



OWNER'S MANUAL

LED LCD MONITOR TV

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

LED LCD MONITOR TV MODELS

M2380D
M2380DF

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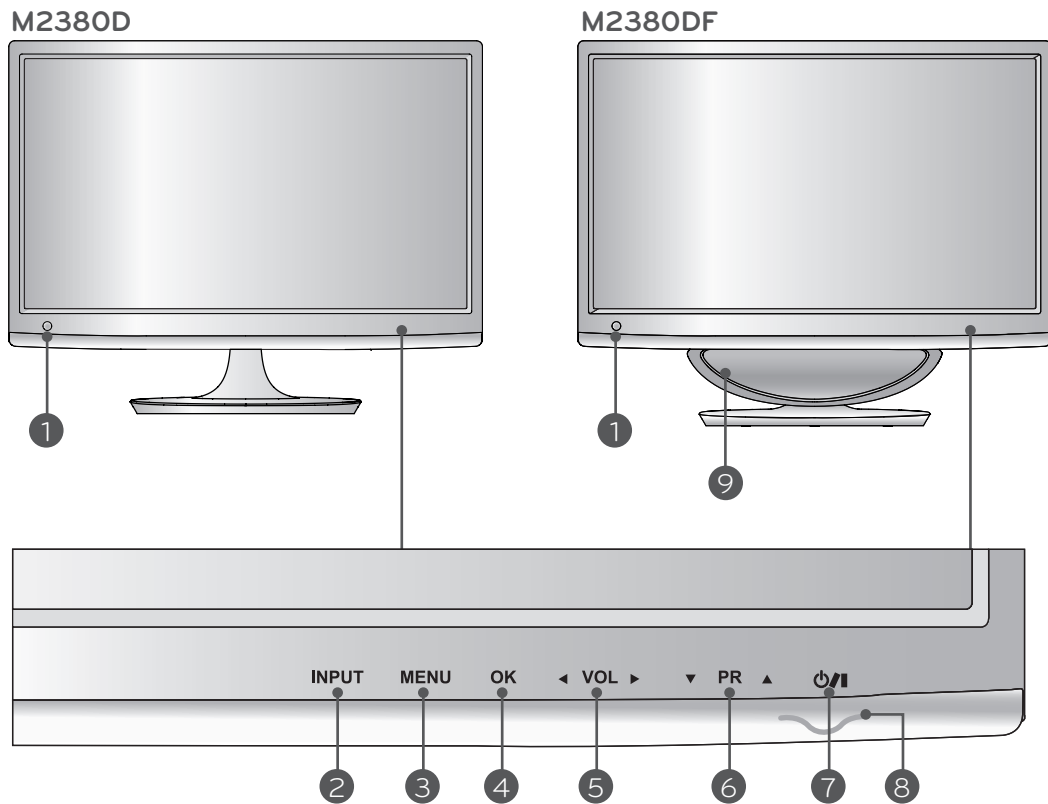
LICENSES

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PREPARATION

FRONT PANEL CONTROLS

- This is a simplified representation of the front panel. The image shown may be somewhat different from your Monitor set.



① IR receiver (Remote controller receiver)

② INPUT Button

③ MENU Button

④ OK Button

⑤ VOLUME Button

⑥ PROGRAMME Button

⑦ Power Button

⑧ Power Indicator

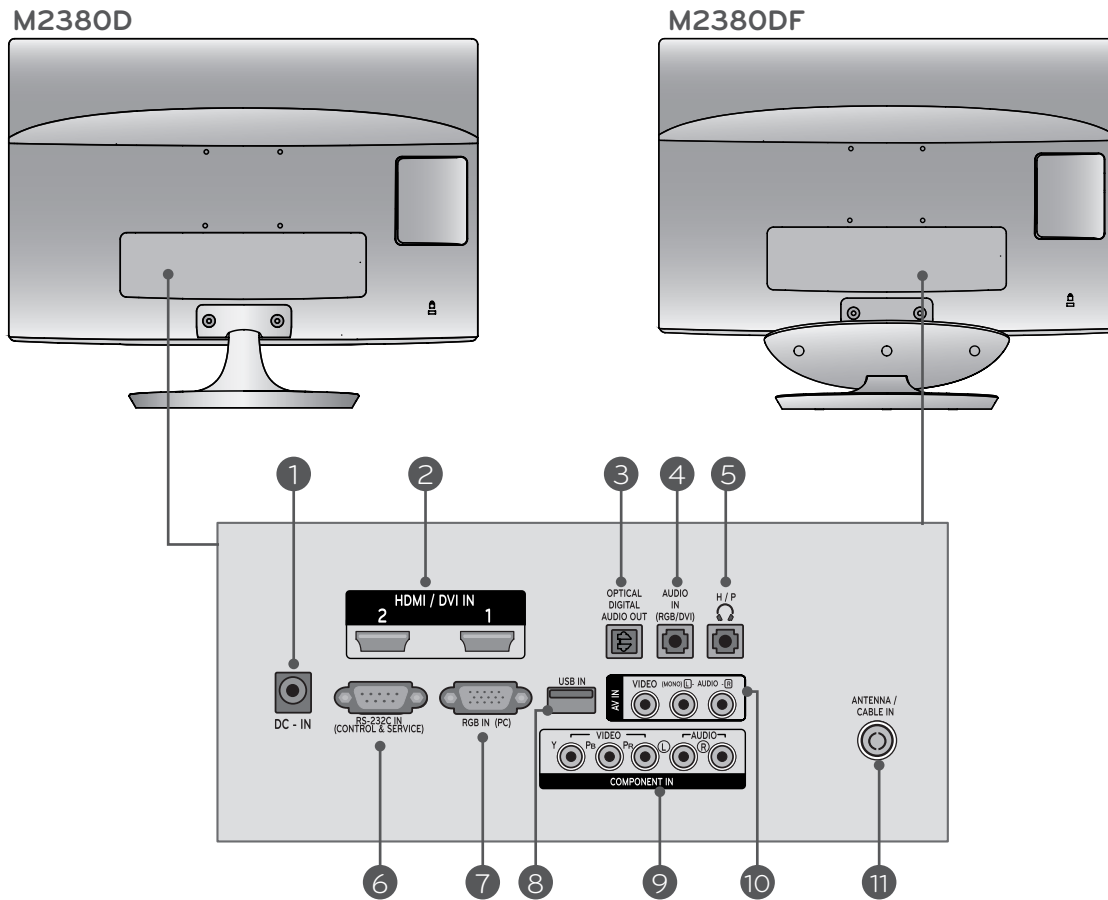
Illuminates blue when the set is switched on.

Note: You can adjust Power indicator in the OPTION menu.

⑨ WOOFER

BACK PANEL INFORMATION

- This is a simplified representation of the back panel. The image shown may be somewhat different from your Monitor set.



- 1 DC ADAPTER PORT**
Connect to the power cord socket.
- 2 HDMI INPUT**
Connect a HDMI signal to HDMI IN or DVI (VIDEO) signal to HDMI IN with DVI to HDMI cable.
- 3 OPTICAL DIGITAL AUDIO OUT**
Connect digital audio to various types of equipment. Connect to a Digital Audio Component.
Use an Optical audio cable.
- 4 RGB/DVI AUDIO INPUT**
Connect the audio from a PC.
- 5 HEADPHONE SOCKET**
Plug the headphone into the headphone socket.
- 6 RS-232C IN (CONTROL & SERVICE) PORT**
Connect to the RS-232C port on a PC.
This port is used for Service or Hotel mode.
- 7 RGB INPUT (PC)**
Connect the output from a PC.
- 8 USB Input**
- 9 COMPONENT INPUT**
Connect a component video/audio device to these jacks.
- 10 AV(AUDIO/VIDEO) INPUT**
Connect audio/video output from an external device to these jacks.
- 11 ANTENNA / CABLE INPUT**
Connect over-the-air signals to this jack.

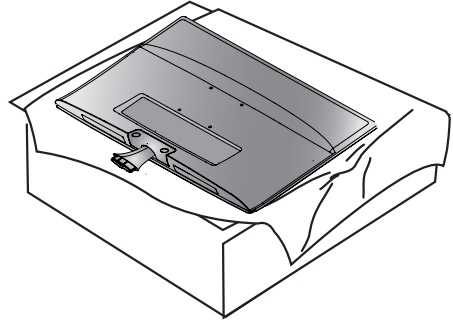
PREPARATION

M2380D

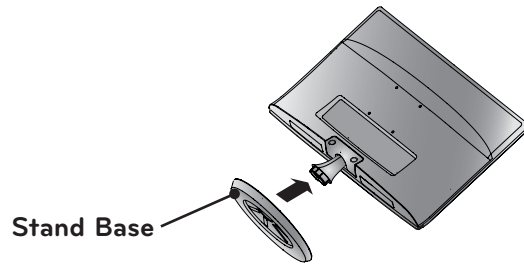
STAND INSTALLATION

■ The image shown may be somewhat different from your Monitor set.

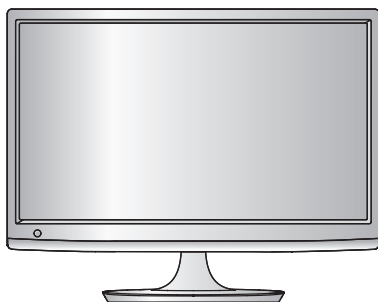
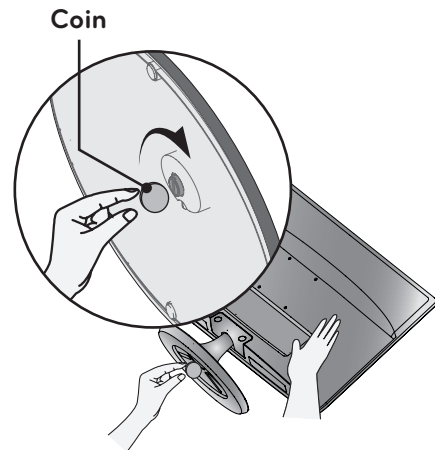
1 Carefully place the product screen side down on a cushioned surface that will protect Monitor set and screen from damage.



2 Insert the **Stand Base** into the Monitor set.



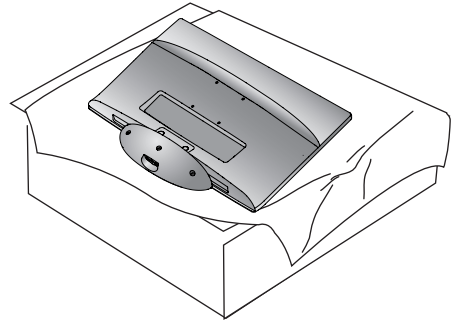
3 Use a **Coin** on the bottom of the stand base and turn the screw clockwise to tighten.



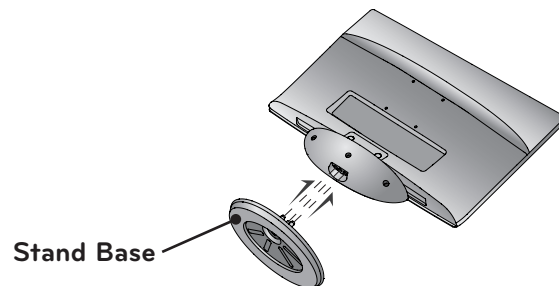
STAND INSTALLATION

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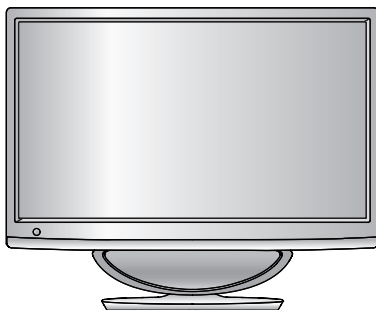
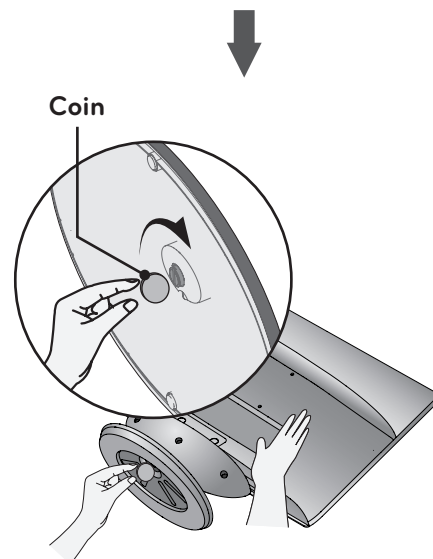
- 1 Carefully place the product screen side down on a cushioned surface that will protect Monitor set and screen from damage.



- 2 Insert the **Stand Base** into the Monitor set.



- 3 Use a **Coin** on the bottom of the stand base and turn the screw clockwise to tighten.



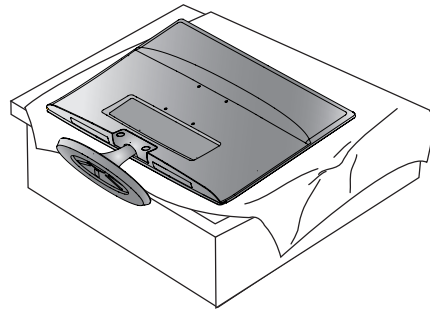
PREPARATION

M2380D

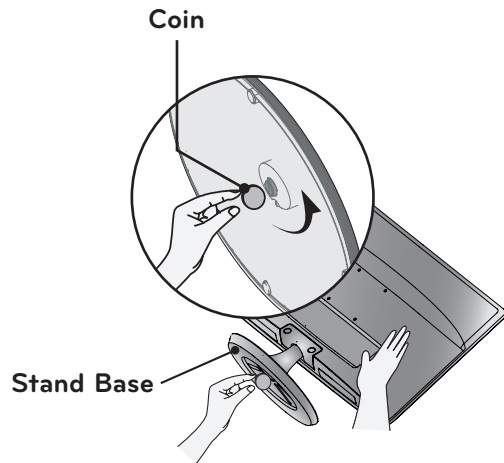
DETACHING STAND

■ The image shown may be somewhat different from your Monitor set.

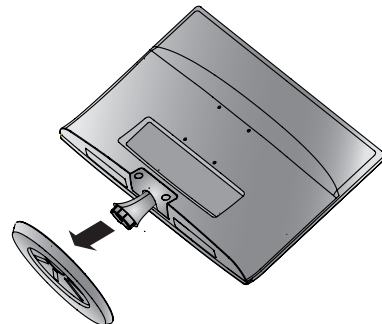
1 Place the set screen side down on a cushion or soft cloth.



2 Detach the Monitor set to the **Stand Base** by turning the screw to the left.
Turn the screw by using a **Coin**.



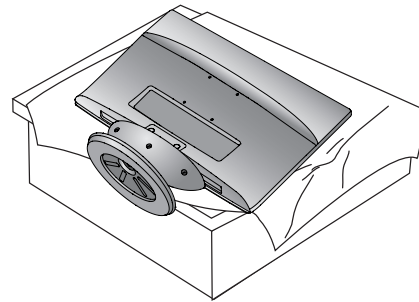
3 Pull the stand base.



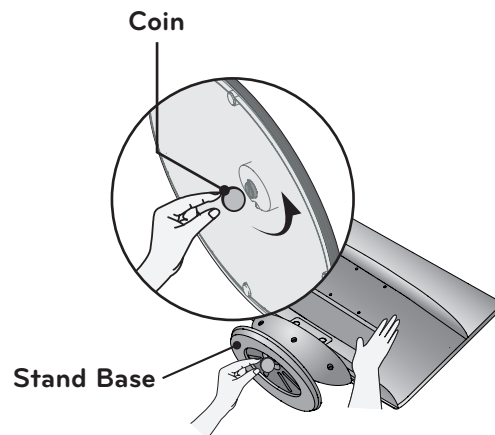
DETACHING THE STAND

■ The image shown may be somewhat different from your Monitor set.

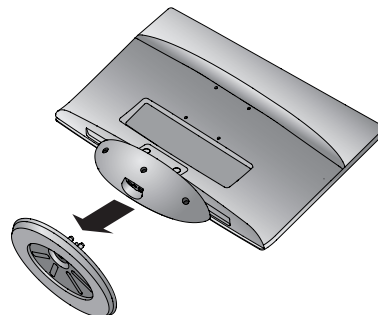
1 Place the set screen side down on a cushion or soft cloth.



2 Detach the Monitor set to the **Stand Base** by turning the screw to the left.
Turn the screw by using a **Coin**.



3 Pull the stand base.



PREPARATION

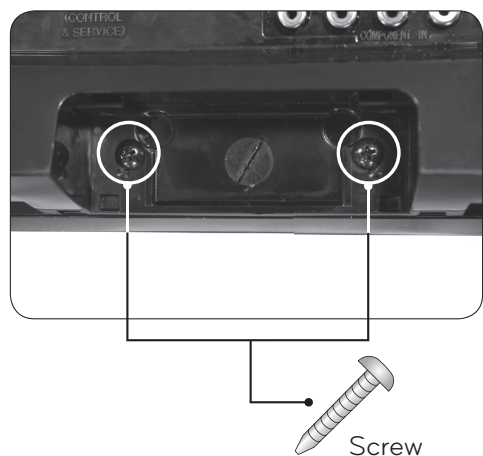
DETACHING STAND BODY(Only M2380D)

- The image shown may be somewhat different from your Monitor set.
- Remove the Stand Body in the same way as the following when using it as a Wall Hook.

1. Remove the screw 2 point.
2. Pull the stand body.



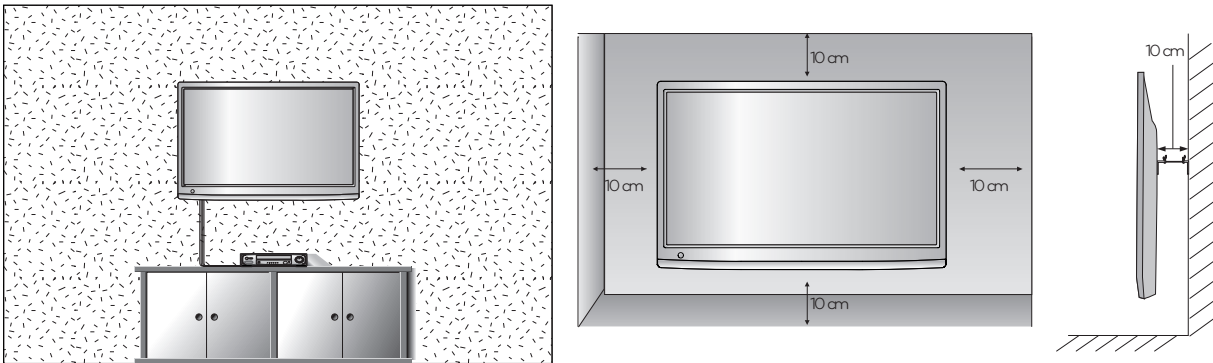
3. Assemble the screw 2 point



WALL MOUNT: HORIZONTAL INSTALLATION

■ The image shown may be somewhat different from your Monitor set.

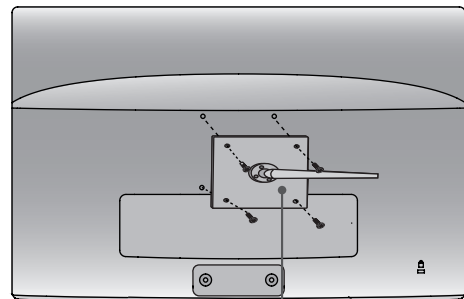
For proper ventilation, allow a clearance of 10 cm on each side and from the wall. Detailed installation instructions are available from your dealer, see the optional Tilt Wall Mounting Bracket Installation and Setup Guide.



If you intend to mount the set to a wall, attach Wall mounting interface (optional parts) to the back of the Montort set.

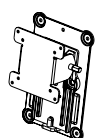
When you install the set using the wall mounting interface (optional parts), attach it carefully so it will not drop.

1. Be sure to use screws and a wall mount that meet VESA standards.
2. Using screws longer than those recommended might damage the product.
3. Using screws that do not meet VESA standards might either damage the product or result in it coming away from the wall. We will not be held responsible for any damage resulting from failure to follow these instructions.
4. VESA compatible only with respect to screw mounting interface dimensions and mounting screw specifications
5. Please use VESA standard as below.
 - 5-1) 784.8 mm (30.9 inch) and under
 - * Wall Mount bracket Thickness : 2.6 mm
 - * Screw: Φ 4.0 mm x Pitch 0.7 mm x Length 10 mm
 - 5-2) 787.4 mm (31.0 inch) and above
 - * Please use VESA standard wall mount pad and screws.



Wall Mount bracket

< Screw Mounting Interface Dimensions >

Model	M2380D M2380DF
VESA (A x B)	75 x 75
Wall mount bracket (optional)	RW120 

PREPARATION

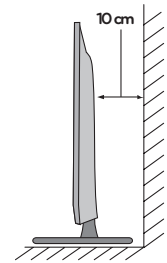
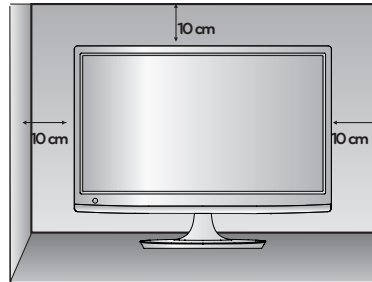
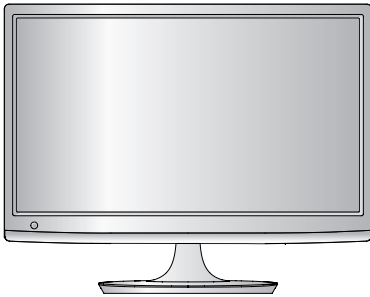
DESKTOP PEDESTAL INSTALLATION

■ The image shown may be somewhat different from your Monitor set.

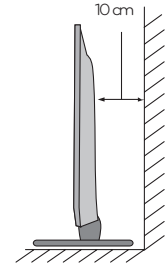
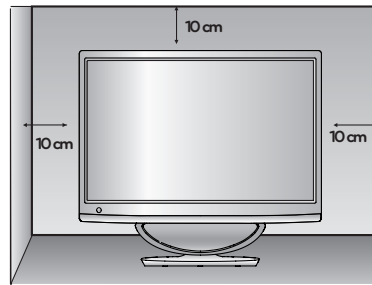
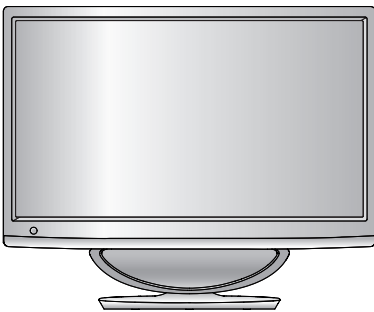
For proper ventilation, allow a clearance of 10 cm on each side and from the wall.

PREPARATION

M2380D



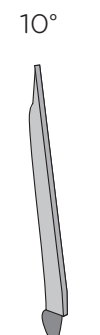
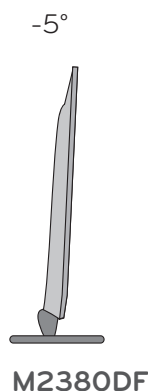
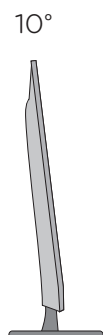
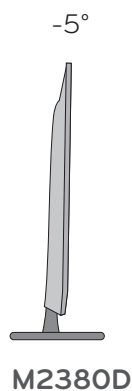
M2380DF



POSITIONING YOUR DISPLAY

■ The image shown may be somewhat different from your Monitor set.
Adjust the position of the panel in various ways for maximum comfort.

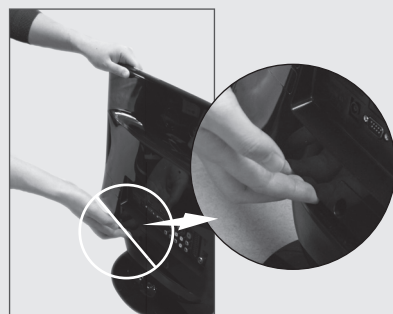
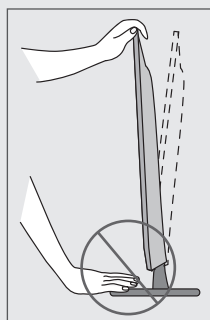
* Tilt range



LOCATION

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

! WARNING



M2380DF

- When adjusting the angle of the screen, do not put your finger(s) in between the head of the monitor and the stand body or woofer. You can hurt your finger(s).

PREPARATION

KENSINGTON SECURITY SYSTEM

- The product is equipped with a Kensington Security System connector on the back panel. Connect the Kensington Security System cable as shown below.
- For detailed installation and use of the Kensington Security System, refer to the user's guide provided with the Kensington Security System.
For further information, contact <http://www.kensington.com>, the internet homepage of the Kensington company. Kensington sells security systems for expensive electronic equipment such as notebook PCs and LCD projectors.

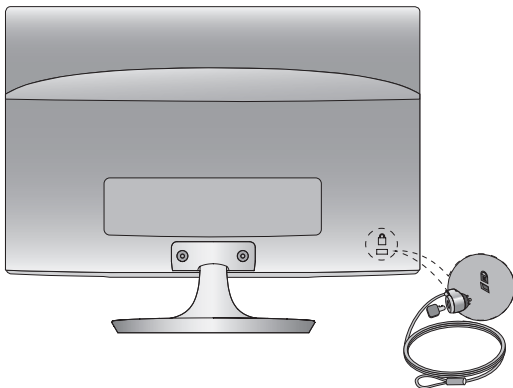
NOTE

- The Kensington Security System is an optional accessory.

