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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 a pathway.**
  - The passerby can trip, 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 holes are 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 the circuit is well grounded.**
- You may be electrocuted or injured.

■ **Use 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.

■ **Connect the power cable completely.**
- If the power cable is not connected 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 or 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 Guide.**
- 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

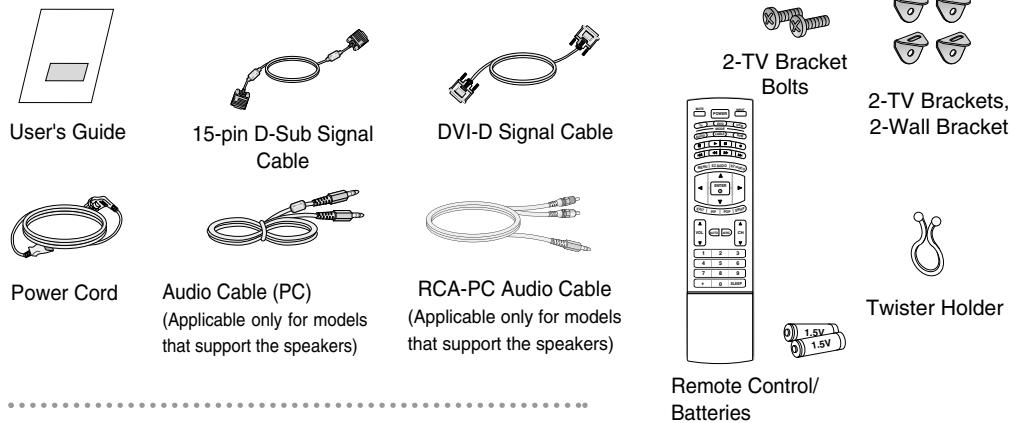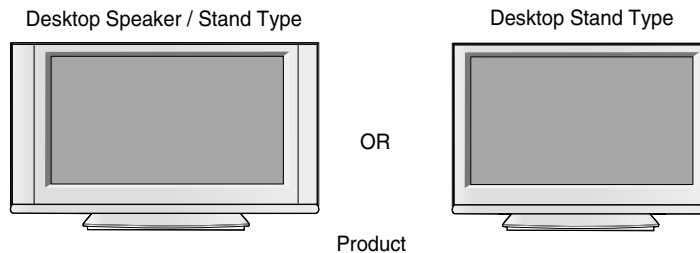■ The fluorescent lamp used in this product contains a small amount of mercury.
■ Do not dispose of this product with general household waste.
   Disposal of this product must be carried out in accordance to the regulations of your local authority.

# Accessories

**Please check the accessories in the product package.**
**\* The product and the accessories can be different from the figures shown here.**

Desktop Speaker / Stand Type

Desktop Stand Type

OR

Product

User's Guide

15-pin D-Sub Signal Cable

DVI-D Signal Cable

2-TV Bracket Bolts

2-TV Brackets, 2-Wall Bracket

Power Cord

Audio Cable (PC)
(Applicable only for models that support the speakers)

RCA-PC Audio Cable
(Applicable only for models that support the speakers)

Twister Holder

Remote Control/ Batteries

## Optional

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

## Inserting batteries into remote Control.
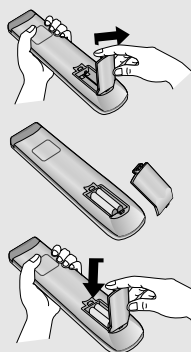
**1. Take out the battery cap.**

**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
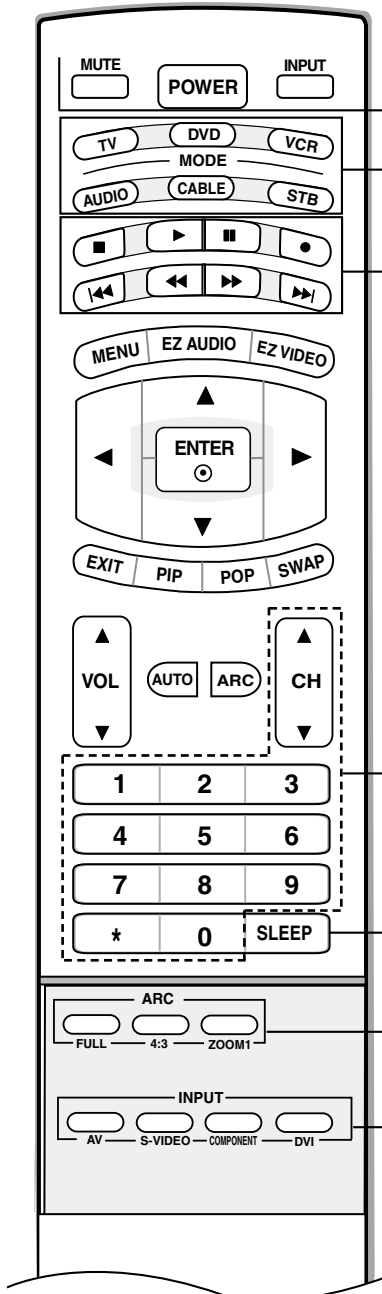
**MUTE**
Switches the sound on or off.

