with a Subtitle Programme.
	Displayed with a Scramble Programme.
D	Displayed with a Dolby Digital Programme.
D+	Displayed with a Dolby Digital PLUS Programme.
576i/p, 720p, 1080i/p : Resolution of broadcasting programme	

Switch on/off MHEG

1 Press GUIDE to switch on or off MHEG.

Select a programme

1 Press Navigation buttons to preview the Broadcast Programme Information.

2 Press Navigation buttons to change to desired channel.

3 Press **OK** to remove MHEG after moving to a selected channel.

Programme Listing Mode

Button	Description
∧ ∨	Select the Broadcast Programme Information.
< >	Select Channel.
Yellow button	Change to Next Week or Previous Day.
Blue button	Change to Next Day or Today.
OK	The MHEG will disappear after moving to a selected channel.
GUIDE	Change to Now/Next mode.
BACK	Switch off MHEG.
INFO	Detail information on or off.

NOW/NEXT Guide Mode

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

Button	Description
∧ ∨	Select desired channel.
OK	The MHEG will disappear after moving to a selected channel.
GUIDE	Change to Listing mode.
BACK	Switch off MHEG.
INFO	Detail information on or off.

ENGLISH

Using additional options

Adjusting aspect ratio

Resize an image to view at its optimal size by pressing **RATIO** while you are watching TV.

NOTE

- You can also change the image size by pressing **Q. MENU** or accessing **Aspect Ratio** in the Picture menus.
- For **Zoom Setting**, select **14:9**, **Zoom** and **Cinema Zoom** in Ratio Menu. After completing **Zoom Setting**, the display goes back to **Q.Menu**.
- 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 DTV 576p mode, **Just Scan** is available in Australia/New Zealand only.

- **16:9**: Resizes images to fit the screen width.

- **Just Scan**: Displays video images in the original size without removing parts of the edge of the image.

NOTE

- If you select **Just Scan**, you may see image noises at the edge of the original signal.

- **Original**: When your TV receives a wide screen signal it will automatically change to the picture format broadcasted.

or

- **Full Wide(Only DTV)**: When TV receives the wide screen signal,it will let you adjust the picture horizontally or vertically, in a linear proportion,to fill the entire screen fully.

  4:3 and 14:9 video is supported in full screen without any video distortion through DTV input.

or

- **4:3**: Resizes images at the standard 4:3 without distortion.

ENGLISH

- **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 moved to the up and down.

- **Zoom**: Enlarges an image to fit the screen width. The top and bottom of the image may not appear.

NOTE

- If you access, **Aspect Ratio** in the quick menus,
  - Press the Navigation buttons to stretch an image vertically.
  - Press the Navigation buttons to move the zoom focus up or down.

- **Cinema Zoom** : Enlarges an image in the cinemascope ratio, 2.35:1.
  - To change the ratio of the cinema zoom, press the Navigation buttons and its range is from 1 to 16.
  - To move the zoom focus up or down, press the Navigation buttons.

NOTE

- If you enlarge or reduce an image, the image may be distorted.

Changing AV modes

Each AV mode has the optimized image and sound settings.
Press AV MODE repeatedly to select an appropriate mode.

Mode	Description
Off	Changes to the previously customized settings
Cinema or THX **Cinema**	Use the optimized image and sound setting for the cinematic look
Sport	Use the optimized image and sound setting for dynamic action sports
Game	Use the optimized image and sound setting for fast gaming When playing a video game using PlayStation or Xbox, it is recommended to use the **Game** mode. When in **Game** mode, functions related to picture quality will be optimized for playing games.

NOTE

- If you select **Off** in AV mode, the picture and image which you initially set will be selected.

Using the input list

Selecting an input source

1 Press **INPUT** to access the input sources.
- The connected device displays on each input source.

NOTE

- You can also access the input source list by selecting **INPUT** in the main menus.

2 Press Navigation buttons to scroll to one of the input sources and press **OK**.
- Image shown may differ from your TV.

(Only LCD TV/LED LCD TV)

ENGLISH

Input source	Description
Antenna	Select it when watching the TV. (Only DTV : Select it when watching the DTV/ TV/RADIO.)
USB	Select it when using USB depends on connector.
AV	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.
HDMI	Select it when using DVD, PC or Digital set-top box depend on connector.

The connected input sources display in black and the disconnected input sources in grey.

- To add an input label, press the Blue button. You can easily identify a device connected to each input source.
- To access the SIMPLINK, press the Red button. If you select "**SIMPLINK** and **On**", the pop-up window for the HDMI input will not display.(Only LCD TV/LED LCD TV)

Adding an Input label

Add a label to an input source so that you can easily identify a device connected to each input source.

- Image shown may differ from your TV.

1 Press **INPUT** to access the input sources.

2 Press the Navigation buttons to scroll to one of the input sources.

3 Press the **Blue** button.

4 Press the Navigation buttons to scroll to one of the input labels and press **OK**.

5 When you are finished, press **Close**. When you return to the previous menu, press **BACK**.

Locking the buttons on the TV (Child Lock)

Lock the buttons on the TV to prevent any unwanted operations or accidents by children.

1 Press **Home** to access the main menus.

2 Press the Navigation buttons to scroll to **LOCK** and press **OK**.

3 Press Navigation buttons to scroll to **Key Lock** and press **OK**.

4 Select **On** to activate the Key lock feature.

- To deactivate the Key lock feature, select **Off**.

5 When you are finished, press **EXIT**.
When you return to the previous menu, press **BACK**.

NOTE

- The TV is programmed to remember the last setting after you turn the TV off.
- If you turn the TV off with the **Key Lock** feature activated, press the ⏻, **INPUT**, **P ∧ ∨** or Number buttons on the remote control.
- If you press any button on the TV with the Key lock feature activated, ⚠ **Key Lock** appears on the screen.

ENGLISH

Using the quick menu

Customize the frequently using menus.

1 Press **Q. MENU** to access the quick menus.

2 Press Navigation buttons to scroll through the following menus and press **OK**.

- Image shown may differ from your TV.

	Menu	Description
1	**Aspect Ratio**	Changes the image size (**16:9**, **Just Scan**, **Original**, **Full Wide**, **4:3**, **14:9**, **Zoom**, **Cinema Zoom**)
2	**Clear Voice II**	By differentiating the human frequency range from others, it helps users listen to human voices better.
3	**Picture Mode (Depending on model)**	Changes the image mode (**Intelligent sensor**, **Vivid**, **Standard**, **APS**, **THX Cinema** or **Cinema**, **THX Bright Room**, **Sport**, **Game, Photo,** **Expert1**, **Expert2**)
4	**Sound Mode**	Changes the sound mode (**Standard**, **Music**, **Cinema**, **Sport**, **Game**)
5	**Audio** or **Audio Language**	Changes the sound output.
6	**Sleep Timer**	Sets the length of time until the TV to turns off
7	**Skip Off/On**	Sets the Skip Off/On.
8	**USB Device**	Ejects a USB device when a USB device is connected

NOTE

- The available menus and options may differ from the input source that you are using.

3 Press Navigation buttons to scroll to the option you want.

4 When you are finished, press **Q. MENU.**

ENGLISH

Using customer Support.

Testing Software Update

To download software through the digital terrestrial broadcasting system.

1 Press **Home** to access the main menus.

2 Press the Red button to scroll **Customer Support**.

3 Press the Navigation buttons to scroll **Software Update.**

4 Press the Navigation buttons to scroll to **On** and press **OK**.
- If you select **On**, a user confirm message box will be displayed to notify that new software is found.

5 When you are finished, press **EXIT.**
When you return to the previous menu, press **BACK**.

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

- Download starts when "**Yes**" is selected. At this time, progressing pop-up window does not display.
- Download progress status can be checked from Software Update menu.

- TV is restarted when download is completed.

NOTE

- During Progress of a Software Update, please note the following:
  - Power to the TV must not be interrupted.
  - The antenna must not be disconnected.
  - After Software Update, you can confirm the updated software version in Software Update menu.
  - It may take hours to download the software, so make sure that the power stays on during the download.
  - The software is downloaded only in Standby mode or in MUX with Software Update Service, and stops when the power cord is unplugged or when viewing MUX without Software Update Service.
  - When you return to Standby mode or MUX with Software Update Service, the software download will resume from where it stopped.

  - Software update is applicable for DTV and Internet TV Models only.

ENGLISH

Testing the Picture / Sound

To execute picture and sound tests.

1 Press **Home** to access the main menus.

2 Press the Red button to scroll to **Customer Support**.

3 Press the Navigation buttons to scroll to **Picture Test** or **Sound Test**.

4 Press the Navigation buttons to scroll to **Yes** and press **OK**.

5 When you are finished, press **EXIT**. When you return to the previous menu, press **BACK**.

Product/Service Information

To view information on the Manufacturer, Model/Type, Serial Number and Software Version.

1 Press **Home** to access the main menus.

2 Press the Red button to scroll **Customer Support**.

3 Press the Navigation buttons to scroll **Signal Test.**

4 Press **OK**.
- Manufacturer, Model/Type, Software Version and information of Channel.

5 When you are finished, press **EXIT**. When you return to the previous menu, press **BACK**.

3D IMAGING

(Only 3D Models)

3D Technology

This TV can display in 3D via 3D broadcasting or when the TV is connected to a compatible device, such as a Blu-ray 3D Player. You need such a device to watch the TV in 3D. The 3D TV displays two separate pictures formatted for each eye. The viewer needs to wear 3D glasses in order to see these images in 3D format.

WARNING

- When watching 3D images, you should maintain a distance of at least twice the screen width, and you should also be able to see all of the screen at eye level.
- If you watch the 3D imaging too closely or for a long period of time, it may harm your eyesight.
- Watching the TV or playing video games that incorporate 3D imaging with the 3D glasses for a long period of time can cause drowsiness, headaches or fatigue to you and/or your eyes. If you have a headache, or otherwise feel fatigued or drowsy, stop watching the TV and have a rest.
- Pregnant woman, seniors, persons with heart problems or persons who experience frequent drowsiness should refrain from watching 3D TV.
- Some 3D imaging may cause you to duck or dodge the image displayed in the video. Therefore, it is best if you do not watch 3D TV near fragile objects or near any objects that can be knocked over easily.
- Please prevent children under the age of 5 from watching 3D TV. It may affect their vision development.
- Warning for photosensitization seizure: Some viewers may experience a seizure or epilepsy when exposed to certain factors, including flashing lights or images in TV or video games. If you or anybody from your family has a history of epilepsy or seizure, please consult with your doctor before watching 3D TV.

  Also certain symptoms can occur in unspecified conditions without any previous history. If you experience any of the following symptoms, immediately stop watching the 3D imaging and consult a doctor: dizziness or light-headedness , visual transition or altered vision, visual or facial instability, such as eye or muscle twitching, unconscious action, convulsion, loss of conscience, confusion or disorientation, loss of directional sense, cramps, or nausea. Parents should monitor their children, including teenagers, for these symptoms as they may be more sensitive to the effects of watching 3D TV.
- Risk of photosensitization seizure can be reduced with the following actions.
  - » Take frequent breaks from watching 3D TV.
  - » For those who have vision that is different in each eye, they should watch the TV after taking vision correction measures.
  - » Watch the TV so that your eyes are on the same level as the 3D screen and refrain from sitting too closely to the TV.
  - » Do not watch the 3D imaging when tired or sick, and avoid watching the 3D imaging for a long period of time.
  - » Do not wear the 3D glasses for any other purpose than viewing 3D imaging on a 3D TV.
  - » Some viewers may feel disoriented after watching 3D TV. Therefore, after you watch 3D TV, take a moment to regain awareness of your situation before moving.