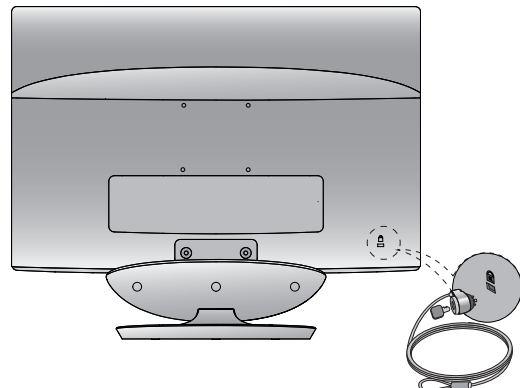
NOTES

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

M2380D



M2380DF

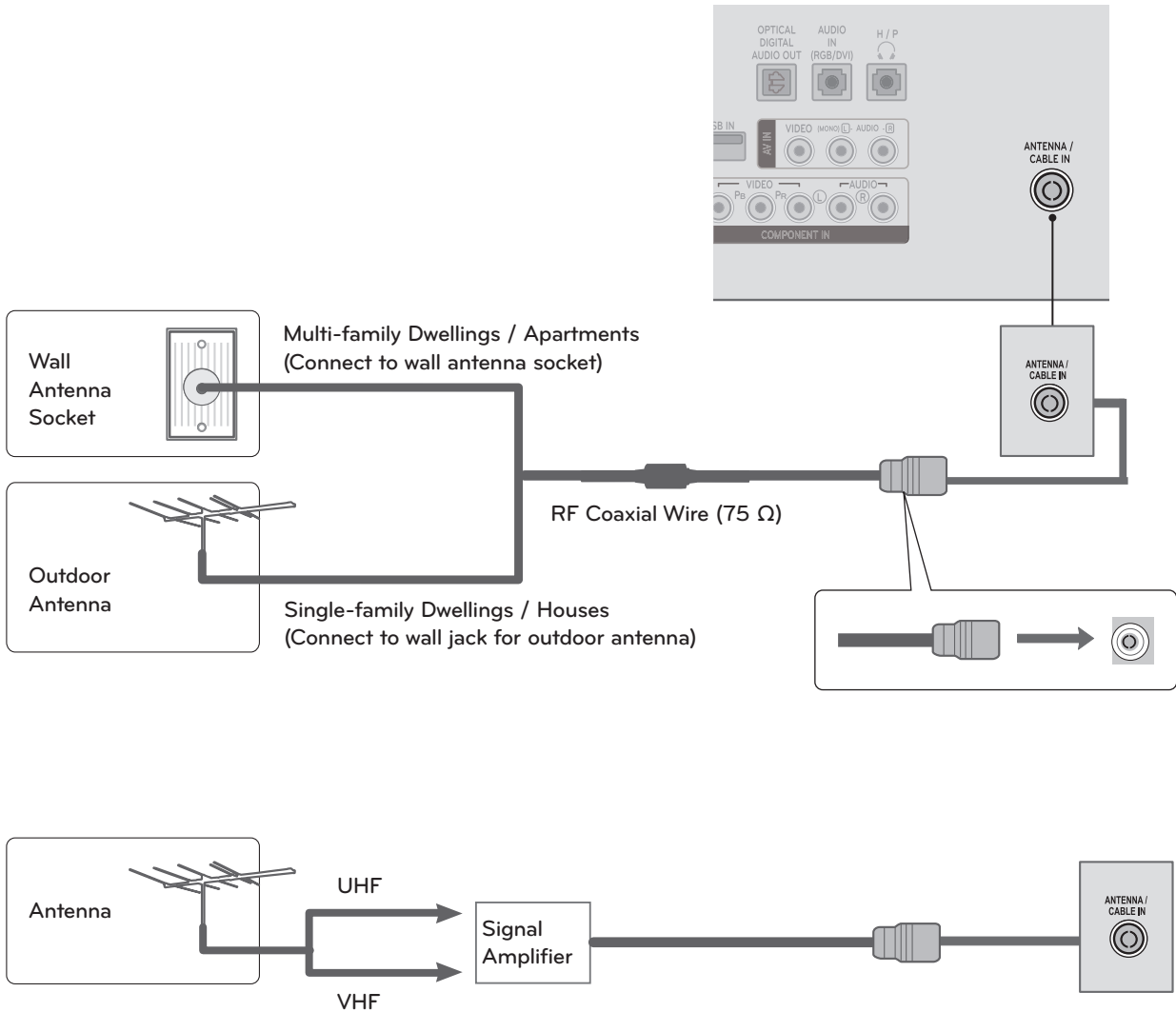


EXTERNAL EQUIPMENT SETUP

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

ANTENNA CONNECTION

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



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

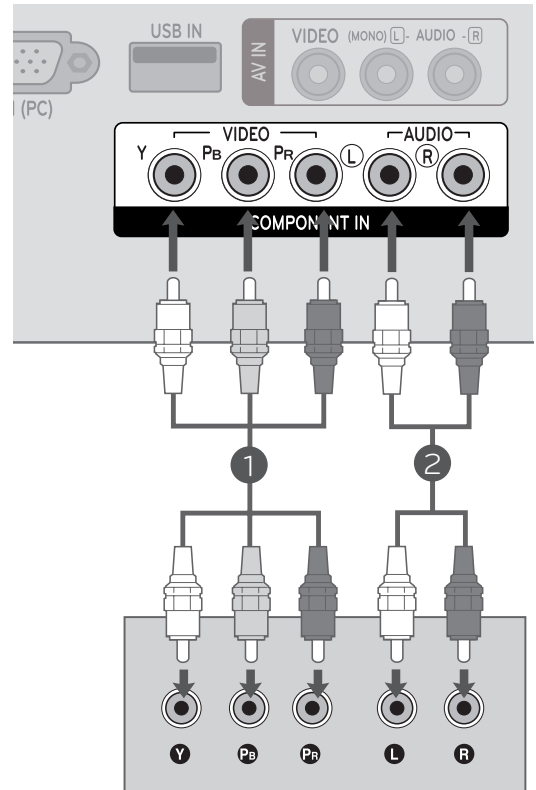
EXTERNAL EQUIPMENT SETUP

- To avoid damaging any equipment, never plug in any power cords until you have finished connecting all equipment.
- The image shown may be somewhat different from your Monitor set.

HD RECEIVER SETUP

Connecting with a component cable

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

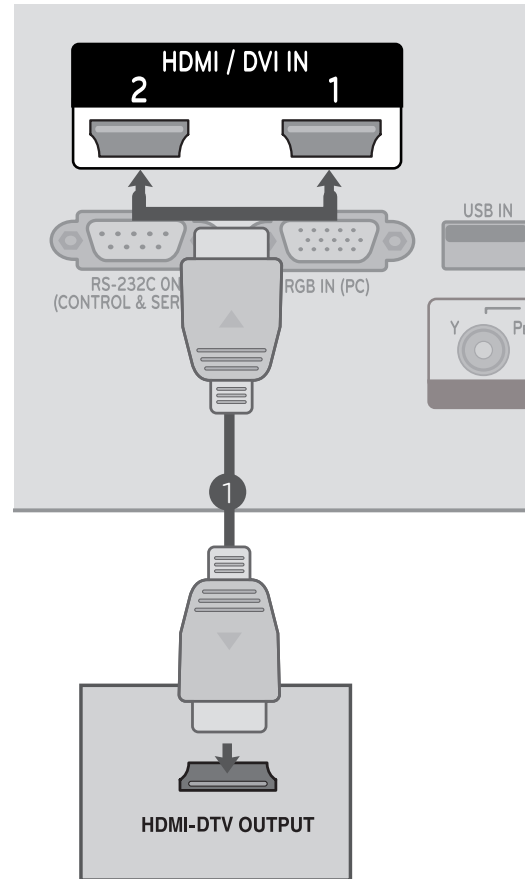


- ▶ **HDMI Audio Supported format : Dolby Digital, PCM**
- ▶ **DTS Audio format is not supported.**

Signal	Component	HDMI
480i / 576i	YES	No
480p / 576p	YES	YES
720p / 1080i	YES	YES
1080p	YES (50 Hz / 60Hz only)	YES (24 Hz / 30 Hz / 50Hz / 60Hz)

Connecting a set-top box with a HDMI cable

- 1 Connect the digital set-top box to **HDMI/DVI IN 1** or **HDMI/DVI IN 2** jack on the Monitor set.
- 2 Turn on the digital set-top box.
(Refer to the owner's manual for the digital set-top box.)
- 3 Select **HDMI 1** or **HDMI 2** input source using the **INPUT** button on the remote control.



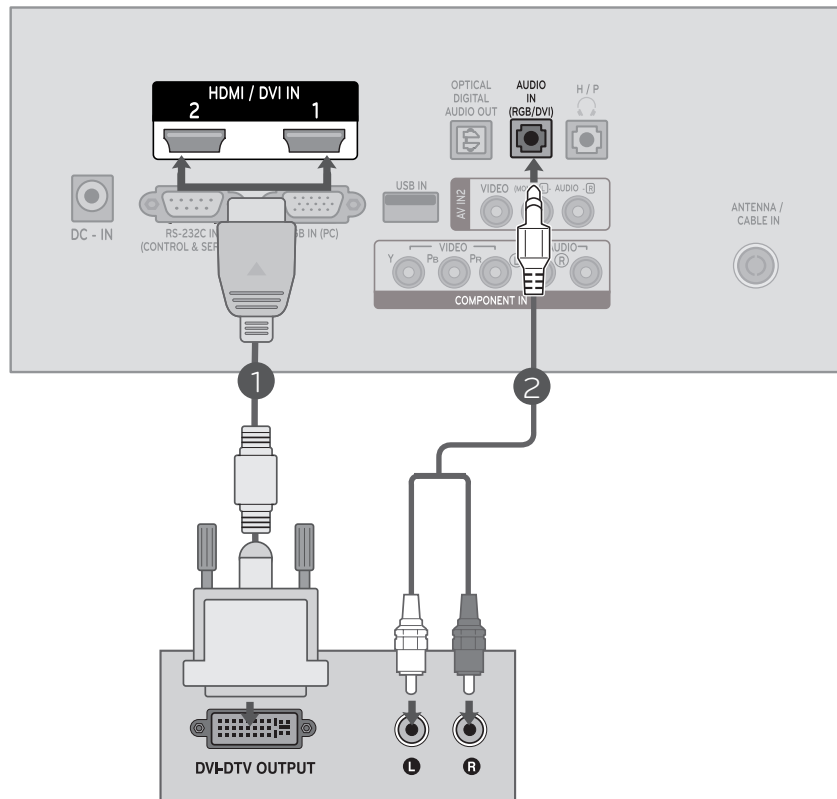
NOTE

- ▶ 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.

EXTERNAL EQUIPMENT SETUP

Connecting with an HDMI to DVI cable

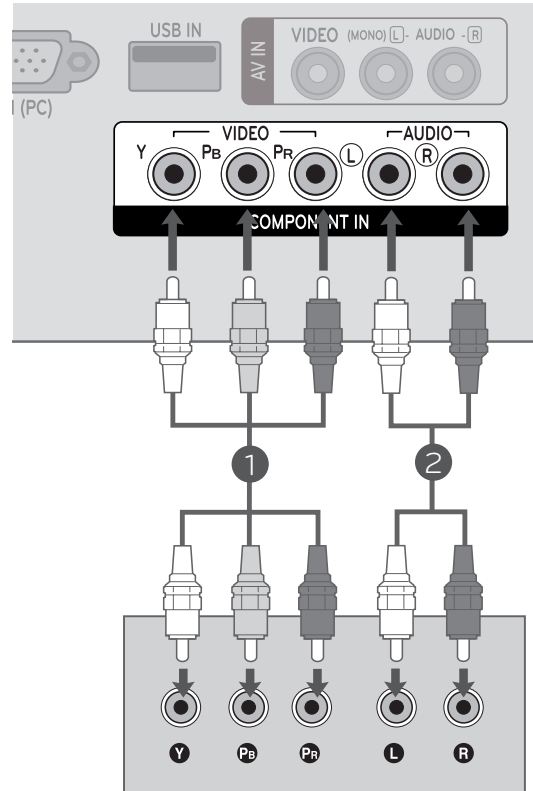
- 1 Connect the digital set-top box to **HDMI/DVI IN 1** or **HDMI/DVI IN 2** jack on the Monitor set.
- 2 Connect the audio output of the digital set-top box to the **AUDIO IN (RGB/DVI)** jack on the Monitor set.
- 3 Turn on the digital set-top box.
(Refer to the owner's manual for the digital set-top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



DVD SETUP

Connecting with a component cable

- 1 Connect the video outputs (Y, PB, PR) of the DVD to the **COMPONENT IN VIDEO** jacks on the Monitor set.
- 2 Connect the audio outputs of the DVD to the **COMPONENT IN AUDIO** jacks on the Monitor set.
- 3 Turn on the DVD player, insert a DVD.
- 4 Select **Component** input source using the **INPUT** button on the remote control.
- 5 Refer to the DVD player's manual for operating instructions.



Component Input ports

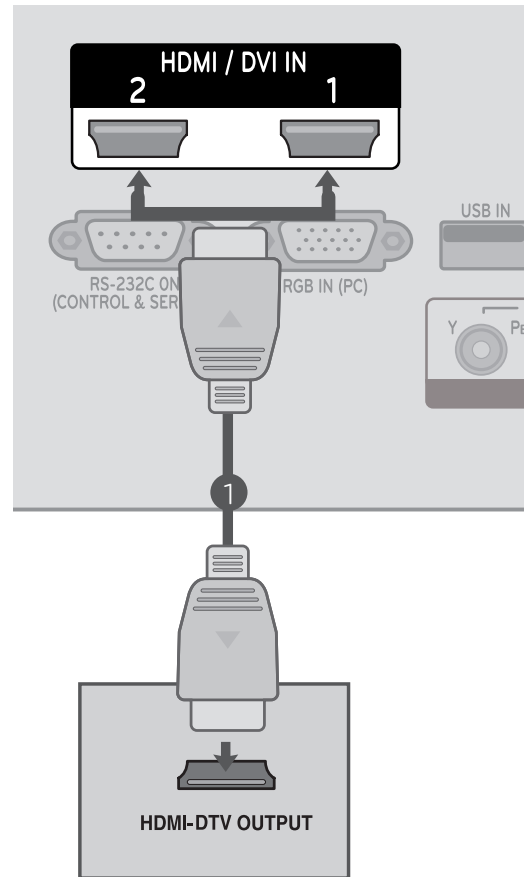
To achieve better picture quality, connect a DVD player to the component input ports as shown below.

Component ports on the Monitor set	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

EXTERNAL EQUIPMENT SETUP

When connecting HDMI cable

- 1 Connect the HDMI output of the DVD to the **HDMI/DVI IN 1** or **HDMI/DVI IN 2** jack on the Monitor set.
- 2 Select **HDMI 1** or **HDMI 2** input source using the **INPUT** button on the remote control.
- 3 Refer to the DVD player's manual for operating instructions.



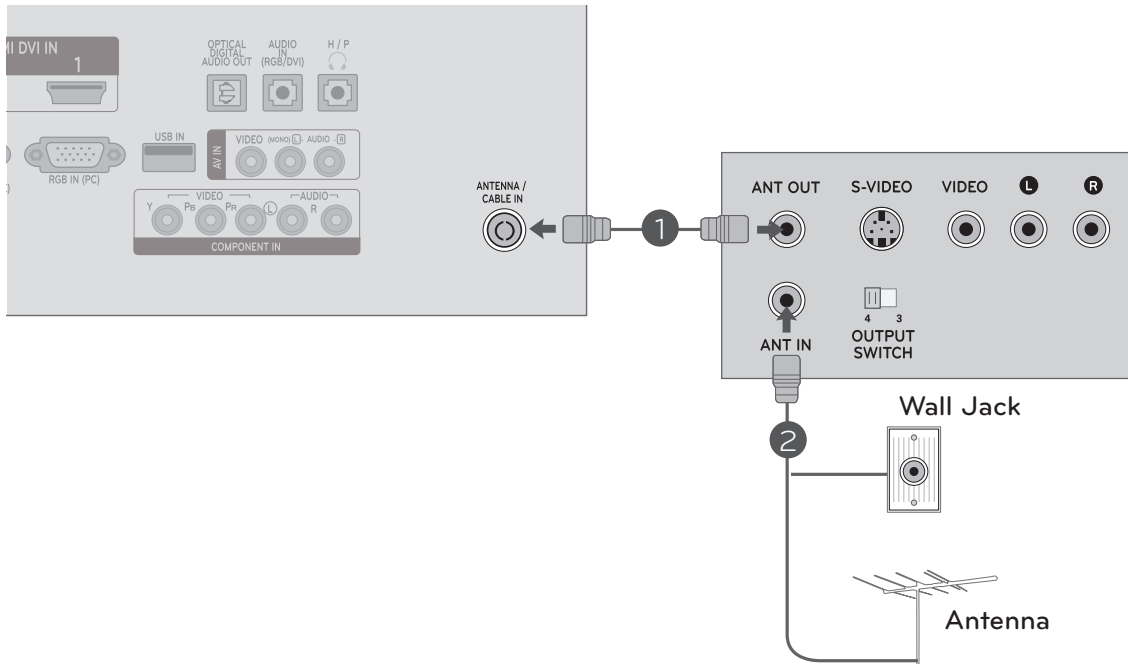
! NOTE

- ▶ Check that your HDMI cable is a high speed HDMI cable. If the HDMI cables are not high speed, flickering or no screen display can result.

VCR SETUP

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

Connecting with a RF cable

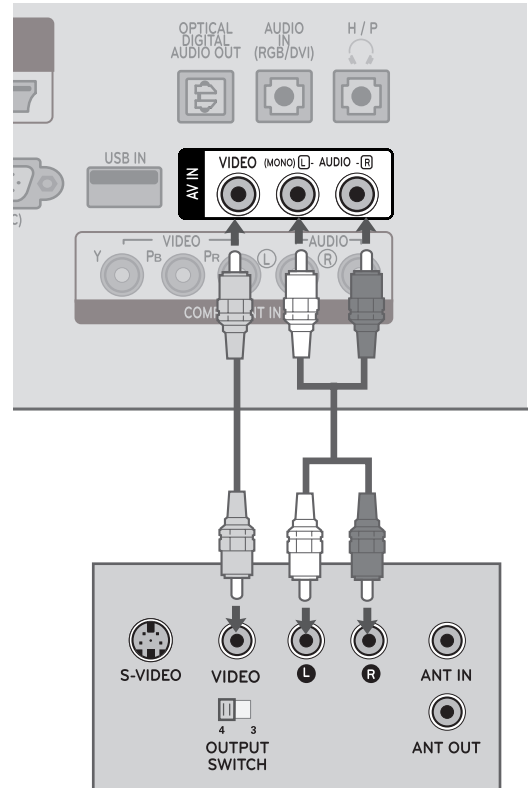


- 1 Connect the **ANT OUT** socket of the VCR to the **ANTENNA IN** socket on the Monitor set.
- 2 Connect the antenna cable to the **ANT IN** socket of the VCR.
- 3 Press the **PLAY** button on the VCR and match the appropriate channel between the set and VCR for viewing.

EXTERNAL EQUIPMENT SETUP

Connecting with a RCA cable

- 1 Connect the **AUDIO/VIDEO** jacks between Monitor set and VCR. Match the jack colours (Video = yellow, Audio Left = white, and Audio Right = red).
- 2 Insert a video tape into the **VCR** and press **PLAY** on the VCR. (Refer to the VCR Owner's manual.)
- 3 Select **AV** input source using the **INPUT** button on the remote control.



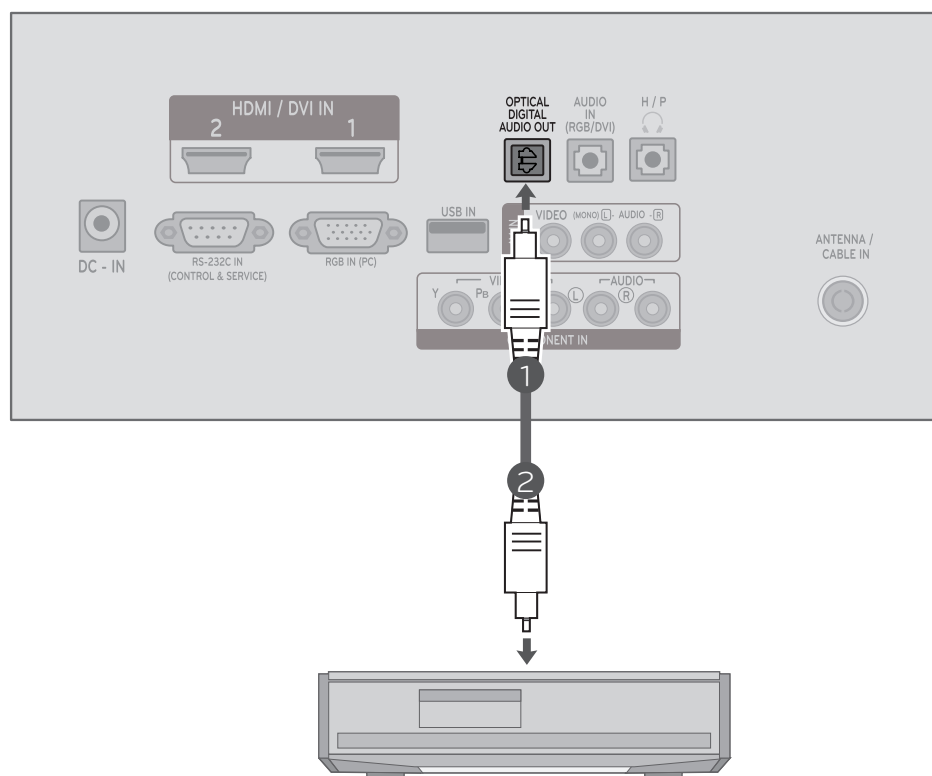
! NOTE

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

DIGITAL AUDIO OUT SETUP

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

- 1 Connect one end of an optical cable to the Monitor set **Digital Audio (Optical)** Output port.
- 2 Connect the other end of the optical cable to the digital audio (Optical) input on the audio equipment.
- 3 Set the **"TV Speaker option - Off "** in the AUDIO menu. (P. 78)
Refer to the external audio equipment instruction manual for operation.



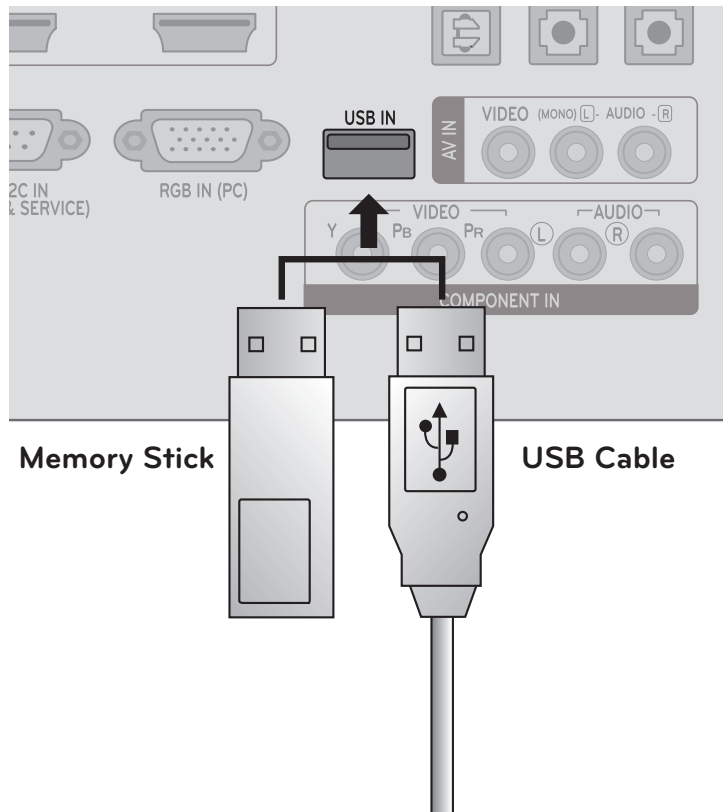
! CAUTION

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

EXTERNAL EQUIPMENT SETUP

USB SETUP

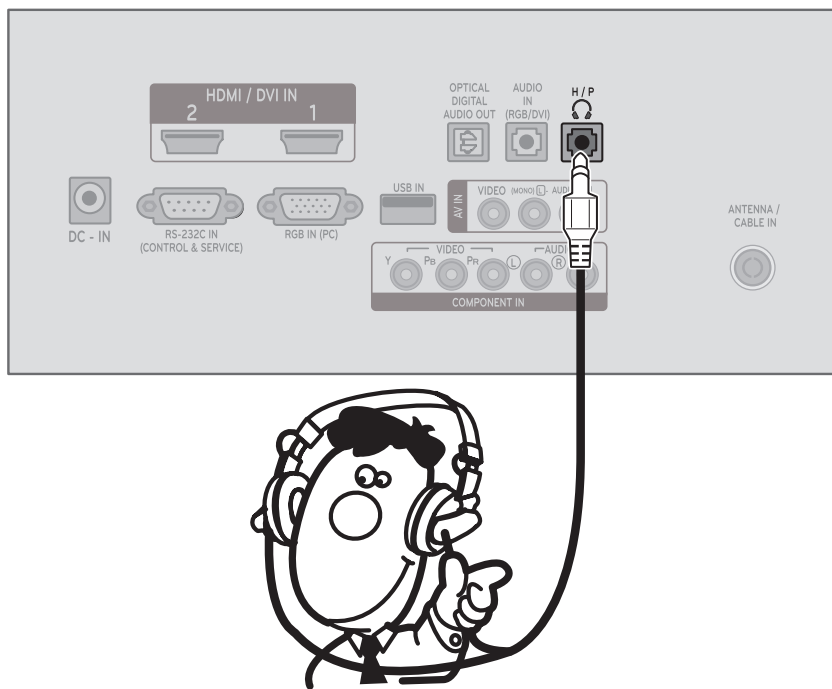
- 1 Connect the USB device to the **USB IN** jack on the side of Monitor set.
- 2 After connecting the **USB IN** jack, you use the **USB** function. (▶ p.98)



HEADPHONE SETUP

You can listen the sound through the headphone.

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



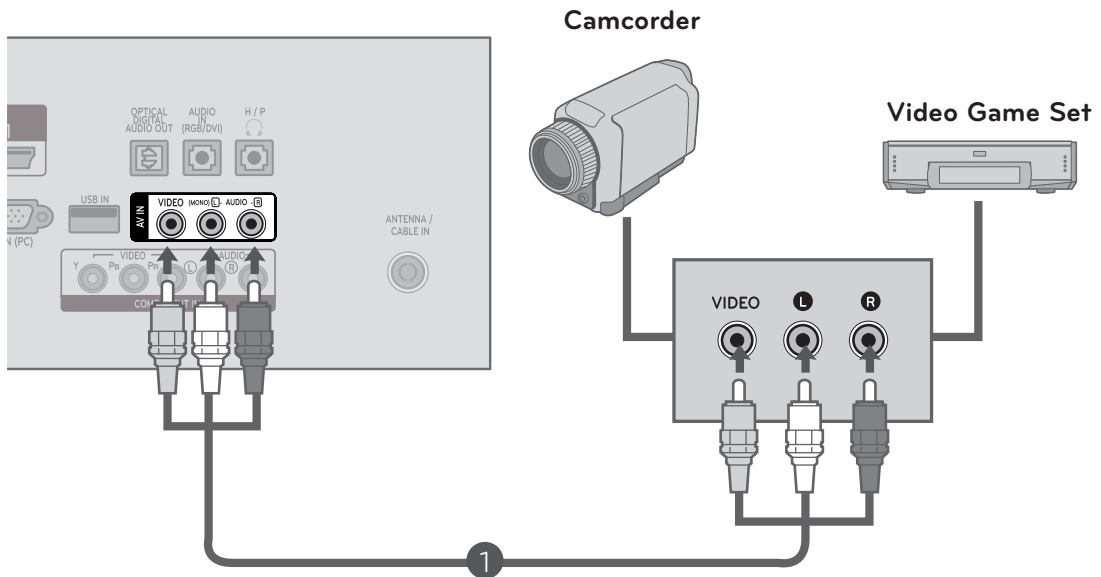
! NOTE

- ▶ AUDIO menu items are disabled when connecting a headphone.
- ▶ Optical Digital Audio Out is not available when connecting a headphone.

