

User's Guide Specification

KIM JI SUK
05.04.18

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05.04.18

1. Model Description

MODEL	M32/37/42/4600C	BRAND	LG	Part No.	3828TUL310C (0504-REV00)
SUFFIX	ALUKLF	Product Name	M32/37/42/4600C		

2. Printing Specification

1. Trim Size (Format) : 160mm x 235 mm

2. Printing Colors

- Cover : 4 COLORS(CMYK)
- Inside : 1 COLOR (BLACK)

3. Stock (Paper)

- Cover : ART PAPER 150 g/m²
- Inside : Uncoated paper 80 g/m²

4. Printing Method : OFF-SET

5. Bindery : (Saddle stitch)

6. Language : English (1)

7. Number of pages : 48pages (Including blank 1pages)

3. Special Instructions

(1) Origin Notification

* LGEDI : Printed in Indonesia

* LGESP : Printed in Brazil

* LGENT : Printed in China

* LGEMA : Printed in Poland

* LGEWA : Printed in U.K.

* LGEMX : Printed in Mexico

* LGEIL : Printed in India

4. Changes

△7				
△6				
△5				
△4				
△3				
△2				
△1				
REV. NO.	MM/DD/YY	SIGNATURE	CHANGE NO.	CHANGE CONTENTS

Pagination sheet

P/NO. 3828TUL310C
Total pages : 48pages

Front cover



Front cover	English
Inside	i
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A41	Blank
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Safety Precautions

Please read these safety precautions carefully before using the product.

-  **Warning** If you ignore the warning message, you may be seriously injured or there is a possibility of accident or death.
-  **Caution** If you ignore the caution message, you may be slightly injured or the product may be damaged

● Precautions in installing the Product

Warning

- **Keep away from heat sources like electrical heaters.**
 - Electrical shock, fire, malfunction or deformation may occur.
- **Keep the packing anti-moisture material or vinyl packing out of the reach of children.**
 - Anti-moisture material is harmful if swallowed. If swallowed by mistake, force the patient to vomit and visit the nearest hospital. Additionally, vinyl packing can cause suffocation. Keep it out of the reach of children.
- **Do not put heavy objects on the product or sit upon it.**
 - If the product collapses or is dropped, you may be injured. Children must pay particular attention.
- **Do not leave the power or signal cable unattended on the pathway.**
 - The passerby can falter, which can cause electrical shock, fire, product breakdown or injury.
- **Install the product in a neat and dry place.**
 - Dust or moisture can cause electrical shock, fire or product damage.
- **If you can smell smoke or other odors or hear a strange sound unplug the power cord and contact the service center.**
 - If you continue to use without taking proper measures, electrical shock or fire can occur.
- **If you dropped the product or the case is broken, turn off the product and unplug the power cord.**
 - If you continue to use without taking proper measures, electrical shock or fire can occur. Contact the service center.
- **Do not drop metallic objects such as coins, hair pins, chopsticks or wire into the product, or inflammable objects such as paper and matches. Children must pay particular attention.**
 - Electrical shock, fire or injury can occur. If a foreign object is dropped into the product, unplug the power cord and contact the service center.

Caution

- **Make sure the product ventilation hole is not blocked. Install the product in a suitably wide place (more than 10cm from the wall)**
 - If you install the product too close to the wall, it may be deformed or fire can break out due to internal heat.
- **Do not block the ventilation hole of the product by a tablecloth or curtain.**
 - The product can be deformed or fire can break out due to overheating inside the product.
- **Install the product on a flat and stable place that has no risk of dropping the product.**
 - If the product is dropped, you may be injured or the product may be broken.
- **Install the product where no EMI occurs.**
- **Keep the product away from direct sunlight.**
 - The product can be damaged.

● Electrical Power Related Precautions

⚠ Warning

- **Make sure to connect the power cable to the grounded current.**
 - You may be electrocuted or injured.
- **Use the rated voltage only.**
 - The product can be damaged, or you may be electrocuted.
- **During a thunder or lightning storm, unplug the power cable or signal cable.**
 - You may be electrocuted or a fire can break out.
- **Do not connect several extension cords, electrical appliances or electrical heaters to a single outlet. Use a power bar with a grounding terminal designed for exclusive use with the computer.**
 - A fire can break out due to overheating.
- **Do not touch the power plug with wet hands. Additionally, if the cord pin is wet or covered with dust, dry the power plug completely or wipe dust off.**
 - You may be electrocuted due to excess moisture.
- **If you don't intend to use the product for a long time, unplug the power cable from the product.**
 - Covering dust can cause a fire, or insulation deterioration can cause electric leakage, electric shock or fire.
- **Fix the power cable completely.**
 - If the power cable is not fixed completely, a fire can break out.
- **Hold the plug when pulling out the power cable. Do not bend the power cord with excessive force or put heavy objects on the power cord.**
 - The power line can be damaged, which may cause electric shock or fire.
- **Do not insert a conductor (like a metal chopstick) into one end of the power cable while the other end is connected to the input terminal on the wall. Additionally, do not touch the power cable right after plugging into the wall input terminal.**
 - You may be electrocuted.
- **The power supply cord is used as the main disconnection device. Ensure that the socket-outlet is easily accessible after installation.**

⚠ Caution

- **Do not unplug the power cord while the product is in use.**
 - Electrical shock can damage the product.

● Precautions in Moving the Product

⚠ Warning

- **Make sure to turn off the product.**
 - You may be electrocuted or the product can be damaged.
- **Make sure to remove all cables before moving the product.**
 - You may be electrocuted or the product can be damaged.

Safety Precautions

Caution

- **Do not shock the product when moving it.**
 - You may be electrocuted or the product can be damaged
- **Do not dispose the product-packing box. Use it when you move.**
- **Make the panel face forward and hold it with both hands to move.**
 - If you drop the product, the damaged product can cause electric shock or fire. Contact with the service center for repair.

Precautions in Using the Product

Warning

- **Do not disassemble, repair or modify the product at your own discretion.**
 - Fire or electric shock accident can occur.
 - Contact the service center for check, calibration or repair.
- **Do not spray water on the product or scrub with an inflammable substance (thinner or benzene). Fire or electric shock accident can occur**
- **Keep the product away from water.**
 - Fire or electric shock accident can occur.

Caution

- **Do not put or store inflammable substances near the product.**
 - There is a danger of explosion or fire due to careless handling of the inflammable substances.
- **When cleaning the brown tube surface, unplug the power cord and scrub with soft cloth to prevent scratching. Do not clean with a wet cloth.**
 - The water can sink into the product, which can cause electric shock or serious malfunction.
- **Take a rest from time to time to protect your vision.**
- **Keep the product clean at all times.**
- **Take a comfortable and natural position when working with a product to relax the muscles.**
- **Take a regular break when working with a product for a long time.**
- **Do not press strongly upon the panel with a hand or sharp object such as nail, pencil or pen, or make a scratch on it.**
- **Keep proper distance from the product.**
 - Your vision may be impaired if you look at the product too closely.
- **Set the appropriate resolution and clock by referring to the User's Manual.**
 - Your vision can be impaired.
- **Use authorized detergent only when cleaning the product. (Do not use benzene, thinner or alcohol.)**
 - Product can be deformed.

On Disposal

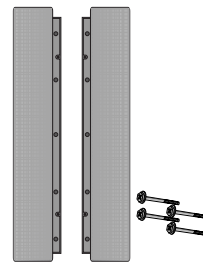
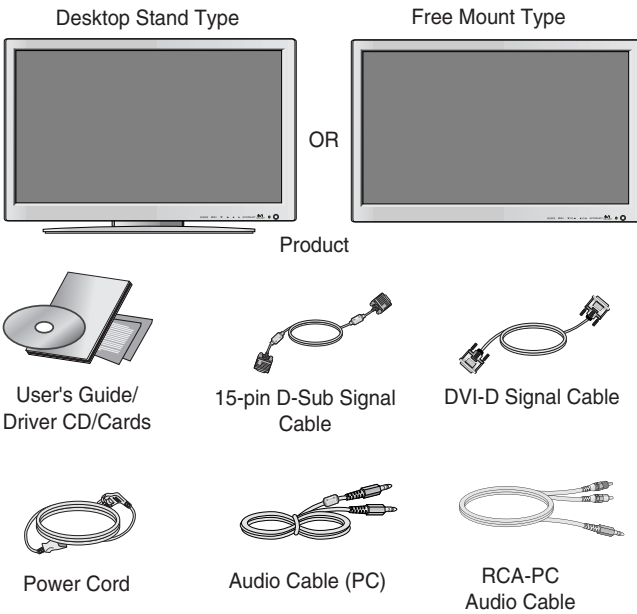
- The fluorescent lamp used in this product contains a small amount of mercury.
- Do not dispose of this product with general household waste.
 - Disposal of this product must be carried out in accordance to the regulations of your local authority.

Accessories

Please check the accessories in the product package.

* The product and the accessories can be different from the figures shown here.

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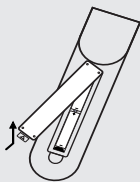


Optional

Wall-mount Rack

Please refer to the enclosed "Installation Guide" when installing the wall-mount rack.