NOTE

- To watch the TV in 3D, you must put on your 3D glasses. For best results, you should wear LG Brand 3D glasses. The 3D imaging may not display properly when using another brand of 3D glasses. Please see the 3D glasses manual for instructions on how to use the 3D glasses.
- After powering on the TV, a few seconds may be needed for your TV to calibrate.
- It may take a moment for you to see the 3D imaging if you look away from the TV and then revert your eyes back to the 3D program. (Only Plasma TV)
- If there is an obstacle between the TV and the 3D glasses, the 3D imaging may not display properly. (Only Plasma TV)
- Do not use the TV in close proximity to other electronic equipments and RF equipments. (Only Plasma TV)
- When watching 2D images, it is recommended to take off the 3D glasses. If you watch 2D images with the 3D glasses on, you may see distorted images.

When Using 3D Glasses

CAUTION

- 3D glasses are sold separately. Refer to the 3D glasses manual for operating instructions.
- Do not use the 3D glasses to replace your corrective glasses, sunglasses or protective goggles.
- Do not store the 3D glasses in hot or cold locations.
- Do not drop objects onto the 3D glasses. Do not drop or bend the glasses.
- Since the lenses of the 3D glasses are easily scratched, make sure to clean only with a soft cloth. Shake off any dust before using the cloth since the glasses are easily scratched.

3D Imaging Viewing Range

(Only Plasma TV)

TV size, viewing angle & other circumstances may change the viewing distance and the angle of view.

Viewing Distance	2 m - 10 m
Viewing Angle	120 ° (When the viewing distance is 2 m)

ENGLISH

Watching 3D images

- Image shown may differ from your TV.

View 3D mode for 3D images

1 Play the 3D video or select 3D channel.
(2D to 3D mode is available with all contents)

2 Press 3D and select same type in your displayed picture on the screen.
(Select type on "3D Video" tab)

* Notice : Turn on the 3D mode automatically for HDMI input playing the 3D blueray titles.

3 Press OK on displayed information window.

or

4 To turn off the 3D mode, press 3D and select OK.

View 2D mode for 3D images

1 Play the 3D video or select 3D channel.

2 Press 3D and select same type in your displayed picture on the screen.
(Select type on "2D Video" tab)

3 To turn off the 2D mode, press 3D and select OK.

Using 3D quick menu option

1 Press **3D SETTING**.

2 Use the following options while viewing 3D imaging.

or

(Depending on model)

Button	Description
3D Picture Size	Cuts off the outer edges of the picture and stretch it to fit the full screen in 3D mode.
3D Depth	Adjusts the distance between the object and the background in the picture to enhance the 3D effect in 2D to 3D mode.
3D Viewpoint	Brings the picture (including both the object and background images) to the front or back to enhance the 3D effect in 3D mode.
3D Picture Balance	Adjusts the colour and brightness difference between the right and left sides of the picture in 3D mode.
3D Picture Correction	Changes the order of images in the right and left sides of the picture in 3D mode.

CAUTION

- Some menus may not work while watching the TV in 3D.
- If used 3D effect on the 2D source, 3D may not work.
- The 3D imaging mode is disabled automatically when switching DTV channe ls, input source.
- The screen may not be displayed properly if you view 2D DTV images in 3D imaging mode.
- 3D effect can be seen when 3D Mode is selected appropriately for the 3D input signal supplied to the TV.
- For *mpo files (3D camera files), the 3D imaging mode is enabled automatically.
- 3D may not be displayed properly for some PC graphics cards.

CAUTION

* For LCD TV/LED LCD TV

- If you select 3D mode, “Power indicator” is turned off automatically.
- While watching 3D imaging, you cannot adjust video/audio settings using the menu.
- You can only choose “Standard → Cinema → Game” with the AV MODE button on the remote control. **AV Mode** is set as **Standard** while playing in 3D.
- If you’d like to play the BGM using *.mpo file(3D camera file), In advance, the contents path for BGM should be set on full-sized photo view screen which isn’t *.mpo file(3D camera file).
- Picture mode is set as Standard, Energy Saving Off if entering to 3D mode.

ENTERTAINMENT

Connecting USB storage devices

Connect USB storage devices such as a USB flash memory, external hard drive to the TV and use multimedia features (See "Browsing files" on p.56).
Connect a USB flash memory or USB memory card reader to the TV as shown on the following illustration. The My media screen appears, “POP UP MENU” will not be displayed while the OSD including Menu, EPG or Schedule list is activated.

To disconnect a USB storage device,
make sure to end the connection properly to prevent damages to the TV or files.

1 Press **Q.MENU** to access the quick menus.

2 Press the Navigation buttons to scroll to **USB Device** and press **OK**.

3 Press the Navigation buttons to scroll to **Eject** and press **OK**.

4 Disconnect the USB storage device only when the message says that it is safe to remove.

CAUTION

- Do not turn the TV off or remove a USB storage device while the USB storage device is connected to the TV, as this could result in loss of files or damage to the USB storage device.
- Back up your files saved on a USB storage device frequently, as you may lose or damage the files and this may be not covered by the warranty.

Tips for using USB storage devices

- 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 manoeuvred 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 0.5 A) 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.

- 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.
- 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 1 TB or less for a USB external hard disk and 32 GB 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.
- Maximum of 999 folders or files can be recognized under one folder.
- The file arrangement of the USB storage device is similar to that of Windows XP and supports up to 100 alphabetical characters.
- If there are a lot of folders or files all within one folder, the device may not be able to access these properly.

ENGLISH

Browsing files

Access the photo, music, or movie lists and browse files.

1 Connect a USB storage device.

2 Press **Home** to scroll to main menus.

3 Press the Navigation buttons to scroll to **My Media** and press **OK**.

4 Press Navigation buttons to scroll to **PHOTO LIST**, **MUSIC LIST**, or **MOVIE LIST** and press **OK**.

No.	Description
1	Moves to upper level folder
2	Current page/Total pages
3	Corresponding buttons on the remote control
4	Current page/ total pages of contents under the folder focused on 1
5	Contents under the folder focused on 1
Buttom	**Description**
Green button	Repeatedly, press the GREEN button to converted to **Photo List->Music List**, **Music List->Movie List** or **Movie List->Photo List**.
Yellow button	A method to view in 5 large thumbnail or simple list.
Blue button	Convert to Mark Mode.

Supported file format

Type	Supported file format
Movie	DAT,MPG,MPEG,VOB,AVI,DIVX,MP4, TS,TRP,TP,WMV) **Movie**(*.mpg/*.mpeg/*dat/*.ts/*.trp/*.tp/*.vob/*.mp4/*.mov/*.divx/*.avi/*.wmv/*.avi(motion-jpeg)/*.mp4(motion-jpeg) **Video format** : DivX3.11, DivX4.12, DivX5.x, DivX6, Xvid1.00, Xvid1.01, Xvid1.02, Xvid1.03, Xvid1.10 beta-1/beta-2, Mpeg-1, Mpeg-2, Mpeg-4, H.264/AVC, VC1, JPEG, Sorenson H.263 **Audio format** : Dolby Digital, AAC, Mpeg, MP3, LPCM, HE-AAC, ADPCM, WMA **Bit rate** : within 32 kbps to 320 kbps(MP3) **External Subtitle format** : *.smi/*.srt/*.sub (MicroDVD,Subviewer1.0/2.0)/*.ass/*.ssa/*.txt(TMPlayer)/*.psb(PowerDivX) **Internal Subtitle format** : only, XSUB (It is the subtitle format used in DivX6 files)
Photo	JPEG Baseline : 64 x 64 to 15360 x 8640 Progressive : 64 x 64 to 1920 x 1440 • You can play JPEG files only. • Non-supported files are displayed in the form of predefined icon.

For 3D TV

	File Extensions	Item	Profile
2D	jpeg jpg jpe	Supported file format	• SOF0: baseline • SOF1: Extend Sequential • SOF2: Progressive
		Photo size	• Min: 64 x 64 • Max - Normal Type: 15360 (W) x 8640 (H) • Progressive Type: 1920 (W) x 1440 (H)
3D	mpo	Supported file format	• mpo
		Photo size	• 4:3 size: 3,648 x 2,736 • 2,592 x 1,944 • 2,048 x 1,536 • 3:2 size: 3,648 x 2,432

Music	MP3 Bit rate 32 to 320 • Sampling rate MPEG1 Layer3 : 32 kHz, 44.1 kHz, 48 kHz • Sampling rate MPEG2 Layer3 : 16 kHz, 22.05 kHz, 24 kHz • Sampling rate MPEG2.5 Layer3 : 8 kHz, 11.025 kHz, 12 kHz

Viewing movies

Play video files on the TV. Your TV displays all of the video files saved in a USB storage device or shared folder on a PC.

1 Press the Navigation buttons to scroll to **My Media** and press **OK**.

2 Press the Navigation buttons to scroll to **Movie List** and press **OK**.

3 Select **Drive1** to access the connected USB storage device.

4 Press the Navigation buttons to scroll to a folder you want and press **OK**.

5 Press the Navigation buttons to scroll to a file you want and press **OK**.

Menu	Description
Play Marked	Play the selected movie file. Once a movie file finishes playing, the next selected one will be played automatically.
Mark All	Mark all movie files on the screen.
Unmark All	Deselect all marked movie files.
Exit Mark Mode	Exit the Mark Mode.

ENGLISH

6 Play a movie.

NOTE

- Non-supported files are displayed the preview image by icon only .
- Abnormal files are displayed in the form of bitmap .

7 Control playback by using the following buttons.

Button	Description
■	Stops the playback
▶	Plays a video
❚❚	Pauses or resumes the playback
◀◀	Scans backward in a file
▶▶	Scans forward in a file
Home or **Q.MENU**	Show the **Option** menu.
BACK	Hide the menu on the full-sized screen.
EXIT	Return to normal TV viewing.
< >	Skips to specific points in a file during playback. The time of a specific point will appear on the status bar. In some files, this function may not work properly.
ENERGY SAVING	Press the **ENERGY SAVING** button repeatedly to increase the brightness of your screen.
AV MODE	Press the **AV MODE** button repeatedly to select the desired source.

Tips for using playing video files

- 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.
- Changing font and colour in subtitles is not supported.
- Subtitles in languages other than one specified are not supported.
- Video files with subtitle files of 1 MB or larger may not be played properly.
- 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 20 Mbps. (only, Motion JPEG : 10 Mbps)
- 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 30 GB 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) and Qpel (Quarterpel Motion Estimation) 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.
- Trick Mode does not support other functions than ▶▶ if video files do not have index information.
- Video file names that contain special characters may not be playable.

ENGLISH

Video options

1 Press **Q. MENU** to access the **Pop-Up** menus.

2 Press the Navigation buttons to scroll to **Set Video Play.**, **Set Video.** or **Set Audio.** and press **OK**.

NOTE

- Option values changed in **Movie List** does not affect **Photo List** and **Music List**.
- Option value changed in **Photo List** and **Music List** are changed likewise in **Photo List** and **Music List** excluding **Movie List**.
- When replaying the video file after stopping, you can play from where it stopped previously.

When you select the **Set Video Play,**,

1 Press the Navigation buttons to scroll to show the **Picture Size**, **Audio Language**, **Subtitle Language** or **Repeat**.

2 Press the Navigation buttons to scroll to make appropriate adjustments.

Menu	Description
Picture Size	Selects your desired picture format during movie play.
Audio Language	Changes the Language Group of the audio during movie play. Files with a single audio track cannot be selected.
Subtitle Language	Turn on/off the subtitle.
Language	Activated for SMI subtitle and can select the language within the subtitle.
Code Page	Can select the font for subtitle. When set to default, same font as general menu will be used.
Sync	Adjusts the time synchronisation of the subtitle from -10 secs to +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.
Size	Selects your desired Subtitle size during movie play.
Repeat	Turn on/off repeat function of movie playback. When turned on, the file within the folder will be played back repeatedly. Even when the repeated playback is turned off, it can run the playback if the file name is similar to the previous file.