EXTERNAL EQUIPMENT SETUP

OTHER A/V SOURCE SETUP

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

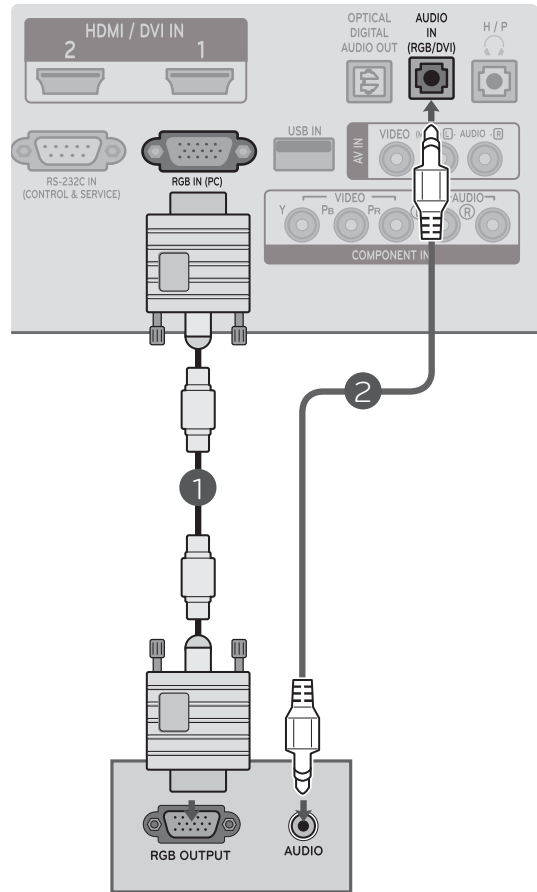


PC SETUP

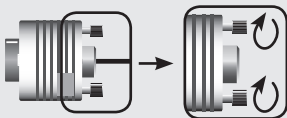
When using the remote control, aim it at the remote control sensor on the Monitor set.

When connecting with a D-sub 15 pin cable

- 1 Connect the signal cable from the monitor output socket of the PERSONAL COMPUTER to the **RGB IN(PC)** input socket of the Monitor set.
- 2 Connect the audio cable from the PC to the **AUDIO IN (RGB/DVI)** sockets of the Monitor set.
- 3 Press the **INPUT** button to select **RGB**.
- 4 Switch on the PC, and the PC screen appears on the Monitor set.
The set can be operated as a PC monitor.



NOTE

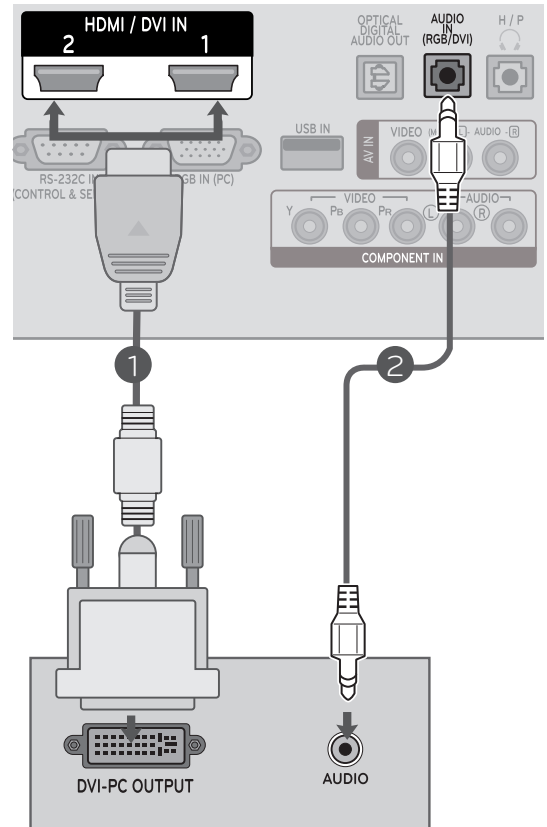


▶ Connect the signal input cable and tighten it by turning the screws clockwise.

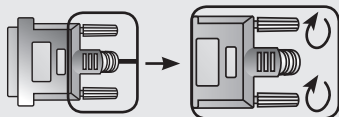
EXTERNAL EQUIPMENT SETUP

Connecting with an HDMI to DVI cable

- 1 Connect the DVI output of the PC to the **HDMI/DVI IN1** or **HDMI/DVI IN2** jack on the Monitor set.
- 2 Connect the PC audio output to the **AUDIO IN (RGB/DVI)** jack on the Monitor set.
- 3 Turn on the PC and the Monitor set.
- 4 Select **HDMI 1** or **HDMI 2** input source using the **INPUT** button on the remote control.



! NOTE

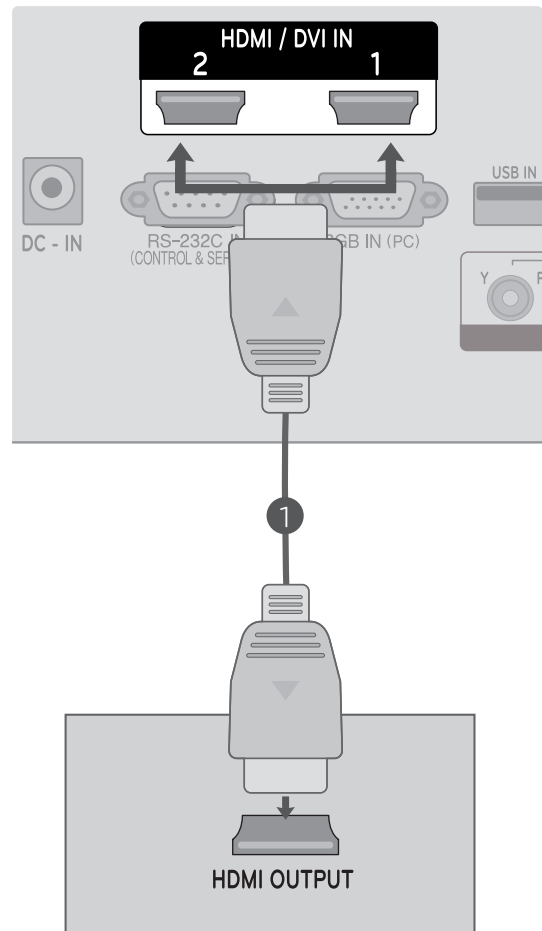


► Connect the signal input cable and tighten it by turning the screws clockwise.

► If you want to use HDMI-PC mode, you must set the input label to the pc mode.

Connecting with an HDMI to HDMI cable

- 1 Connect the HDMI output of the PC to the **HDMI/DVI IN1** or **HDMI/DVI IN2** jack on the Monitor set.
- 2 Turn on the PC and the Monitor set.
- 3 Select **HDMI 1** or **HDMI 2** input source using the **INPUT** button on the remote control.



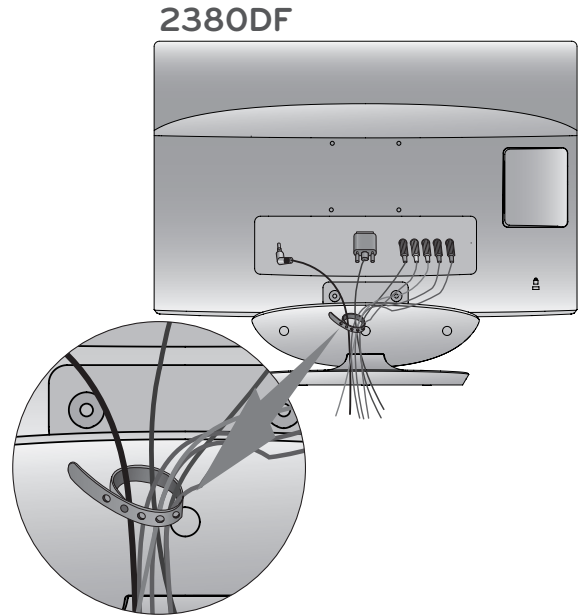
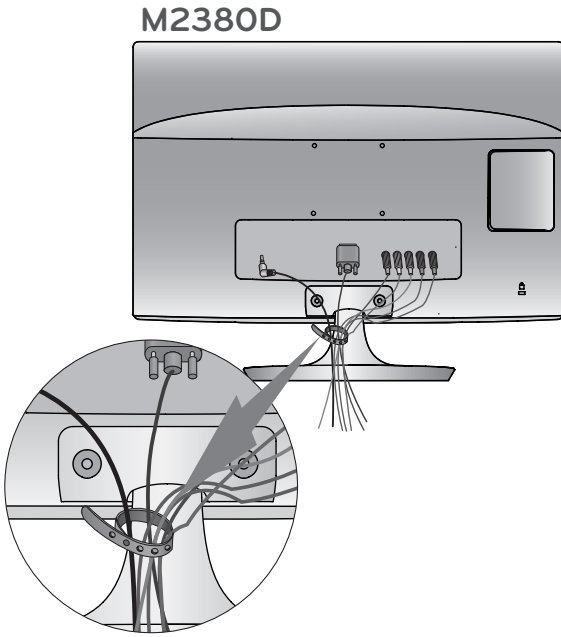
! NOTE

- ▶ Check that your HDMI cable is a high speed HDMI cable. If the HDMI cables are not high speed, flickering or no screen display can result.
- ▶ If you want to use HDMI-PC mode, you must set the input label to the PC mode.

EXTERNAL EQUIPMENT SETUP

BACK COVER FOR WIRE ARRANGEMENT

Tie cables together with a cable management as shown in the illustration.



SUPPORTED DISPLAY RESOLUTION

RGB[PC] mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
720 x 400	31.468	70.08
640 x 480	31.469	59.94
640 x 480	37.5	75
800 x 600	37.879	60.317
800 x 600	46.875	75.0
1024 x 768	48.363	60.0
1024 x 768	60.023	75.029
1152 x 864	67.500	75.000
1280 x 1024	63.981	60.02
1280 x 1024	79.976	75.025
1680 x 1050	64.674	59.883
1680 x 1050	65.290	59.954
1600 x 1200	75.0	60.0
1920 x 1080	67.5	60

HDMI/DVI - PC mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
720 x 400	31.468	70.08
640 x 480	31.469	59.94
640 x 480	37.5	75
800 x 600	37.879	60.317
800 x 600	46.875	75.0
1024 x 768	48.363	60.0
1024 x 768	60.023	75.029
1152 x 864	67.500	75.000
1280 x 1024	63.981	60.02
1280 x 1024	79.976	75.025
1680 x 1050	64.674	59.883
1680 x 1050	65.290	59.954
1600 x 1200	75.0	60.0
1920 x 1080	67.5	60

HDMI/DVI - DTV mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
720 x 480	31.469	59.94
	31.5	60
720 x 576	31.25	50
1280 x 720	37.500	50
1280 x 720	44.96	59.94
	45	60
1920 x 1080	33.72	59.94
	33.75	60
1920 x 1080	28.125	50.00
1920 x 1080	27	24
1920 x 1080	33.75	30.00
1920 x 1080	56.250	50
1920 x 1080	67.43	59.94
	67.5	60

COMPONENT mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
720 x 480	15.73	59.94
720 x 480	15.75	60.00
720 x 576	15.625	50.00
720 x 480	31.47	59.94
720 x 480	31.50	60.00
720 x 576	31.25	50.00
1280 x 720	44.96	59.94
1280 x 720	45.00	60.00
1280 x 720	37.50	50.00
1920 x 1080	33.72	59.94
1920 x 1080	33.75	60.00
1920 x 1080	28.125	50.00
1920 x 1080	56.25	50
1920 x 1080	67.432	59.94
1920 x 1080	67.5	60.00

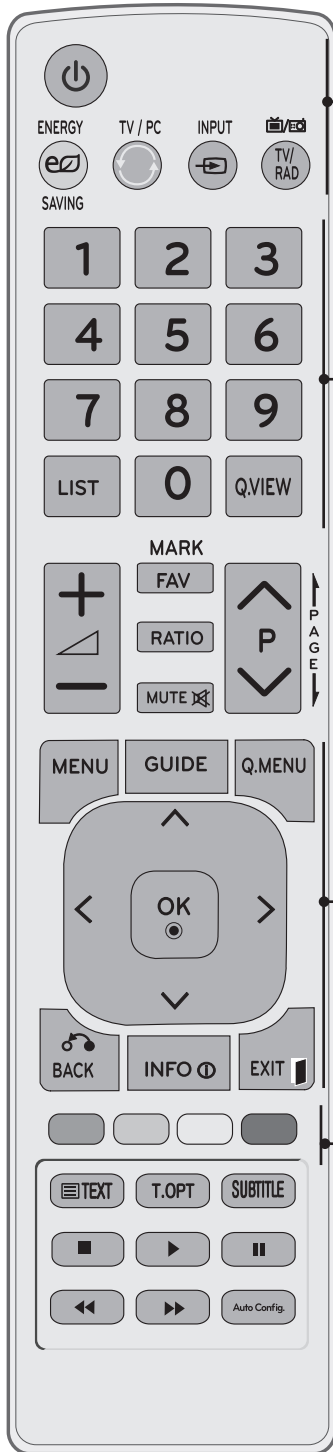
NOTE

- ▶ Avoid keeping a fixed image on the Monitor set screen for prolonged periods of time. The fixed image may become permanently imprinted on the screen use a screen saver when possible.
- ▶ There may be interference relating to resolution, vertical pattern, contrast or brightness in PC mode. Change the PC mode to another resolution or change the refresh rate to another rate or adjust the brightness and contrast on the menu until the picture is clear. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card or consult the manufacturer of the PC graphic card.
- ▶ The synchronization input waveform for Horizontal and Vertical frequencies are separate.
- ▶ Connect the signal cable from the monitor output port of the PC to the RGB (PC) port of the Monitor set or the signal cable from the HDMI output port of the PC to the HDMI/DVI IN port on the Monitor set.
- ▶ Connect the audio cable from the PC to the Audio input on the Monitor set. (Audio cables are not included with the Monitor set).
- ▶ 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/DVI IN to display the PC output on the Monitor set.
- ▶ If the graphic card on the PC does output analogue and digital RGB simultaneously, Monitor set the Monitor set to either RGB or HDMI. (The other mode is set to Plug and Play automatically by the Monitor set.)
- ▶ DOS mode may not work depending on the video card if you use an HDMI to DVI cable.
- ▶ If you use too long an RGB-PC cable that is too long, there may be interference on the screen. We recommend using under 5m of cable. This provides the best picture quality.

WATCHING TV / PROGRAMME CONTROL

REMOTE CONTROL KEY FUNCTIONS

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



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

ENERGY SAVING Adjust the Energy Saving mode of the Monitor set. (▶ P. 59)

TV/PC Selects TV or PC mode.

INPUT External input mode rotates in regular sequence.

TV/RAD Selects Radio, TV and DTV channel.

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

LIST Displays the programme table. (▶ P. 47)

Q.VIEW Returns to the previously viewed programme.

MENU Selects a menu.
Clears all on-screen displays and returns to Monitor set viewing from any menu. (▶ P. 36)

GUIDE Shows programme schedule. (▶ P. 50 to 53)

Q. MENU Select the desired quick menu source. (Aspect Ratio, Clear Voice II, Picture Mode, Sound Mode, Audio, Sleep Timer, Favourite, USB Device). (▶ P.35)

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

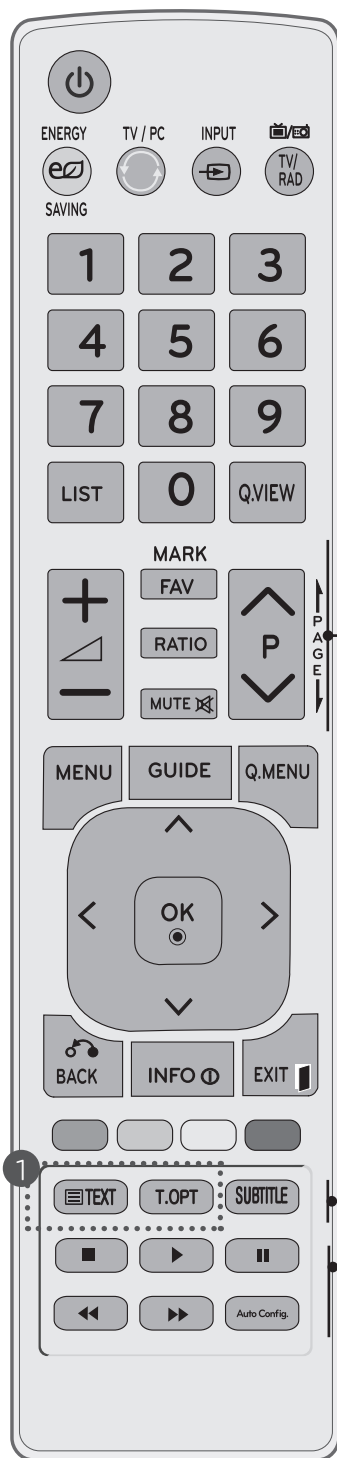
OK Accepts your selection or displays the current mode.

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

INFO Shows the present screen information.

EXIT Clears all on-screen displays and returns to Monitor set viewing from any menu

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



VOLUME UP/DOWN Adjusts the volume.

FAV Displays the selected favourite programme. (▶ P. 48)

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

RATIO Selects your desired Aspect Ratio of picture.

MUTE Switches the sound on or off.

Programme UP/DOWN Selects a programme.

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

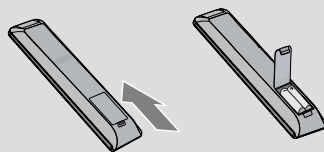
1 TELETEXT BUTTONS These buttons are used for teletext. For further details, see the 'Teletext' section. (▶ P. 119 to 120)

SUBTITLE Recalls your preferred subtitle in digital mode.

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

Auto Config. Automatically adjusts picture position and minimizes image instability.

Installing Batteries



- Open the battery compartment cover on the back side and install the batteries matching correct polarity (+with +,-with -)
- Install two 1.5 V AAA batteries. Don't mix old or used batteries with new ones.
- Close cover.
- To remove the batteries, perform the installation actions in reverse.

WATCHING TV / PROGRAMME CONTROL

TURNING ON THE TV

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

- 1 Firstly, connect the power cord correctly.
At this stage, the TV switches to standby mode.
- 2 In standby mode to turn TV on, press the **⏻ / I**, **INPUT** or **P ^ v** button on the TV or press the **POWER**, **INPUT**, **P ^ v** or **NUMBER** button on the remote control and the TV will switch on.

Initializing setup

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

Note:

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

PROGRAMME SELECTION

- 1 Press the **P ^ v** or **NUMBER** buttons to select a programme number.

VOLUME ADJUSTMENT

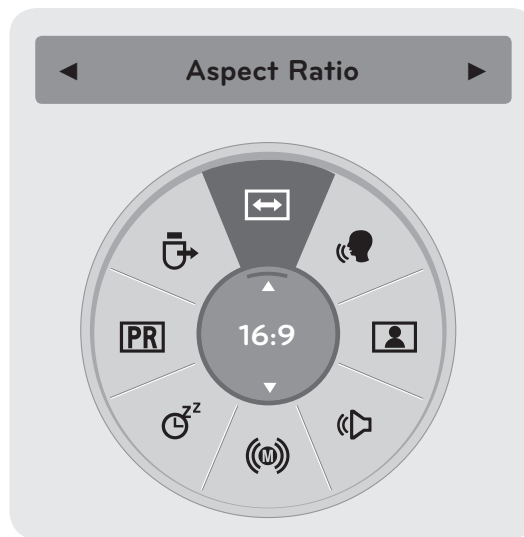
- 1 Press the **◀ +** or **-** button to adjust the volume.
- 2 If you wish to switch the sound off, press the **MUTE** button.
You can cancel this function by pressing the **MUTE**, **◀ +**, **-** button.

QUICK MENU

Your Monitor set OSD (On Screen Display) may differ slightly from that shown in this manual.

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

- Aspect Ratio:** Selects your desired picture format. For Zoom Setting, select 14:9, Zoom and Cinema Zoom in Ratio Menu. After completing Zoom Setting, the display goes back to Q.Menu.
- Clear Voice II:** By differentiating the human sound range from others, it helps users listen to human voices better.
- Picture Mode:** Selects your desired Picture Mode.
- Sound Mode:** It is a feature to automatically set the sound combination which it deems the best for the images being watched. Selects your desired Sound Mode.
- Audio:** Selects the sound output.
- Sleep Timer:** Sets the sleep timer.
- Favourite:** Selects the favourite programme.
- USB Device:** Selects "Eject" in order to eject USB device.



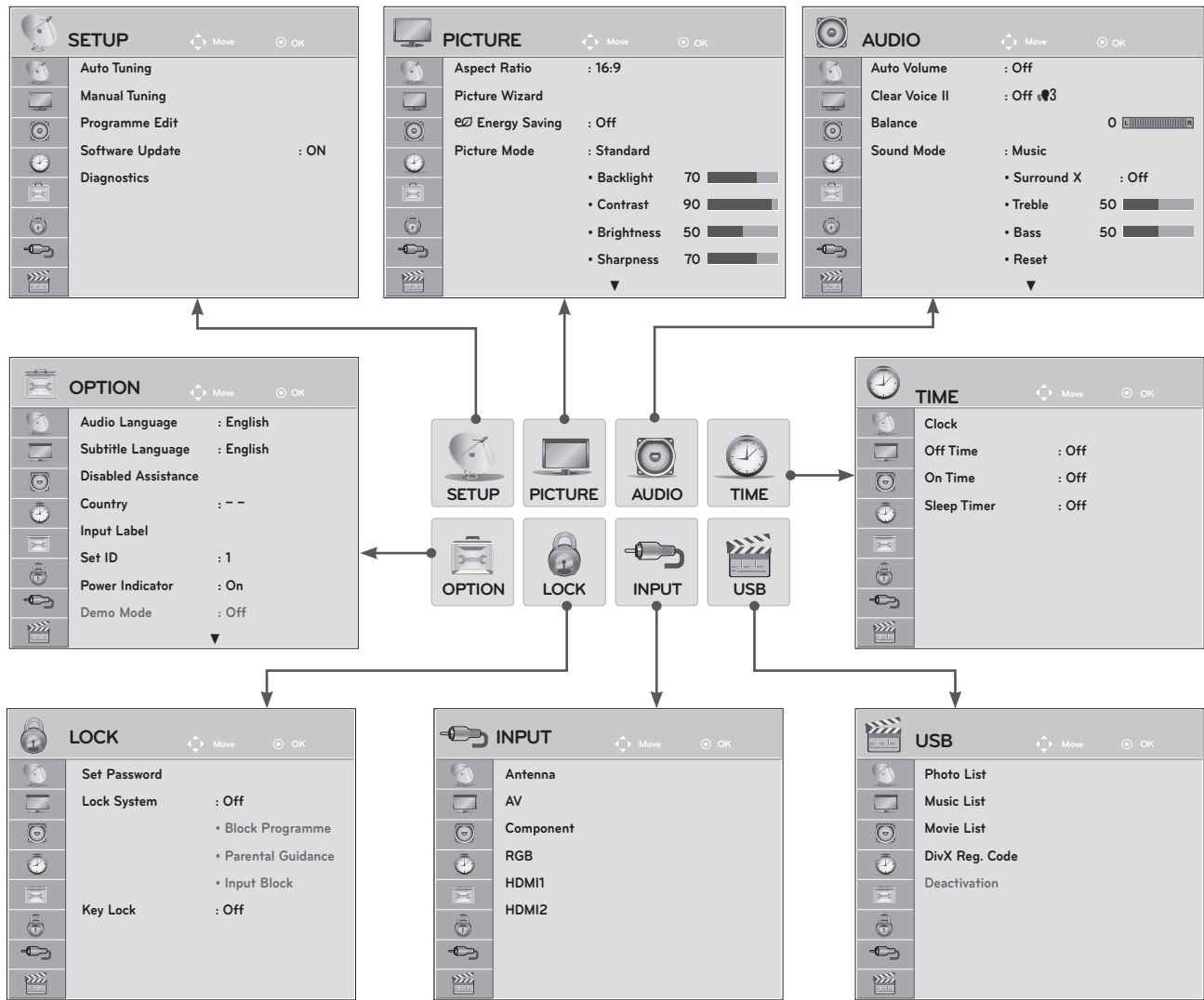
- 1
Q.MENU
◀ ▶
 Display each menu.
- 2
▲ ▼
 Select your desired Source.
- 3
OK

- Press the **BACK** button to move to the previous menu screen.






WATCHING TV / PROGRAMME CONTROL

ON SCREEN MENUS SELECTION AND ADJUSTMENT

Your set's OSD (On Screen Display) may differ slightly from what is shown in this manual.



WATCHING TV / PROGRAMME CONTROL

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

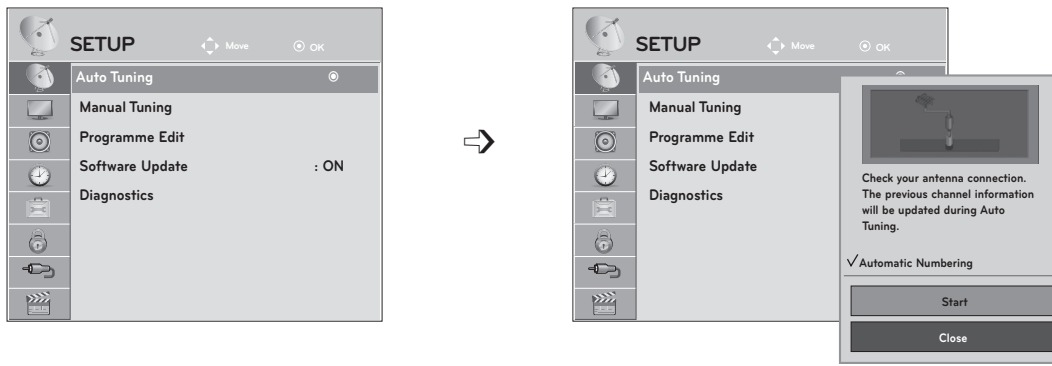
- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.








AUTO PROGRAMME TUNING

Use this to automatically find and store all available programmes.

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

The maximum number of programmes that can be stored is 1000. But the number may differ slightly depending on broadcasting signals.