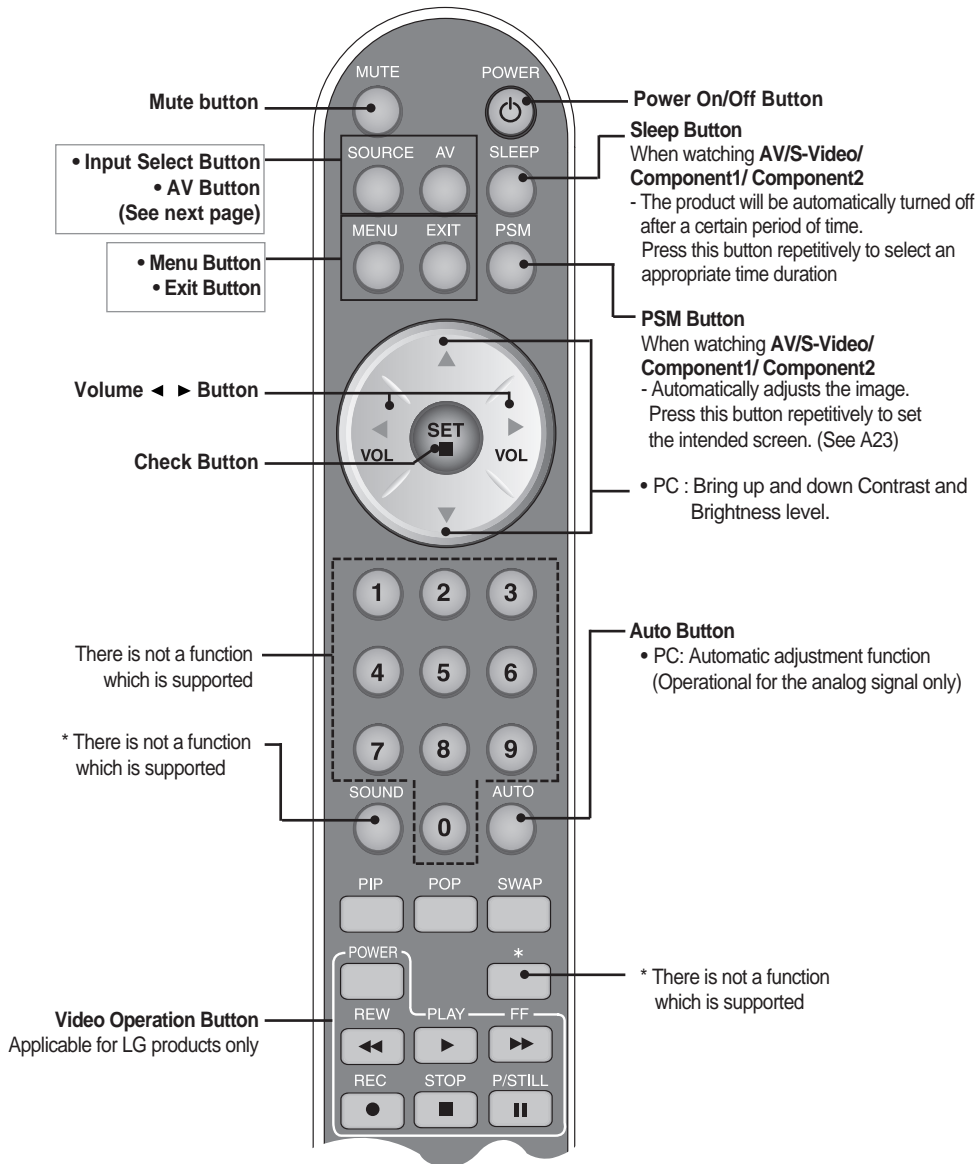
Inserting batteries into remote Control.



1. Take out the battery cap.
2. Insert batteries with correct polarity (+/-).
3. Close the battery cap.
 - You can use a remote Control 7 meter distance and 30 degree (left/right) within the receiving unit scope.
 - Dispose of used batteries in the recycle bin to prevent environmental pollution.

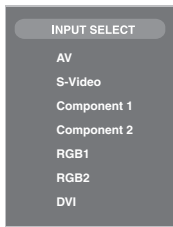
Using the Remote Control

● Name of the Remote Control Buttons



• **Input Select Button**

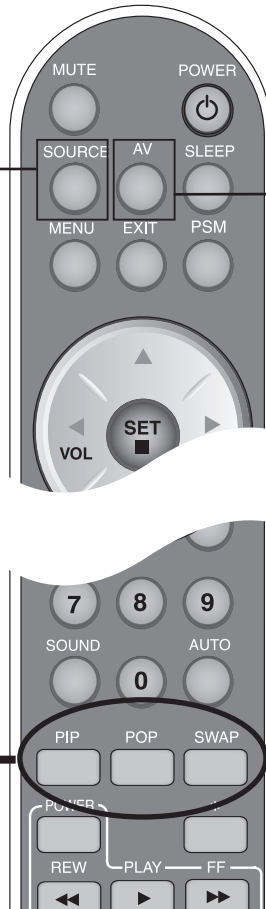
If you press the button once, the following Input Signal Window will appear. Select the signal type you want using the ▼ ▲ button.



• **AV Button**

This button will be enabled only when you selected the AV signal. The signal type will be changed with the following order. Set the signal type you want.

AV → S-Video → Component 1 → Component 2



1. PIP (Picture in Picture) Button

The sub-screen moves to the next mode whenever you press this button.
: SMALL -> MEDIUM -> LARGE -> OFF



PIP

2. POP (Picture out Picture) Button

The sub-screen moves to the next mode whenever you press this button.
: POP ON -> PBP(FULL) -> PBP(4:3) -> OFF



POP ON



PBP (FULL)



PBP (4:3)



Note

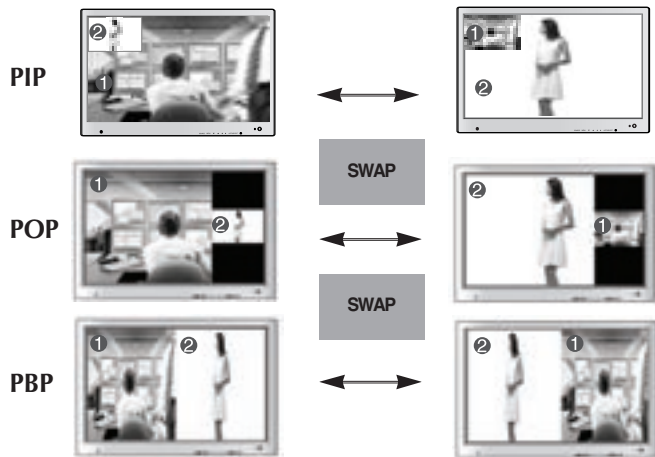
• **Case 1 / Case 2**

Different descriptions are applicable depending on the type of AV option board selected (an optional product).

Using the Remote Control

3. SWAP Button

You can swap the main screen and the sub-screen when the PIP/POP/PBP function is used.



When 'Input Signal 1' comes on in the main screen, only 'Input Signal 2' can be displayed on the sub-screen. On the contrary, if the main screen displays 'Input Signal 2', the sub-screen can display 'Input Signal 1' only. You can swap 'Input Signal 1' and 'Input Signal 2' using the SWAP button.

*PIP function is not supported in 480i, 576i and 1080i modes.

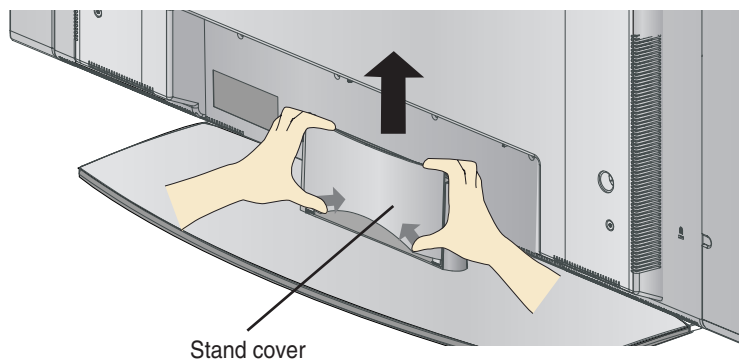
<Table of PIP/POP/PBP Function Support>

Main Screen Sub-Screen	AV	S-Video	COMPONENT 1	COMPONENT 2	RGB1	RGB2	DVI PC
AV	X	X	X	X	●	●	●
S-Video	X	X	X	X	●	●	●
COMPONENT 1	X	X	X	X	●	●	●
COMPONENT 2	X	X	X	X	●	●	●
RGB1	●	●	●	●	X	X	●
RGB2	●	●	●	●	X	X	●
DVI PC	●	●	●	●	●	●	X

To arrange cables in order - Optional

* Applicable only for models that support the stand

1. Disassemble the **stand cover**. The cover may be easily disassembled by pressing down on the base as shown in the figure.



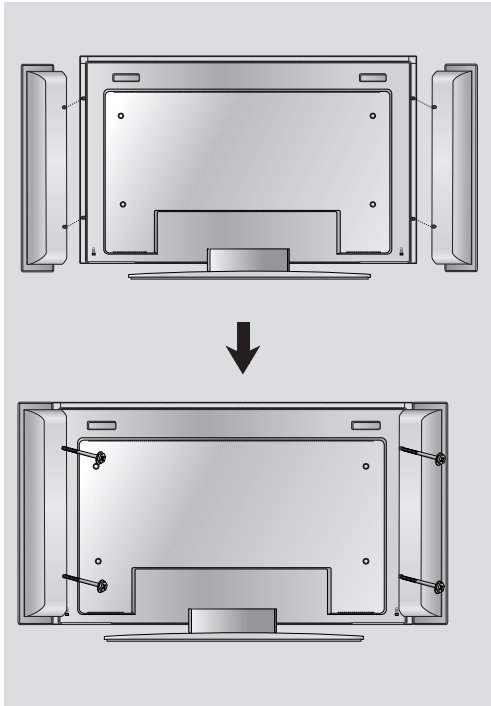
2. After connecting the cables, correctly position the stand cover into the holes on the stand. If securely connected, you will hear the latch click into place.

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Connecting the Speakers - Optional

* Applicable only for models that support the speakers

Use the screws to secure the speakers on the rear side of the product as shown in the below figure.