Subtitle Language	Support Language
Latin1	English, French, Spanish, Portuguese, Malaysia, Indonesia
Cyrillic	Russian
Thai	Thai
Hebrew	Hebrew
Arabic	Arab, Parsi, Krudish
Unicode(UTF-16)	Vietnamese language

NOTE

- Only 10,000 of sync blocks can be supported within the subtitle file.
- When playing a video, you can adjust the Picture Size by pressing the **RATIO** button.

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When you select the **Set Video,**

1 Press the Navigation buttons to scroll to make appropriate adjustments. (See p.68)

When you select the **Set Audio,**

1 Press the Navigation buttons to scroll to show the **Sound Mode**, **Auto Volume**, **Clear Voice II** or **Balance**.

2 Press the Navigation buttons to scroll to make appropriate adjustments. (See p.73)

Menu	Description
View Marked	Display the selected photo file.
Mark All	Mark all photo files on the screen.
Unmark All	Deselect all marked photo files.
Exit Mark Mode	Exit the Mark Mode.

ENGLISH

Viewing photos

View image files saved in a USB storage device or shared folder on a PC through the network connection. The displays on the screen may differ from the model.

1 Press the Navigation buttons to scroll to **My Media** and press **OK**.

2 Pressthe Navigation buttons to scroll to **Photo List** and press **OK**.

3 Press the Navigation buttons to select **Drive1** to access the connected USB storage device.

4 Press the Navigation buttons to scroll to a folder you want and press **OK**.

5 Press the Navigation buttons to scroll to a file you want and press **OK**.

6 View photos.

NOTE

- Non-supported files are displayed the pre-view image by icon only .
- Abnormal files are displayed in the form of bitmap .

Using photo options

Use the following options while viewing photos.

Option	Description
Slideshow	Starts or stops a slideshow with selected photos. If there are no selected photos, all photos saved in the current folder display during a slideshow. To set a slideshow speed, select **Option**.
BGM	Turns the background music on or off. To set the background music folder, select **Option**. You can adjust Option by Q.MENU or Home button on the remote control.
↻ (Rotate)	Rotates photos clockwise (90°, 180°, 270°, 360°). NOTE • The supported photo size is limited. You cannot rotate a photo if the resolution of the rotated width is larger than the supported resolution size.
Q	View the photo by zoom in 2, 4 times.
ENERGY SAVING	Press the **ENERGY SAVING** button repeatedly to change the brightness of your screen.
Option	• **Slide Speed**: Selects a slideshow speed (**Fast**, **Medium**, **Slow**). • **BGM**: Selects a music folder for the background music. NOTE • You cannot change the music folder while the background music is playing. • You can only select the MP3 folder saved on the device that currently displays the photo.
Hide	Hides the option window. To display the options, press **OK**.

Photo options

1 Press **Q. MENU** or **Home** to show the **Option** menus.

2 Press the Navigation buttons to scroll to **Set Photo View.**, **Set Video.** or **Set Audio.** and press **OK**.

NOTE

- Option values changed in **Movie List** does not affect **Photo List** and **Music List.**
- Option value changed in **Photo List** and **Music List** are changed likewise in **Photo List** and **Music List** excluding **Movie List**.

When you select the **Set Photo View**,

1 Press the Navigation buttons to scroll to select **Slide Speed** or **BGM.**.

2 Press the Navigation buttons to scroll to make appropriate adjustments.

ENGLISH

When you select the **Set Video**,

1 Press the Navigation buttons to scroll to make appropriate adjustments. (See p.68)

When you select the **Set Audio,**,

1 Press the Navigation buttons to scroll to show the **Sound Mode**, **Auto Volume**, **Clear Voice II** or **Balance**.

2 Press the Navigation buttons to scroll to make appropriate adjustments. (See p.73)

Listening to music

1 Press the Navigation buttons to scroll to **My Media** and press **OK**.

2 Press the Navigation buttons to scroll to **Music List** and press **OK**.

3 Press the Navigation buttons to select **Drive1** to access the connected USB storage device.

4 Press the Navigation buttons to scroll to a folder you want and press **OK**.

5 Press the Navigation buttons to scroll to a file you want and press **OK**.

Menu	Description
Play Marked	Display the selected music file.
Mark All	Mark all music files on the screen.
Unmark All	Deselect all marked music files.
Exit Mark Mode	Exit the Mark Mode.

6 Play music.

7 Control playback by using the following buttons.

Button	Description
■	Stops playback
▶	Plays a music file
❚❚	Pauses or resumes playback
▶▶	Scans forward in a file.
◀◀	Scans backward in a file.
◀◀ or ▶▶	When playing, When you press the ◀◀ button, the previous music file will be played. When you press the ▶▶ button, the next music file will be played.
Green button	Start playing the selected music files and then move to the **Photo List**.
ENERGY SAVING	Press the **ENERGY SAVING** button repeatedly to change the brightness of your screen.
Home or **Q.MENU**	Show the Option menu.
Hide	Hides the option window. To display the options, press **OK**.
EXIT	When you press the **EXIT** button while the Music player is displayed, only the music will be stopped and the player will not return to normal TV viewing. When you press the **EXIT** button while the music is stopped or while the music player is hidden, the player will return to normal TV viewing.
< >	When using the **<** > button during playback a cursor indicating the position can be played.

Tips for playing music files

- This unit cannot support the ID3 Tag embedded MP3 files.

ENGLISH

NOTE

- Non-supported files are displayed the preview image by icon only .
- Abnormal files are displayed in the form of bitmap .
- 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( ), , , , 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.

Music options

1 Press **Q. MENU** to access the Pop-Up menus.

2 Press the Navigation buttons to scroll to **Set Audio Play.** or **Set Audio.** and press **OK**.

NOTE

- Option values changed in **Movie List** does not affect **Photo List** and **Music List**.
- Option value changed in **Photo List** and **Music List** are changed likewise in **Photo List** and **Music List** excluding **Movie List.**

When you select the **Set Audio Play.**,

1 Press the Navigation buttons to scroll to select the **Repeat** or **Random**.

2 Press the Navigation buttons to scroll to make appropriate adjustments.

When you select the **Set Audio,**

1 Press the Navigation buttons to scroll to select the **Sound Mode, Auto Volume, Clear Voice II** or **Balance**.

2 Press the Navigation buttons to scroll to make appropriate adjustments.(See p.73)

ENGLISH

DivX registration code

Registering the DivX code

Check and register the DivX registration code of your TV so that you can rent or purchase the latest movies at www.divx.com/vod. To play a rented or purchased DivX file, the file's registration code should be same with your TV's DivX registration code.

1 Press **Home** to access the main menus.

2 Press the Navigation buttons to scroll to **MY MEDIA** and press **OK**.

3 Press the Blue button.

4 Press the Navigation buttons to scroll to **DivX Reg. Code** and press **OK**.

5 View the registration code of your TV.

6 When you are finished, press **EXIT**.
When you return to the previous menu, press **BACK**.

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, JPEG, VC1, Sorenson H.263/H.264 .
- Your device is not authorized to play Div-x protected Video and Audio files. In case if plays your device is not responsible for Audio/Video Abnomality (No Audio/No Video).

Deactivating the DivX feature

Deactivate all of the devices through the web server and block devices from activating.
Delete the existing authentication information to receive a new DivX user authentication for the TV. Once this function is executed, a DivX user authentication is required again to see DivX DRM files.

1 Press **Home** to access the main menus.

2 Press the Navigation buttons to scroll to **MY MEDIA** and press **OK**.

3 Press the Blue button.

4 Press the Navigation buttons to scroll to **Deactivation** and press **OK**.

5 Press the Navigation buttons to select **Yes** to confirm.

6 When you are finished, press **EXIT**.
When you return to the previous menu, press **BACK**.

ENGLISH

CUSTOMIZING TV SETTINGS

Accessing main menus

1 Press **Home** to access the main menus.

2 Press the Navigation buttons to scroll to one of the following menus and press **OK**.

3 Press Navigation buttons to scroll to the setting or option you want and press **OK**.

4 When you are finished, press **EXIT**.

ENGLISH

Customizing settings

SETUP settings

- Image shown may differ from your TV.

1 Press **Home** to access the main menus.

2 Press the Navigation buttons to scroll to **SETUP** and press **OK**.

3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- To return to the previous level, press **BACK**.

4 When you are finished, press **EXIT**.

The available programme settings are described in the following:

Setting	Description
Auto Tuning	Tunes and stores all available programmes through antennas or cable inputs (See p.35).
Manual Tuning	Tunes and stores the programmes you want manually (See p.35).
Programme Edit	Adds or deletes programmes on the programme (See p.37).

ENGLISH

- Image shown may differ from your TV.

PICTURE settings

1 Press **Home** to access the main menus.

2 Press the Navigation buttons to scroll to **PICTURE** and press **OK**.

3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- To return to the previous level, press **BACK**.

4 When you are finished, press **EXIT**.

The available picture settings are described in the following.

(Depending on model)

Setting	Description	
Aspect Ratio	Changes the image size to view images at its optimal size (See p.45).	
Picture Wizard	Adjusts the image quality and calibrates the screen by following the on-screen instructions. The customized options will be saved as **Expert1** in the **Picture Mode**.	
	Standard	Mode to set standard picture quality. (**Black Level**, **White Level**, **Tint**, **Colour**, **Horizontal Sharpness**, **Vertical Sharpness**, **Backlight**(Only LCD TV/LED LCD TV)
	Preferred	Mode to set user preferred picture quality rather than standard picture. (**Black Level**, **White Level**, **Tint**, **Colour**, **Sharpness**, **Dynamic Contrast**, **Colour Temperature**, **Backlight**(Only LCD TV/LED LCD TV))
	NOTE • If you stop the setting before the final stage, the changes will not be applied. • If you use **Picture Wizard**, the Energy saving feature will turn off automatically. • If the picture quality setting of **Expert1** is changed, use the **Picture Reset** before entering the **Picture Wizard** to reset the picture quality setting. • In RGB-PC/HDMI-PC/DVI-PC mode, the changed Colour, Tint and H/V Sharpness values are not applied.	
Energy Saving	Reduces the power consumption by adjusting the screen brightness.	
	Option	
	Intelligent sensor (Only Plasma TV) or **Auto** (Only LCD TV/LED LCD TV)	*This feature is not available for all models. The most suitable brightness is automatically adjusted according to the surrounding conditions.
	Off	The **Energy Saving** is off
	Minimum/Medium/Maximum	Selects the brightness level.
	Screen off	The screen turns off in 3 seconds.
	NOTE • When adjusting **Energy Saving** in MHEG mode, the **Energy Saving** setting is applied after MHEG is finished. • When you select **Screen Off**, the screen will be turned off in 3 seconds and **Screen Off** will start. • Selecting '**Screen Off**' while tuned to a radio station channel will reduce power consumption. • If you adjust "**Energy Saving-Auto**(Depending on model), **Maximum**", **Backlight** feature will not work. (LCD TV/LED LCD TV only) • If you adjust "**Energy Saving-Intelligent Sensor**", **Sharpness, Colour, Colour Temperature** feature will not work. (Plasma TV only) • When selecting **Auto**, **Backlight** is automatically adjusted through intelligent sensor according to the surrounding condition when intelligent sensor is in the TV. (LCD TV/LED LCD TV only) (Depending on model)	

ENGLISH

Setting	Description	
Picture Mode	Selects one of the preset image or customizes options in each mode for the best TV screen performance. You are also able to customize advanced options of each mode. The available preset picture modes vary depending on the TV.	
	Mode	
	Intelligent sensor (Only LCD TV/ LED LCD TV)	*This feature is not available for all models. Adjusts picture according to the surrounding conditions.
	Vivid	Adjusts the video image for the retail environment by enhancing the contrast, brightness, colour, and sharpness.
	Standard	Adjusts the image for the normal environment.
	APS (Only Plasma TV)	Optimizes power consumption.
	Cinema or THX Cinema or THX 3D Cinema	Optimizes the video image for a cinematic look to enjoy movies as if you are in a movie theatre
	THX **Bright Room** (Only Plasma TV)	*This feature is not available for all models. This is the specification to optimize TV viewing in **Bright Room**.
	Sport	Optimizes the video image for high and dynamic actions by emphasizing primary colours such as white, grass, or sky blue.
	Game	Optimizes the video image for a fast gaming screen such as PCs or games.
	Photo (Depending on model)	Optimizes the still image like a photo file in USB mode. » e.g.) when connecting the external device like a DSLR.
	Expert	Adjusts the detailed video image settings for video experts as well as general viewers.