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

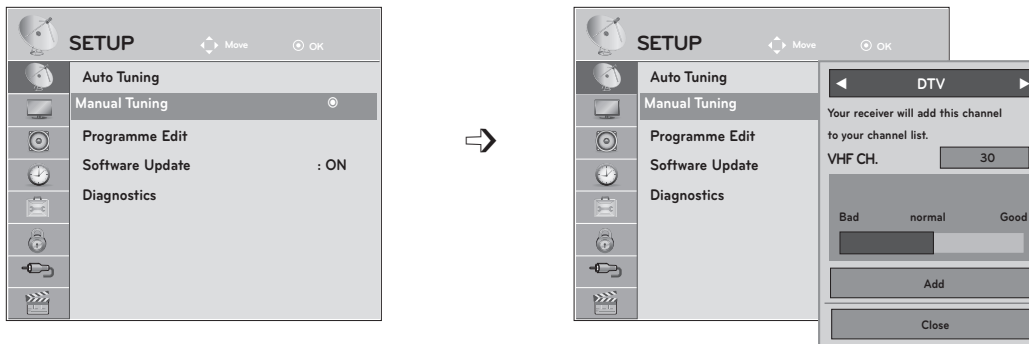
- Use **NUMBER** buttons to input a 4-digit password in **Lock System 'On'**.
- If you wish to keep on auto tuning select **Start** using the **^ v** button. Then, press the **OK button**. Otherwise select **Close**.
- **Automatic Numbering**: Decide whether to use the programme numbers as sent by broadcasting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









- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

WATCHING TV / PROGRAMME CONTROL

MANUAL PROGRAMME TUNING (IN DIGITAL MODE)

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



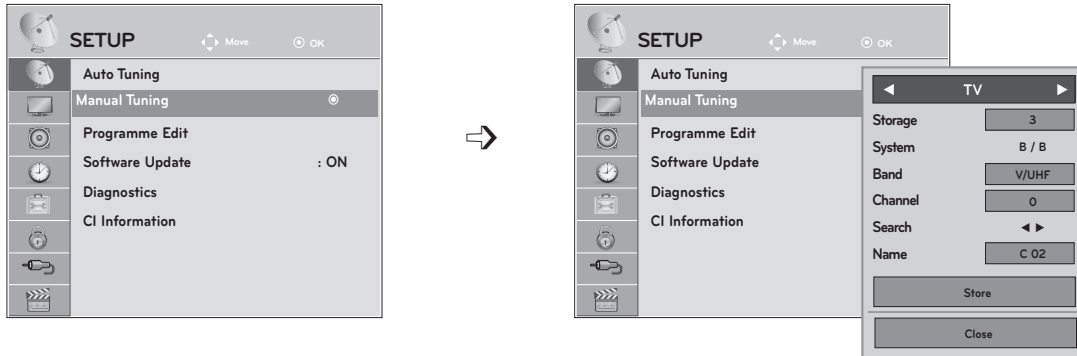
- 1   Select **SETUP**.
- 2   Select **Manual Tuning**.
- 3   Select **DTV**.
- 4   Select the desired channel number.

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

- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

MANUAL PROGRAMME TUNING (IN ANALOGUE MODE)

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



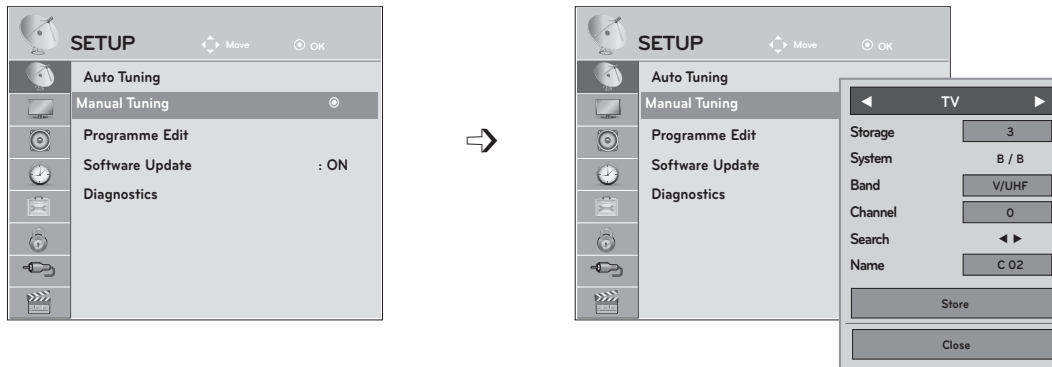
- 1 Select **SETUP**.
- 2 Select **Manual Tuning**.
- 3 Select **TV**.
- 4 or Select the desired programme number on.
- 5 Select a **TV** system.

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

- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.















- Use **NUMBER** buttons to input a 4-digit password in **Lock System 'On'**.
- **BG**: PAL B/G (Europe / East Europe / Asia / New Zealand / M.East / Africa / Singapore)
- **I**: PAL I/II (U.K. / Ireland / Hong Kong / South Africa)
- **DK**: PAL D/K (East Europe / China / Africa / CIS)
- **B/B**: Australia
- To store another channel, repeat steps 4 to 9.

WATCHING TV / PROGRAMME CONTROL



■ Assigning a station name

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

- 1   Select **SETUP**.
- 2   Select **Manual Tuning**.
- 3   Select **TV**.
- 4   Select **Name**.
- 5   Select the position and make your choice of the second character, and so on. You can use the alphabet **A** to **Z**, the number **0** to **9**, +/ -, and blank.
- 6   Select **Close**.
- 7   Select **Store**.

- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

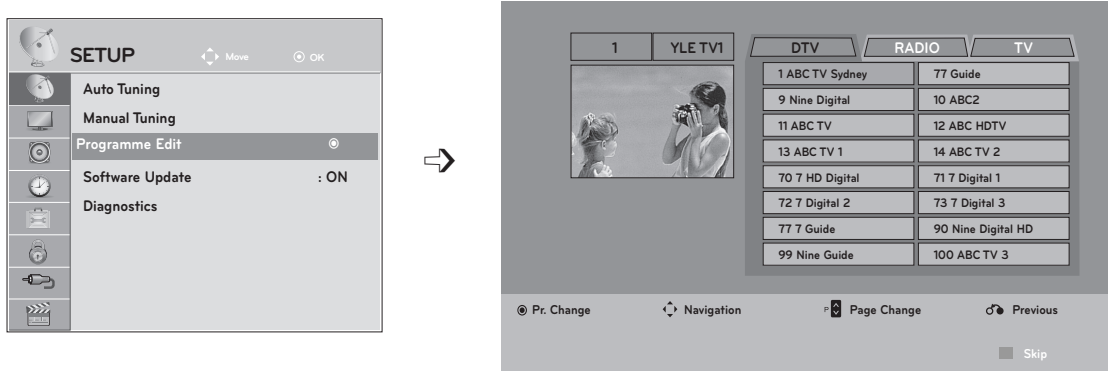
PROGRAMME EDIT


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

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

This function enables you to skip the stored programmes.

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



- 1   Select **SETUP**.
- 2   Select **Programme Edit**.
- 3  Enter the **Programme Edit**.
- 4  Select a programme to be stored or skipped.

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


- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

WATCHING TV / PROGRAMME CONTROL

IN DTV/RADIO MODE

■ Skipping a programme number



1  Select a programme number to be skipped.

2  Turn the programme number to blue.

3  Release.

- 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.

■ Selecting favourite programme

1   Select your favourite programme number.


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

IN TV MODE

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

■ Deleting a programme

1  Select a programme number to be skipped.


2  Turn the programme number to red.

3  Delete.  Release.

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

■ Moving a programme


1  Select a programme number to be skipped.

2   Turn the programme number to green.

3  Release.

■ Skipping a programme number

1  Select a programme number to be skipped.

2  Turn the programme number to blue.

3  Release.








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

WATCHING TV / PROGRAMME CONTROL

SOFTWARE UPDATE

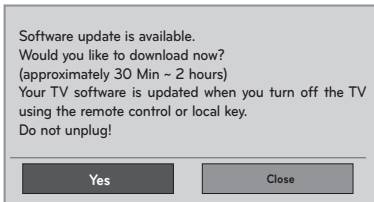
Software Update means software can be downloaded through the digital terrestrial broadcasting system.



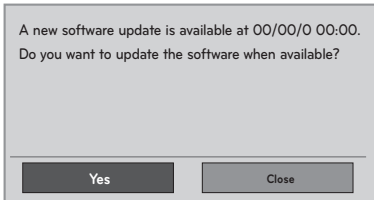
-   Select **SETUP**.
-   Select **Software Update**.
-   Select **On** or **Off**.
 - If you select **On**, a user confirm message box will be displayed to notify that new software is found.
-  Save.

* When setting "Software Update"

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



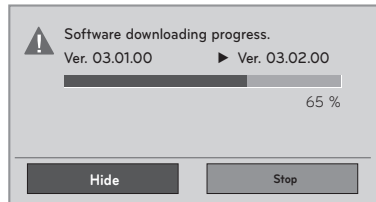
Simple Update: for current update stream



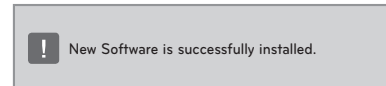
Schedule Update: for scheduled update stream.

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

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



After the Software Update is complete, the System restarts.



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

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

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

WATCHING TV / PROGRAMME CONTROL

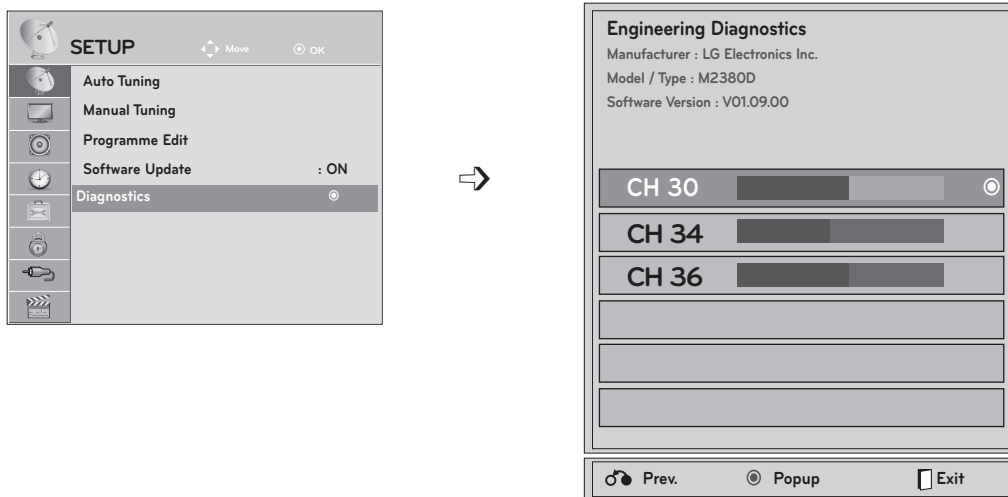
DIAGNOSTICS








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

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

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

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



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

- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

SELECTING THE PROGRAMME LIST


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

Mini Glossary

 Displayed when the Locked Programme.





■ Displaying programme LIST

- 1  Display the Programme List.



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

■ Selecting a programme in the programme list

- 1  Select a programme.
- 2  Switch to the chosen programme number.



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

- 1  Turn the pages.
- 2  Return to normal TV viewing.

WATCHING TV / PROGRAMME CONTROL

FAVOURITE PROGRAMME SETUP

■ Selecting favourite programme


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



1  or  Select your desired programme.

2   Select **Favourite**.

3  Select **Favourite**.

4  Return to TV viewing.

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

■ Displaying the favourite programme list



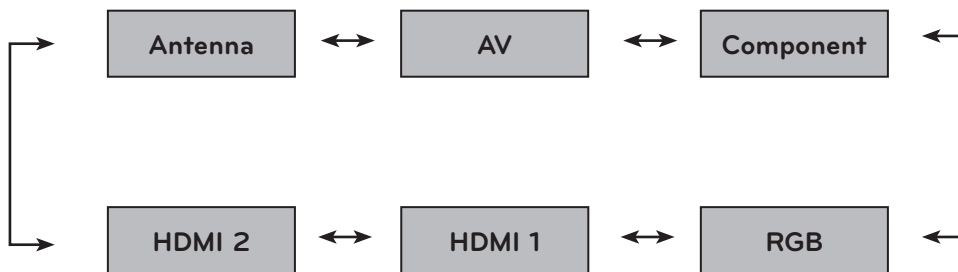
3  Display the Favourite Programme List.

INPUT LIST

HDMI, AV, Component and **RGB** can be recognized by a detect pin and thus enabled only when an external device approves voltage.

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

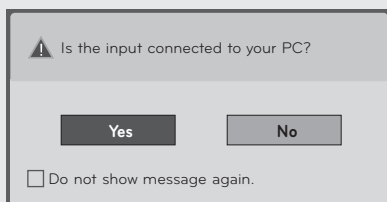
- **Antenna**: Select it when watching the DTV/TV.
- **AV**: Select it when watching the VCR or external equipment.
- **Component**: Select it when using the DVD or the Digital set-top box depends on connector.
- **RGB** : Select it when using PC depends on connector.
- **HDMI 1, HDMI 2**: Select it when using DVD, PC or Digital set-top box depend on connector.



- 1    Select the input source.

NOTE

- ▶ The OSD (On Screen Display) is displayed on the screen as shown below.



- When turning the product on in HDMI input.
- When switching to HDMI input.
- When connecting an HDMI cable with no signal.

- If you select "**Yes**" the size and image quality are optimised for your PC.
- If you select "**No**" the size and image quality are optimised for the **AV device (DVD player, Set-top box, gaming device)**.
- If you select "**Do not show message again,**" this message does not appear until the monitor is reset. You can change the set value in **MENU ▶ OPTION ▶ Input Label**.
- The values set for HDMI1/HDMI2 are saved independently.













EPG (ELECTRONIC PROGRAMME GUIDE)(IN DIGITAL MODE)

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


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

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




The EPG displays the programme details for next 7 days.

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

Switch on EPG








-  Switch on or off EPG.

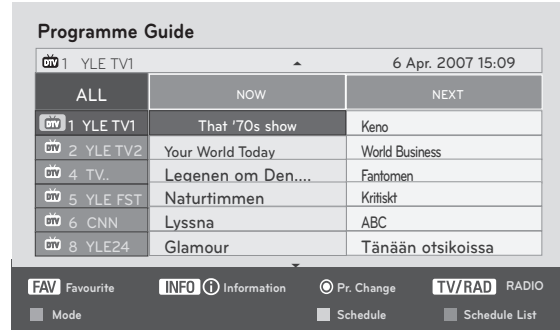
Select a programme






-  or  Select desired programme.
-  Display the selected programme.

Button Function in NOW/NEXT Guide Mode









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

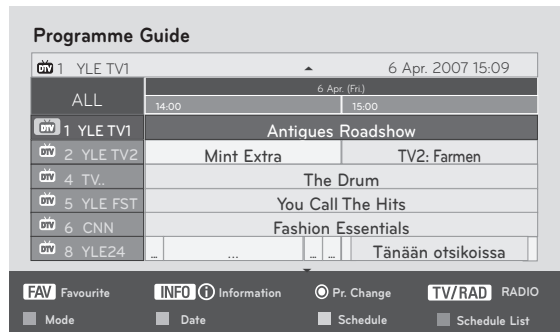
-  **RED** Change EPG mode.
-  **YELLOW** Enter Timer Remind setting mode.
-  **BLUE** Enter Timer Remind list mode.
-  **OK** Change to the selected programme.
-  Select NOW or NEXT Programme.
-  Select the Broadcast Programme.
-  Page Up/Down.








-  or  or  Switch off EPG.
-  Select TV or RADIO Programme.
-  Detail information on or off

Button Function in 7 Day Guide Mode








-  **RED** Change EPG mode.
-  **GREEN** Enter Date setting mode.
-  **YELLOW** Enter Timer Remind setting mode.
-  **BLUE** Enter Timer Remind list mode.
-  **OK** Change to the selected programme.
-  Select NOW or NEXT Programme.
-  Select the Broadcast Programme.
-  Page Up/Down.



-  or  or  Switch off EPG.
-  Select TV or RADIO Programme.
-  Detail information on or off






EPG (ELECTRONIC PROGRAMME GUIDE) (IN DIGITAL MODE)

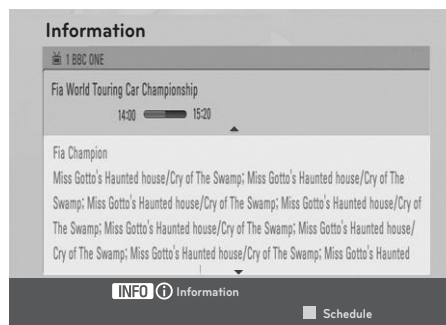
Button Function in Date Change Mode

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







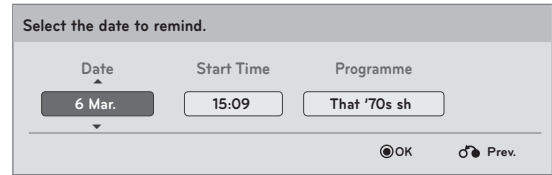
Button Function in Extended Description Box

-  Text Up/Down.
-  Enter Timer Remind setting mode.
-  The detail information on or off.
-  or  Switch off EPG.



Button Function in Remind Setting Mode









-  Change to Guide or Schedule mode.
-  Function setting.
-  Select Date, Start time or Programme.
-  Save Timer Remind.

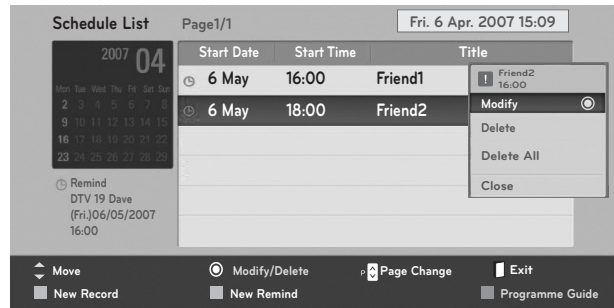


Button Function in Schedule List Mode

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

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

-  Add new Timer Watching setting mode.
-  or  Change to Guide mode.
-  or  Switch off EPG.
-  Select your desired Option(Modify/Delete/Delete All).
-  Select **Schedule List**.
-  Page Up/Down.















MHEG (MULTIMEDIA AND HYPERMEDIA INFORMATION CODING EXPERT GROUP) (IN DIGITAL MODE) (Only New Zealand)

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.

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










Switch on MHEG

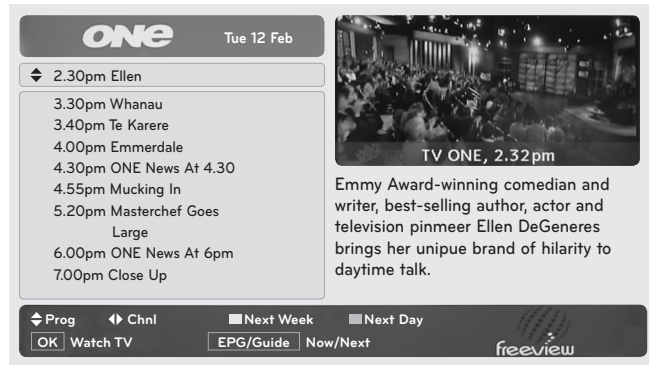
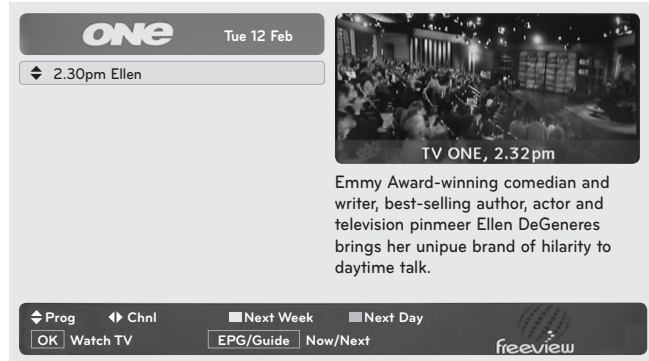
-  Switch on the MHEG.

Select a programme

-  Preview the Broadcast Programme Information.
-  change to desired channel.
-  The MHEG will disappear after moving to a selected channel.







Button Function in Listing Mode

-  Select the Broadcast Programme Information.
-  Select Channel.
-  Change to Next Week or Prev Day.
-  Change to Next Day or Today.
-  The MHEG will disappear after moving to a selected channel.
-  Change to Now/Next mode.
-  or  Switch off MHEG.
-  Detail information on or off.



Button Function in NOW/NEXT Mode

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

-  Select desired channel.
-  The MHEG will disappear after moving to a selected channel.
-  Change to Listing mode.
-  or  Switch off MHEG.
-  Detail information on or off.

What's on now/next.			2.33pm Tue 12 Feb
◆ 1	TV ONE	Now 2.30pm	Neighbours
		Now 3.30pm	Jojo's Circus
2	TV2	Now 2.30pm	Neighbours
		Next 3.00pm	Jojo's Circus
3	TV3	Now 2.00pm	Oprah
		Next 3.00pm	Rugrats
4	C4	Now 2.00pm	The Official NZ Top 40
		Next 4.00pm	Vodafone Select Live
5	Māori Television	Now 12.00am	News : Te Kaea
		Next 3.00pm	Advice: Ask Your Auntie

Navigation: Chnl, OK, Watch TV, EPG, Listings, freeview

PICTURE CONTROL




PICTURE SIZE (ASPECT RATIO) CONTROL

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

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

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

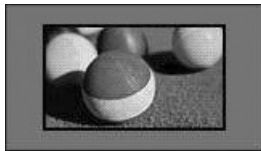
This function works in the following signal.

-   Select **Aspect Ratio**.
-  Select the desired picture format.

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

• 16:9

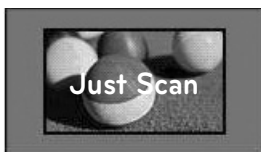
The following selection will allow you to adjust the picture horizontally, in linear proportion, to fill the entire screen (useful for viewing 4:3 formatted DVDs).



• Just Scan

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

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



• Original

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



• 4:3

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



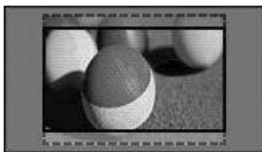
- **14 : 9**

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



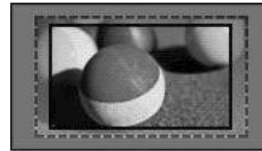
- **Zoom**

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



- **Cinema Zoom**

Choose Cinema Zoom when you want to enlarge the picture in correct proportion. Note: When enlarging or reducing the picture, the image may become distorted.



◀ or ▶ button: Adjust enlarge proportion of Cinema Zoom. The adjustment range is 1 to 16.

▼ or ▲ button: Move the screen.

! NOTE

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

PICTURE CONTROL

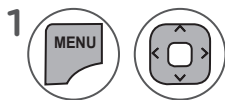
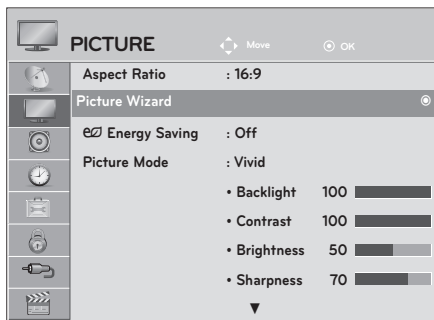
PICTURE WIZARD

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

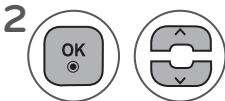
Use this to calibrate the screen quality by adjusting the Black and White Level etc. General users can calibrate the screen quality by easily following each stage.

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

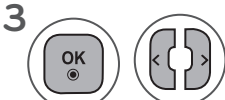
In RGB-PC / HDMI-PC mode, the changed Colour, Tint and H/V Sharpness values are not applied.



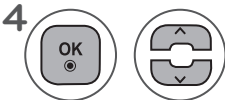
Select **PICTURE**.



Select **Picture Wizard**.



Adjust **Black level, White level, Colour, Tint, Horizontal Sharpness, Vertical Sharpness, Colour Temperature, Dynamic Contrast, Colour Gain, Backlight**.



Select input source to apply the settings.



- If you stop the setting before the final stage, the changes will not be applied
- The adjustment value is saved to **Expert 1**.

- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

e ENERGY SAVING

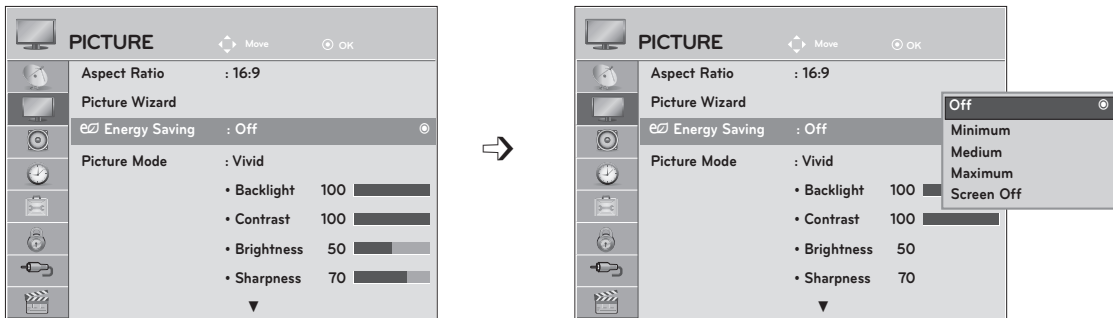
It reduces the Monitor set power consumption.








The default factory setting is adjusted to the comfortable level to be viewed at home.

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

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

Selecting '**Screen Off**' while tuned to a radio station channel will reduce power consumption.



- 1   Select **PICTURE**.
- 2   Select **e Energy Saving**.
- 3   Select **Off, Minimum, Medium, Maximum** or **Screen Off**.
- 4 

- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

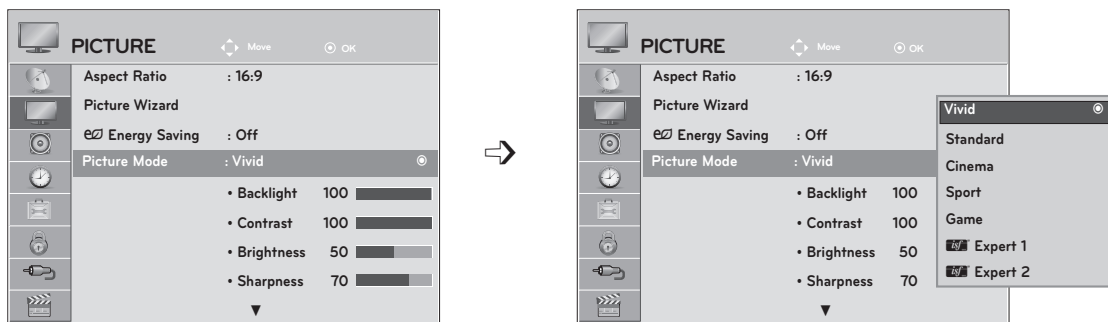
- When you select Screen Off, the screen will be turned off in 3 seconds and Screen Off will start. And the Monitor set is disabled to be automatically turned off.
- You can also adjust this feature by selecting **Energy Saving** button on the remote control.
- If you want to return from Screen off, input any key.








PICTURE CONTROL

PRESET PICTURE SETTINGS

Picture Mode-Preset

- Vivid** Strengthen the contrast, brightness, colour and sharpness for vivid picture.
- Standard** The most general screen display status.
- Cinema** Optimizes video for watching movies.
- Sport** Optimizes video for watching sports events.
- Game** Optimizes video for playing games.



-   Select **PICTURE**.
-   Select **Picture Mode**.
-   Select **Vivid, Standard, Cinema, Sport or Game**
- 

- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

- **Picture Mode** adjusts the Monitor set for the best picture appearance. Select the preset value in the **Picture Mode** menu based on the programme category.
- You can also adjust Picture Mode in the **Q. Menu**.

MANUAL PICTURE ADJUSTMENT

Picture Mode-User option

Backlight

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

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

Contrast

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

Brightness

Adjusts the base level of the signal in the picture.

Sharpness

Adjusts the level of crispness in the edges between the light and dark areas of the picture. The lower the level, the softer the image.