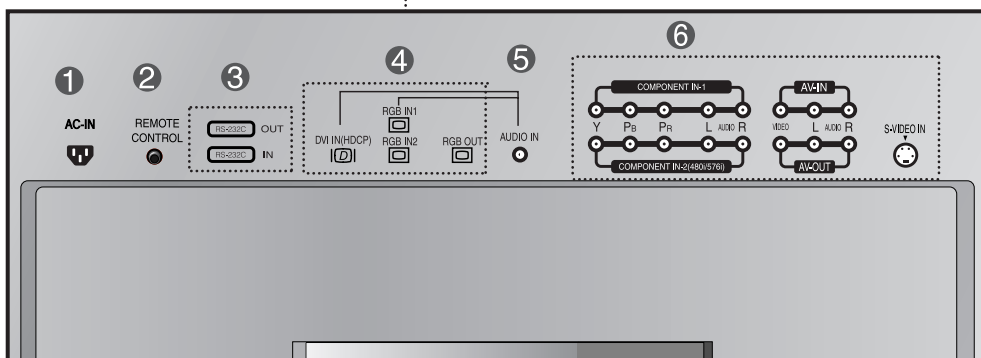
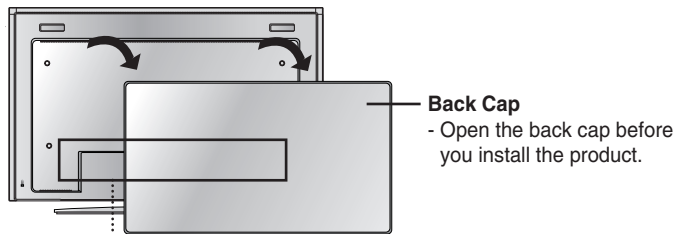


When the speaker is installed.

Name and Function of the Parts

* The product image in the user's guide could be different from the actual image.

Rear View



- ① **Power Connector** : Connect the power cord
- ② **Wired Remote Control Port**
- ③ **RS-232C Serial Ports**
- ④ **PC Signal Inputs**
- ⑤ **PC Sound Jack**
: Connect the audio cable to the *LINE OUT jack of the PC sound card.
- ⑥ **AV Ports**

*LINE OUT

A terminal used to connect to the speaker including a built-in amplifier (Amp). Make sure that the connecting terminal of the PC sound card is checked before connecting. If the Audio Out of PC sound card has only Speaker Out, reduce the PC volume.

If the Audio Out of the PC sound card supports both Speaker Out and Line Out, convert to Line Out using the card jumper of the program (Refer to the Sound Card Manual).

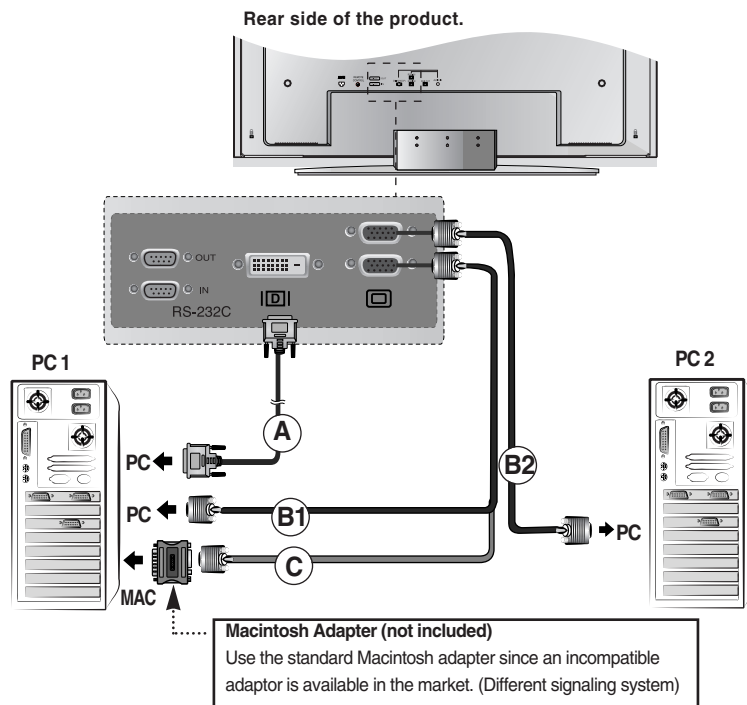
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Connecting to External Devices

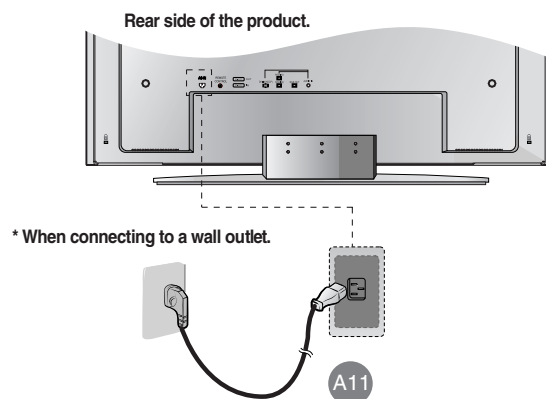
When Connecting to your PC

1 First of all, see if the computer, product and the peripherals are turned off. Then, connect the signal input cable.

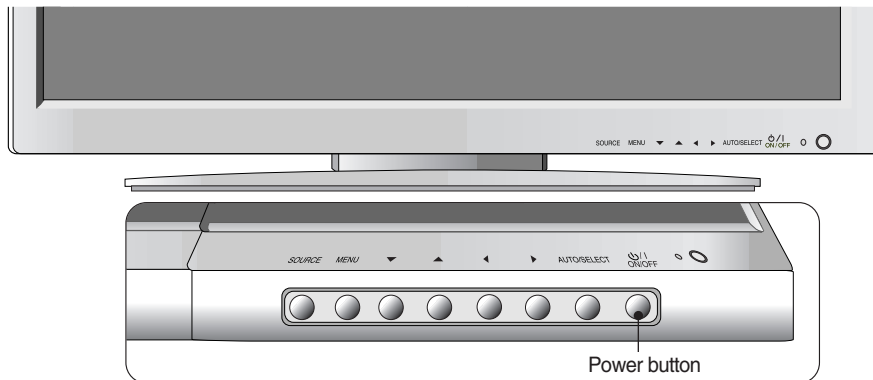
- A** When connecting with the DVI signal input cable.
- B1** When connecting with the D-Sub signal input cable. (IBM compatible PC1)
- B2** When connecting with the D-Sub signal input cable. (IBM compatible PC2)
- C** When connecting with the D-Sub signal input cable. (Macintosh)



2 Connect the power cord.



- 3 **A** Turn on power by pressing the power button on the product.



- B** Turn on the PC.

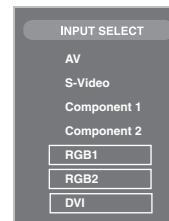
- 4 Select an input signal.
Press the SOURCE button on the remote control to select the input signal.

SOURCE → ▼▲ → SET

Or, press the SOURCE button at the front side of the product.

SOURCE → ▼▲ → SELECT

- A** When connecting with a DVI-D signal input cable.
• Select **DVI** : DVI-D digital signal.
- B1 B2 C** When connecting with a D-Sub signal input cable.
• Select **RGB1** : 15-pin D-Sub analog signal.
• Select **RGB2** : 15-pin D-Sub analog signal.



Note

- **How to connect to two computers.**
Connect the signal cables (DVI and D-Sub) to each computer.
Press the SOURCE button in a remote control to select the computer to use.
- **Directly connect to a grounded power outlet on the wall or a power bar with a ground wire.**

Connecting to External Devices

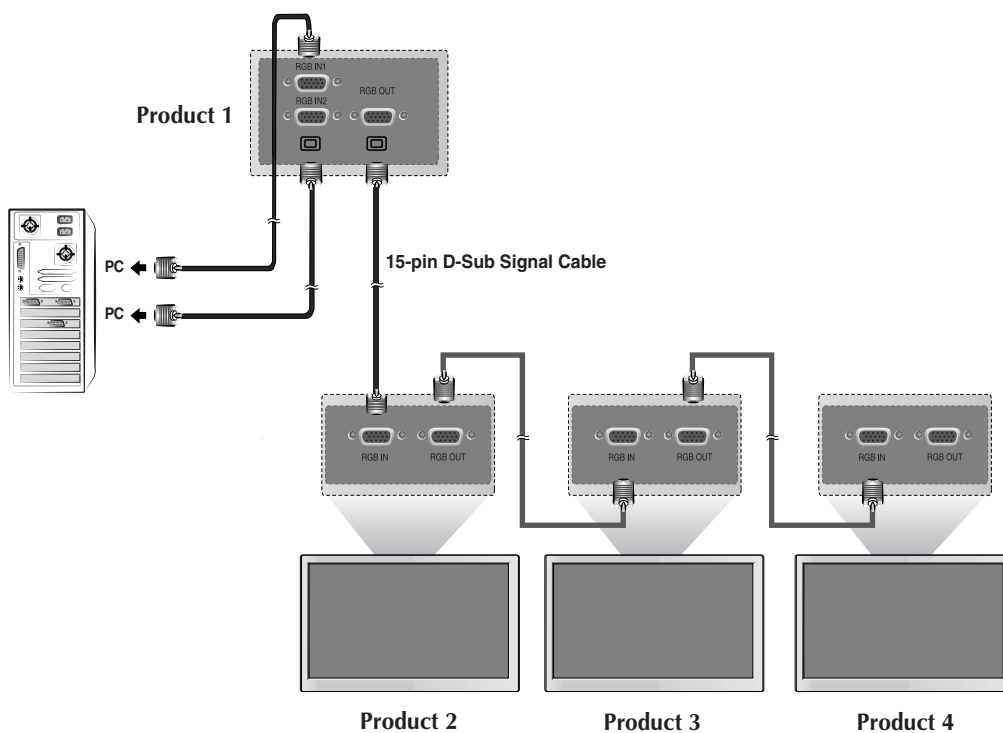
■ ■ ■ Watching RGB Outputs

Use this function when displaying ANALOG RGB inputs of a PC to the other product.

- **To use different products connected to each other**

Connect one end of the signal input cable(15-pin D-Sub Signal Cable) to the **RGB OUT** connector of **product 1** and connect the other end to the RGB INPUT connector of other products.