**POWER**
Power On/Off Button

**INPUT**
Select an input signal.

INPUT → ▼▲ → ENTER

INPUT SELECT

AV
S-Video
Component
RGB1
RGB2
DVI

**MODE**
Selects the remote operating modes. :TV, DVD, VCR, AUDIO, CABLE or STB

**Video Operation Button**
Applicable for LG products only

\* There is not a function which is supported

**SLEEP**
When watching **AV/S-Video/Component**
- The product will be automatically turned off after a certain period of time.
  Press this button repetitively to select an appropriate time duration

**ARC**
Selects your desired picture format.

**INPUT**
Selects an input signal.

MUTE  POWER  INPUT

TV  DVD  VCR
MODE
AUDIO  CABLE  STB

MENU  EZ AUDIO  EZ VIDEO

ENTER

EXIT  PIP  POP  SWAP

VOL  AUTO  ARC  CH

| 1 | 2 | 3 |
| 4 | 5 | 6 |
| 7 | 8 | 9 |
| * | 0 | SLEEP |

ARC
FULL — 4:3 — ZOOM1

INPUT
AV — S-VIDEO — COMPONENT — DVI
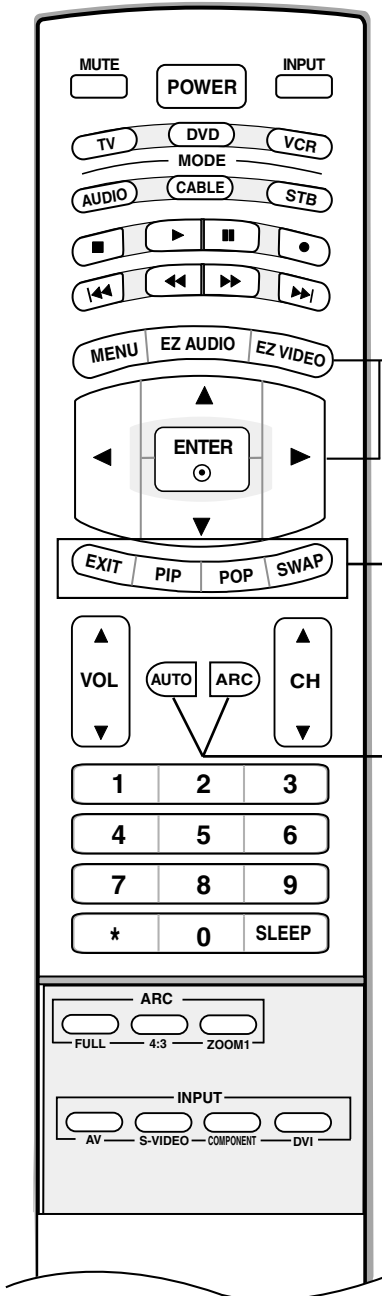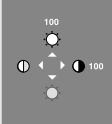
**MENU**
Selects a menu.

**EZ AUDIO**
Recalls your preferred sound setting.

**EZ VIDEO**
Recalls your preferred picture setting.

**▲ / ▼ / ◄ / ► (up / down / left / right)**
• Selects or adjusts an item in the menu.
• Use these buttons to directly control brightness and contrast of the PC signal (RGB1, RGB2 / DVI ).

**ENTER**
Accepts your selection or displays the current mode.

**AUTO**
• PC: Automatic adjustment function (Operational for the analog signal only).

**ARC**
Selects your desired picture format (See A28).

**LIGHT**
Illuminates the remote control buttons.

**1** **EXIT**
Exit the OSD by pressing the **EXIT** Button.

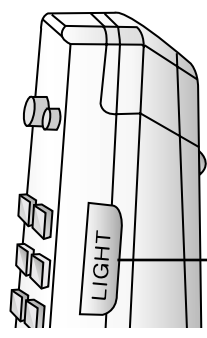**PIP (Picture in Picture) Button**

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

**PIP**

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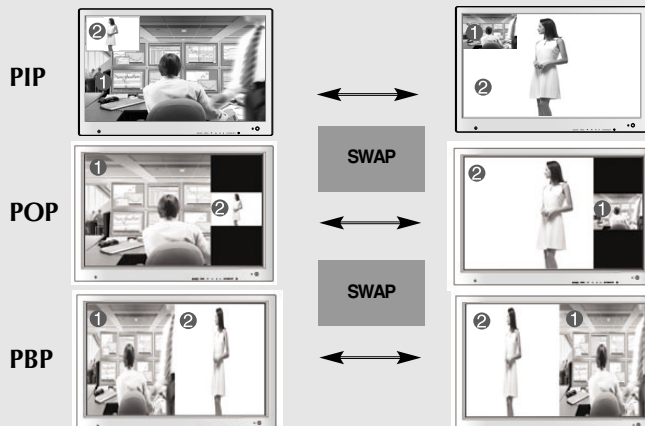: POP ON -> PBP(FULL) -> PBP(4:3) -> OFF