Colour

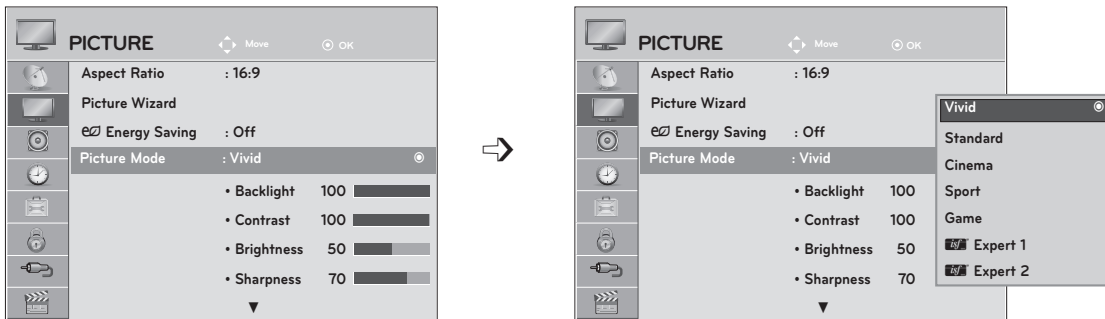
Adjusts intensity of all colours.

Tint

Adjusts the balance between red and green levels.

Colour Temperature

Set to warm to enhance hotter colours such as red, or set to cool to make picture bluish.



- 1   Select **PICTURE**.
- 2   Select **Picture Mode**.
- 3   Select **Vivid, Standard, Cinema, Sport or Game**
- 4   Select **Backlight, Contrast, Brightness, Sharpness, Colour, Tint or Colour Temperature**.
- 5   Make appropriate adjustments.
- 6 

- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

NOTE

- ▶ You cannot adjust colour and tint in the RGB-PC / HDMI-PC mode.
- ▶ When the **Expert 1/2** is selected, you can select **Backlight, Contrast, Brightness, H Sharpness, V Sharpness, Colour or Tint**.

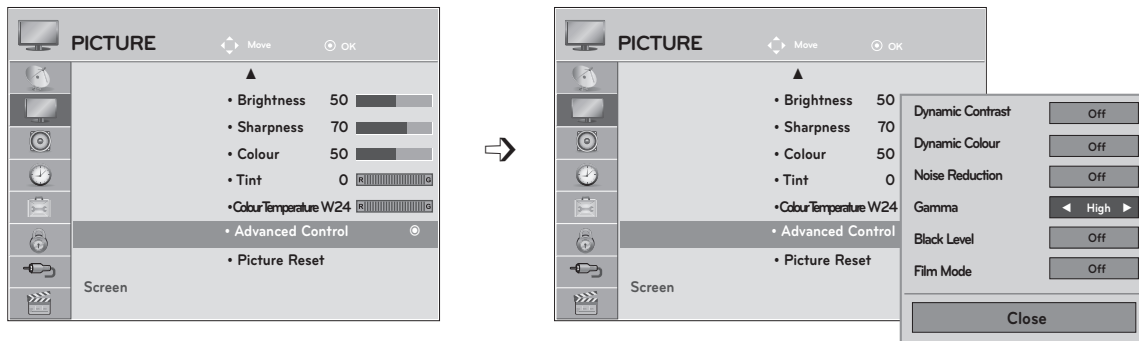
PICTURE CONTROL








PICTURE IMPROVEMENT TECHNOLOGY

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

You can set the video value differently for each input.

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



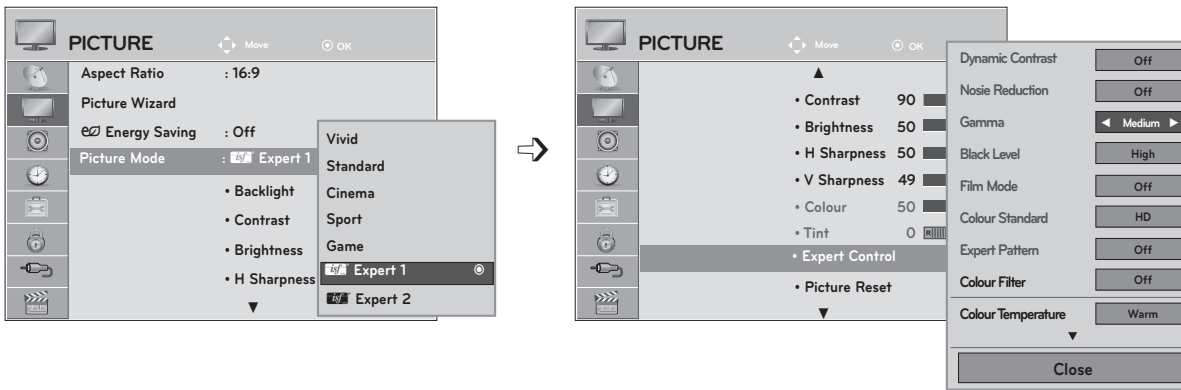
-   Select **PICTURE**.
-   Select **Advanced Control**.
-   Select **Dynamic Contrast, Dynamic Colour, Noise Reduction, Gamma, Black Level** or **Film Mode**. (Refer to p. 64 to 65)
-  Select your desired Source.












- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

EXPERT PICTURE CONTROL

By segmenting categories, **Expert 1** and **Expert 2** provide more categories which users can set as they see fit, offering the optimal picture quality for users.

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



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

- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

PICTURE CONTROL

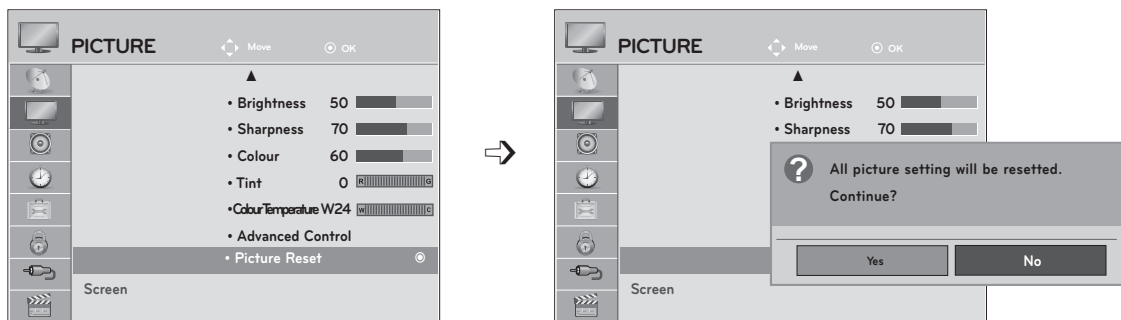
<p>Dynamic Contrast (Off/Low/High)</p>	<ul style="list-style-type: none"> ■ Adjusts the contrast to keep it at the best level according to the brightness of the screen. The picture is improved by making bright parts brighter and dark parts darker.
<p>Dynamic Colour (Off/Low/High)</p>	<ul style="list-style-type: none"> ■ Adjusts screen colours so that they look livelier, richer and clearer. This feature enhances hue, saturation and luminance so that red, blue, green and white look more vivid.
<p>Noise Reduction (Off/Low/Medium/High)</p>	<ul style="list-style-type: none"> ■ Reduces screen noise without compromising video quality.
<p>Gamma (Low/Medium/High)</p>	<ul style="list-style-type: none"> ■ You can adjust brightness of dark area and middle gray level area of the picture. <ul style="list-style-type: none"> • Low: Make dark and middle gray level area of the picture brighter. • Medium: Express original picture levels. • High: Make dark and middle gray level area of the picture darker.
<p>Black Level (Low/High/Auto)</p>	<ul style="list-style-type: none"> • Low: The picture of the screen gets darker. • High: The picture of the screen gets brighter. • Auto: Realizing the black level of the screen and set it to High or Low automatically. ■ Set black level of the screen to proper level. ■ This function enables to select 'Low' or 'High' in the following mode: AV(NTSC-M), HDMI or Component. Otherwise, 'Black level' is set to 'Auto'.
<p>Film Mode (On/Off)</p>	<ul style="list-style-type: none"> ■ You can watch a cinema-like video by eliminating judder effect. ■ Use this function when you watch movies.
<p>Colour Standard (SD/HD)</p>	<ul style="list-style-type: none"> ■ Converts the colour of a different video to HD colour. This function is set for SD video (BT-601) and HD video (BT-709) colour format.
<p>Expert Pattern (Off/Expert 1/Expert 2)</p>	<ul style="list-style-type: none"> ■ This is the pattern necessary for expert adjustment. ■ This function is enabled in "Picture Mode - Expert" when you watch DTV.








<p>Colour Filter (Off/Red/Green/Blue)</p>	<ul style="list-style-type: none"> ■ This is the function to filter the specific colours of the video. You can use the RGB filter to set colour saturation and hue accurately.
<p>Colour Temperature (Medium/Warm/Cool)</p>	<ul style="list-style-type: none"> ■ This is the function to adjust the overall colour of the screen to the feeling you want. <ul style="list-style-type: none"> a. • Method: 2 Points <ul style="list-style-type: none"> • Pattern: Inner, Outer • Red/Green/Blue Contrast, Red/Green/Blue Brightness : The adjustment range is -50 to +50. b. • Method: 10 point IRE <ul style="list-style-type: none"> • Pattern: Inner / Outer • IRE (Institute of Radio Engineers) is the unit to display the size of the video signal and can be set among 10, 20, 30 to 100. You can adjust Red, Green or Blue according to each setting. • Red/Green/Blue: The adjustment range is -50 to +50.
<p>Colour Management System</p>	<ul style="list-style-type: none"> ■ As the tool used by the experts to make adjustments by using the test patterns, this does not affect other colours but can be used to selectively adjust the 6 colour areas (Red/Green/Blue/Cyan/Magenta/Yellow). Colour difference may not be distinctive even when you make the adjustments for the general video. ■ Adjusts Red/Green/Blue/Yellow/Cyan/Magenta. <ul style="list-style-type: none"> • Red/Green/Blue/Yellow/Cyan/Magenta Colour: The adjustment range is -30 to +30. • Red/Green/Blue/Yellow/Cyan/Magenta Tint: The adjustment range is -30 to +30. ■ This feature is disable in RGB-PC and HDMI (PC) mode.

PICTURE CONTROL

PICTURE RESET

Settings of the selected picture modes **BACK** to the default factory settings.



- 1   Select **PICTURE**.
- 2   Select **Picture Reset**.
- 3   Select **Yes** or **No**.
- 4 

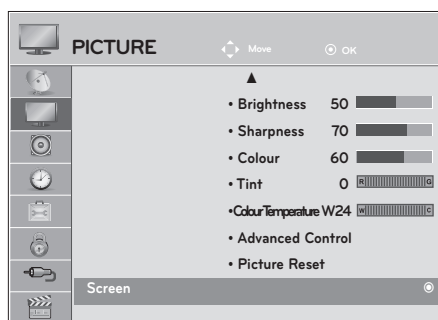
- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

SCREEN SETUP FOR PC MODE

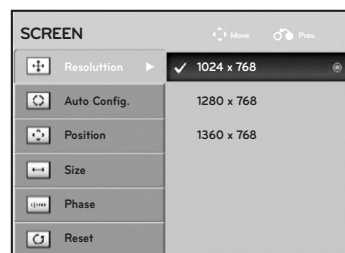
Selecting Resolution

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

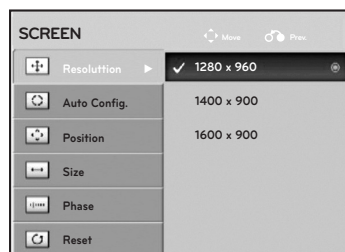
This function works in the following mode: RGB[PC] mode.












<Vertical resolution : 768>



<Vertical resolution : 900>



- 1   Select **PICTURE**.
- 2   Select **Screen**.
- 3   Select **Resolution**.
- 4   Select the desired resolution.
- 5 

- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

PICTURE CONTROL

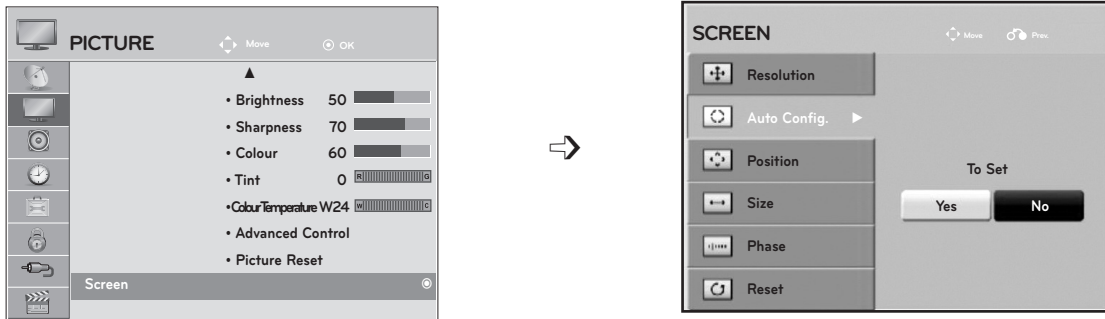
Auto Configure (RGB [PC] mode only)

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

Auto configure

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

1. Using OSD



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

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

- 5 Run **Auto Config.**

- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

2. Using Auto Config. (Remocon)

This function is available for RGB signals only.

- 1 Press **Auto Config.**

Auto in progress
<1920 x 1080 Resolution>

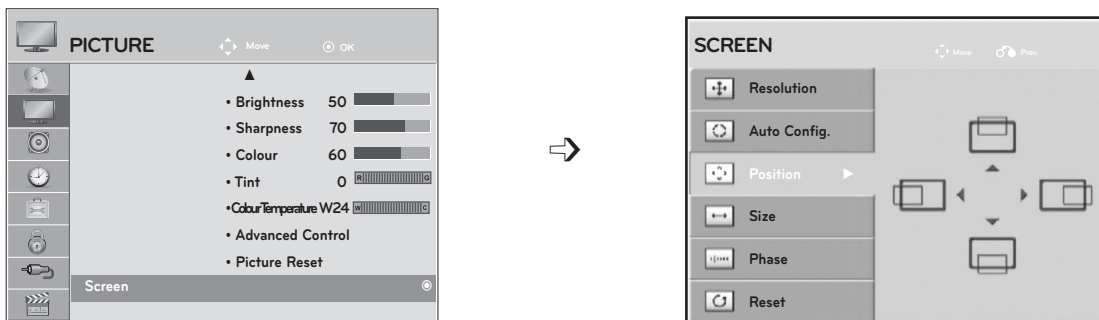
Auto in progress
For optimal display
change resolution 1920 x 1080











<Others Resolution>

Adjustment for screen Position, Size, Phase

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

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



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

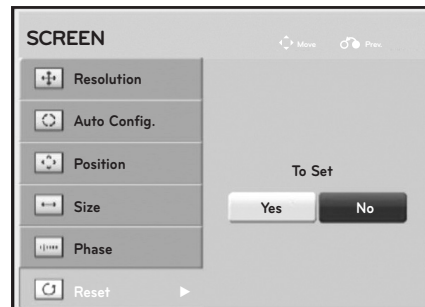
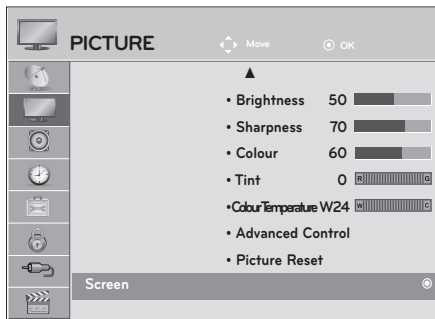
- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.










PICTURE CONTROL

Screen Reset

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

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



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

- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

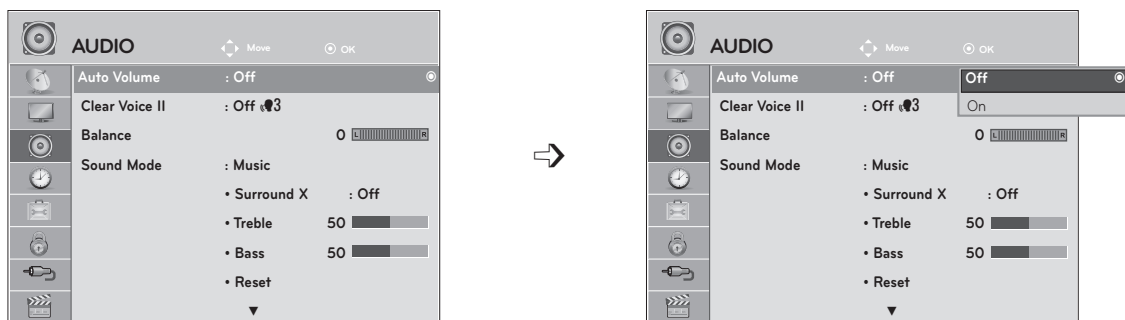
SOUND CONTROL








AUTO VOLUME LEVELER

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

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

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



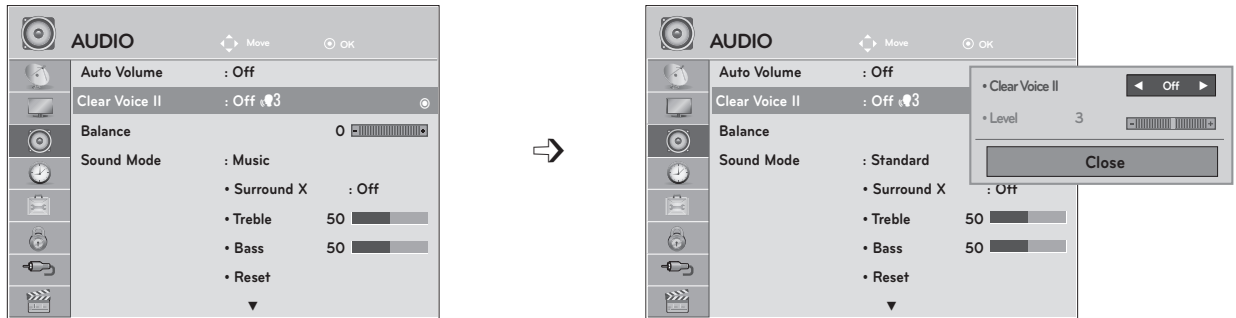
- 1   Select **AUDIO**.
- 2   Select **Auto Volume**.
- 3   Select **On** or **Off**.
- 4 







- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

SOUND CONTROL

CLEAR VOICE II





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



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

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

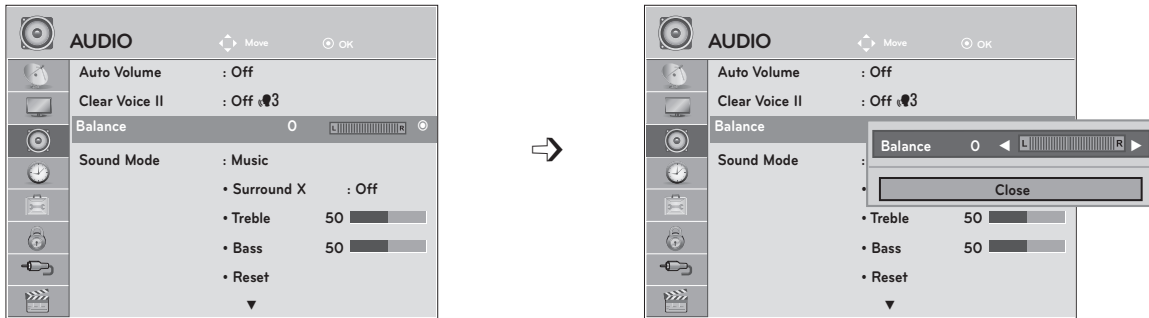
Adjustment for Clear Voice Level With selecting On







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

- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

BALANCE

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



- 1   Select **AUDIO**.
- 2   Select **Balance**.
- 3   Make desired adjustment.

- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

SOUND CONTROL

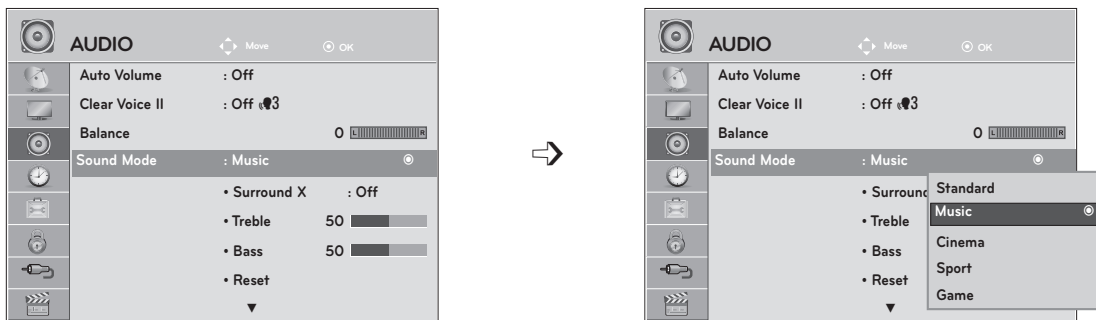
PRESET SOUND SETTINGS-SOUND MODE








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

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

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

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

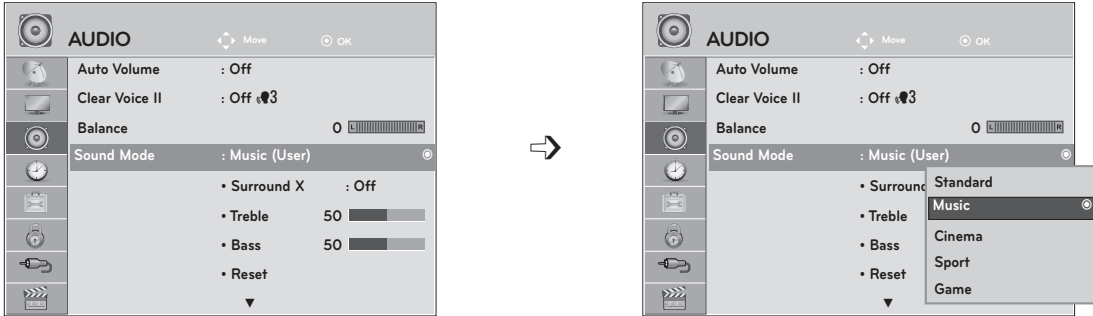












-   Select **AUDIO**.
-   Select **Sound Mode**.
-   Select **Standard, Music, Cinema, Sport** or **Game**.
- 

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

- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

PRESET SOUND SETTINGS-USER MODE









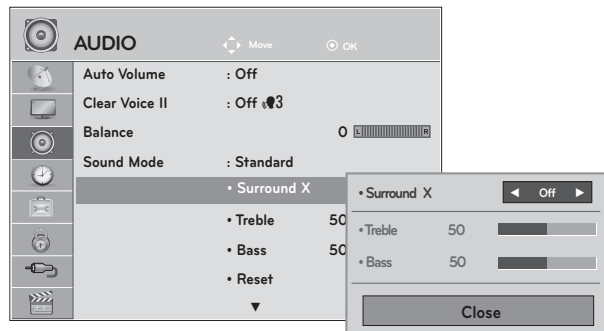
- 1   Select **AUDIO**.
- 2   Select **Sound Mode**.
- 3   Select **Standard, Music, Cinema, Sport or Game**.
- 4   Select **Treble or Bass**.
- 5   Set the desired sound level.

Surround X

Select this option to sound realistic.

Enhance sound depth and clarity by maximizing Surround effect.

- 1   Select **AUDIO**.
- 2   Select **Surround X**.
- 3   Select **On or off**
- 4 

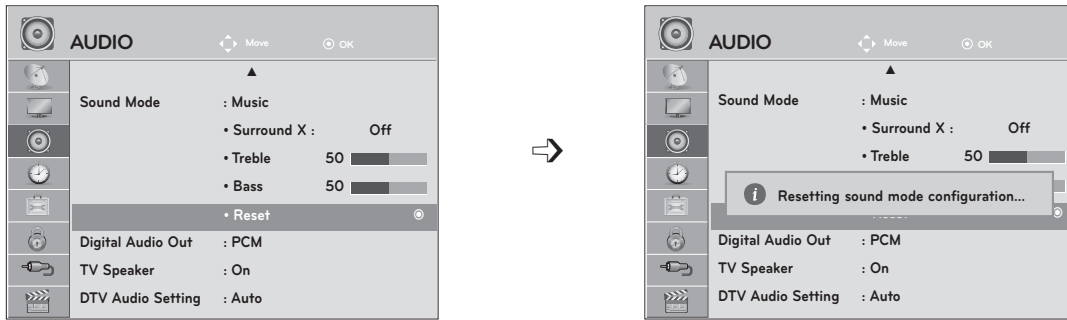







- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

SOUND CONTROL

AUDIO RESET

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



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

- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

DIGITAL AUDIO OUT

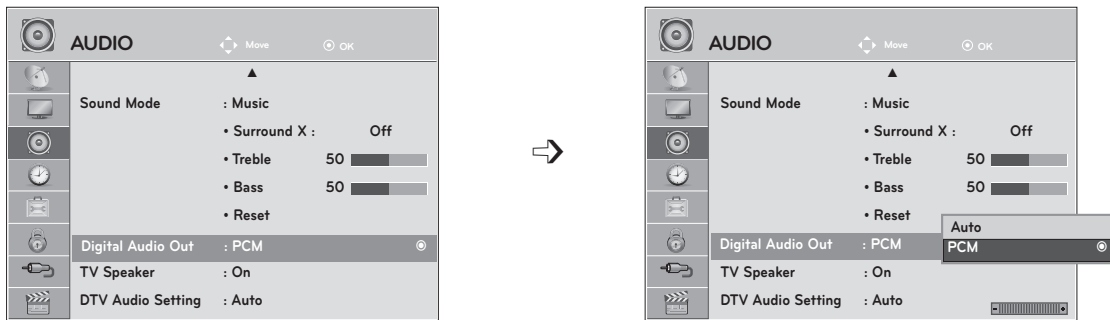
This function allows you to select your preferred Digital Audio Output.








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

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

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

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



- 1   Select **AUDIO**.
- 2   Select **Digital Audio Out**.
- 3   Select **Auto** or **PCM**.
- 4 

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

- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

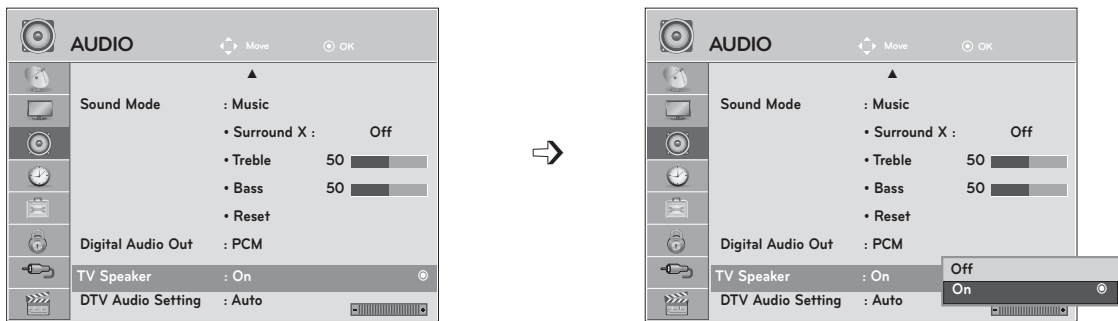
SOUND CONTROL








TV SPEAKERS ON / OFF SETUP

You can adjust the TV internal speaker status.

In **AV**, **COMPONENT**, **RGB** and **HDMI 1/2** with **HDMI** to **DVI** cable, the TV speaker can be operational even when there is no video signal.