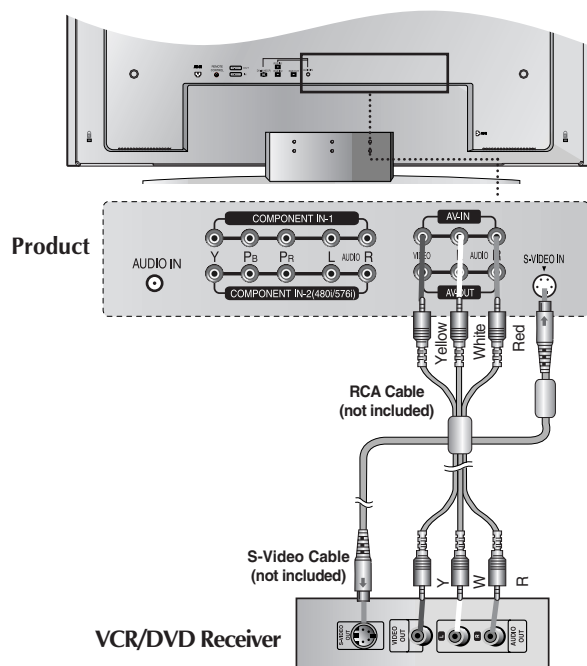
- Change SOURCE to **RGB1** when desiring to see input signal of the **RGB1**, and select **RGB2** when desiring to input signal of the **RGB2**.



When watching VCR / DVD

1 Connect the video cable as shown in the below figure and then connect the power cord (See page A11).

- A** When connecting with a RCA cable.
- Connect the input terminal with a proper color match.
(Video – Yellow, Sound (left) – White, Sound (right) – Red)
- B** When connecting with a S-Video cable.
- Connect to the S-Video input terminal to watch high image quality movies.



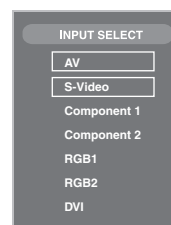
2 Select an input signal.
Press the SOURCE button on the remote control to select the input signal.

SOURCE → ▼▲ → SET

Or, press the SOURCE button at the front side of the product.

SOURCE → ▼▲ → SELECT

- A** When connecting with an RCA cable.
- Select **AV**.
- B** When connecting with an S-Video cable.
- Select **S-Video**.

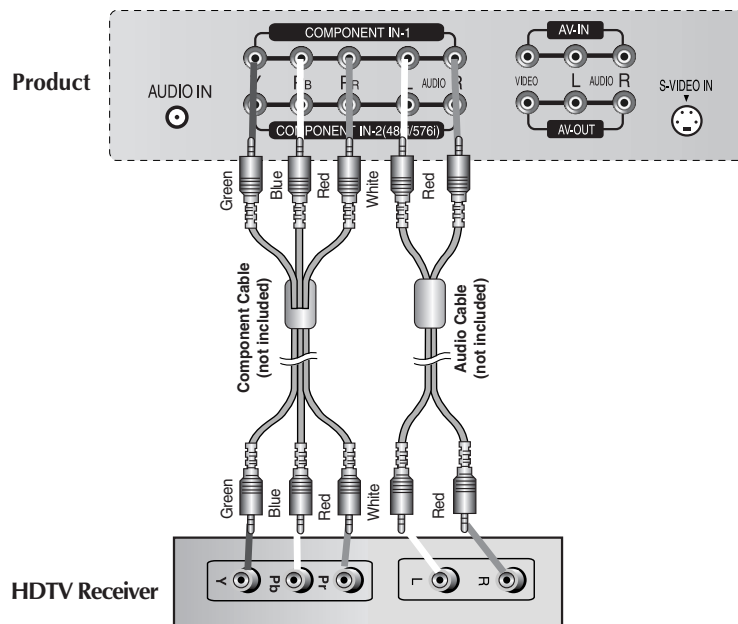


Connecting to External Devices

■ ■ ■ When watching HDTV(720p/1080i)

1 Connect the video/audio cable as shown in the below figure and then, connect the power cord (See page A11).

- Connect the input terminal with a proper color match.



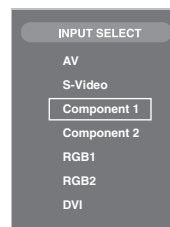
2 Select an input signal.
Press the SOURCE button on the remote control to select the input signal.

SOURCE → ▼▲ → SET

Or, press the SOURCE button at the front side of the product.

SOURCE → ▼▲ → SELECT

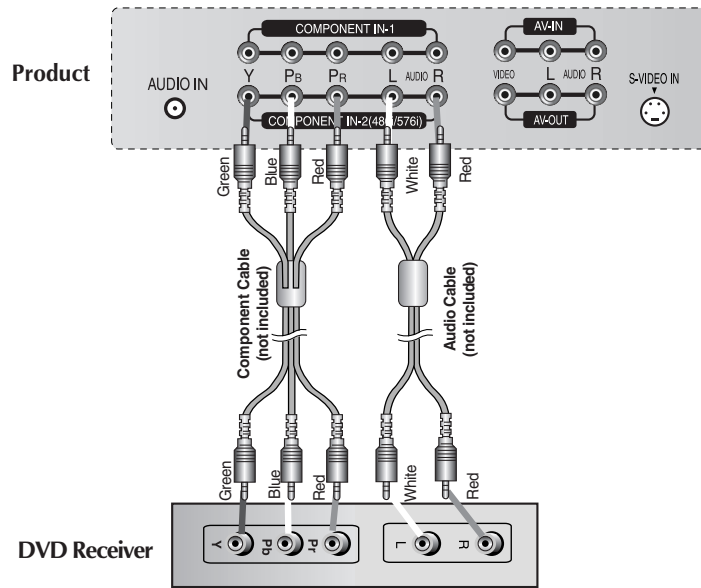
- Select COMPONENT 1.



■ ■ ■ When watching DVD(480i/576i)

1 Connect the video/audio cable as shown in the below figure and then, connect the power cord (See page A11).

- Connect the input terminal with a proper color match.



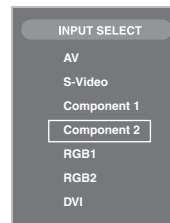
2 Select an input signal.
Press the SOURCE button on the remote control to select the input signal.

SOURCE → ▼▲ → SET

Or, press the SOURCE button at the front side of the product.

SOURCE → ▼▲ → SELECT

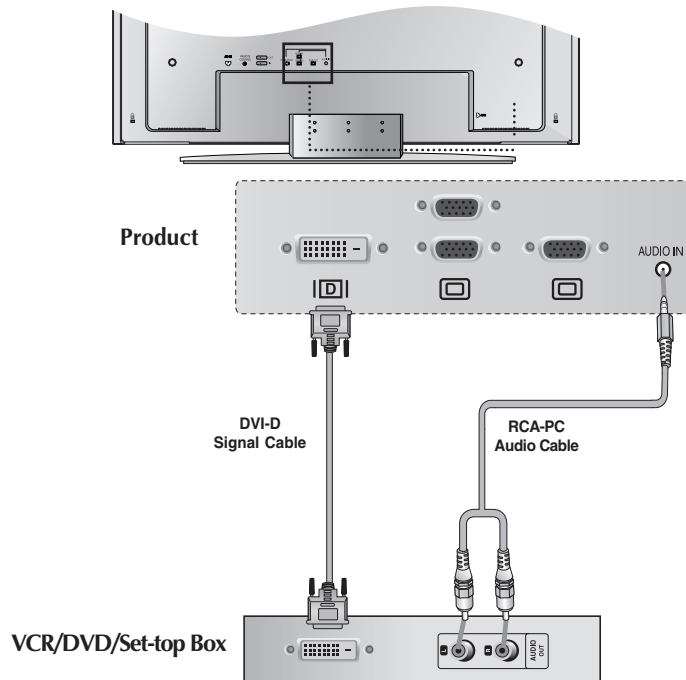
- Select COMPONENT 2.



Connecting to External Devices

■ ■ ■ When watching DVI-D(HDCP) from the VCR/DVD/Set-top Box

- 1 Connect the video/audio cable as shown in the below figure and then connect the power cord (See page A11).



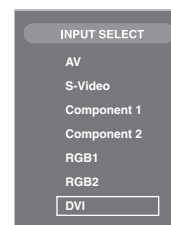
- 2 Select an input signal.
Press the SOURCE button on the remote control to select the input signal.

SOURCE → ▼▲ → SET

Or, press the SOURCE button at the front side of the product.

SOURCE → ▼▲ → SELECT

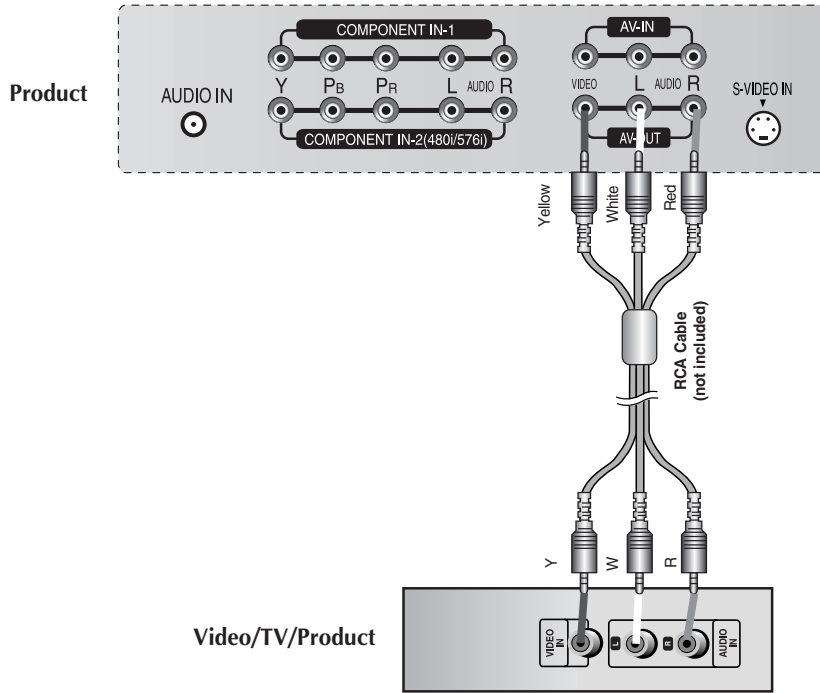
- Select DVI PC.