| POP ON | PBP (FULL) | PBP (4:3) |

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

**PIP**

**POP**

SWAP

**PBP**

SWAP

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.
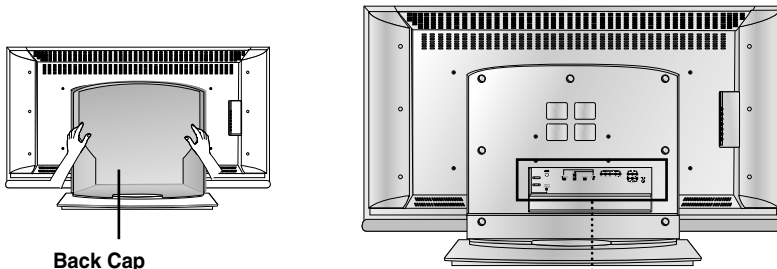
**<Table of PIP/POP/PBP Function Support>**

| Main Screen / Sub-Screen | AV | S-Video | COMPONENT | RGB1 | RGB2 | DVI |
|---|---|---|---|---|---|---|
| AV | X | X | X | ● | ● | ● |
| S-Video | X | X | X | ● | ● | ● |
| COMPONENT | X | X | X | ● | ● | ● |
| RGB1 | ● | ● | ● | X | X | ● |
| RGB2 | ● | ● | ● | X | X | ● |
| DVI | ● | ● | ● | ● | ● | X |

# Name and Function of the Parts

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

## ⬤ Rear View

**Back Cap**
- Open the back cap before
  you install the product.



① RS-232C OUT    AC-IN    ②    RGB IN1    COMPONENT IN    AV-IN
RS-232C IN    REMOTE CONTROL    DVI IN(HDCP)    RGB IN2    RGB OUT    AUDIO IN    Y  P_B  P_R  L AUDIO R    VIDEO  L AUDIO R    S-VIDEO IN    AV-OUT
③    ④    ⑤    ⑥

① **RS-232C Serial Ports**

② **Power Connector : Connect the power cord**

③ **Wired Remote Control Port**

④ **PC Signal Inputs**

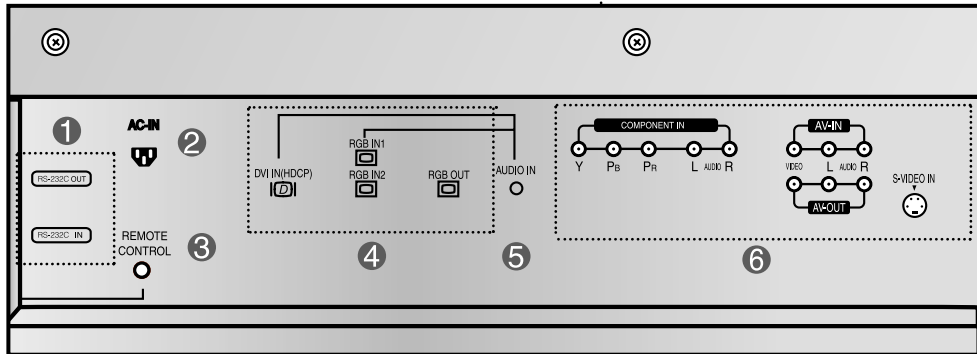⑤ **PC Sound Jack**
   **: Connect the audio cable to the \*LINE OUT jack of the PC sound card.**

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).
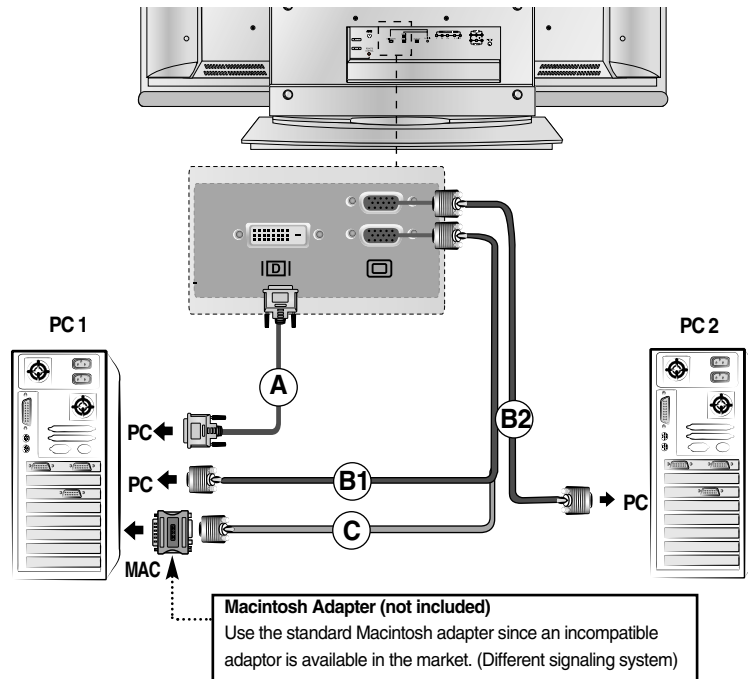
# Connecting to External Devices