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



- 1   Select **AUDIO**.
- 2   Select **TV Speaker**.
- 3   Select **On** or **Off**.
- 4 

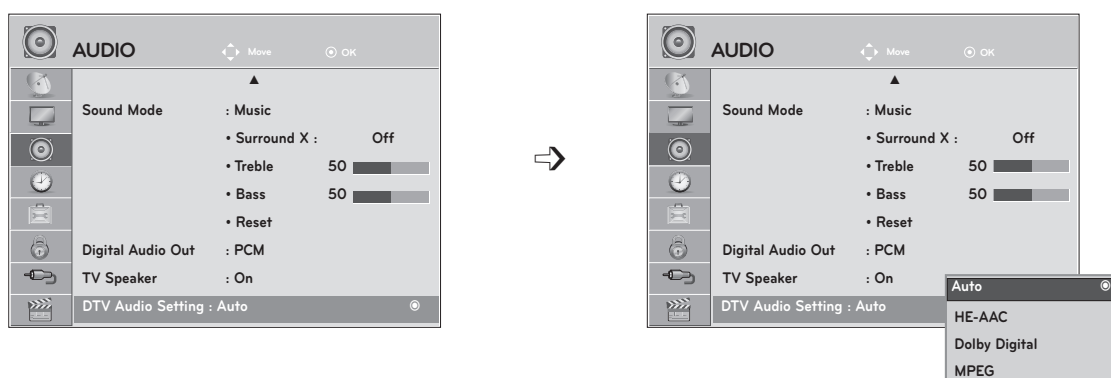
- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.







! NOTE

- ▶ When the TV speaker is turned off while the Simplink home theater is operating, the sound output automatically switches to the Home theater speaker, but when the TV speaker is turned on, the sound output 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.



- 1   Select **AUDIO**.
- 2   Select **DTV Audio Setting**.
- 3   Select **Auto, HE-AAC, Dolby Digital** or **MPEG**.
- 4 





- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

- **Auto**: Automatically outputs in the order **HE - AAC** ► **Dolby Digital** ► **MPEG**.
- **HE - AAC, Dolby Digital, MPEG**: Allows users to select the audio type they want.
If **MPEG** is selected, MPEG is always outputted.
If **MPEG** is not supported, **HE - AAC** and **Dolby Digital** are selected in that order.
- Refer to p. 96 (Audio Language Selection)

SOUND CONTROL

STEREO RECEPTION (IN ANALOGUE MODE ONLY)

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

-   Select **Audio**.
-   Select the sound output.

Broadcast	On Screen Display
Mono	MONO
Stereo	STEREO
NICAM (Only South Africa & New Zealand)	NICAM (Only South Africa & New Zealand)

■ 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.

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 SETTING

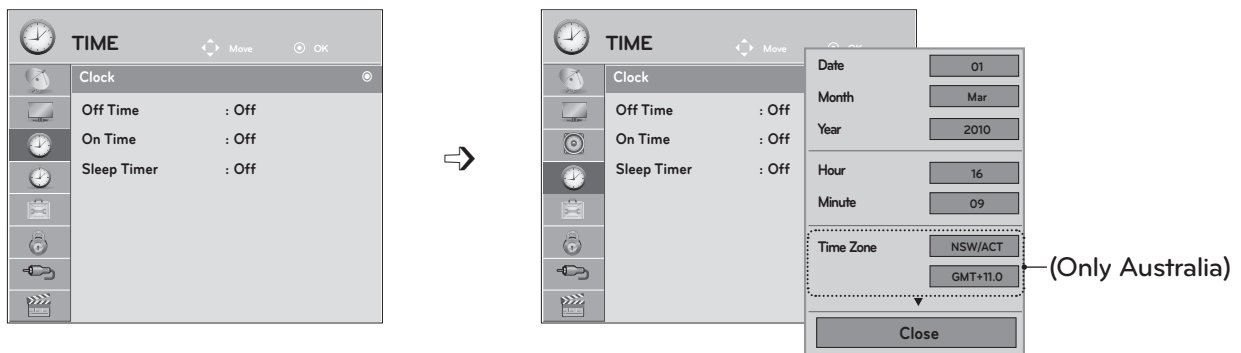
CLOCK SETUP








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

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

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

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



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

- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

TIME SETTING

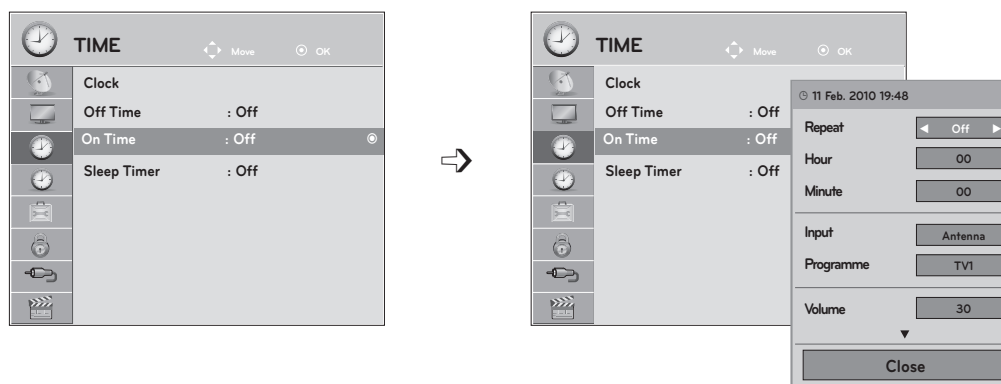
AUTO ON/OFF TIME SETTING

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

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






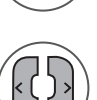
The Off time function overrides the On time function if both are set to the same time.

The Monitor set must be in standby mode for the On time to work.



- 1   Select **TIME**.
- 2   Select **Off Time** or **On Time**.
- 3   Select **Repeat**.
- 4  Select **Off, Once, Daily, Mon ~ Fri, Mon ~ Sat, Sat ~ Sun** or **Sun**.
- 5   Set the **hour**.
- 6   Set the **minutes**.

- To cancel **On/Off** Time function, select **Off**.
- For On Time function only

- 1  Select **Input**.
- 2  Select the input source.
- 3   Set the programme.
- 4   Adjust volume level at switch-on.

- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

SLEEP TIMER SETTING

You do not have to remember to switch the Monitor set off before you go to sleep.

The sleep timer automatically switches the Monitor set to standby after the preset time has elapsed.

1   Select **Sleep Timer**.

2  Select **Off, 10, 20, 30, 60, 90, 120, 180** or **240 min**.

- When you switch the Monitor set off, the preset sleep timer is cancelled.
- You can also adjust **Sleep Timer** in the **TIME** menu.








OPTION SETTING

COUNTRY SELECTION

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

- 1   Select your country.

• If you want to change Country selection

- 1   Select **OPTION**.
- 2   Select **Country**.
- 3   Select your country.
- 4  Save.

- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

! NOTE

- ▶ If you do not finish the set-up Installation Guide by pressing **BACK** or if you time out on the OSD (On Screen Display) the installation menu will continuously appear until the set up is completed whenever the TV is switched on.
- ▶ If you select the wrong local country, teletext may not appear correctly on the screen and some problems may occur during teletext operation.
- ▶ DTV mode control buttons may not function based on country broadcasting circumstances.
- ▶ In country that Digital broadcasting regulation isn't fixed, some DTV function may not work depending on digital broadcasting circumstances.

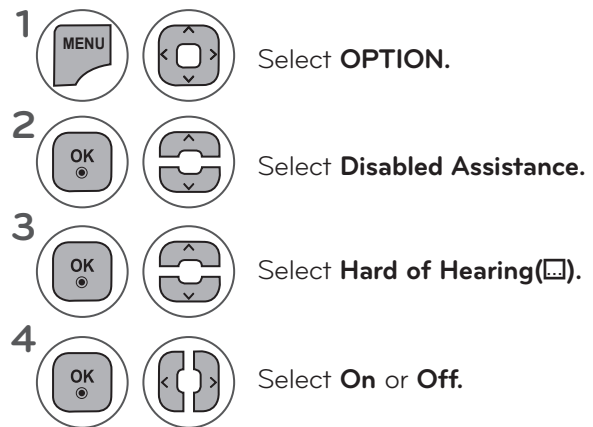
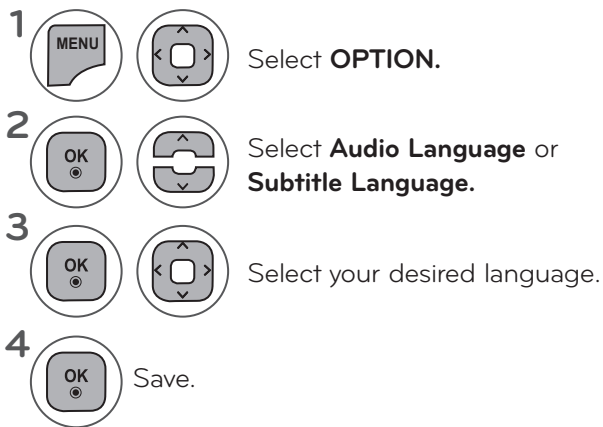
LANGUAGE SELECTION (IN DIGITAL MODE ONLY)

The Audio function allows selection of a preferred language.

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

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

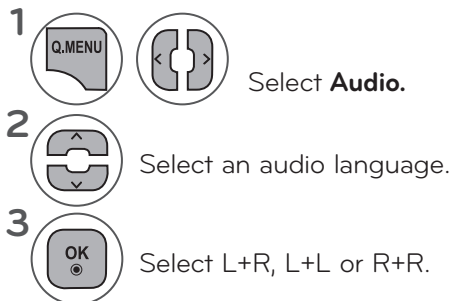
When the languages you selected as the primary for Audio Language and Subtitle Language are not supported, you can select language in secondary category.



- Press the **BACK** button to move to the previous menu screen.

< Audio Language Selection >

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



< Subtitle Language Selection >

▶ When two or more subtitle languages are broadcast, you can select the subtitle language with the **SUBTITLE** button on the remote control.

▶ Press the **^** **v** button to select a subtitle language.

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

Audio Language OSD Information

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

Subtitle Language OSD Information

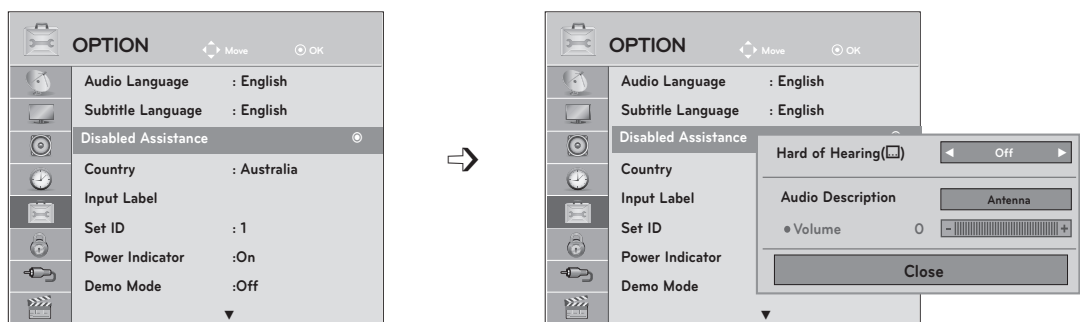
Display	Status
N.A	Not Available
Teletext	Teletext Subtitle
Hearing Impaired	Subtitle for "Hard of Hearing"









OPTION SETTING

AUDIO DESCRIPTION (IN DIGITAL MODE ONLY)





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

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



- 1   Select **OPTION**.
- 2   Select **Disabled Assistance**.
- 3   Select **Audio Description**.
- 4   Select **On** or **Off**.

Adjustment for Audio Description Volume With selecting On

- 5   Select **Volume**.
- 6   Make desired adjustment.

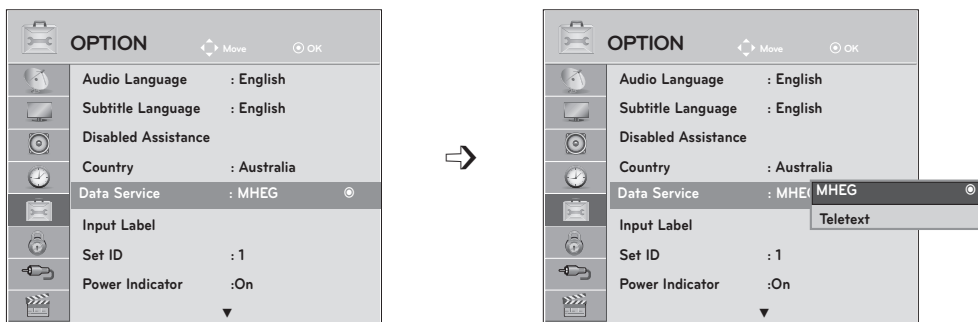
- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.








DATA SERVICE

(This menu is enabled only in South Africa.)

This function allow users to choose between **MHEG (Digital Teletext)** and **Teletext** if both exist at the same time.

If only one of them exists, either **MHEG** or **Teletext** is enabled regardless of which option you selected.



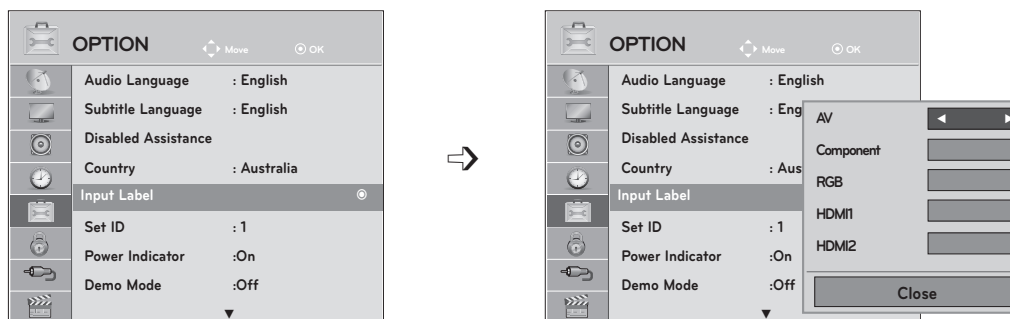
- 1   Select **OPTION**.
- 2   Select **Data Service**.
- 3   Select **MHEG** or **Teletext**.
- 4  Save.

- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

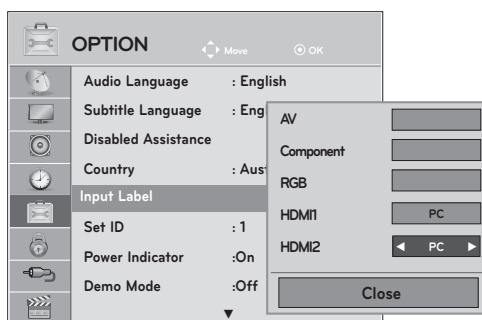
OPTION SETTING








INPUT LABEL

Selects a label for each input source.



If you want to use HDMI-PC mode, you must set the input label to PC mode.
(Refer to the below figure)



- 1   Select **OPTION**.
- 2   Select **Input Label**.
- 3   Select the source.
- 4  Select the label.

- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

POWER INDICATOR

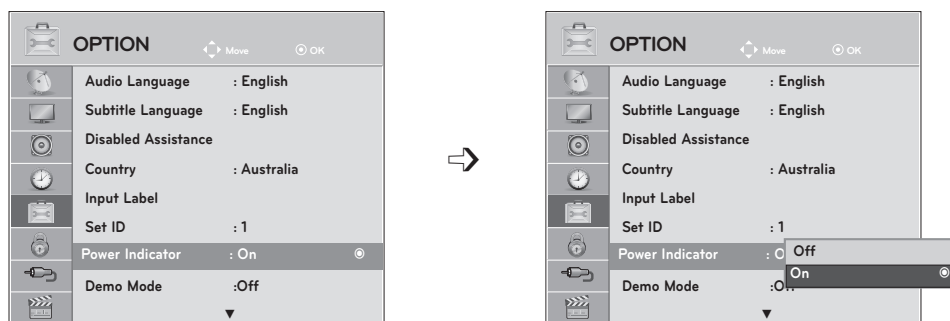
Select the power indicator on or off.








Power indicator On

- Normal Mode: Blue LED On.
- Off Mode: LED Off

Power indicator Off

- Normal Mode: Blue LED Off.
- Off Mode: LED Off



- 1   Select **OPTION**.
- 2   Select **Power Indicator**.
- 3   Select **On** or **Off**.
- 4 

- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

OPTION SETTING

DEMO MODE

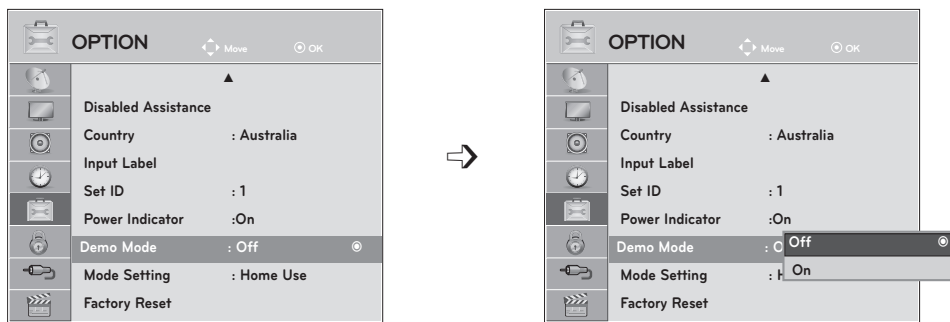
Display the slide show to explain the various logo of this Monitor set.








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**.



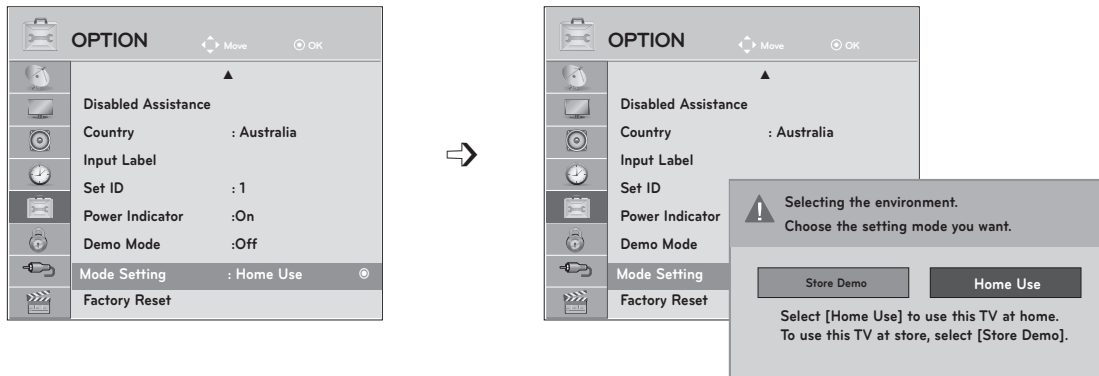
-   Select **OPTION**.
-   Select **Demo Mode**.
-   Select **On** to show the various logo of Monitor set.
-  Return to Monitor set viewing.
If you want to stop the demo, press any button. (Except for MUTE, \triangleleft + , - button)








- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

MODE SETTING

We recommend setting the Monitor set to **"Home Use"** mode for the best picture in your home environment.

"Store Demo" mode is an optimal setting for displaying at stores..



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

- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

OPTION SETTING

INITIALIZING(RESET TO ORIGINAL FACTORY SETTINGS)

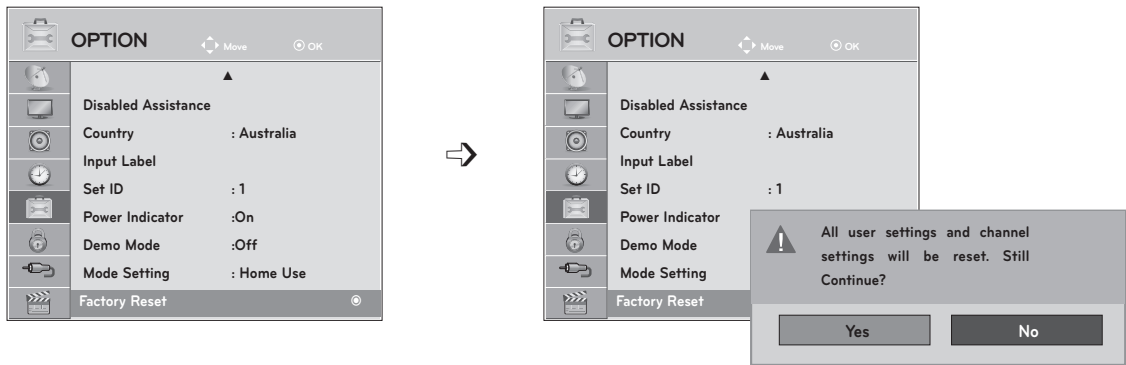
This function initializes all settings.








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

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

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

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



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

• In **Lock System "On"**, if you forget your password, press '0', '3', '2', '5' on the remote control handset.

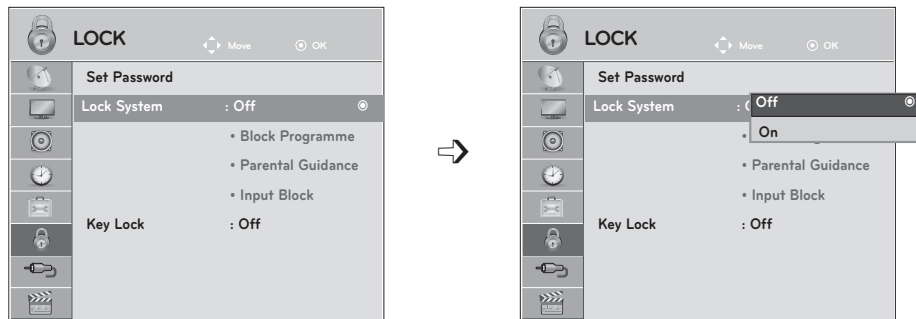
- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.











PARENTAL CONTROL / RATINGS

SET PASSWORD & LOCK SYSTEM

Enter the password, press '0', '0', '0', '0' on the remote control handset.

If a channel is locked, enter the password to unlock it temporarily.



-   Select **LOCK**.
-   Select **Lock System**.
-   Select **On**.
-    Set the password.
-  Input a 4-digit password.
Be sure to remember this number!
Re-enter new password for confirm.

- If you forget your password, press '0', '3', '2', '5' on the remote control handset.

- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

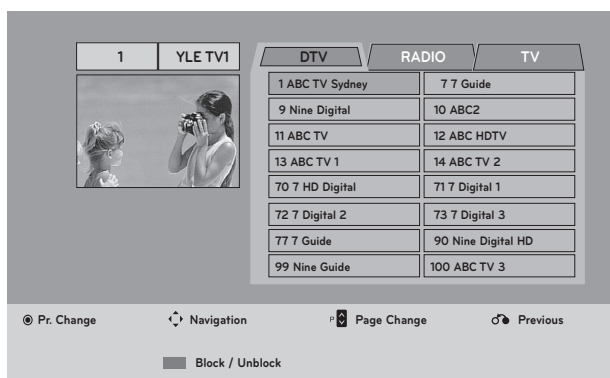
PARENTAL CONTROL / RATINGS








BLOCK PROGRAMME

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

This function is available in **Lock System "On"**.

Enter a password to watch a blocked programme.



- 1   Select **LOCK**.
- 2   Select **Block Programme**.
- 3  Enter the **Block Programme**.
- 4   Select a programme to be locked.

- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

PARENTAL CONTROL (IN DIGITAL MODE ONLY)

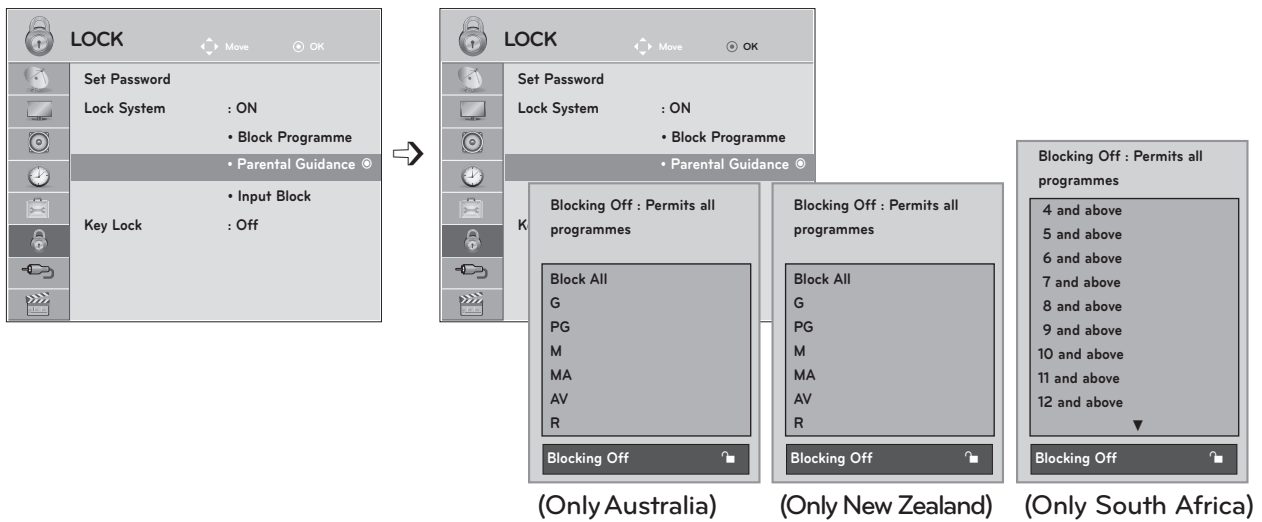
This function operates according to information from the broadcasting station. Therefore if the signal has incorrect information, this function does not operate.








A password is required to gain access to this menu.

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

Prevents children from watching certain adult's TV programmes, according to the ratings limit set.

Enter a password to watch a blocked programme.



- 1   Select **LOCK**.
- 2   Select **Parental Guidance**.
- 3   Make appropriate adjustments.
- 4  Save

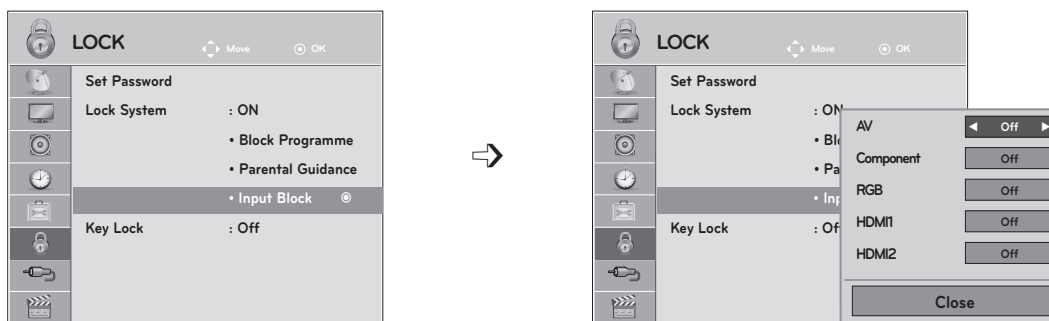
- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.










PARENTAL CONTROL / RATINGS

INPUT BLOCK

Enables you to block an input.

It is available to use this function in **Lock System "On"**.