NOTE

- **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.
- You can also adjust **Picture Mode** in the **Q. Menu**.
- APS (Auto Power Saving) : Maximize reducing the power consumption without hurting the picture quality. (Only Plasma TV)
- If you adjust "**Picture Mode**-THX **Cinema**, THX **Bright Room**", "**Energy Saving**-**Intelligent Sensor**, **Minimum**, **Medium**, **Maximum**" feature will not work. (Only Plasma TV)
- If you adjust "**Picture Mode**- APS", "**Energy Saving**-**Off**, **Minimum**, **Medium**, **Maximum**" feature will not work. (Only Plasma TV)

» THX **Cinema** or THX 3D **Cinema**(Only Plasma TV) :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**, THX **Bright Room** 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.

ENGLISH

Setting	Description		
TruMotion (Only LCD TV/ LED LCD TV)	*This feature is not available for all models. It is used for the best picture quality without any motion blur or judder when you enter a quick image or Film Source. TruMotion works with all inputs except PC mode. This feature is disabled in RGB-PC, HDMI-PC and **MY MEDIA-Photo List** mode. If you enable "**TruMotion**", noise may appear on the screen. If this occurs, set "**TruMotion**" to "**Off**". If you select "**Picture Mode-Game** ", set "**TruMotion**" to "**Off**".		
	Option		
	High	Provide smoother picture movement.	
	Low	Provide smooth picture movement. Use this setting for standard use.	
	Off	Turn off TruMotion Operation.	
	User	User can adjust Judder and Blur level in TruMotion Operation, separately.	
		Judder	Adjusts noise of the screen.
		Blur	Adjusts after-image of the screen.
SCREEN	Customizes the PC display options.		
	Option		
	Resolution	Selects a proper resolution when your PC uses.	
	Auto Configure	Sets the TV to optimize the options automatically for the TV display.	
	Position	Locates the image at the proper position.	
	Size	Adjusts the image size.	
	Phase	Eliminates horizontal streaking.	
	Reset	Restores the options to the default setting.	
LED Local Dimming (Only LCD TV/LED LCD TV)	*This feature is not available for all models. After analysing the signal of the input video by areas of the screen, it adjusts the backlight to improve the contrast ratio.		

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Basic image options (Depending on model)

Setting	Description
Backlight (Only LCD TV/LED LCD TV)	Adjusts the brightness of the screen by controlling the LCD backlight. If you decrease the brightness level, the screen becomes darker and the power consumption will be reduced without any video signal loss. • If you use the "**Energy saving - Auto, Minimum, Medium, Maximum**", **Backlight** will not be available. • Benefits of using **Backlight** - 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.
Contrast	Increases or decreases the gradient of the video signal. 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.
Colour Temp.	Set to warm to enhance hotter colours such as red, or set to cool to enhance cooler colours such as blue.
Advanced Control or **Expert Control**	Customizes the advanced options
Picture Reset	Restores the options of each mode to the factory default

NOTE

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

Advanced image options (Depending on model)

Setting	Description
Dynamic Contrast	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	Adjusts screen colours so that they look livelier, richer and clearer. This feature enhances hue, saturation and luminance so that red, blue and green white look more vivid.
Clear White	Makes the white area of the screen brighter and clearer.
Skin Colour	It detects the skin area of video and adjusts it to express a natural skin colour.
Noise Reduction	Reduces screen noise without compromising video quality.
Digital Noise Reduction	Removes noise caused by compressing video.
Gamma	You can adjust brightness of dark area and middle gray level area of the picture. • Low: Make the dark and middle gray level areas brighter. • Medium: Express the original picture level. • High: Make the dark and middle gray level area darker.
Black Level	Sets black level of the screen to proper level. This function is available in the following modes: AV (NTSC-M), HDMI, Component or USB(Only Plasma TV). • Low: The reflection of the screen gets darker. • High: The reflection of the screen gets brighter. • Auto : Sets black level of the screen to High or Low automatically according to the input signal level.
Eye Care	Adjusts 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**, **Expert1**, **Expert2**, **Intelligent Sensor**."
Film Mode or **Real Cinema**	Makes video clips recorded in film look more natural by eliminating judder effect. DVD and Blu-ray movies are filmed at 24 frames per second (fps). With LG Real Cinema, every frame is consistently processed 5 times in 1/24 of a second producing 120 fps with TruMotion or 2 times in 1/24 of a second producing 48 fps without TruMotion, thus totally eliminating the judder effect. This function can also work when TruMotion is off.

Advanced image options (Depending on model)

Setting	Description		
Colour Gamut	**Advanced Control** Maximizes the utilization of colour to increase colour quality. Standard: Displays standard set of colours. Wide: Increase number of colours used.		
	Expert Control Displays colour domain of the signal. Standard: Displays standard set of colours. Wide: Increase number of colours used. EBU: Mode to display EBU standard colour area. SMPTE: Mode to display SMPTE standard colour area. BT709: Mode to display BT709 standard colour area.		
Edge Enhancer	Shows clearer and distinctive yet natural edges of the video.		
xvYCC (available in Cinema and Expert mode)	*This feature is not available for all models. This is produces richer colours. This feature represents rich colours as much as a conventional video signal. This function is enabled in "**Picture mode - Cinema, Expert**" when **xvYCC** signal is inputted through HDMI.		
Colour Filter	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.		
Expert Pattern (available in Expert modes)	This is the pattern used for expert adjustment This function is enabled in "**Picture Mode - Expert**" when you watch DTV.		
Colour Temperature	Adjusts the overall colour of the screen by changing the white baseline.		
	Plasma TV	a. Method : 2 Points • Pattern: Inner, Outer • Red/Green/Blue Contrast, Red/Green/Blue Brightness: The adjustment range is -50 to +50.	b. Method : 20 Point IRE • IRE (Institute of Radio Engineers) is the unit to display the size of the video signal and can be set among 5, 10, 15 - 100 Plasma TV. You can adjust Red, Green or Blue according to each setting. • Red/Green/Blue: The adjustment range is -50 - +50. c. Apply to all inputs
	LCD TV/ LED LCD TV		b. Method : 10 Point IRE • 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. 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. • Red/Green/Blue: The adjustment range is -50 - +50. c. Apply to all inputs
Colour Manage System	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/Yellow/Cyan/Magenta). 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.		

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AUDIO settings

- Image shown may differ from your TV.

1 Press **Home** to access the main menus.

2 Press the Navigation buttons to scroll to **AUDIO** and press **OK**.

3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.

- To return to the previous level, press **BACK**.

4 When you are finished, press **EXIT**.

The available audio settings are described in the following.

(Depending on model)

Setting	Description	
Auto Volume	Activates the Auto Volume feature to keep the volume level consistent whenever you change channels. The volume level may not be consistent due to different signal conditions of broadcasting stations.	
Clear Voice Ⅱ	Sets whether to enhance human voice clarity. You can adjust the level of clarity when you set this feature on. NOTE • If you select “**On**” for **Clear Voice II**, **Infinite Surround** feature will not work. • Select levels from ‘-6’ to ’+6’.	
Balance	Adjust balance between the left and right speakers according to your room environment.	
Sound Mode	Selects one of the preset sound modes or customizes options in each mode.	
	Mode	
	Standard	Select when you want standard-quality sound.
	Music	Select when you listen to music.
	Cinema	Select when you watch movies.
	Sport	Select when you watch sports events.
	Game	Select when you play games.
	Option	
	Infinite Surround	**Infinite Surround** is a patented LG proprietary sound processing technology that strives immersive 5.1 surround sound impression with front two loudspeakers.
	Treble	Controls the dominant sounds in the output. When you turn up the treble, it will increase the output to the higher frequency range.
	Bass	Controls the softer sounds in the output. When you turn up the bass, it will increase the output to the lower frequency range.
	Reset	Resets the sound mode to the default setting.

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Setting	Description		
Digital Audio Out	This function allows you to select your preferred Digital Audio Output. 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.		
	Item	**Audio Input**	**Digital Audio output**
	Auto	MPEG Dolby Digital Dolby Digital Plus HE-AAC	PCM Dolby Digital Dolby Digital Dolby Digital
	PCM	All	PCM
TV Speaker	Turns on the internal speaker of the TV when using an external Hi-Fi system. You can use the TV speaker as an audio output device even if there is no video input. NOTE When the **TV speaker** is turned off while the Simplink home theatre is operating, the sound output automatically switches to the Home theatre speaker, but when the **TV speaker** is turned on, the sound output the **TV speaker**. Some menus in **AUDIO** are disabled when **TV Speaker** is set to **Off**.		
DTV Audio Setting (In digital mode only)	When different audio types exist in an input signal, this function allows you to select the audio type you want.		
	Mode		
	Auto	Automatically outputs in the order **HE-AAC** > **Dolby Digital+** > **Dolby Digital** > **MPEG**.	
	HE-AAC, Dolby Digital+, Dolby Digital, MPEG	Allows users to select the audio type they want. ex) If **MPEG** is selected, **MPEG** is always outputted. If MPEG is not supported, another audio type is set in that order.	
	See "Audio Language" on p.78		

This feature may not be applied based on country broadcasting circumstance.

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.

1 Press **Q. MENU** and press the Navigation to access the **Audio** or **Audio Language** and press **OK**.

2 Press the Navigation button to scroll to sound output and press **OK**.

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

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

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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.

TIME settings

- Image shown may differ from your TV.

1 Press **Home** to access the main menus.

2 Press the Navigation buttons to scroll to **TIME** and press **OK**.

3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- To return to the previous level, press **BACK**.

4 When you are finished, press **EXIT**.

The available time settings are described in the following

Setting	Description
Clock	Sets the time, date, time zone and daylight-saving time feature. The time will be set automatically according to a digital channel signal which includes time information provided by the broadcasting station. If not, set the time and date manually. **Time Zone** is enabled only in Australia, Indonesia and Israel only. NOTE • < Only Australia > 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. • <Only Indonesia, Israel> GMT (Greenwich Mean Time) which is received with the broadcast signal and the time is set automatically by a digital signal. • When if the city name in Time Zone is changed into offset, you can change time by 1 hour. • Time Zone menu can be changed in Auto mode.
Off Time/On Time	Sets the time to turn on or off the TV automatically. To use this function, you should set the current time and date in advance. NOTE • If you do not press any button within 2 hours after the TV turns on by the On Time feature, the TV enters the Standby mode automatically.(Except for 22/26/32LK335C-TB, 32/37/42/47/55LV355C-TA, 32/37/42/47LK455C-TA) • If you set both Off time and On time features to the same time, the Off time feature overrides the On time feature.
Sleep Timer	Sets the length of time until the TV to turns off. When you turn the TV off and turn it on again, the Sleep timer feature will be set to off.