■ ■ ■ Watching AV Outputs

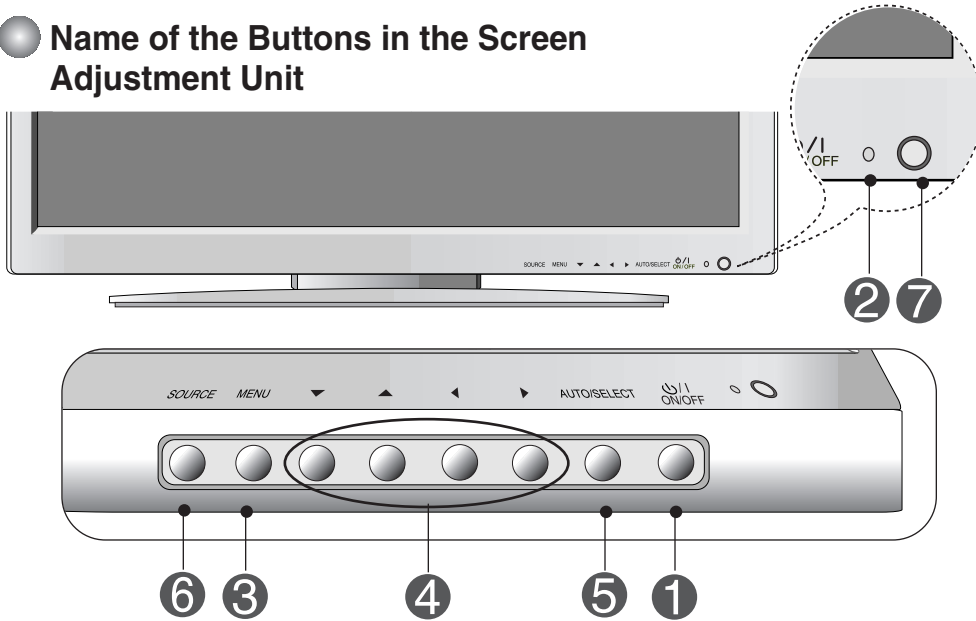
Connect to the external device if you record the broadcasting.

- When you set the input signal of the main screen as 'AV (CVBS)', you can transmit the signal that you're watching to the AV output terminal.



Selecting and Adjusting the Screen

Name of the Buttons in the Screen Adjustment Unit



1

Power Button

• Press this button to turn on the power. Press this button again to turn it off.

2

Power Indicator

• This Indicator lights up green when the display operates normally (on mode). If the display is in sleep (Energy Saving) mode, this indicator color changes to amber.

3

MENU Button

• Use this button to show/hide the OSD (On Screen Display) menu screen.

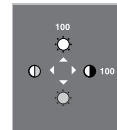
4

OSD Select / Adjust Button

• Use this button to select an icon or adjust the setting in the OSD screen.



• Use this button to directly control brightness and contrast of the PC signal (RGB1, RGB2 / DVI).



• Adjust the volume.



● Name of the Buttons in the Screen Adjustment Unit

5 AUTO/SELECT Button [For PC Analog signal]

Auto in progress

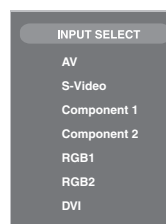
[Other signals]

- The current signal and mode information will be displayed.

6 SOURCE Button SOURCE → ▼▲ → AUTO/SELECT

- Select the input signal






AV	Composite Video
S-Video	Separate Video
Component 1	HDTV
Component 2	DVD
RGB1	15-pin D-Sub analog signal
RGB2	15-pin D-Sub analog signal
DVI	DVI digital signal



7 ● • The unit that receives the signal from the remote control.

Selecting and Adjusting the Screen

● OSD Menu

Icon	Function Description
 PICTURE	Adjusts screen brightness, contrast and color that you prefer.
 SOUND	Adjusts the audio function.
 SPECIAL	Adjusts the screen status according to the circumstances.
 SCREEN	Adjusts the screen video.
 PIP/POP/PBP	Adjusts PIP/POP/PBP mode function.

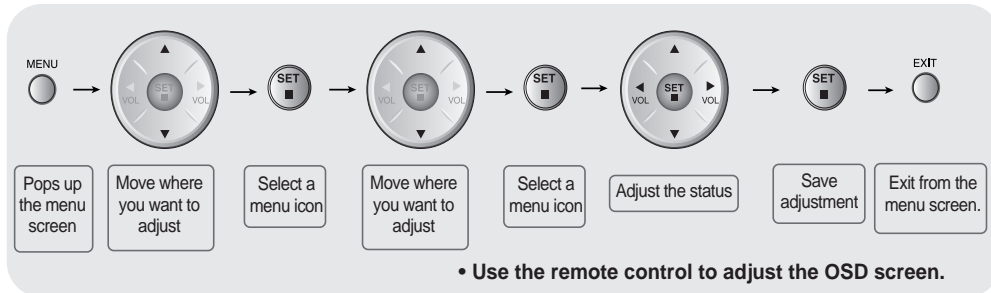


Note

OSD(On Screen Display)

The OSD function enables you to adjust the screen status conveniently since it provides graphical presentation.

● How to adjust the OSD (On Screen Display) screen



- 1 Press the **MENU** Button, then the main menu of the OSD appears.
- 2 To access a control, use the ▼ ▲ Buttons.
- 3 When the icon you want becomes highlighted, press the **SET** Button.
- 4 Use the ▼ ▲ ◀ ▶ Buttons to adjust the item to the desired level.
- 5 Accept the changes by pressing the **SET** Button.
- 6 Exit the OSD by pressing the **EXIT** Button.

● How to adjust the screen automatically

You need to adjust the screen display when connecting the product to a new computer or changing the mode. Refer to the following section to set an optimal product screen.

Auto in progress

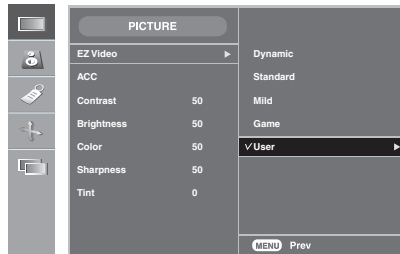
Press the AUTO/SELECT button (**AUTO button** in a remote Control) in the PC analog signal. Then, an optimal screen status will be selected that fits into the current mode.

If adjustment is not satisfactory, you need to adjust screen position, clock and phase in the OSD menu.

Selecting and Adjusting the Screen

Adjusting Screen Color

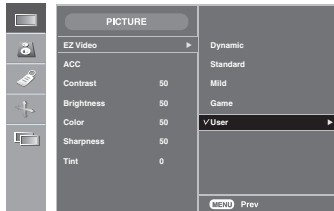
EZ Video



AV/S-Video/Component 1/
Component 2 input only

The **EZ Video** function automatically adjusts the screen image quality depending on the AV usage environment.

- **Dynamic** : Select this option to display with a sharp image.
- **Standard** : The most general and natural screen display status.
- **Mild** : Select this option to display with a mild image.
- **Game** : Select this option to enjoy dynamic image when playing a game.
- **User** : Select this option to use the user-defined settings.



Contrast
To adjust the contrast of the screen.

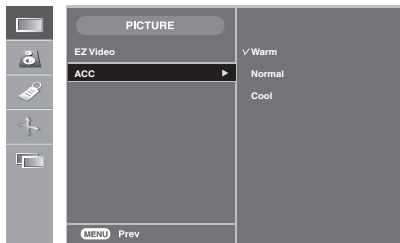
Brightness
To adjust the brightness of the screen.

Color
To adjust the color to desired level.

Sharpness
To adjust the cleanliness of the screen.

Tint
To adjust the tint to desired level.

ACC



Selecting a factory setting color set.

- **Warm** : Slightly reddish white.
- **Normal** : Slightly bluish white.
- **Cool** : Slightly purplish white.



Note

If the input is **RGB1, 2**(D-Sub analog)/**DVI**(DVI Digital), the adjustable items in the ACC function are color temp (6500K / 9300K / 3600K).

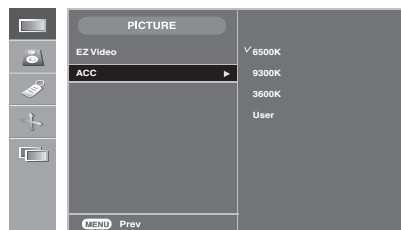
If the '**EZ Video**' setting in the **PICTURE** menu is set to **Dynamic, Standard, Mild** or **Game** the subsequent menus will be automatically set.



Adjusting Screen Color

ENGLISH

ACC



RGB1, 2 / DVI input only

- **6500K/9300K/3600K**
Selecting a factory setting color set.
6500K: Slightly reddish white.
9300K: Slightly bluish white.
3600K: Slightly yellowish white.
- **User** : Select this option to use the user-defined settings.

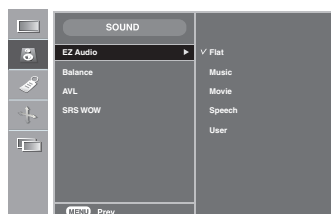


- **Contrast**
To adjust the contrast of the screen.
- **Brightness**
To adjust the brightness of the screen.
- **Red / Green / Blue**
Set your own color levels.



Adjusting the audio function

EZ Audio



The best sound tone quality will be selected automatically depending on the video type that you're currently watching.

- **Flat**
The most commanding and natural audio.
- **Music**
Select this option to enjoy the original sound when listening to the music.
- **Movie**
Select this option to enjoy sublime sound.
- **Speech**
Select this option to watch sports broadcasting.
- **User**
Select this option to use the user-defined audio settings.

Balance Use this function to balance sound from the left and right speakers.