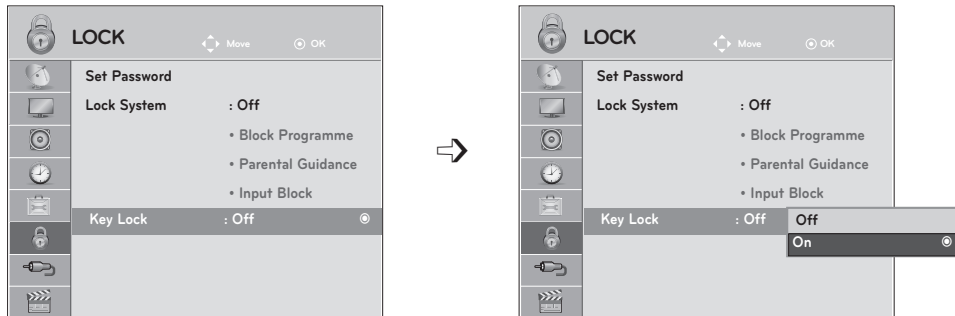









- 1   Select **LOCK**.
- 2   Select **Input Block**.
- 3   Select input source.
- 4   Select **On** or **Off**.
- 5  Save

- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

KEY LOCK

The Monitor set can be set so that the remote control is required to control it. This feature can be used to prevent unauthorized viewing.



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

- In **Key Lock 'On'**, if the Monitor set is turned off, press the **INPUT, P ^** or **∨** button on the Monitor set or **POWER, INPUT, P ^ ∨, TV/PC** or **NUMBER** buttons on the remote control then the set will be turned on.
- With the **Key Lock On**, the display '**▲ Key Lock On**' appears on the screen if any button on the front panel is pressed while viewing the Monitor set.

- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

TO USE A USB DEVICE

WHEN CONNECTING A USB DEVICE

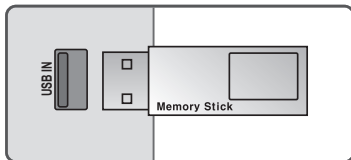
When you connect a USB device, this pop up menu is displayed, automatically.

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

When the Pop Up menu does not appear, you can select **Music List**, **Photo List** or **Movie List** in the USB menu.

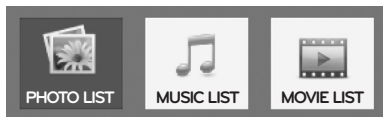
In USB device, you can not add a new folder or delete the existing folder.

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



- Only photo(JPEG), music (MP3) and movie (DAT, MPG, MPEG, VOB, AVI, DIVX, MP4, MKV, TS, TRP, TP) are supported.

- 2 Select **PHOTO LIST**, **MUSIC LIST** or **MOVIE LIST**






- 3



When removing the USB device

Select the USB Device menu before removing the USB device.

- 1   Select **USB Device**.
- 2  Select **Eject**.

Precautions when using the USB device

- ▶ Only a USB storage device is recognizable.
- ▶ If the USB storage device is connected through a USB hub, the device is not recognizable.
- ▶ A USB storage device using an automatic recognition programme may not be recognized.
- ▶ A USB storage device which uses its own driver may not be recognized.
- ▶ The recognition speed of a USB storage device may depend on each device.
- ▶ Please do not turn off the Monitor set or unplug the USB device when the connected USB storage device is working. When such device is suddenly separated or unplugged, the stored files or the USB storage device may be damaged.
- ▶ Please do not connect the USB storage device which was artificially maneuvered on the PC. The device may cause the product to malfunction or fail to be played. Never forget to use only a USB storage device which has normal music files, image files or movie files.
- ▶ Please use only a USB storage device which was formatted as a FAT, FAT16, FAT32, 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.
- ▶ If the file system of a USB storage is not FAT systems, the HD movies are abnormally played sometime.
- ▶ 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.
- ▶ Data in a USB storage device cannot be deleted in the NTFS file system.
- ▶ If your USB memory device has multiple partitions, or if you use a USB multi-card reader, you can use up to 4 partitions or USB memory devices.
- ▶ Only the FAT, FAT16, FAT32 file system supports the delete function.
- ▶ If a USB memory device is connected to a USB multi-card reader, its volume data may not be detected.
- ▶ If the USB memory device does not work properly, disconnect and reconnect it.
- ▶ How fast a USB memory device is detected differs from device to device.
- ▶ If the USB is connected in Standby Mode, specific hard disk will automatically be loaded when the Monitor set 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.
- ▶ When a broken file is played in the USB storage, the Monitor set may turn off or work abnormally.

TO USE A USB DEVICE

PHOTO LIST

You can view photo files on USB storage device.

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

When you are watching the photo by the Photo List function, you can not change the picture mode.

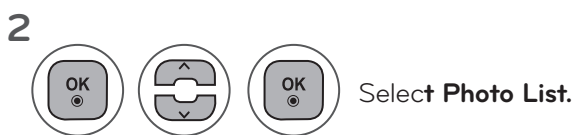
PHOTO(*.JPEG) supporting file

Baseline : 64 x 64 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.

Screen Components



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

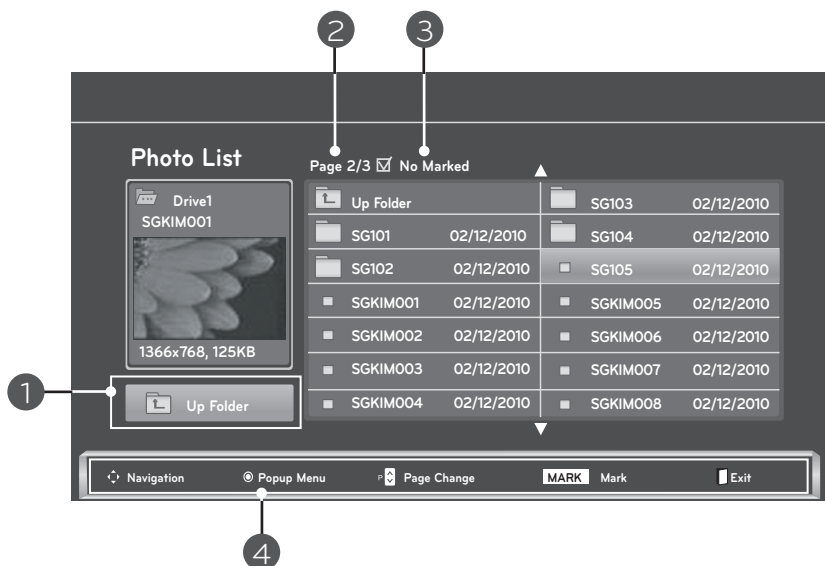
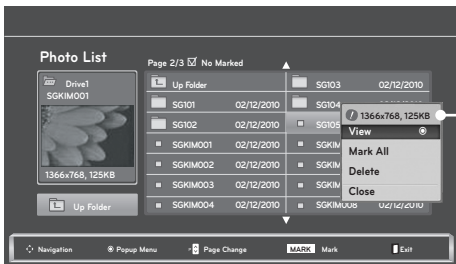
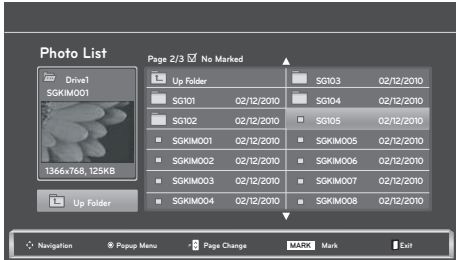








Photo Selection and PopUp Menu



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

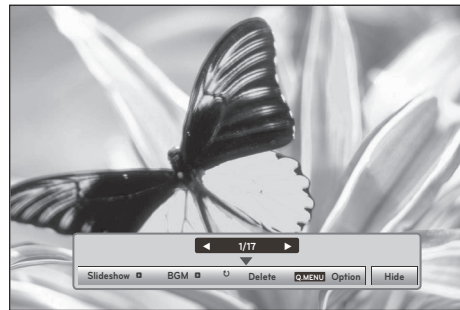
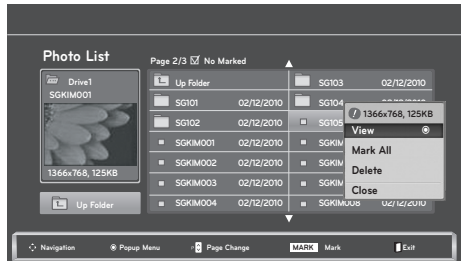
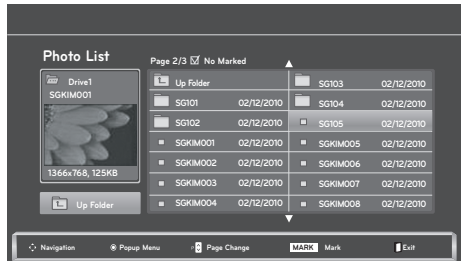
- 1  Select the target folder or drive.
- 2   Select the desired photos.
- 3  Show the **PopUp** menu.
- 4   Select the desired **PopUp** menu.

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

- Press the **BACK** button to move to the previous menu screen.

TO USE A USB DEVICE

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

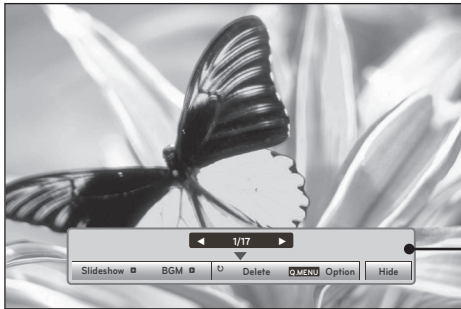


The aspect ratio of a photo may change the size of the photo displayed on the screen in full size.
Press the **BACK** button to move to the previous menu screen.

- 1 Select the target folder or drive.
- 2 Select the desired photos.
- 3 Show the **PopUp** menu.
- 4 Select **View**.
- 5 The selected photo is displayed in full size.

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

- Press the **BACK** button to move to the previous menu screen.



6



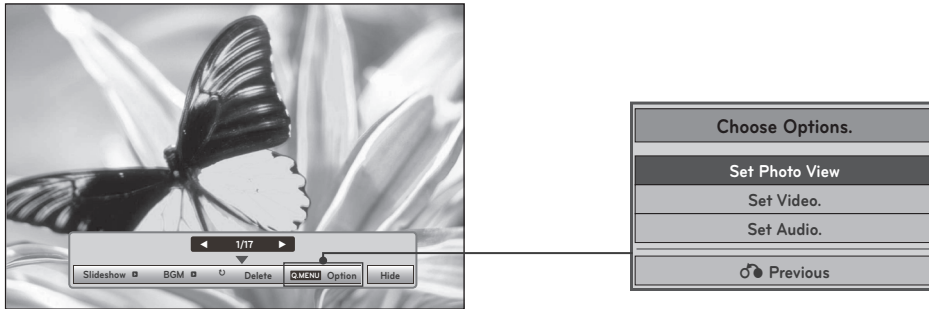
Select the **Slideshow** , **BGM**, **⌚** (**Rotate**), **Delete** , **Option** or **Hide**.

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

- ▶ **Slideshow** : When no picture is selected, all photos in the current folder are displayed during slide show. If some photos are selected, those photos are displayed in a slide show.
 - Set the time interval of the slide show in **Option**.
- ▶ **BGM (Background Music)**: Listen to music while viewing photos in full size.
 - Set the Music Folder for **BGM** in Options before using this function.
- ▶ **⌚ (Rotate)**: Rotate photos.
 - Rotates the photo 90°, 180°, 270°, 360° clockwise.
 - It can not be rotate when the width of a picture is bigger than supported height.
- ▶ **Delete**: Delete photos.
- ▶ **Option**: Set values for **Slide Speed** and **Music Folder** for **BGM**.
 - Use ^ v < > button and **OK** button to set values. Press **OK** to save the settings.
 - You cannot change **Music Folder** while **BGM** is **playing**.
- ▶ **Hide**: Hide the menu on the full-sized screen.
 - To see the menu again on the full-sized screen, press **OK** button to display.

TO USE A USB DEVICE

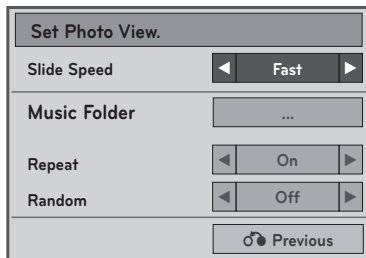
Using the Photo List function





1  Show the **PopUp** menu.

2   Select **Set Photo View**, **Set Video** or **Set Audio**.

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

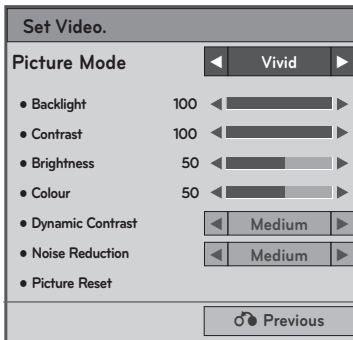


1  Show the **Slide Speed** or **Music Folder**.

2   Make appropriate adjustments.

- When "**Off**" is selected in **Repeat** menu, replay will stop once the last file in the list finishes playing. But, when "▶▶" button is pressed while the last fine in the list is in the middle of replay and "**Repeat**" is in "**Off**" position, the first file in the list will be played and "**Repeat**" menu will be activated.

▶ When you select the **Set Video**,

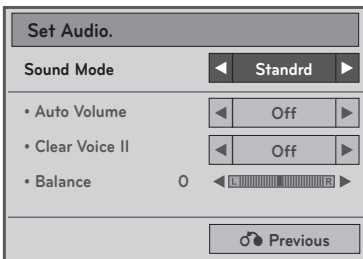


1



Make appropriate adjustments.(Refer to p. 61, 64, 65)

▶ When you select the **Set Audio**,



1



Show the **Sound Mode, Auto Volume, Clear Voice II, Balance**.

2



Make appropriate adjustments. (Refer to p. 71 to 75)

TO USE A USB DEVICE

MUSIC LIST

You can play music files on USB storage device.

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

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

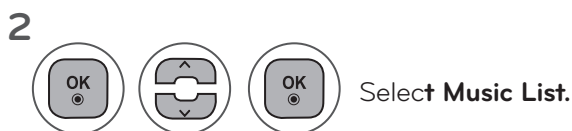
The On Screen Display may be different from your Monitor set. Images are an example to assist with the Monitor set operation.

MUSIC (*.MP3) supporting file

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

Screen Components



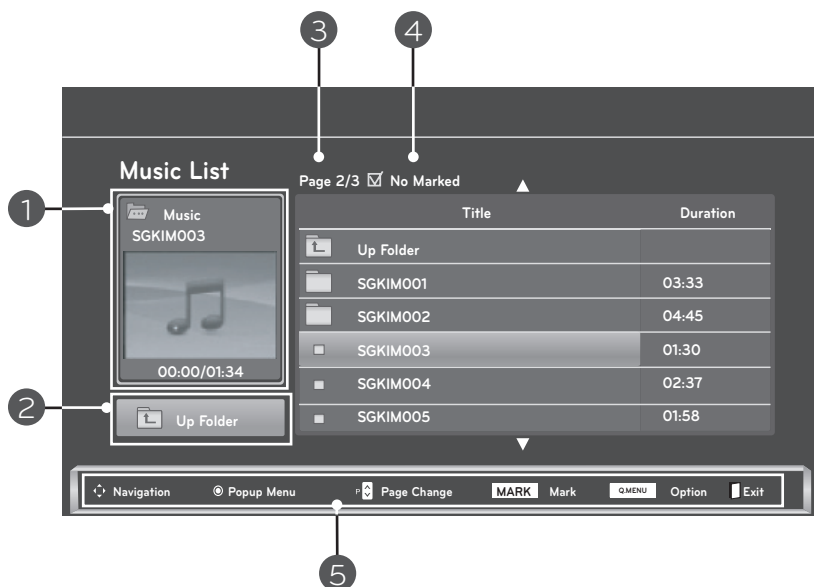
1 Preview: If any album jacket for the file (Album Art Image) exists, this jacket is displayed.

2 Moves to upper level folder.

3 Current page / Total pages.

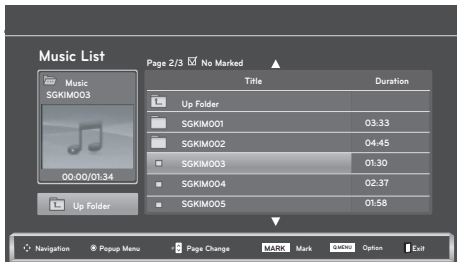
4 Total number of marked music title.

5 Corresponding buttons on the remote control.









Music Selection and PopUp Menu

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



- ▶ **Play** (During stop): Play the selected music titles. One playback of a piece of music finishes, the next selected one will be played. When there are no selected music titles to play, the next one in the current folder will be played. If you go to a different folder and press the OK button, the current music in playback will stop.
- ▶ **Play Marked:** Play the selected music titles. Once a music finishes playing, the next selected one will be played automatically.
- ▶ **Stop Play (During playback):** Stop the playing music titles.
- ▶ **Play with Photo:** Start playing the selected music titles and then move to the Photo List.
- ▶ **Mark All:** Mark all music titles in the folder.
- ▶ **Unmark All:** Deselect all marked music titles.
- ▶ **Delete or Delete Marked:** Delete the selected music titles.
- ▶ **Close:** Close the pop-up menu.

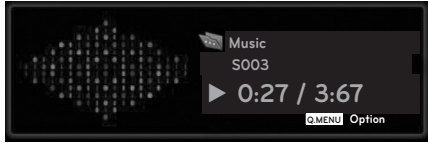
- 1  Select the target folder or drive.
- 2   Select the desired photos.
- 3  Show the **PopUp** menu.
- 4   Select the desired **PopUp** menu.

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

- Press the **BACK** button to move to the previous menu screen.

TO USE A USB DEVICE

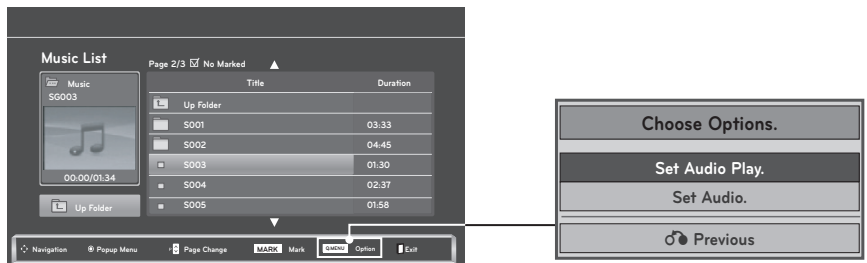
- If you don't press any button for a while during the playing, the play information box (as shown in the below) will float as a screen saver.
- The 'Screen Saver'?
Screen saver is to prevent screen pixel damage due to an fixed image remaining on the screen for a extended period of time.



! NOTE

- ▶ When a music file is played, 🎵 is displayed behind the title.
- ▶ A damaged or corrupted music does not play but displays 00:00 in playtime.
- ▶ A music downloaded from a paid service with copyright protection does not start but displays inappropriate information in playtime.
- ▶ If you press **OK**, **■** buttons, screen saver is stopped.
- ▶ The **PLAY(▶)**, **Pause(⏸)**, **■**, **▶▶**, **◀◀** 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.

Using the Music List function, play



1



Show the **PopUp** menu.



2



Select **Set Audio Play** or **Set Audio**.

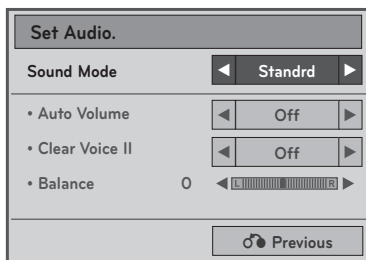
► When you select the **Set Audio Play**,





- 1  Show the **Set Audio Play**.
- 2  Make appropriate adjustments.

- When “**Off**” is selected in **Repeat** menu, replay will stop once the last file in the list finishes playing. But, when “▶▶” button is pressed while the last fine in the list is in the middle of replay and “Repeat” is in “Off” position, the first file in the list will be played and “Repeat” menu will be activated.

► When you select the **Set Audio**,



- 1  Show the **Sound Mode, Auto Volume, Clear Voice II, Balance**.
- 2  Make appropriate adjustments. (Refer to p. 71 to 75)

TO USE A USB DEVICE

MOVIE LIST

You can play movie files on a USB storage device.

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

Displays the movies in the USB folder and supports Play.

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

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

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

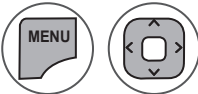
Movie(*.dat/*.mpg/*.mpeg/*.ts/*.trp/*.tp/*.vob/*.mp4/*.mkv/*.avi/*.divx) supporting file
Video format :DivX3.11, DivX4.12, DivX5.x, DivX6, Xvid1.00, Xvid1.01, Xvid1.02, Xvid1.03,
Xvid 1.10- beta-1/beta-2, Mpeg-1, Mpeg-2, Mpeg-4, H.264/AVC
Audio format: Dolby Digital, AAC, Mpeg, MP3, LPCM, HE-AAC
Bit rate: within 32 kbps to 320 kbps (MP3)
Subtitle format: *.smi/*.srt/*.sub(MicroDVD, SubViewer1.0/2.0)/*.ass/*.ssa/*.txt(TMPlayer)/*.
psb(PowerDivx).

- Some user-created subtitles may not work properly.
- Some special characters are not supported in subtitles.
- HTML tags are not supported in subtitles.
- Subtitles in languages other than the supported languages are not available.
- Time information in an external subtitle file should be arranged in ascending order to be played.
- The screen may suffer temporary interruptions (image stoppage, faster playback, etc.) when the audio language is changed.
- A damaged movie file may not be played correctly, or some player functions may not be usable.
- Movie files produced with some encoders may not be played correctly.
- If the video and audio structure of recorded file is not interleaved, either video or audio is outputted.
- HD videos with a maximum of 1920 x 1080 @ 25/30P or 1280 x 720 @ 50/60P are supported, depending on the frame.
- Videos with resolutions higher than 1920 x 1080 @ 25/30P or 1280 x 720 @ 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.**
- We do not guarantee smooth playback of profiles encoded level 4.1 or higher in H.264/AVC.
- DTS Audio codec is not supported.
- A movie file more than 30GB in file size is not supported for playback.
- A DivX movie file and its subtitle file must be located in the same folder.
- A video file name and its subtitle file name must be identical for it to be displayed.
- Playing a video via a USB connection that doesn't support high speed may not work properly..
- Files encoded with GMC (Global Motion Compensation) may not be played.
- When you are watching the movie by Movie List function, you can adjust an image by **Energy Saving** key on the remote control. User setup for each image mode does not operate.

Extension name \ File	Video Decoder	Audio Codec	Max Resolution
mpeg, vob	MPEG1, MPEG2	Dolby Digital, MPEG, MP3, LPCM	1920 x 1080 @ 30p
dat	MPEG1	Dolby Digital, MPEG, MP3, LPCM	
ts,trp,tp	MPEG2, H.264/AVC	Dolby Digital, AAC, MPEG	
mp4	MPEG4 SP, MPEG4 ASP, Divx 3.11, Divx 4.12, Divx 5.x, Divx 6, Xvid 1.00, Xvid 1.01, Xvid 1.02, Xvid 1.03, Xvid 1.10-beta 1, Xvid 1.10-beta 2, H.264/AVC	Dolby Digital, HE-AAC, AAC, MPEG, MP3, LPCM	
avi	MPEG 2, MPEG 4 SP, MPEG4 ASP, Divx 3.11, Divx 4, Divx 5, Divx 6, Xvid 1.00, Xvid 1.01, Xvid 1.02, Xvid 1.03, Xvid 1.10-beta 1, Xvid 1.10-beta 2, H.264/AVC	Dolby Digital, HE-AAC, AAC, MPEG, MP3, LPCM	
mkv	H.264/AVC, MPEG 1, MPEG 2, MPEG 4 SP, MPEG4 ASP	Dolby Digital, HE-AAC, AAC, MPEG, MP3, LPCM	
divx	MPEG 2, MPEG 4 SP, MPEG4 ASP, Divx 3.11, Divx 4, Divx 5, Divx 6, Xvid 1.00, Xvid 1.01, Xvid 1.02, Xvid 1.03, Xvid 1.10-beta 1, Xvid 1.10-beta 2, H.264/AVC	Dolby Digital, HE-AAC, AAC, MPEG, MP3, LPCM	


Screen Components

1



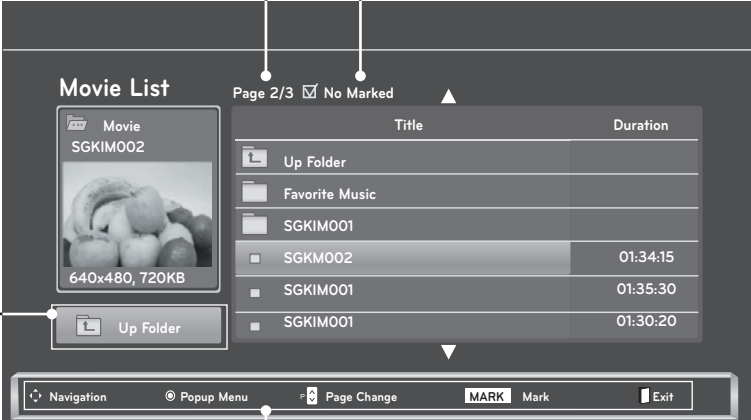
Select **USB**.

2



Select **Movie List**.

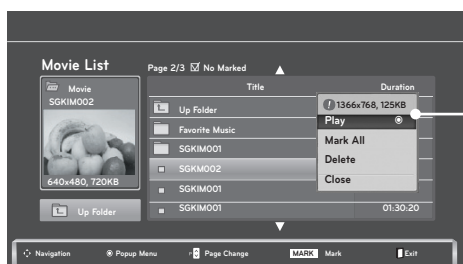
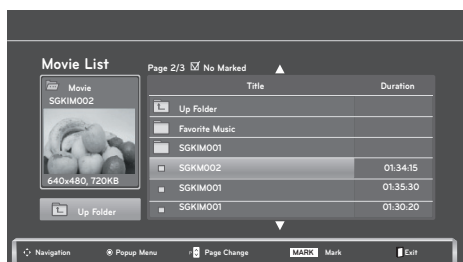
- ① Moves to upper level folder.
- ② Current page/Total pages.
- ③ Total number of marked movie title.
- ④ Corresponding buttons on the remote control.









The screenshot shows a 'Movie List' interface. At the top, it says 'Page 2/3' and 'No Marked'. Below this is a table with columns 'Title' and 'Duration'. The table lists several items, including 'Up Folder', 'Favorite Music', and several 'SGKIM' files. A 'MARK' button is visible at the bottom right of the screen. Callout 1 points to the 'Up Folder' button, callout 2 points to the 'Page 2/3' indicator, callout 3 points to the 'No Marked' indicator, and callout 4 points to the 'MARK' button.

TO USE A USB DEVICE

Movie Selection and PopUp Menu



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

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

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

- Press the **BACK** button to move to the previous menu screen.