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LOCK settings

- Image shown may differ from your TV.

1 Press **Home** to access the main menus.

2 Press the Navigation buttons to scroll to **LOCK** and press **OK**.

3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- To return to the previous level, press **BACK**.

4 When you are finished, press **EXIT**.

The available lock settings are described in the following.

Setting	Description
Lock System	Activates or deactivates the lock system.
Set Password	Changes the 4-digit password. The default PIN is **"0 0 0 0"**. If you forget your password, press '0', '3','2', '5' on the remote control handset.
Block Programme	Blocks the programmes that contain inappropriate contents for children by pressing the Green button. The Lock icon appears in front of the blocked programmes. The programmes can be selected but the screen blank and the audio is muted. To watch a locked channel, enter the password. It is available to use this function in **Lock System** "**On**"
Parental Guidance (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. Rating differs by country.
Input Block	Block the input sources. It is available to use this function in **Lock System** "**On**"
Key Lock	Locks or unlocks the buttons on the TV.

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- Image shown may differ from your TV.

OPTION settings

1 Press **Home** to access the main menus.

2 Press the Navigation buttons to scroll to **OPTION** and press **OK**.

3 Press the Navigation buttons to scroll to the setting or option you want and press **OK**.
- To return to the previous level, press **BACK**.

4 When you are finished, press **EXIT**.

The available general settings are described in the following:

(Depending on model)

Setting	Description	
Language	Selects a language for the display or audio.	
	Option	
	Menu Language	Select your desired language.(Except for Australia, New Zealand, Singapore and South Africa.)
	Audio Language (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. **Audio Language OSD Information** Display / Status N.A / Not Available MPEG / MPEG Audio D / Dolby Digital Audio Audio for “Visual Impaired” ABC / Audio for “Hearing Impaired” D+ / Dolby Digital Plus Audio HE-AAC / HE-AAC Audio
	Subtitle Language (In Digital mode only)	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. **Subtitle Language OSD Information** Display / Status N.A / Not Available TXT / Teletext Subtitle ABC / Subtitle for “Hard of Hearing”
	Text Language (In Digital mode only)	In Digital mode, use the Text language function when two or more Text languages are broadcast. If teletext data in a selected language is not broadcast, the default Text language will be displayed. If you select the wrong local country, teletext may not appear correctly on the screen and some problems may occur during teletext operation.
	NOTE • When the languages you selected as the primary for Audio Language and Subtitle Language and Text Language are not supported, you can select language in secondary category (Only New Zealand). • 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.	

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Setting	Description	
Country (Only Australia & New Zealand)	Selects a desired country.	
**Hard of Hearing ( ) ** (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. - It is only available to use Hard of Hearing on some TV stations in New Zealand.	
Power Indicator (Only LCD TV/LED LCD TV)	Adjust the power/standby indicator light on the front of the TV. If you select 3D mode, Power indicator is turned off automatically.	
	Option	
	Standby Light	Set to turn on or off the indicator light in Standby mode.
	Power Light	Set to turn on or off the indicator light when you turn on the power.
ISM Method (Only plasma TV)	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.	
	Option	
	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.
	White Wash	White wash removes permanent images from the screen. Note: An excessive permanent image may be impossible to clear entirely with White Wash.
Data Service (This menu is enabled only in South Africa, Malaysia.)	This function allow users to choose between MHEG (Digital Teletext) and Teletext if both exist at the same time.	
Factory Reset	This function initializes all settings. NOTE • In **Lock System "On"**, if you forget your password, press '0', '3', '2', '5' on the remote control handset.	
Set ID	Adds an ID to the connected devices	
Mode Setting	Default selection is "Home Use". We recommend setting the TV to "Home Use" mode for the best picture in your Home environment.	
	Option	
	Home Use	Selects it for the Home environment.
	Store Demo	Selects it for the retail environment.
	Demo Mode	Sets to show special features of the TV. You can cancel the demo mode by pressing any buttons except the Volume and Mute buttons. NOTE • 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**.

ENGLISH

MAKING CONNECTIONS

Connect various external devices to the TV and switch input modes to select an external device. For more information on external device's connection, refer to the manual provided with each device.
Available external devices are: HD receivers, DVD players, VCRs, audio systems, USB storage devices, PC, gaming devices, and other external devices.

NOTE

- The external device connection may differ from the model.
- Connect external devices to the TV regardless of the order of the TV port.

Connection overview

Connect various external devices to the ports on the TV back panel.

1 Find an external device you want to connect to your TV as shown on the following illustration.

2 Check the connection type of the external device.

3 Go to the appropriate illustration and check the connection details.

(Depending on model)

NOTE

- If you connect a gaming device to the TV, use the cable supplied with the gaming device.
- Refer to the external equipment's manual for operating instructions.

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- This section on **MAKING CONNECTIONS** mainly uses diagrams for the 50/60PV25** models.
- Image shown may differ from your TV.

Connecting to a HD receiver, DVD, or VCR player

Connect a HD receiver, DVD, or VCR player to the TV and select an appropriate input mode.

HDMI connection

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

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 High Speed HDMI Cable. If the HDMI cables are not High Speed HDMI Cable, flickering or no screen display can result. Please use the High Speed HDMI Cable.

DVI to HDMI connection

Transmits the digital video signal from an external device to the TV. Connect the external device and the TV with the DVI-HDMI cable as shown in the following illustration. To transmit an audio signal, connect an audio cable.

Component connection

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

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Composite connection

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

(Depending on model)

or

Only Plasma TV

or

NOTE

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

ENGLISH

Connecting to a PC

NOTE

- It is recommended to use the TV set with the HDMI connection for the best image quality.

HDMI connection

Transmits the digital video and audio signals from your PC to the TV. Connect the PC and the TV with the HDMI cable as shown in the following illustrations.

DVI to HDMI connection

Transmits the digital video signal from your PC to the TV. Connect the PC and the TV with the DVI-HDMI cable as shown in the following illustration. To transmit an audio signal, connect an audio cable.

RGB Connection

Transmits the analogue video signal from your PC to the TV. Connect the PC and the TV with the supplied D-sub 15 pin signal cable as shown in the following illustrations. To transmit an audio signal, connect an audio cable.

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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 cannot 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, 60 Hz(Except for 42/50PT25**, 42/50PW35**, 42/50PW45**, 22/26/32LK33**, 19/22/26/32LV25**, 26/32LV30**), 1360x768, 60 Hz(Only 22/26/32LK33**, 19/22/26/32LV25**, 26/32LV30**), 1024x768, 60 Hz(Only 42/50PT25**, 42/50PW35**, 42/50PW45**) 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.
- 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, there may be interference on the screen. We recommend using under 5m of cable. This provides the best picture quality.

ENGLISH

Connecting to an audio system

Use an external audio system instead of the built-in speaker.

NOTE

- If you use an external audio device instead of the built-in speaker, set the TV speaker feature to off (See p.74).

Digital optical audio connection

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

NOTE

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

Headphone connection

- This feature is not available for all models.

(Except for Plasma TV, 32/42LV34**, 26/32LV30**, 32/37/42/47LK455C)

Transmits the headphone signal from the TV to an external device. Connect the external device and the TV with the headphone as shown on the following illustration.

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.
- Headphone impedance: 16 Ω
- Max audio output of headphone: 10 mW to 15 mW
- Headphone jack size: 0.35 cm

Speaker output Setup

- This feature is not available for all models.

(Only 32/37/42/47LK455C)

Connect the external speaker to the SPEAKER OUT(STEREO) jack on the TV.

ENGLISH

Connecting to a USB

Connect a USB storage device such as s USB flash memory, external hard drive, a USB memory card reader to the TV and access the My media menu to use various multimedia files. See "Connecting USB storage devices" on p.55 and see "Browsing files" on p.56 .

SIMPLINK connection

Use the TV remote control to play and control the AV device connected with the HDMI cable through HDMI-CEC. Your TV only works with the devices that support HDMI-CEC.

Connect one end of the HDMI cable to the HDMI/DVI IN or HDMI IN terminal on the rear of the TV and the other end to the SIMPLINK device.

NOTE

- If the connected device does not support HDMI-CEC, the SIMPLINK feature is unavailable.
- To operate SIMPLINK, an High Speed HDMI Cable with *CEC function should be used. (*CEC: Consumer Electronics Control).

ENGLISH

Activating the SIMPLINK feature

1 Press SIMPINK to access the SIMPLINK menus.

2 Press the Navigation buttons to scroll to On.

3 Press the Navigation buttons to scroll to one of the devices and press **OK**.

- Image shown may differ from your TV.

No.	Description
❶	Displays the previously viewed TV channel.
❷	Plays discs. When multiple discs are available, the title of the disc appears at the bottom of the screen.
❸	Controls the connected VCR.
❹	HDD recordings playback: Controls the recording stored in HDD.
❺	Audio out to Home theatre speaker or Audio out to TV: Changes the audio output between Home theatre speaker and TV speaker.

- A check mark appears in front of the selected device.
- Available devices display in a bright colour.
- Unavailable devices display in grey.

4 Control the selected AV device.
- **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.
- **Disc playback**: Control connected AV devices by pressing the Navigation buttons, **OK**, ▶, ■, I I, ◀◀ and ▶▶ buttons.
- **Power off all devices**: When you power 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 automatically turn on.

NOTE

- If you change the input source by pressing INPUT, the progressing function of the SIMPLINK device will stop.
- If you select a device that has the Home theatre feature, the sound output automatically switches to the Home theatre speaker and the TV speaker turns off.
- If a connected SIMPLINK Home theatre system does not play the audio from the TV, connect the DIGITAL AUDIO OUT terminal on the rear of the TV to the DIGITAL AUDIO IN terminal on the back of the SIMPLINK device with an optical cable.

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 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 previous or next 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.

4 Alternatively, the **P ^** button can be used. The RED button permits you to return to 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.

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 the Navigation 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 ^ v** button can be used to select the preceding or following page.

Special Teletext Function

Press the **T. OPT** button and then use Navigation buttons 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.

ENGLISH

MAINTENANCE

Update and clean your TV regularly to keep the best performance and to extend the product lifespan.

Cleaning your TV

CAUTION

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

Screen and frame

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

CAUTION

- Do not push, rub, or hit the surface with your fingernail or a sharp object, as this may result in scratches on the screen and image distortions.
- Do not use any chemicals, such as waxes, benzene, alcohol, thinners, insecticides, air fresheners, lubricants, as these may damage the screen's finish and cause discolouration.

Cabinet and stand

To remove dust or light dirt, wipe the cabinet with a dry, clean, and soft cloth.
To remove major dirt, wipe the cabinet with a soft cloth dampened in a clean water or water containing a small amount of mild detergent. Then wipe immediately with a dry cloth.

CAUTION

- Do not spray liquid onto the surface. If water enters the TV, it may result in fire, electric shock, or malfunction.
- Do not use any chemicals as this may deteriorate the surface.

Power cord

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

Preventing "Image burn" or "Burn-in" on your TV screen

- If a fixed image displays on the TV screen for a long period of time, it will be imprinted and become a permanent disfigurement on the screen. This is "image burn" or "burn-in" and not covered by the warranty.
- If the aspect ratio of the TV is set to 4:3 for a long period of time, image burn may occur on the letterboxed area of the screen.
- Avoid displaying a fixed image on the TV screen for a long period of time (2 or more hours for LCD, 1 or more hours for the Plasma TV) to prevent image burn.