AVL To adjust uneven sound volumes across all channels or signals automatically to the most appropriate level. To use this feature, select On.

SRS WOW Set the SRS WOW menu on.
The SRS WOW function plays back the mono or stereo sound input with the dynamic surround effects. It will provide rich and profound sound tone. If you set the SRS WOW on, user audio setting can not be adjusted.



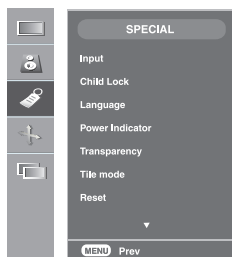
Note

When connected to your computer and the 'EZ Audio' setting in the audio menu is one of **Flat**, **Music**, **Movie** or **Speech**, the available menus are Balance, AVL and SRS WOW .

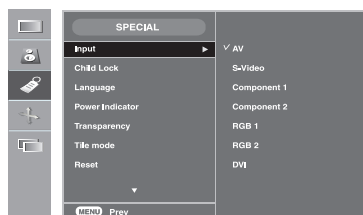
Selecting and Adjusting the Screen



Selecting the options



Input



If you press the button once, the following Input Signal Window will appear. Select the signal type you want using the ▼▲ button.

Child Lock

Use the ▼▲ buttons to select **On** or **Off**. The Set can be set up so that it can only be used with the remote control. This feature can prevent unauthorized viewing.

In order to lock the OSD screen adjustment, set the **Child Lock** tab to the 'On' position.

In order to unlock it, do the following :

1) Push the **MENU** button on the remote control and set **Child Lock** to the 'Off' position.

Language

To choose the language in which the control names are displayed.

Power Indicator

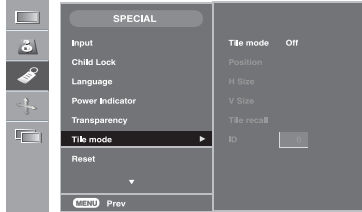
Use this function to set the power indicator on the front side of the product to **On** or **Off**. If you set **Off**, it will go off. If you set **On** at any time, the power indicator will automatically be turned on.

Transparency

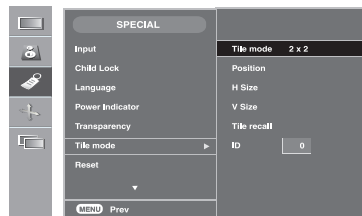
To adjust the transparency of the OSD menu screen.

Selecting the options

Tile mode

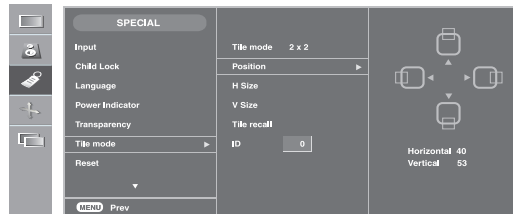


It is used to enlarge the screen and also used with several products to view screen,



Tile mode and choose Tile alignment and set the ID of the current product to set location.

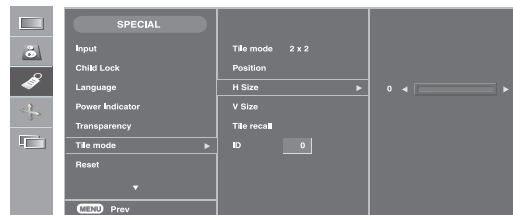
* Only after pressing the SET button the adjustments made to the settings will be saved.



- **Position**

The location of the screen can be adjusted at the Position menu and can be set by adjusting the size of the bezel.

* If you exit the menu after making the changes to the settings the adjustments will be saved.



- **H Size**

Adjust the horizontal size of the screen taking into account the size of the bezel.

- **V Size**

Adjust the vertical size of the screen taking into account the size of the bezel.

- **Tile recall**

Function to initialize and release Tile. All Tile setting are released when selecting Tile recall and the screen returns to Full screen.

- **ID**

Select the location of the Tile by setting an ID.

Selecting and Adjusting the Screen



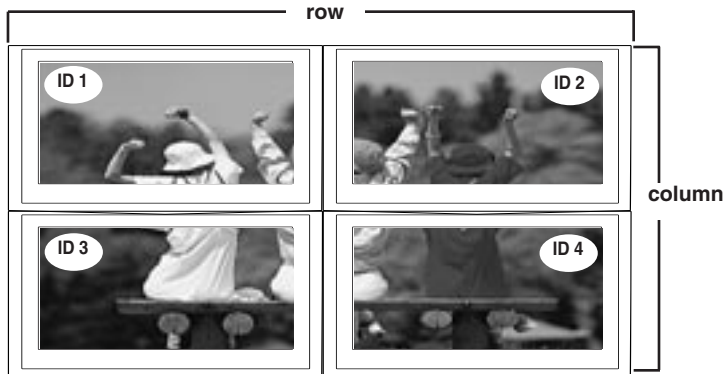
Selecting the options

• Tile mode

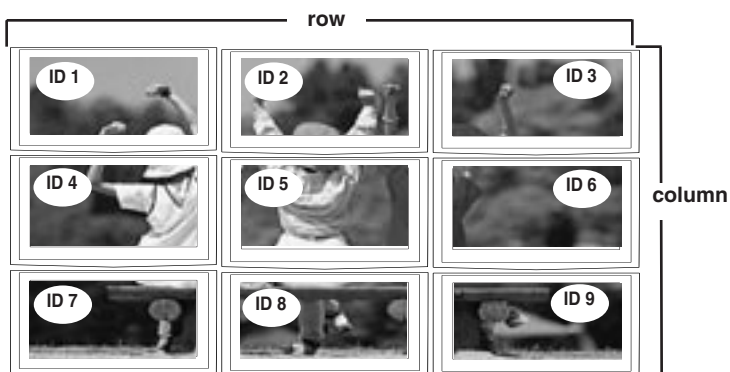
- Tile mode : row x column (r = 1, 2, 3, 4 c = 1, 2, 3, 4)
- 4 x 4 available.
- Configuration of an integration screen is also available as well as configuration of One by one Display.



- Tile mode (product 1 ~ 4) : r(2) x c(2)



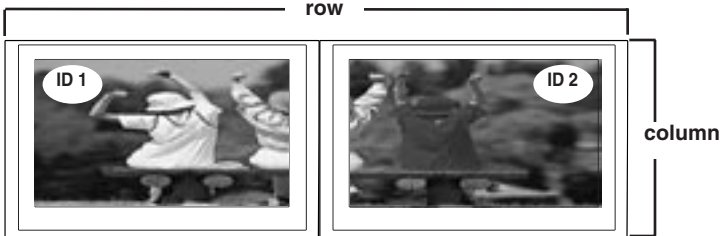
- Tile mode (product 1 ~ 9) : r(3) x c(3)





Selecting the options

- Tile mode (product 1 ~ 2) : r(2) x c(1)

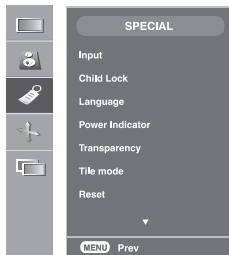


Reset Use this function to reset the product to the factory default. However, language selection will not be initialized.

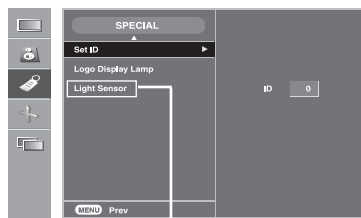
ENGLISH



Selecting the options



Set ID



Optional (46 inch model only)

You can assign a unique **Set ID NO** (name assignment) to each product when several products are connected for display. Specify the number (0~99) using the ▼▲ button and exit. Use the assigned SET ID to individually control each product using the Product Control Program.

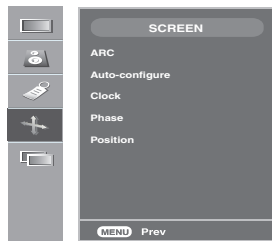
Logo Display Lamp Use this function to set the Logo Display Lamp on the front side of the product to **On** or **Off**. If you set **On**, the lamp will automatically be turned on.

Light Sensor Use this function to set the Light Sensor on the front side of the product to **On** or **Off**. (*46 inch model) If you set **On**, the sensor will automatically be turned on.

Selecting and Adjusting the Screen



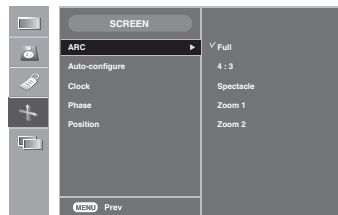
Adjusting Screen CLOCK/PHASE and Position



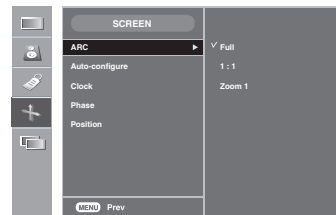
ARC

To select the image size of the screen.

<AV/S-Video/Component 1, 2 input only>



<RGB1, 2 / DVI input only>



*When the component 1 input signal is 720p or 1080i, the spectacle function is not supported.

Auto-configure

This button is for the automatic adjustment of the screen position, clock and phase. This function is suitable for analog signal input only (RGB PC input only).

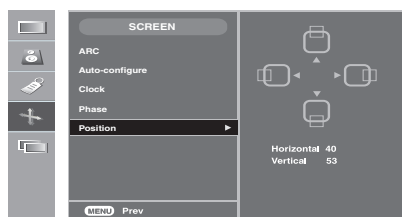
Clock

To minimize any vertical bars or stripes visible on the screen background. The horizontal screen size will also change. This function is suitable for analog signal input only (RGB PC input only).

Phase

To adjust the focus of the display. This item allows you to remove any horizontal noise and clear or sharpen the image of characters. This function is suitable for analog signal input only (RGB PC input only).

Position



To adjust position of the screen (RGB PC input only).