! NOTE

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

Using the Movie List function, play

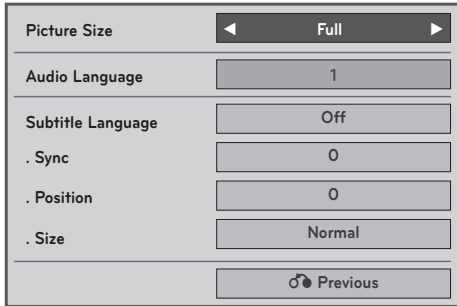


1  Show the **PopUp** menu.

2   Select **Set Video Play**, **Set Video** or **Set Audio**.

TO USE A USB DEVICE

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



- **Picture Size:** Selects your desired picture format during movie play.
- **Audio Language & Subtitle Language:** Changes the Language Group of the audio/subtitle during movie play.
- **Sync:** Adjusts the time synchronization 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.

1



Show the **Picture Size, Audio Language** or **Subtitle Language**.

2

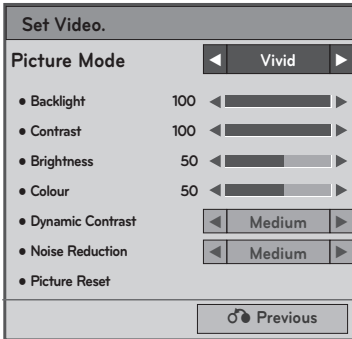



Make appropriate adjustments.

! NOTE

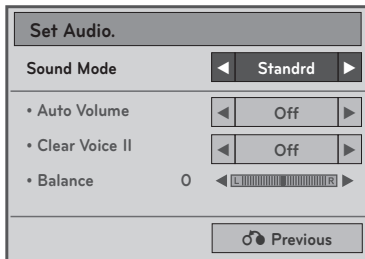
- In New Zealand the only language supported for subtitles is English.




► When you select the **Set Video**,



-
- 1  Make appropriate adjustments. (Refer to p. 61, 64, 65)






► When you select the **Set Audio**.



-
- 1  Show the **Sound Mode, Auto Volume, Clear Voice II, Balance**.
- 2   Make appropriate adjustments. (Refer to p. 71 to 75)

TO USE A USB DEVICE

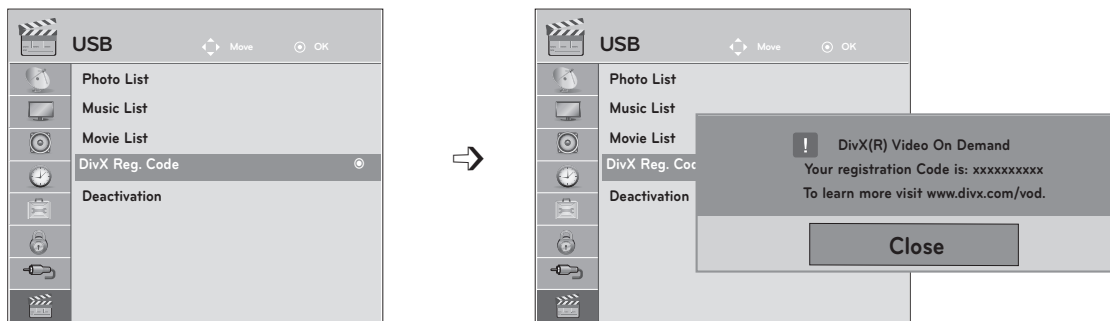
Using the remote control






	<p>When playing, repeatedly, press the REW(◀◀) button to speed up ◀◀(x2) → ◀◀◀◀ (x4) → ◀◀◀◀◀◀ (x8) → ◀◀◀◀◀◀◀◀ (x16) → ◀◀◀◀◀◀◀◀◀ (x32) .</p> <p>repeatedly, press the FF(▶▶) button to speed up ▶▶(x2) → ▶▶▶▶ (x4) → ▶▶▶▶▶▶ (x8) → ▶▶▶▶▶▶▶▶ (x16) → ▶▶▶▶▶▶▶▶▶▶ (x32).</p> <ul style="list-style-type: none"> ■ Pressing these buttons repeatedly increases the fast forward/reverse speed.
	<p>During playback, press the Pause () button.</p> <ul style="list-style-type: none"> ■ Still screen is displayed. ■ If no buttons are pressed on the remote control for 10 minutes after pausing, the TV returns to the playback state. ■ Press the Pause () button and then use the FF (▶▶) button for slow motion.
	<p>When using the < or > button during playback a cursor indicating the position can be viewed on the screen.</p>
	<p>Press the Play(▶) button to return to normal playback.</p>
	<p>Press the ENERGY SAVING button repeatedly to increase the brightness of your screen. (Refer to p. 59)</p>

DIVX REGISTRATION CODE

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

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



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

- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

! NOTE

▶ Movie files are supported as follows

Resolution: under 1920x1080 WxH pixels

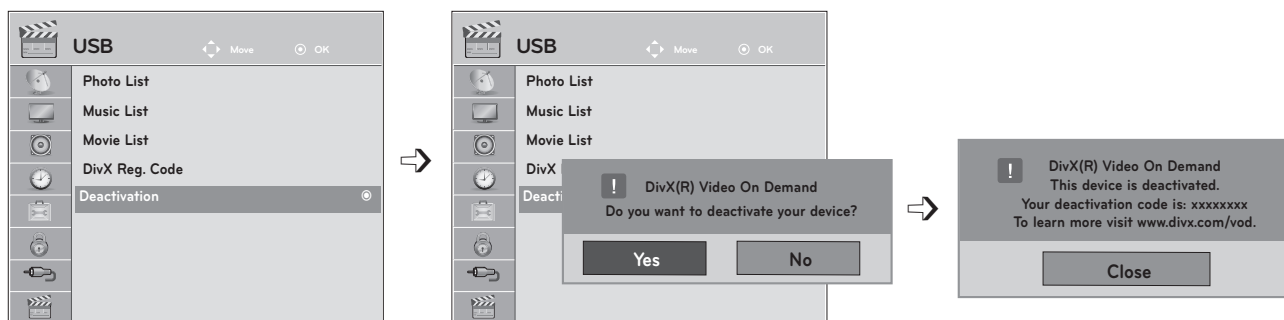
Frame rate: under 30 frames/sec(1920x1080), under 60 frames/sec(under 1280x720)








▶ **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

TO USE A USB DEVICE

DEACTIVATION

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



-   Select **USB**.
-   Select **Deactivation**.
-   Select **Yes**.
-  Display **Deactivation**.

- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

TELETEXT

* This feature is not available in all countries.

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

The teletext decoder of this set 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 or EXIT 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.

TELETEXT

FASTTEXT

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 **^ v** 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 FASTTEXT 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 **^ v** button to select the **Text Option** menu.



■ Index

Select the each index page.



■ Time

When viewing a TV programme, select this menu to display the time at the top right hand corner of the screen.

In the teletext mode, press this button to select a sub page number. The sub page number is displayed at the bottom of the screen. To hold or change the sub page, press the RED/GREEN, < > or **NUMBER** buttons.



■ Hold

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



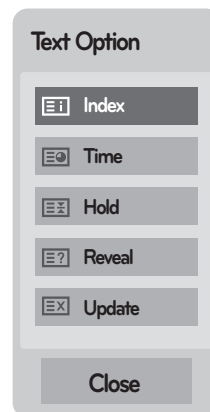
■ Reveal

Select this menu to display concealed information, such as solutions to riddles or puzzles.



■ Update

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



DIGITAL TELETEXT

* This feature is not available in all countries.

The TV gives you access to digital teletext which is greatly improved in various aspects such as text, graphics etc.

This digital teletext can access special digital teletext services and specific services which broadcast digital teletext.

You should select off in the subtitle language menu to display teletext by pressing the **SUBTITLE** button.

TELETEXT WITHIN DIGITAL SERVICE

- 1 Press the numeric or **P ^ v** 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, ^ v < > , RED, GREEN, YELLOW, BLUE** or **NUMBER** buttons and etc.
- 3 To change digital teletext service, select a different service by the numeric or **P ^ v** button.



TELETEXT IN DIGITAL SERVICE

- 1 Press the numeric or **P ^ v** 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, ^ v < > , RED, GREEN, YELLOW, BLUE** or **NUMBER** buttons and so on.
- 4 Press the **TEXT** or colour button to switch off digital teletext and return to **TV** viewing.

Some services may allow you to access text services by pressing the **RED** button.




APPENDIX

TROUBLESHOOTING

The operation does not work normally.	
The remote control doesn't work	<ul style="list-style-type: none"> ■ Check to see if there is any object between the product and the remote control causing ■ obstruction. Ensure you are pointing the remote control directly at the set. ■ Ensure that the batteries are installed with correct polarity (+ to +, - to -). ■ Ensure that the correct remote operating mode is set: TV, VCR, etc. ■ Install new batteries.
Power is suddenly turned off	<ul style="list-style-type: none"> ■ Is the sleep timer set? ■ Check the power control settings. Power interrupted. ■ If the Monitor set is switched on and there is no input signal, it will switch off automatically after 15 minutes to save the power consumption. ■ When a broken file was played in the USB mode, the Monitor set may turn off. Please check the file in your usb storage. ■ Except the screen off mode of the energy saving menu.

The video function does not work.	
No picture & No sound	<ul style="list-style-type: none"> ■ Check whether the product is turned on. ■ Try another channel. The problem may be with the broadcast. ■ Is the power cord inserted into wall power outlet? ■ Check your antenna direction and/or location. ■ Test the wall power outlet, plug another product's power cord into the outlet where the product's power cord was plugged in.
Picture appears slowly after switching on	<ul style="list-style-type: none"> ■ This is normal, the image is muted during the product startup process. Please contact your service centre, if the picture has not appeared after five minutes.
No color, poor colour, or poor picture	<ul style="list-style-type: none"> ■ Adjust Colour in menu option. ■ Keep a sufficient distance between the product and the VCR. ■ Try another channel. The problem may be with the broadcast. ■ Are the video cables installed properly? ■ Activate any function to restore the brightness of the picture.
Horizontal/vertical bars or picture shaking	<ul style="list-style-type: none"> ■ Check for local interference such as an electrical appliance or power tool.
Poor reception on some channels	<ul style="list-style-type: none"> ■ Station or cable product experiencing problems, tune to another station. ■ Station signal is weak, reorient antenna to receive weaker station. ■ Check for sources of possible interference.
Lines or streaks in pictures	<ul style="list-style-type: none"> ■ Check antenna (Change the direction of the antenna).
No picture when connecting HDMI	<ul style="list-style-type: none"> ■ If an HDMI cable doesn't support High Speed HDMI, it can cause flickers or no screen display. In this case, use the latest cables that support High Speed HDMI.

The audio function does not work.

Picture OK & No sound	<ul style="list-style-type: none"> ■ Press the  + or - button. ■ Sound muted? Press MUTE button. ■ Try another channel. The problem may be with the broadcast. ■ Are the audio cables installed properly?
No output from one of the speakers	<ul style="list-style-type: none"> ■ Adjust Balance in menu option.
Unusual sound from inside the product	<ul style="list-style-type: none"> ■ A change in ambient humidity or temperature may result in an unusual noise when the product is turned on or off and does not indicate a problem with the product.
No sound when connecting HDMI or USB	<ul style="list-style-type: none"> ■ Check HDMI cable is High Speed HDMI Cable. ■ Check USB cable over version 2.0. ■ If the sound is abnormal in the HDMI, check the audio format in your external equipments. <ul style="list-style-type: none"> ▶ HDMI Audio supported format : Dolby Digital, PCM ▶ DTS Audio format is not supported

There is a problem with PICTURE settings.

When the user changes the picture settings, the TV automatically converts back to the initial settings after a certain period of time.	<ul style="list-style-type: none"> ■ It means that the Monitor set is currently set to Store Demo mode. To switch to Home use mode you should do the followings: From the Monitor set Menu, OPTION → Mode Setting → Home use. Now, you have completed switching to the Home use mode.
--	---

Only PC mode applied

No image is displayed.

Power is on, power indicator is blue but the screen appears extremely dark.	<ul style="list-style-type: none"> ■ Adjust brightness and contrast again.
Does the 'Invalid format' message appear?	<ul style="list-style-type: none"> ■ The signal from the PC (Video card) is out of the vertical or horizontal frequency range of the product. Adjust the frequency range by referring to the Specifications in this user's guide.
Does the 'Check signal cable' message appear?	<ul style="list-style-type: none"> ■ The signal cable between PC and product is not connected. Check the signal cable. ■ Press the 'INPUT' button in the remote control to check the input signal.

APPENDIX

'Unknown Product' message appears when the product is connected.	
Did you install the driver?	<ul style="list-style-type: none"> ■ Install the product driver, which is provided with the product, or download it from the web site. (http://www.lg.com) ■ See if the plug & play function is supported by referring to the video card user's guide.
After-image appears on the product.	
After-image appears when the product is turned off.	<ul style="list-style-type: none"> ■ If you use a fixed image for a long time, the pixels may be damaged quickly. Use the screen saver function.
Screen color is abnormal.	
Screen has poor color resolution (16_colors).	<ul style="list-style-type: none"> ■ Set screen color resolution to more than 24 bits (true color) Select control Panel - Display - Settings - Colour Table menu in Windows.
Screen color is unstable or mono color.	<ul style="list-style-type: none"> ■ Check the connection status of the signal cable.
Do back spots appear on the screen?	<ul style="list-style-type: none"> ■ Several pixels (red, green, white or black color) may appear on the screen, which can be attributable to the unique characteristics of the LCD panel. It is not a malfunction of the LCD.
The screen image looks abnormal.	
Is the screen position wrong?	<ul style="list-style-type: none"> ■ Adjust the Position menu in OSD. ■ A See if the video card resolution and frequency are supported by the product. If the frequency is out of range, set to the recommended resolution in the Control Panel-Display-Setting menu.
Do thin lines appear on the background screen?	<ul style="list-style-type: none"> ■ Adjust the Clock menu in OSD.
Horizontal noise appears or the characters look blurred.	<ul style="list-style-type: none"> ■ Adjust the Phase menu in OSD.

MAINTENANCE

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

Cleaning the Screen

- 1 A good way to keep the dust off your screen for a while is to wet a soft cloth in a mixture of lukewarm water and a little fabric softener or dish washing detergent. Wring the cloth until it is almost dry, and then use it to wipe the screen.
- 2 Ensure there is no excess water on the screen. Allow any water or dampness to evaporate before switching on.

Cleaning the Cabinet

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

Extended Absence

WARNING

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

APPENDIX

PRODUCT SPECIFICATIONS

M2380D

M2380DF

LCD Panel	Screen Type	584.2 mm Wide (23 inch) TFT (Thin Film Transistor) LCD (Liquid Crystal Display) Panel Visible diagonal size: 584.2 mm
	Pixel Pitch	0.265 mm (H) x 0.265 mm (V)
Video Signal	Max. Resolution	1920 x 1080 @ 60 Hz
	Recommended Resolution	1920 x 1080 @ 60 Hz
	Horizontal Frequency	30 kHz to 83 kHz
	Vertical Frequency	56 Hz to 75 Hz
	Synchronization Type	Separate Sync, Digital
Input Connector		TV, D-Sub Analog, PC Audio In, component, HDMI*2, CVBS
Power	Rated Voltage	19 V $\overline{\text{---}}$ 2.4 A
	Power Consumption	On Mode : 40 W(typ.) Off Mode \leq 1 W
AC/DC Adapter		Manufacturer: LITE-ON, Model PA-1650-68
Tilt	Tilt Range	-5° to 10°
Dimensions (Width x Height x Depth) Weight	M2380D	
	547 mm x 415.7 mm x 193.8 mm 3.8 Kg	
	M2380DF	
	547 mm x 427.9 mm x 193.9 mm 4.4 kg	
Environmental conditions	Operating Temperature	10 °C to 35 °C
	Operating Humidity	20 % to 80 %
	Storage Temperature	-10 °C to 60 °C
	Storage Humidity	5 % to 90 %

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

IR CODES

• This feature is not available for all models.

Code (Hexa)	Function	Note
95	Energy Saving	R/C BUTTON
08	POWER	R/C BUTTON (POWER ON/OFF)
50	TV / PC	R/C BUTTON
0B	INPUT	R/C BUTTON
79	RATIO	R/C BUTTON
F0	TV/RAD	R/C BUTTON
45	Q.MENU	R/C BUTTON
43	MENU	R/C BUTTON
AB	GUIDE	R/C BUTTON
40	Up (▲)	R/C BUTTON
41	Down (▼)	R/C BUTTON
07	Left (<)	R/C BUTTON
06	Right (>)	R/C BUTTON
44	OK(●)	R/C BUTTON
28	BACK	R/C BUTTON
5B	EXIT	R/C BUTTON
AA		R/C BUTTON
02	 (+)	R/C BUTTON
03	 (-)	R/C BUTTON
1E	FAV (MARK)	R/C BUTTON
09	MUTE	R/C BUTTON
00	P (▲)	R/C BUTTON
01	P (▼)	R/C BUTTON
10 to 19	Number Key 0 to 9	R/C BUTTON
53	LIST	R/C BUTTON
1A	Q.VIEW	R/C BUTTON
72	RED Key	R/C BUTTON
71	GREEN Key	R/C BUTTON
63	YELLOW Key	R/C BUTTON
61	BLUE Key	R/C BUTTON
20	TEXT	R/C BUTTON
21	T.OPT (T.Option)	R/C BUTTON
39	SUBTITLE	R/C BUTTON
99	Auto Config.	R/C BUTTON
B1	■	R/C BUTTON
B0	▶	R/C BUTTON
BA		R/C BUTTON
8F	◀◀	R/C BUTTON
8E	▶▶	R/C BUTTON

APPENDIX

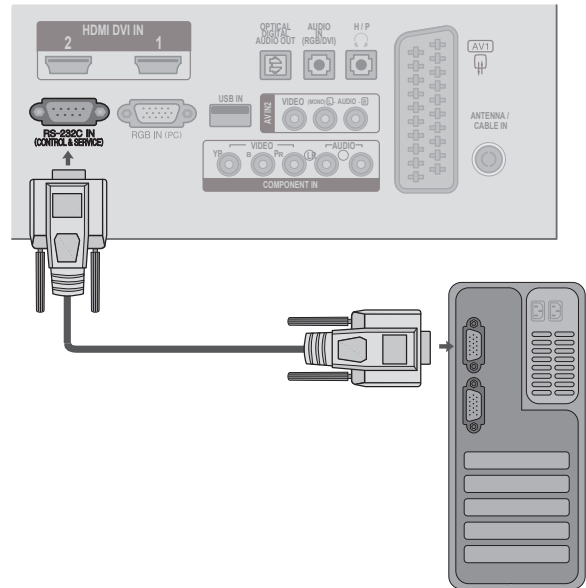
EXTERNAL CONTROL DEVICE SETUP

RS-232C Setup

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

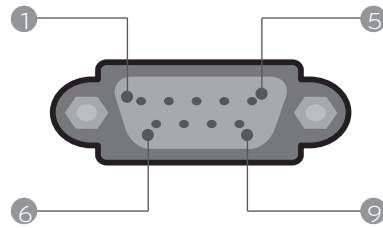
Connect the serial port of the control device to the RS-232C jack on the product back panel.

Note: RS-232C connection cables are not supplied with the product.



Type of Connector; D-Sub 9-Pin Male

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



RS-232C Configurations

7-Wire Configurations (Standard RS-232C cable)

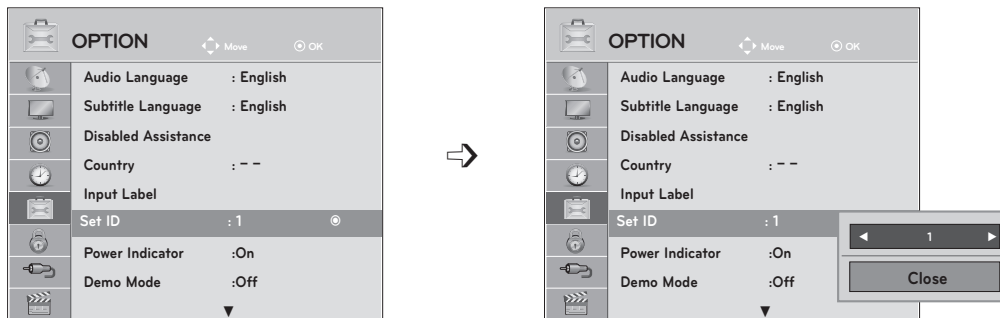
	PC	TV	
RXD	2 ● ——— ● 3		TXD
TXD	3 ● ——— ● 2		RXD
GND	5 ● ——— ● 5		GND
DTR	4 ● ——— ● 6		DSR
DSR	6 ● ——— ● 4		DTR
RTS	7 ● ——— ● 8		CTS
CTS	8 ● ——— ● 7		RTS
	D-Sub 9	D-Sub 9	








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

Use this function to specify a set ID number.
Refer to 'Real Data Mapping.' ► p.134



-   Select **OPTION**.
-    Select **Set ID**.
-   Adjust Set ID to choose the desired TV ID number.
The adjustment range of SET ID is 1 to 99.

- Press the **MENU** or **EXIT** button to close the menu window.
- Press the **BACK** button to move to the previous menu screen.

APPENDIX

Communication Parameters

- Baud rate: 9600 bps (UART)
- Data length: 8 bits
- Parity : None
- Stop bit: 1 bit
- Communication code: ASCII code
- Use a crossed (reverse) cable.

Command Reference List

	COMMAND 1	COMMAND 2	DATA (Hexadecimal)
01. Power	k	a	00 to 01
02. Aspect Ratio	k	c	Refer to p. 131
03. Screen Mute	k	d	00 to 01
04. Volume Mute	k	e	00 to 01
05. Volume Control	k	f	00 to 64
06. Contrast	k	g	00 to 64
07. Brightness	k	h	00 to 64
08. Colour	k	i	00 to 64
09. Tint	k	j	00 to 64
10. Sharpness	k	k	00 to 64
11. OSD Select	k	l	00 to 01
12. Remote control lock mode	k	m	00 to 01
13. Treble	k	r	00 to 64
14. Bass	k	s	00 to 64
15. Balance	k	t	00 to 64
16. Colour Temperature	x	u	00 to 64
17. Energy Saving	j	q	00 to 05
18. Auto Configuration	j	u	01
19. Tune Command	m	a	Refer to p. 133
20. Programme Add/Skip	m	b	00 to 01
21. Key	m	c	Key Code
22. Control Back Light	m	g	00 to 64
23. Input select (Main)	x	b	Refer to p. 134

- * When setting the 17 to 24, a menu does not appear on screen.
- * Note : During USB operations such as Dvix 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 Monitor set. (j, k, m or x)
- * [Command 2] : Second command to control the Monitor set.
- * [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]

Acknowledgement

[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 Monitor set 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
10 to 1F : Cinema Zoom 1 to 16

Acknowledgement

[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 50 Hz / 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 Analogue, AV.

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

Acknowledgement

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

- * In case of video mute on only, Monitor set will display On Screen Display(OSD). But, in case of Screen mute on, Monitor set 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)

Acknowledgement

[e][][Set ID][][OK/NG][Data][x]

05. Volume Control (Command: k f)

- ▶ To adjust volume.
You can also adjust volume with the VOLUME buttons on remote control.

Transmission

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

Data Min : 00 to Max : 64
* Refer to 'Real data mapping 1'. See page 134.

Acknowledgement

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

06. Contrast (Command: k g)

- ▶ To adjust screen contrast.
You can also adjust contrast in the PICTURE menu.

Transmission

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

Data Min : 00 to Max : 64
* Refer to 'Real data mapping 1'. See page134.

Acknowledgement

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

APPENDIX

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 1'. See page 134.

Acknowledgement

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

08. Colour (Command: k i)

- ▶ To adjust the screen colour. (Except PC mode)
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 1'. See page 134.

Acknowledgement

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

09. Tint (Command: k j)

- ▶ To adjust the screen tint. (Except PC mode)
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 1'. See page 134.

Acknowledgement

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

10. Sharpness (Command: k k)

- ▶ To adjust the screen sharpness.
You can also adjust sharpness in the PICTURE menu.

Transmission

```
[k][k][ ][Set ID][ ][Data][Cr]
```

Data Min : 00 to Max : 64

* Refer to 'Real data mapping 1'. See page 134.

Acknowledgement

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

11. OSD Select (Command: k l)

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

Transmission

```
[k][l][ ][Set ID][ ][Data][Cr]
```

Data 00 : OSD off 01 : OSD on

Acknowledgement

```
[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

Acknowledgement

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

- * If you are not using the remote control, use this mode.
When main power is on/off, external control lock is released.
- * Local Power Key will work properly.

13. Treble (Command: k r)

- ▶ To adjust treble.
You can also adjust treble in the AUDIO menu.

Transmission

```
[k][r][ ][Set ID][ ][Data][Cr]
```

Data Min : 00 to Max : 64

* Refer to 'Real data mapping 1'. See page 134.

Acknowledgement

```
[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 1'. See page 134.

Acknowledgement

```
[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 1'. See page 134.

Acknowledgement

[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

Acknowledgement

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

17. Energy Saving (Command: j q)

- ▶ To reduce the power consumption of the Monitor set. You can also adjust Energy Saving in OPTION menu.

Transmission

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

Power Saving Function					Level				Description
7	6	5	4		3	2	1	0	
0	0	0	0	Low Power	0	0	0	0	Off
0	0	0	0	Low Power	0	0	0	1	Minimum
0	0	0	0	Low Power	0	0	1	0	Medium
0	0	0	0	Low Power	0	0	1	1	Maximum
0	0	0	0	Low Power	0	1	0	1	Screen Off

Acknowledgement

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

18. Auto Configure(Command: j u)

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

Transmission

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

Data 01: To set

Acknowledgement

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

19. 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)

Acknowledgement

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

Data Min: 00 to Max: 7DH

APPENDIX

20. 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

Acknowledgement

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

* Real data mapping 1	
00 : Step 0	Tint
:	Step 0 : R50
A : Step 10 (Set ID 10)	:
:	Step 49 : R1
F : Step 15 (Set ID 15)	Step 50 : 0
10 : Step 16 (Set ID 16)	Step 51 : G1
:	:
64 : Step 100	Step 100 : G50
:	
6E : Step 110	Balance
:	Step 0 : L50
73 : Step 115	:
74 : Step 116	Step 49 : L1
:	Step 50 : 0
CF : Step 199	Step 51 : R1
:	:
FE : Step 254	Step 100 : R50
FF : Step 255	
	Colour Temperature
	Step 0 : W50
	:
	Step 49 : W1
	Step 50 : 0
	Step 51 : C1
	:
	Step 100 : C50

21. Key(Command: m c)

► To send IR remote key code.

Transmission

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

Data Key code - Refer to page 126.

Acknowledgement

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

22. Control Back Light (Command: m g)

► To Control the back light.

Transmission

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

Data : data Min: 00 to Max: 64

Acknowledgement

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

23. Input select (Command: x b) (Main Picture Input)

► To select input source for main picture.

Transmission

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

Data Structure

Data 00: DTV	40: Component
10: Analogue	60: RGB
20: AV	90: HDMI

Acknowledgement

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

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Make sure to read the Safety Precautions before using the product.
Keep the Owner's Manual (CD) in an accessible place for future reference.
The model and serial number of the SET is located on the back and one side of the SET.
Record it below should you ever need service.

MODEL _____

SERIAL _____