TROUBLESHOOTING

General

Problem	Resolution
Cannot control the TV with the remote control.	• Check the remote control sensor on the product and try again. • Check if there is any obstacle between the product and the remote control. • Check if the batteries are still working and properly installed (⊕ to ⊕, ⊖ to ⊖). • Check if the appropriate input mode such as TV or VCR is set for using the remote control.
No image display and no sound is produced.	• Check if the product is turned on. • Check if the power cord is connected to a wall outlet. • Check if there is a problem in the wall outlet by connecting other products.
Image appears slowly when the TV turns on.	• The image is muted during the product start up process. This is normal. If the image does not appear in a few minutes, unplug the TV for 30 seconds and try again. If the image still does not appear, contact the authorized service centre in your local area.
Cannot connect external devices.	• See "Connection overview" on p.81 and connect an external device.
The TV turns off suddenly.	• Check the power control settings. The power supply may be interrupted. • Check if the Auto sleep feature is activated in the Time settings. See "Sleep Timer" on p.76. • If there is no signal while the TV is on, the TV will turn off automatically after 15 minutes of inactivity.(Except for 22/26/32LK335C-TB, 32/37/42/47/55LV355C-TA, 32/37/42/47LK455C-TA)

ENGLISH

Audio

Problem	Resolution
No sound is produced while images are displaying.	• Press ◿ + or - button. • Check if the sound is muted by pressing **MUTE**. • Scroll to other channels. There may a problem with the broadcast. • Check if the audio cables are connected properly.
One of the speakers produce noises or does not produce sound.	• A change in ambient humidity or temperature may result in an unusual noise when the product turns on or off. • There is no problem with your product.

Video

Problem	Resolution
An image displays in black and white or the colour quality is poor.	• Adjust the colour setting in the Picture menu (See p.67). • Keep a sufficient distance between this product and other electronic products. • Scroll to other channels. There may a problem with the broadcast.
Horizontal or vertical bars appears or images blur	• Check if there are local interferences such as an electrical appliance or power tool.
Lines or streaks appear on images	• Check the antenna or aim the antenna to the proper direction.
Afterimages (ghosts) appear when the product turns off	• Pixels may have been damaged from a fixed image displayed for a long time (image burn). Use a screen saver to prevent the pixel damage on the screen.
The power is on but the screen appears extremely dark.	• Adjust the brightness and contrast in the Picture menu (See p.67).
“No Signal” appears on the screen.	• Check if the signal cable is connected between the TV and products properly. • Check the selected input source by pressing **INPUT**.
Black spots appear on the screen.	• Several pixels in red, green, white, or black may appear on the screen that can attribute to the characteristics of the LCD panel. This is normal.
The display offset is wrong.	• Adjust the position setting in the Picture menu (See p.67). • Check if the video card resolution and frequency are supported by the product. If the frequency is out of range, set to the recommended resolution using the display settings on the external device.
Thin lines appear in the background of the screen.	• Check the video cable connections.
Horizontal noises appear or characters blur.	• Adjust the Phase setting in the Picture menu. See "SCREEN" on p.69
The reception on some channels is poor	• Scroll to other channels. There may a problem with the broadcast. • The station signal may be weak. Aim the antenna to the proper direction. • Check if there is local interference such as an electrical appliance or power tool.

SPECIFICATIONS

MODELS		42PT25**	50PT25**
		42PT250-TA	50PT250-TA
Dimensions (W x H x D)	With stand	987.6 mm x 662.8 mm x 230.5 mm	1171.9 mm x 770.9 mm x 289.8 mm
	Without stand	987.6 mm x 608.9 mm x 52.5 mm	1171.9 mm x 712.2 mm x 52.5 mm
Weight	With stand	21.4 kg	29.5 kg
	Without stand	19.9 kg	27.2 kg

MODELS		50PV25**	60PV25**
		50PV250-TA 50PV250-TB	60PV250-TA 60PV250-TB
Dimensions (W x H x D)	With stand	1171.9 mm x 770.9 mm x 289.8 mm	1390.8 mm x 905.2 mm x 334.7 mm
	Without stand	1171.9 mm x 712.2 mm x 52.5 mm	1390.8 mm x 835.5 mm x 52.5 mm
Weight	With stand	29.8kg	42.6 kg
	Without stand	27.5kg	38.5 kg

MODELS		42PW35**	42PT35**	50PW35**	50PT35**
		42PW350-TA	42PT351-TE	50PW350-TA	50PT351-TE
Dimensions (W x H x D)	With stand	991.8 mm x 667 mm x 230.5 mm		1176.1 mm x 774.7 mm x 289.8 mm	
	Without stand	991.8 mm x 613.8 mm x 52.5 mm		1176.1 mm x 716.5 mm x 52.5 mm	
Weight	With stand	21.5 kg		29.6 kg	
	Without stand	20.0 kg		27.3 kg	

MODELS		42PW45**	50PW45**
		42PW450-TA / 42PW450-TD	50PW450-TA / 50PW450-TD
Dimensions (W x H x D)	With stand	984 mm x 662.7 mm x 230.5 mm	1168.7 mm x 768.3 mm x 289.7 mm
	Without stand	984 mm x 608.9 mm x 52.5 mm	1168.7 mm x 712.2 mm x 52.5 mm
Weight	With stand	21.5 kg	29.5 kg
	Without stand	20.0 kg	27.2 kg

MODELS		50PZ55**	60PZ55**
		50PZ550-TA 50PZ550-TC	60PZ550-TA 60PZ550-TC
Dimensions (W x H x D)	With stand	1172.3 mm x 770.9 mm x 289.8 mm	1391.1 mm x 905.2 mm x 334.7 mm
	Without stand	1172.3 mm x 712.2 mm x 52.5 mm	1391.1 mm x 835.5 mm x 52.5 mm
Weight	With stand	29.8 kg	42.6 kg
	Without stand	27.5 kg	38.5 kg

Product specifications shown above may be changed without prior notice due to upgrade of product functions.
For the power supply and power consumption, refer to the label attached to the product.

MODELS		22LK33**	26LK33**
		22LK330-TA / 22LK330-TH 22LK330-TB 22LK332-TC / 22LK332-TJ 22LK335C-TB 22LK330Y-TB	26LK330-TA / 26LK330-TH 26LK330-TB 26LK332-TC / 26LK332-TJ 26LK335C-TB 26LK330Y-TB / 26LK330Y-TH
Dimensions (W x H x D)	With stand	526.0 mm x 377.0 mm x 165 mm	663.0 mm x 484.0 mm x 207 mm
	Without stand	526.0 mm x 331.0 mm x 65 mm	663.0 mm x 423.0 mm x 79.9 mm
Weight	With stand	4.3 kg	7.6 kg
	Without stand	4.0 kg	6.5 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	
MODELS		32LK33**	32LK43**
		32LK330-TA / 32LK330-TH 32LK330-TB 32LK332-TC / 32LK332-TJ 32LK335C-TB 32LK330Y-TB / 32LK330Y-TH	32LK430-TA / 32LK430-TH 32LK430-TB 32LK430Y-TB / 32LK430Y-TH
Dimensions (W x H x D)	With stand	800.0 mm x 565.0 mm x 207 mm	799.0 mm x 555.0 mm x 207.0 mm
	Without stand	800.0 mm x 509.0 mm x 73.8 mm	799.0 mm x 516 mm x 73.5 mm
Weight	With stand	9.6 kg	9.6 kg
	Without stand	8.6 kg	8.6 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	
MODELS		42LK43**	42LK53**
		42LK430-TA / 42LK430-TH 42LK430-TB 42LK430Y-TB / 42LK430Y-TH	42LK530-TA 42LK530-TC 42LK530Y-TC
Dimensions (W x H x D)	With stand	1023.0 mm x 685.0 mm x 261.0 mm	1024.0 mm x 685.0 mm x 261.0 mm
	Without stand	1023.0 mm x 644 mm x 76.6 mm	1024.0 mm x 621.0 mm x 76.8 mm
Weight	With stand	15.4 kg	15.5 kg
	Without stand	13.7 kg	13.9 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	
MODELS		47LK53**	55LK53**
		47LK530-TA 47LK530-TC 47LK530Y-TC	55LK530-TA 55LK530-TC 55LK530Y-TC
Dimensions (W x H x D)	With stand	1137.0 mm x 758.0 mm x 270.0 mm	1329.0 mm x 872.0 mm x 330.0 mm
	Without stand	1137.0 mm x 685.0 mm x 76.8 mm	1329.0 mm x 796.0 mm x 96.5 mm
Weight	With stand	20.3 kg	33.0 kg
	Without stand	18.3 kg	29.8 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	

Product specifications shown above may be changed without prior notice due to upgrade of product functions.
For the power supply and power consumption, refer to the label attached to the product.

MODELS		32LK45**	37LK45**
		32LK450-TA / 32LK450-TG 32LK452-TC / 32LK452-TJ 32LK455C-TA 32LK450Y-TA	37LK450-TA / 37LK450-TG 37LK452-TC / 37LK452-TJ 37LK455C-TA 37LK450Y-TA / 37LK450Y-TG
Dimensions (W x H x D)	With stand	795.0 mm x 568.0 mm x 207.0 mm	913.0 mm x 639.0 mm x 265.0 mm
	Without stand	795.0 mm x 504.0 mm x 73.5 mm	913.0 mm x 571.0 mm x 77.4 mm
Weight	With stand	9.6 kg	12.8 kg
	Without stand	8.5 kg	11.1 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	
MODELS		42LK45**	47LK45**
		42LK450-TA / 42LK450-TG 42LK452-TC / 42LK452-TJ 42LK455C-TA 42LK450Y-TA / 42LK450Y-TG	47LK455C-TA
Dimensions (W x H x D)	With stand	1019.0 mm x 698.0 mm x 265.0 mm	1132.0 mm x 762.0 mm x 265.0 mm
	Without stand	1019.0 mm x 631.0 mm x 76.5 mm	1132.0 mm x 695.0 mm x 76.5 mm
Weight	With stand	15.7 kg	19.0 kg
	Without stand	14.5 kg	17.3 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~ 50 / 60 Hz
MODELS		19LV25**	22LV25**
		19LV2500-TA 19LV2530-TD	22LV2500-TA 22LV2510-TB / 22LV2510-TH 22LV2530-TD / 22LV2530-TK 22LV251Y-TB
Dimensions (W x H x D)	With stand	455.2 mm X 355 mm X 144.9 mm	471.2 mm X 365.9 mm X 144.9 mm
	Without stand	455.2 mm X 313.1 mm X 40.9 mm	471.2 mm X 315.5 mm X 40.9 mm
Weight	With stand	2.7 kg	3.4 kg
	Without stand	2.5 kg	3.2 kg
Power requirement		DC 24 V, 1.4 A AC-DC adaptor : 24 V ⎓, 2.5 A / AC 100-240 V~ 50 / 60 Hz	DC 24 V, 1.7 A AC-DC adaptor : 24 V ⎓, 2.5 A / AC 100-240 V~ 50 / 60 Hz
MODELS		26LV25**	32LV25**
		26LV2500-TA 26LV2510-TB / 26LV2510-TH 26LV2530-TD / 26LV2530-TK 26LV251Y-TB / 26LV251Y-TH	32LV2500-TA 32LV2510-TB / 32LV2510-TH / 32LV2510-TJ 32LV2530-TD / 32LV2530-TK 32LV251Y-TB / 32LV251Y-TH
Dimensions (W x H x D)	With stand	635.6 mm X 475 mm X 169 mm	777.0 mm X 552.0 mm X 216.0 mm
	Without stand	635.6 mm X 413.5 mm X 40.9 mm	777.0 mm X 501.0 mm X 35.4 mm
Weight	With stand	5.4 kg	11.5 kg
	Without stand	5.0 kg	10.7 kg
Power requirement		DC 24 V, 1.8 A AC-DC adaptor : 24 V ⎓, 2.5 A / AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~ 50 / 60 Hz

Product specifications shown above may be changed without prior notice due to upgrade of product functions.
For the power supply and power consumption, refer to the label attached to the product.