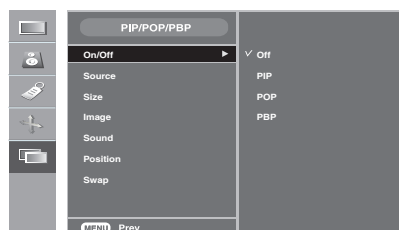
Press the ► button to display the submenu for position.

- ◀ Left Moving the screen position horizontally.
- ▶ Right Moving the screen position horizontally.
- ▲ Up Moving the screen position vertically.
- ▼ Down Moving the screen position vertically.



Adjusting PIP/POP/PBP Mode (Multiple Screen) Functions

ENGLISH



On/Off



PIP

After selecting **PIP** in the **PIP On/Off** menu, the following menu items can be adjusted.



POP

After selecting **POP** in the **POP On/Off** menu, the following menu items can be adjusted.



PBP

After selecting **PBP** in the **PBP On/Off** menu, the following menu items can be adjusted.

Source

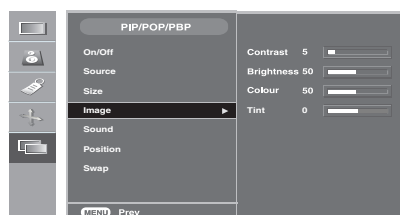
To select an input signal for PIP/POP/PBP.

Size

To adjust the size of the PIP/POP/PBP screen. (PIP : Small, Medium, Large / PBP : Full, 4:3)

Image

To adjust the image of the PIP/POP/PBP screen; Press the ► button to display the submenu for PIP/POP/PBP image. Use the ◀ ▶ buttons to adjust the item to the desired level. The items of the sub-menu may vary depending on the type of the source.



■ Contrast

Adjust PIP/POP/PBP screen contrast.

■ Brightness

Adjust PIP/POP/PBP screen brightness.

■ Color

Adjust the PIP/POP/PBP screen color.

■ Tint

To adjust the tint to desired level.

This function is available only in NTSC broadcasting mode.

* The sub-menu can differ according to the type of the input signal.

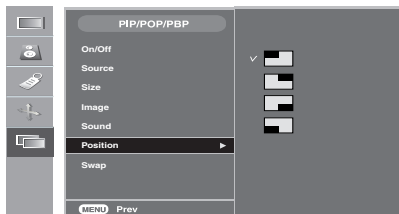
Sound

To turn the PIP/POP/PBP sound on/off.

Selecting and Adjusting the Screen

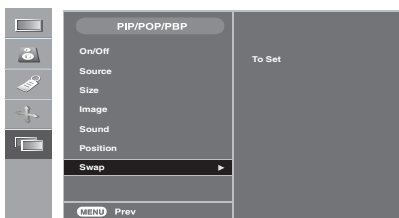
Adjusting PIP/POP/PBP Mode (Multiple Screen) Functions

Position

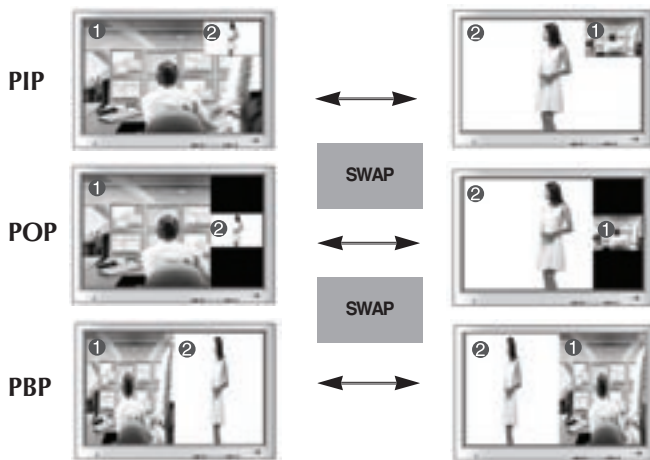


To adjust the position to PIP screen.

Swap



To switch the main-screen and sub-screen in PIP/POP/PBP mode.



Troubleshooting

ENGLISH

No image is displayed

- Is the product power cord connected?
 - Is the power indicator light on?
 - Power is on, power indicator is green but the screen appears extremely dark.
 - the power indicator amber?
 - Does the 'Out of range' message appear?
 - Does the 'Check signal cable' message appear?
- See if the power cord is properly connected to the outlet.
 - See if the power switch is turned on.
 - Adjust brightness and contrast again.
 - If the product is in power saving mode, move the mouse or press any key.
 - 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 manual.
 - * **Maximum resolution**
 - RGB1, 2 : 1600 x 1200 @60Hz
 - DVI : 1360 x 768 @60Hz
 - **46 inch model only**
 - RGB1, 2 : 1920 x 1080 @60Hz
 - DVI : 1920 x 1080 @60Hz
 - The signal cable between PC and product is not connected. Check the signal cable.
 - Press the 'SOURCE' menu in the remote Control to check the input signal.

'Unknown Monitor' message appears when the product is connected.

- Did you install the driver?
- Install the product driver, which is provided with the product, or download it from the web site. (<http://www.lge.com>)
 - See if the plug&play function is supported by referring to the video card user manual.

'Controls locked' message appears.

- The 'Controls locked' message appears when pressing the Menu button.
- The control locking function prevents unintentional OSD setting change due to careless usage. To unlock the controls, simultaneously press the Menu button and ► button for several seconds. (You cannot set this function using the remote control buttons. You can set this function in the product only.)



Note

* **Vertical frequency:** To enable the user to watch the product display, screen image should be changed tens of times every second like a fluorescent lamp. The vertical frequency or refresh rate is the times of image display per second. The unit is Hz.

* **Horizontal frequency:** The horizontal interval is the time to display one vertical line. When 1 is divided by the horizontal interval, the number of horizontal lines displayed every second can be tabulated as the horizontal frequency. The unit is kHz.

Troubleshooting

The screen image looks abnormal.

- **Is the screen position wrong?**
 - D-Sub analog signal – Press the “AUTO” button in the remote control to automatically select the optimal screen status that fits into the current mode. If adjustment is not satisfactory, use the Position OSD menu.
 - 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?**
 - D-Sub analog signal – Press the “AUTO” button in the remote control to automatically select an optimal screen status that fits into the current mode. If adjustment is not satisfactory, use the Clock OSD menu.
- **Horizontal noise appears or the characters look blurred.**
 - D-Sub analog signal – Press the “AUTO” button in the remote control to automatically select an optimal screen status that fits into the current mode. If adjustment is not satisfactory, use the Phase OSD menu.
- **Unable to adjust the horizontal/vertical position in the Zoom menu.**
 - See if the Zoom value is set to 0. If it is, you cannot adjust the H/V Position value.
- **Screen size is automatically adjusted when connected to the PC.**
 - If the screen size is not full when connected to the PC, execute the PIP/POP/PBP to change to full screen mode.
- **Brightness differs in the main and sub screen when connected to the PC.**
 - You cannot adjust brightness and tint in the PIP/POP/PBP Screen menu for the sub-screen among PIP/POP/PBP menus. Therefore, brightness can be different for the sub-screen.
- **The screen is displayed abnormally.**
 - The proper input signal is not connected to the signal port. Connect the signal cable that matches with the source input signal.

After-image appears on the product.

- **After-image appears when the product is turned off.**
 - If you use a fixed image for a long time, the pixels may be damaged quickly. Use the screensaver function.

The audio function does not work.

- **No sound?**
 - See if the audio cable is connected properly.
 - Adjust the volume.
 - See if the sound is set properly.
- **No sound is available when the PIP/POP/PBP mode is engaged.**
 - See if the Sound is set to On in the PIP/POP/PBP menu.
- **Sound is too dull.**
 - Select the appropriate equalize sound.
- **Sound is too low.**
 - Adjust the volume.

The screen size function in the OSD menu does not work.

- **The screen size function in the OSD menu does not work.**
 - See if the PIP/POP/PBP function is in use. If the PIP/POP/PBP function is in use, the screen size function may not work.

Screen color is abnormal.

- **Screen has poor color resolution (16 colors).**
 - Set the number of colors to more than 24 bits (true color)
Select Control Panel – Display – Settings – Color Table menu in Windows.
- **Screen color is unstable or mono-colored.**
 - Check the connection status of the signal cable.
Or, re-insert the PC video card.
- **Do black spots appear on the screen?**
 - 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.

Specifications

The product specifications can change without prior notice for product improvement.

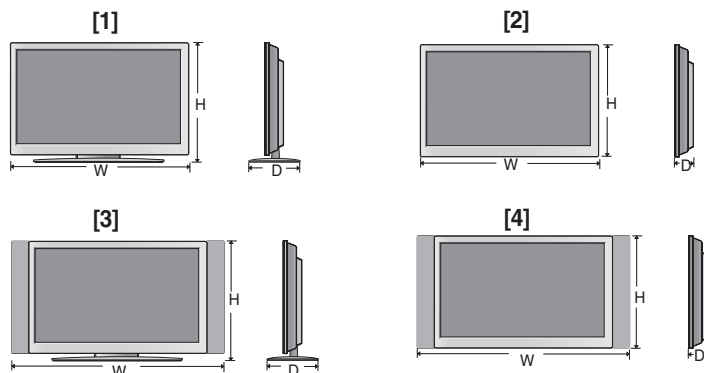
LCD Panel	[32 inch]	32 inches (80.04 cm) TFT (Thin Film Transistor) LCD (Liquid Crystal Display) Panel Visible diagonal size: 80.04 cm 0.5025 mm (Pixel Pitch)
	[37 inch]	37 inches (94.03 cm) TFT (Thin Film Transistor) LCD (Liquid Crystal Display) Panel Visible diagonal size: 94.03 cm 0.6000 mm (Pixel Pitch)
	[42 inch]	42 inches (106.73 cm) TFT (Thin Film Transistor) LCD (Liquid Crystal Display) Panel Anti-Glare coating Visible diagonal size: 106.73 cm 0.681 mm (Pixel Pitch)
	[46 inch]	46 inches (116.84 cm) TFT (Thin Film Transistor) LCD (Liquid Crystal Display) Panel Anti-Glare coating Visible diagonal size: 116.84 cm 0.531 mm (Pixel Pitch)
Power	[32 inch]	Rated Voltage AC 100-240V~ 50/60Hz 2.0A Power Consumption On Mode : 160W Sleep Mode : ≤ 4W Off Mode : ≤ 2W
	[37 inch]	Rated Voltage AC 100-240V~ 50/60Hz 2.4A Power Consumption On Mode : 220W Sleep Mode : ≤ 4W Off Mode : ≤ 3W
	[42 inch]	Rated Voltage AC 100-240V~ 50/60Hz 2.8A Power Consumption On Mode : 300W Sleep Mode : ≤ 4W Off Mode : ≤ 3W
	[46 inch]	Rated Voltage AC 100-240V~ 50/60Hz 3A Power Consumption On Mode : 350W Sleep Mode : ≤ 4W Off Mode : ≤ 3W

NOTE

- Information in this document is subject to change without notice.