ENGLISH

MODELS		26LV30**	32LV30**
		26LV3000-TA	32LV3000-TA
Dimensions (W x H x D)	With stand	754 mm X 444 mm X 190 mm	885 mm x 526 mm x 205 mm
	Without stand	754 mm X 393 mm X 34.0 mm	885 mm x 468 mm x 38.7 mm
Weight	With stand	5.9 kg	10.9 kg
	Without stand	5.2 kg	9.6 kg
Power requirement		DC 24 V, 2.1 A AC-DC adaptor : 24 V ⎓, 3.42 A / AC 100-240 V~ 50 / 60 Hz	AC 100-240 V~ 50 / 60 Hz
MODELS		32LV33**	42LV33**
		32LV3300-TA 32LV3300-TG	42LV3300-TA 42LV3300-TG
Dimensions (W x H x D)	With stand	768.0 mm x 555.0 mm x 240.0 mm	1000.0 mm x 694.0 mm x 257.0 mm
	Without stand	768.0 mm x 492.0 mm x 45.0 mm	1000.0 mm x 623.0 mm x 43.0 mm
Weight	With stand	11.0 kg	14.8 kg
	Without stand	9.3 kg	12.4 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	

ENGLISH

Product specifications shown above may be changed without prior notice due to upgrade of product functions.
For the power supply and power consumption, refer to the label attached to the product.

MODELS		32LV35**	37LV35**
		32LV3500-TA / 32LV3500-TG 32LV3500-TB 32LV3510-TB 32LV3530-TD / 32LV3530-TK 32LV355C-TA 32LV350Y-TA / 32LV350Y-TG	37LV3500-TA / 37LV3500-TG 37LV3500-TB 37LV3510-TB 37LV3530-TD / 37LV3530-TK 37LV355C-TA 37LV350Y-TA / 37LV350Y-TG
Dimensions (W x H x D)	With stand	764.0 mm x 545.0 mm x 240.0 mm	888.0 mm x 614.0 mm x 240.0 mm
	Without stand	764.0 mm x 484.0 mm x 35.4 mm	888.0 mm x 553.0 mm x 35.4 mm
Weight	With stand	11.4 kg	13.5 kg
	Without stand	9.6 kg	11.7 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	
MODELS		42LV35**	47LV35**
		42LV3500-TA / 42LV3500-TG 42LV3500-TB 42LV3510-TB 42LV3530-TD / 42LV3530-TK 42LV355C-TA 42LV350Y-TA / 42LV350Y-TG	47LV3500-TA / 47LV3500-TG 47LV3500-TB 47LV3510-TB 47LV3530-TD / 47LV3530-TK 47LV355C-TA 47LV350Y-TA / 47LV350Y-TG
Dimensions (W x H x D)	With stand	998.0 mm x 684.0 mm x 256.0 mm	1108.0 mm x 746.0 mm x 256.0 mm
	Without stand	998.0 mm x 615.0 mm x 30.4 mm	1108.0 mm x 677.0 mm x 30.4 mm
Weight	With stand	15.5 kg	20.9 kg
	Without stand	13.3 kg	18.7 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	
MODELS		55LV35**	
		55LV355C-TA	
Dimensions (W x H x D)	With stand	1286.0 mm x 847.0 mm x 338.0 mm	
	Without stand	1286.0 mm x 778.0 mm x 30.4 mm	
Weight	With stand	25.5 kg	
	Without stand	21.4 kg	
Power requirement		AC 100-240 V~ 50 / 60 Hz	
MODELS		22LV55**	26LV55**
		22LV5500-TB 22LV550Y-TB 22LV5500-TH	26LV5500-TB 26LV550Y-TB 26LV5500-TH
Dimensions (W x H x D)	With stand	530 mm X 388 mm X 145 mm	640.0 mm X 474 mm X 178 mm
	Without stand	530 mm X 340 mm X 31.3 mm	640.0 mm X 405.0 mm X 31.0 mm
Weight	With stand	3.4 kg	5.05 kg
	Without stand	3.2 kg	4.4 kg
Power requirement		DC 24 V, 1.7 A AC-DC adaptor : 24 V ⎓, 2.5 A / AC 100-240 V~ 50 / 60 Hz	DC 24 V, 2.1 A AC-DC adaptor : 24 V ⎓, 2.5 A / AC 100-240 V~ 50 / 60 Hz

Product specifications shown above may be changed without prior notice due to upgrade of product functions.
For the power supply and power consumption, refer to the label attached to the product.

ENGLISH

MODELS		32LV34**	42LV34**
		32LV3400-TA / 32LV3400-TG 32LV340Y-TA	42LV3400-TA / 42LV3400-TG 42LV340Y-TA
Dimensions (W x H x D)	With stand	768.0 mm x 555.0 mm x 240.0 mm	1000.0 mm x 694.0 mm x 257.0 mm
	Without stand	768.0 mm x 492.0 mm x 45.0 mm	1000.0 mm x 623.0 mm x 43.0 mm
Weight	With stand	11.0 kg	14.8 kg
	Without stand	9.3 kg	12.4 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	
MODELS		32LW45**	42LW45**
		32LW4500-TA 32LW450Y-TA	42LW4500-TA 42LW450Y-TA
Dimensions (W x H x D)	With stand	772.0 mm x 549.0 mm x 240.0 mm	1005.0 mm x 688.0 mm x 256.0 mm
	Without stand	772.0 mm x 490.0 mm x 34.9 mm	1005.0 mm x 621.0 mm x 29.9 mm
Weight	With stand	10.0 kg	16.0 kg
	Without stand	8.2 kg	13.0 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	
MODELS		47LW45**	55LW45**
		47LW4500-TA 47LW450Y-TA	55LW4500-TA 55LW450Y-TA
Dimensions (W x H x D)	With stand	1115.0 mm x 750.0 mm x 256.0 mm	1293.0 mm x 851.0 mm x 338.0 mm
	Without stand	1115.0 mm x 683.0 mm x 29.9 mm	1293.0 mm x 785.0 mm x 29.9 mm
Weight	With stand	20.7 kg	26.2 kg
	Without stand	18.5 kg	22.0 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	
MODELS		42LW54**	47LW54**
		42LW5400-TA	47LW5400-TA
Dimensions (W x H x D)	With stand	977.0 mm x 648.0 mm x 268.0 mm	1089.0 mm x 711.0 mm x 268.0 mm
	Without stand	977.0 mm x 584.0 mm x 36.6 mm	1089.0 mm x 647.0 mm x 36.6 mm
Weight	With stand	15.8 kg	21.0 kg
	Without stand	12.3 kg	17.5 kg
Power requirement		AC 100-240 V~ 50 / 60 Hz	
MODELS		47LK95**	
		47LK950-TA	
Dimensions (W x H x D)	With stand	1137.0 mm x 758.0 mm x 270.0 mm	
	Without stand	1137.0 mm x 685.0 mm x 76.8 mm	
Weight	With stand	20.3 kg	
	Without stand	18.3 kg	
Power requirement		AC 100-240 V~ 50 / 60 Hz	

Product specifications shown above may be changed without prior notice due to upgrade of product functions.
For the power supply and power consumption, refer to the label attached to the product.

Environment condition	Operating Temperature	0 °C to 40 °C
	Operating Humidity	Less than 80 %
	Storage Temperature	-20 °C to 60 °C
	Storage Humidity	Less than 85 %

		Digital TV	Analogue TV
New Zealand, Singapore	Television System	DVB-T	PAL/SECAM-B/G/D/K, PAL-I
	Programme Coverage	UHF 21 to 69	BG : VHF/UHF 1 to 69, CATV 01 to 47 I : VHF/UHF 1 to 69, CATV 01 to 47 DK : VHF/UHF 1 to 69, CATV 01 to 47
Australia	Television System	DVB-T	PAL B/B
	Programme Coverage	VHF 06 to 12, UHF 27 to 69	B/B : VHF/UHF 0 to 75, CATV : 2 to 44
Indonesia, Israel	Television System	DVB-T	PAL/SECAM-B/G/D/K, PAL-I, NTSC-M
	Programme Coverage	UHF 21 to 69	BG : VHF/UHF 1 to 69, CATV 01 to 47 I : VHF/UHF 1 to 69, CATV 01 to 47 DK : VHF/UHF 1 to 69, CATV 01 to 47 M : VHF/UHF 2 to 78, CATV 01 to 71
South Africa	Television System	DVB-T	PAL/SECAM-B/G/D/K, PAL-I, NTSC-M
	Programme Coverage	VHF 4 to 11, 13 UHF 21 to 68	BG : VHF/UHF 1 to 69, CATV 01 to 47 I : VHF/UHF 1 to 69, CATV 01 to 47 DK : VHF/UHF 1 to 69, CATV 01 to 47 M : VHF/UHF 2 to 78, CATV 01 to 71
Veitnam, Malaysia	Television System	DVB-T	PAL/SECAM-B/G/D/K, PAL-I, NTSC-M
	Programme Coverage	VHF 6 to 12, UHF 21 to 69	BG : VHF/UHF 1 to 69, CATV 01 to 47 I : VHF/UHF 1 to 69, CATV 01 to 47 DK : VHF/UHF 1 to 69, CATV 01 to 47 M : VHF/UHF 2 to 78, CATV 01 to 71
Iran	Television System	DVB-T	PAL/SECAM-B/G/D/K, PAL-I, NTSC-M
	Programme Coverage	VHF 5 to 12, UHF 21 to 69	BG : VHF/UHF 1 to 69, CATV 01 to 47 I : VHF/UHF 1 to 69, CATV 01 to 47 DK : VHF/UHF 1 to 69, CATV 01 to 47 M : VHF/UHF 2 to 78, CATV 01 to 71
Analogue model	Television System	-	PAL/SECAM-B/G/D/K, PAL-I, NTSC-M
	Programme Coverage	-	BG : VHF/UHF 1 to 69, CATV 01 to 47 I : VHF/UHF 1 to 69, CATV 01 to 47 DK : VHF/UHF 1 to 69, CATV 01 to 47 M : VHF/UHF 2 to 78, CATV 01 to 71
	External Antenna Impedance	75 Ω	75 Ω

Product specifications shown above may be changed without prior notice due to upgrade of product functions.
For the power supply and power consumption, refer to the label attached to the product.

RGB-PC, HDMI-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 (HDMI-PC mode : Except for LCD TV/LED LCD TV)	47.78	59.87
1360x768	47.72	59.80
1280x1024	63.981	60.02
1920x1080 (RGB-PC)	66.587	59.93
1920x1080 (HDMI-PC)	67.5	60.00

(Except for 42/50PT25**, 42/50PW35**, 42/50PW45**, 22/26/32LK33**, 19/22/26/32LV25**, 26/32LV30**)

HDMI-DTV mode

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

Component port connecting information

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	Cb	Cr
	Y	Pb	Pr

Component	
Signal	Vertical Freq (Hz)
480i/480p	60Hz
576i/576p	50Hz
720p	50/60Hz
1080i/1080p	50/60Hz

RF SPECIFICATIONS

- RF module(BM-LDS201) specification(Only 42/50PW35**, 42/50PW45**, 50/60PZ55**, 32/42/47/55LW45**)

For TV By using a 2.4 GHz bandwidth radio frequency(RF).