The product specifications can change without prior notice for product improvement.

Dimensions & Weight



Width x Height x Depth

[32 inch]

[1] 80.30 cm (31.61 inches) x 54.00cm (21.26 inches) x 18.00 cm (7.09 inches)

[2] 80.30 cm (31.61 inches) x 49.30 cm (19.4 inches) x 9.99 cm (3.93 inches)

[3] 96.40 cm (37.95 inches) x 54.00cm (21.26 inches) x 18.00 cm (7.09 inches)

[4] 96.40 cm (37.95 inches) x 49.30 cm (19.4 inches) x 9.99 cm (3.93 inches)

[37 inch]

[1] 92.80 cm (36.54 inches) x 61.90 cm (24.37 inches) x 22.77 cm (8.96 inches)

[2] 92.80 cm (36.54 inches) x 57.12 cm (22.49 inches) x 12.00 cm (4.72 inches)

[3] 112.9 cm (44.45 inches) x 61.90 cm (24.37 inches) x 22.77 cm (8.96 inches)

[4] 112.9 cm (44.45 inches) x 57.12 cm (22.49 inches) x 12.00 cm (4.72 inches)

[42 inch]

[1] 105.7 cm (41.61 inches) x 70.20 cm (27.64 inches) x 29.45 cm (11.59 inches)

[2] 105.7 cm (41.61 inches) x 65.30 cm (25.71 inches) x 11.91 cm (4.69 inches)

[3] 125.9 cm (49.57 inches) x 70.20 cm (27.64 inches) x 29.45 cm (11.59 inches)

[4] 125.9 cm (49.57 inches) x 65.30 cm (25.71 inches) x 11.91 cm (4.69 inches)

[46 inch]

[1] 116.0 cm (45.67 inches) x 76.45 cm (30.10 inches) x 29.50 cm (11.61 inches)

[2] 116.0 cm (45.67 inches) x 70.20 cm (27.64 inches) x 11.50 cm (4.53 inches)

[3] 136.2 cm (53.62 inches) x 76.45 cm (30.10 inches) x 29.50 cm (11.61 inches)

[4] 129.1 cm (50.83 inches) x 70.20 cm (27.64 inches) x 11.50 cm (4.53 inches)

Specifications

The product specifications can change without prior notice for product improvement.

Dimensions & Weight	Net	
	[32 inch]	
	[1] 19.4 kg (42.77 lbs)	[2] 16.0 kg (35.27 lbs)
	[3] 21.1 kg (46.52 lbs)	[4] 17.7 kg (39.02 lbs)
	[37 inch]	
	[1] 26.7 kg (58.86 lbs)	[2] 23.5kg (51.81 lbs)
	[3] 30.5 kg (67.24 lbs)	[4] 25.7 kg (56.66 lbs)
	[42 inch]	
	[1] 35.2 kg (77.60 lbs)	[2] 30.8 kg (67.90 lbs)
	[3] 40 kg (88.18 lbs)	[4] 33.6 kg (74.07 lbs)
	[46 inch]	
	[1] 41.5 kg (91.49 lbs)	[2] 36.5 kg (80.47 lbs)
	[3] 49.0 kg (108.02 lbs)	[4] 40.0 kg (88.18 lbs)

■ ■ ■ 32/37/42 inch model

The product specifications can change without prior notice for product improvement.

Video Signal	Max. Resolution	RGB1, 2 : 1600 X 1200 @60Hz DVI : 1280 X 1024 @60Hz – It may not be supported depending on the OS or video card type.
	Recommended Resolution	RGB1, 2 : WSXGA 1360 X 768 @60Hz DVI : WSXGA 1360 X 768 @60Hz – It may not be supported depending on the OS or video card type.
	Horizontal Frequency	RGB1, 2 : 30 - 83 kHz DVI : 30 - 72 kHz
	Vertical Frequency	56 - 85 Hz
	Synchronization Type	Separate/Composite/SOG (Sync On Green)/Digital
Input Connector	15-pin D-Sub type, DVI-D (digital), S-Video, Composite Video, HDTV, DVD, RS-232C	
Environmental Conditions	Operational Condition	Temperature: 10°C ~ 35°C , Humidity: 10% ~ 80%
	Storage Condition	Temperature: -20°C ~ 60°C , Humidity: 5% ~ 95%

* Applicable only for models that support the speakers

Audio	RMS Audio Output	10W+10W(R+L)
	Input Sensitivity	0.7Vrms
	Speaker Impedance	8Ω

NOTE

- Information in this document is subject to change without notice.

Specifications

■ ■ ■ 46 inch model

The product specifications can change without prior notice for product improvement.

Video Signal	Max. Resolution	RGB1, 2 : 1920 X 1080 @60Hz DVI : 1920 X 1080 @60Hz
	Recommended Resolution	RGB1, 2 : WXGA 1920 X 1080 @60Hz DVI : WXGA 1920 X 1080 @60Hz
	Horizontal Frequency	RGB1, 2 : 30 - 83 kHz DVI : 30 - 83 kHz
	Vertical Frequency	56 - 85 Hz
	Synchronization Type	Separate/Composite/SOG (Sync On Green)/Digital
Input Connector		15-pin D-Sub type, DVI-D (digital), S-Video, Composite Video, HDTV, DVD, RS-232C
Environmental Conditions	Operational Condition	Temperature: 10°C ~ 35°C , Humidity: 10% ~ 80%
	Storage Condition	Temperature: -20°C ~ 60°C , Humidity: 5% ~ 95%

* Applicable only for models that support the speakers

Audio	RMS Audio Output	10W+10W(R+L)
	Input Sensitivity	0.7Vrms
	Speaker Impedance	8Ω

NOTE

- Information in this document is subject to change without notice.

● PC Mode – Preset Mode

[32/37/42 inch model]

	Preset mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)		Preset mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
1	VGA 640 x 350	31.469	70	11	VESA 1024 x 768	60.123	75
2	VGA 720 x 400	31.468	70	12	VESA 1024 x 768	68.68	85
3	VGA 640 x 480	31.469	60	13	VESA 1280 x 720	44.772	60
4	VESA 640 x 480	37.500	75	14	VESA 1360 x 768	47.72	60
5	VESA 640 x 480	43.269	85	15	VESA 1280 x 1024	63.981	60
6	VESA 800 x 600	37.879	60	16	VESA 1280 x 1024	79.98	75
7	VESA 800 x 600	46.875	75	17	VESA 1600 x 1200	75.00	60
8	VESA 800 x 600	53.674	85				
9	MAC 832 x 624	49.725	75				
10	VESA 1024 x 768	48.363	60				

[46 inch model]

	Preset mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)		Preset mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
1	VGA 640 x 350	31.469	70	11	VESA 1024 x 768	60.123	75
2	VGA 720 x 400	31.468	70	12	VESA 1024 x 768	68.68	85
3	VGA 640 x 480	31.469	60	13	VESA 1280 x 720	44.772	60
4	VESA 640 x 480	37.500	75	14	VESA 1360 x 768	47.72	60
5	VESA 640 x 480	43.269	85	15	VESA 1280 x 1024	63.981	60
6	VESA 800 x 600	37.879	60	16	VESA 1280 x 1024	79.98	75
7	VESA 800 x 600	46.875	75	17	VESA 1920 x 1080	66.587	60
8	VESA 800 x 600	53.674	85				
9	MAC 832 x 624	49.725	75				
10	VESA 1024 x 768	48.363	60				

● Power Indicator

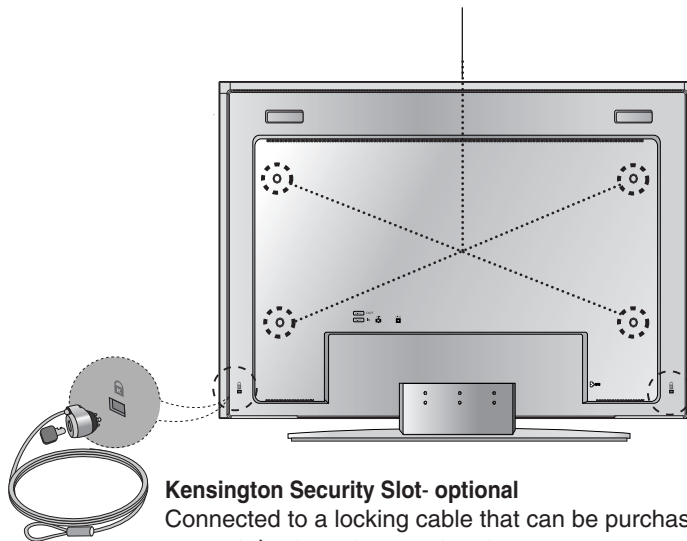
Mode	Product
On Mode	Green
Sleep Mode	Amber
Off Mode	-

Specifications

VESA wall mounting

Connected to another object (stand type and wall-mounted type.) This product accepts a VESA-compliant mounting interface pad.- **(optional)**

For further information, refer to the VESA Wall Mounting Instruction Guide.



Kensington Security Slot- optional

Connected to a locking cable that can be purchased separately at most computer stores

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