» Output : 1 dBm or lower
» Maximum Communication Distance : 10 m (30 ft) in an open space
» Bandwidth : 2.4 GHz (2.4035 GHz - 2.4783 GHz)
» Transfer Rate : 250 kbps

FCC ID of RF module inside TV
FCC ID : BEJLDS201

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Video supported mode

File / Extension name	Video Decoder	Audio Codec	Max Resolution
mpg, mpeg	MPEG1, MPEG2	MP2,MP3,Dolby Digital,LPCM	1920x1080@30p (only Motion JPEG 640x480@30p)
dat	MPEG1	MP2	
ts,trp,tp	MPEG2, H.264, AVS, VC1	MP2,MP3,Dolby Digital, AAC,HE-AAC	
vob	MPEG1, 2	MP2,MP3,Dolby Digital,LPCM	
mp4, mov	MPEG4,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-beta1/2H.264	AAC,HE-AAC,MP3	
divx, avi	MPEG2, MPEG4,DivX 3.11, DivX 4.DivX 5, DivX 6, Xvid 1.00, Xvid 1.01, Xvid 1.02, Xvid 1.03, Xvid 1.10-beta1/2H.264	MP2,MP3,Dolby Digital,LPCM, ADPCM,AAC,HE-AAC	
Motion JPEG (avi, mp4)	JPEG	LPCM, ADPCM	
wmv	VC1	WMA	

3D Supported format

	Signal	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Playable 3D video format
HDMI Input	720p	1280x720	44.96/45	59.94/60	Top & Bottom, Side by Side
			89.9/90	59.94/60	HDMI 3D Frame Packing
			37.5	50	Top & Bottom, Side by Side
			75		HDMI 3D Frame Packing
	1080i HDMI (1.3)	1920X1080	33.72/33.75	59.94/60	Top & Bottom, Side by Side
			28.125	50	
	1080p HDMI (1.4a)	1920X1080	69.433/67.50	59.94/60	Top & Bottom, Side by Side, Checker Board, Single Frame Sequential
			56.250	50	
			27	24	Top & Bottom, Side by Side, Checker Board
			53.95/54	23.98/24	HDMI 3D Frame Packing
			33.75	30	Top & Bottom, Side by Side, Checker Board
USB Input	1080p	1920X1080	33.75	30	Top & Bottom, Side by Side, Checker Board, MPO(Photo)
	Resolution				Playable 3D video format
	Other Resolution				Top & Bottom, Side by Side
PC Input	1920 X 1080		66.587	59.93	Top & Bottom, Side by Side
Component Input (For Plasma TV)	720p	1280x720	44.96 45.00 37.50	59.94 60.00 50.00	Top & Bottom, Side by Side
	1080i	1920x1080	33.72 33.75 28.125	59.94 60.00 50.00	Top & Bottom, Side by Side
	Signal				Playable 3D video format
DTV	720p, 1080i				Top & Bottom, Side by Side

(Only 50/60PZ55**)

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IR CODES

- This feature is not available for all models.

Code (Hexa)	Function	Note
08	⏻ (POWER)	Remote control Button (Power On/Off)
95	ENERGY SAVING	Remote control Button
30	AV MODE	Remote control Button
0B	INPUT	Remote control Button
F0	TV/RAD	Remote control Button
10-19	Number Key 0-9	Remote control Button
53	LIST	Remote control Button
1A	Q.VIEW	Remote control Button
02	◿ +	Remote control Button
03	◿ -	Remote control Button
1E	FAV/MARK	Remote control Button
DC	3D	Remote control Button
09	MUTE	Remote control Button
00	P^	Remote control Button
01	Pv	Remote control Button
43	Home	Remote control Button
AB	GUIDE	Remote control Button
45	Q.MENU	Remote control Button
28	BACK	Remote control Button
AA	INFO	Remote control Button
5B	EXIT	Remote control Button
44	OK	Remote control Button
40	^	Remote control Button
41	v	Remote control Button
07	<	Remote control Button
06	>	Remote control Button
72	RED	Remote control Button
71	GREEN	Remote control Button
63	YELLOW	Remote control Button
61	BLUE(or 3D SETTING)	Remote control Button
20	TEXT	Remote control Button
21	T.OPT(T.Option)	Remote control Button
39	SUBTITLE	Remote control Button
B1	■	Remote control Button
B0	►	Remote control Button
BA	❚❚(FREEZE)	Remote control Button
8E	►►	Remote control Button
8F	◄◄	Remote control Button
7E	SIMPLINK	Remote control Button
79	RATIO	Remote control Button
91	AD	Remote control Button

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
TXD	3	2	RXD
GND	5	5	GND
DTR	4	6	DSR
DSR	6	4	DTR
RTS	7	8	CTS
CTS	8	7	RTS
	D-Sub 9	D-Sub 9	

3-Wire Configurations(Not standard)

	PC	TV	
RXD	2	3	TXD
TXD	3	2	RXD
GND	5	5	GND
DTR	4	6	DTR
DSR	6	4	DSR
RTS	7	7	RTS
CTS	8	8	CTS
	D-Sub 9	D-Sub 9	

Set ID

Set ID number. "**Real Data Mapping**" on See p.110

1 Press **Home** to access the main menus.

2 Press the Navigation buttons to scroll to **OPTION** and press **OK**.

3 Press the Navigation buttons to scroll to **SET ID** and press **OK**.

4 Scroll left or right to select a set ID number and select **CLOSE**. The adjustment range is 1-99.

5 When you are finished, press **EXIT**.

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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

(Depending on model)

	COMMAND1	COMMAND2	DATA (Hexadecimal)		COMMAND1	COMMAND2	DATA (Hexadecimal)
01. Power	k	a	00 to 01	14. Bass	k	s	00 to 64
02. Aspect Ratio	k	c	(See p.107)	15. Balance	k	t	00 to 64
03. Screen Mute	k	d	(See p.107)	16. Colour Temperature	x	u	00 to 64
04. Volume Mute	k	e	00 to 01	17. ISM Method	j	p	(See p.109)
05. Volume Control	k	f	00 to 64	18. Energy Saving	j	q	00 to 05
06. Contrast	k	g	00 to 64	19. Auto Configuration	j	u	01
07. Brightness	k	h	00 to 64	20. Tune Command	m	a	(See p.109)
08. Colour	k	i	00 to 64	21. Programme Add/Skip	m	b	00 to 01
09. Tint	k	j	00 to 64	22. Key	m	c	Key Code
10. Sharpness	k	k	00 to 64	23. Control Back Light	m	g	00 to 64
11. OSD Select	k	l	00 to 01	24. Input select (Main)	x	b	(See p.110)
12. Remote Control Lock Mode	k	m	00 to 01	25. 3D	x	t	(See p.110)
13. Treble	k	r	00 to 64	26. Extended 3D	x	v	(See p.110)

- * Note : During USB operations such as DivX or EMF, all commands except Power(ka) and Key(mc) are not executed and treated as NG.

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 to 99. When selecting Set ID '0', every connected set is controlled. Set ID is indicated as decimal (1 to 99) on menu and as Hexa decimal (0x0 to 0x63) on transmission/receiving protocol.
[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.

Data 00: Illegal Code

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)
02 : Wide screen (16:9)
04 : Zoom
06 : Original
07 : 14:9
09 : Just Scan
0B : Full Wide
10 to 1F : Cinema Zoom 1 to 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 50 Hz / 60 Hz, 720p 50Hz / 60 Hz, 1080p 24 Hz / 30 Hz / 50 Hz / 60 Hz), Component(720p, 1080i, 1080p 50 Hz / 60 Hz) mode, Just Scan is available.
* Full Wide is supported only for DTV.

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 to Max : 64
* Refer to 'Real data mapping'. See p.110.

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 to Max : 64
* Refer to 'Real data mapping'. See p.110.

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 to Max : 64
* Refer to 'Real data mapping'. See p.110.

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 to Max : 64
* Refer to 'Real data mapping'. See p.110.

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

09. Tint (Command: k j)

► To adjust the screen tint.
You can also adjust tint in the PICTURE menu.

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

Data Red : 00 to Green : 64
* Refer to 'Real data mapping'. See p.110.

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 to Max : 64
* Refer to 'Real data mapping'. See p.110.

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.
* In the standby mode, if key lock is on, TV will not turn on by power on key of IR & Local Key.

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 to Max : 64
* Refer to 'Real data mapping'. See p.110.

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 to Max : 64
* Refer to 'Real data mapping'. See p.110.

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 to Max : 64
* Refer to 'Real data mapping'. See p.110.

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

16. Colour Temperature (Command: x u)

► To adjust colour temperature. You can also adjust Colour Temperature in the PICTURE menu.

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

Data Min : 00 to Max : 64
* Refer to 'Real data mapping'. See p.110.

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

17. ISM Method (Command: j p) (Only Plasma TV)

► 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 PICTURE 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	1	Screen Off
0	0	0	0	Low Power	0	1	0	0	Intelligent Sensor (Plasma TV only)
0	0	0	0	Low Power	0	1	0	0	Auto (LCD TV/ LED LCD TV only)

(Depending on model)

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

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 to Max: 63 (0 to 99)
Digital - Min: 00 to Max: 3E7 (0 to 999)

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

Data Min: 00 to 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]

22. Key(Command: m c)

► To send IR remote key code.

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

Data Key code - See p.103.

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

23. Control Back Light(Command: m g) (Only LCD TV/LED LCD TV))

► To control the back light.

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

Data Min : 00 to Max : 64

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

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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

MSB LSB

0	0	0	0	0	0	0	0

External Input — Input Number

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
0	1	1	1	HDMI
1	0	0	0	
1	0	0	1	
1	0	1	0	

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]

*** Real data mapping**

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
⋮
CF : Step 199
⋮
FE : Step 254
FF : Step 255

25. 3D(Command: x t) (only 3D models) (Depending on model)

► To change 3D mode for TV.

Transmission [x][t][ ][Set ID][ ][Data01][ ][Data02][ ][Data03][ ][Data04][Cr]

Data Structure

Data01 00 : 3D On
01 : 3D Off
02 : 3D to 2D
03 : 2D to 3D

Data02 00 : Top and Bottom
01 : Side by Side
02 : Check Board
03 : Frame Sequential

Data03 00 : Right to Left
01 : Left to Right

Data04 3D Effect(3D Depth): Min : 00 ~ Max : 14 (*transmit by Hexadecimal code)

*If data1 is 00(3D On), data4 has no meaning.
*If data1 is 01(3D off) or 02(3D to 2D), data2, data3 and data4 have no meaning.
*If data1 is 03(2D to 3D), data2 and data3 have no meaning.

Data 1	Data 2	Data 3	Data 4
00	O	O	X
01	X	X	X
02	X	X	X
03	X	X	O

X : don't care

Ack [t][ ][OK][Data01][Data02][Data03][Data04][x][t][ ][NG][Data01][x]

26 . Extended 3D(Command: x v) (only 3D models) (Depending on model)

► To change 3D option for TV.

Transmission [x][v][ ][Set ID][ ][Data01][ ][Data02][Cr]

Data01 : 3D option
00 : 3D Picture Correction
01 : 3D Depth (2D to 3D only)
02 : 3D Viewpoint
03 : 3D Picture Size (Plasma TV only)
04 : 3D Picture Balance (Plasma TV only)
05 : 3D Optimization (Active type (LCD TV) only)

Data02 It has own range for each 3D option determined by Data01.

1) When Data01 is 00
00 : Right to Left
01 : Left to Right

2) When Data01 is 01, 02
Data Min: 0 ~ Max: 14(*transmit by Hexadecimal code)
Data value range(0~20) converts Viewpoint range(-10~10) automatically(Depending on model)

3) When Data01 is 03
00 : Just Scan
01 : 16:9

4) When Data01 is 04
00 : Off
01 : On

5) When Data01 is 05
Data Min: 0 ~ Max: 02(*transmit by Hexadecimal code)
* Refer to 'Real data mapping'.

Ack [v][ ][OK][Data01][Data02][x][v][ ][NG][Data01][x]

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