## ∎∎∎ 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)

**Rear side of the product.**

**PC 1**

**PC 2**

**A**

**B2**

**PC** **B1** **PC**

**PC**

**C**

**MAC**

**Macintosh Adapter (not included)**
Use the standard Macintosh adapter since an incompatible adaptor is available in the market. (Different signaling system)

**2** **Connect the power cord.**

**Rear side of the product.**

**\* When connecting to a wall outlet.**

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

INPUT  MENU  ▼  ▲  ◄  ►  AUTO/SELECT  ⏻ / | ON / OFF

Power button

**B** **Turn on the PC.**

**4** **Select an input signal.**
**Press the INPUT button on the remote control to select the input signal.**

INPUT  ⟶  ▼▲  ⟶  ENTER

**Or, press the INPUT button at the front side of the product.**

INPUT  ⟶  ▼▲  ⟶  SELECT

**A** When connecting with a DVI-D signal input cable.
  • Select **DVI** : DVI-D digital signal.

When connecting with a D-Sub signal input cable.

**B1** **C** • Select **RGB1** : 15-pin D-Sub analog signal.

**B2** • Select **RGB2** : 15-pin D-Sub analog signal.

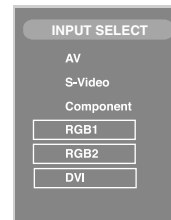INPUT SELECT

AV
S-Video
Component
RGB1
RGB2
DVI

| Note | • **How to connect to two computers.** Connect the signal cables (DVI and D-Sub) to each computer. Press the **INPUT** 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**.

RGB IN1

RGB OUT

RGB IN2

**Product 1**

PC

PC

**15-pin D-Sub Signal Cable**

RGB IN          RGB OUT

RGB IN          RGB OUT

RGB IN          RGB OUT

**Product 2**          **Product 3**          **Product 4**

## ▪▪▪ When watching VCR / DVD

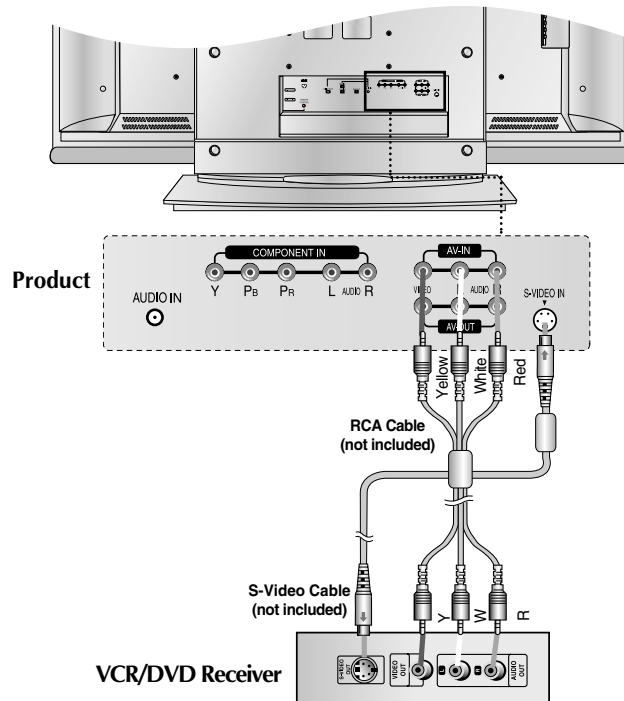**1** Connect the video cable as shown in the below figure and then connect the power cord (See page A9).

**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.

**Product**

RCA Cable
(not included)

S-Video Cable
(not included)

**VCR/DVD Receiver**
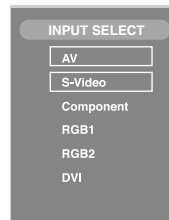
**2** Select an input signal.
Press the INPUT button on the remote control to select the input signal.

INPUT → ▼▲ → ENTER

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

INPUT → ▼▲ → SELECT

**A** When connecting with an RCA cable.
• Select **AV.**

**B** When connecting with an S-Video cable.
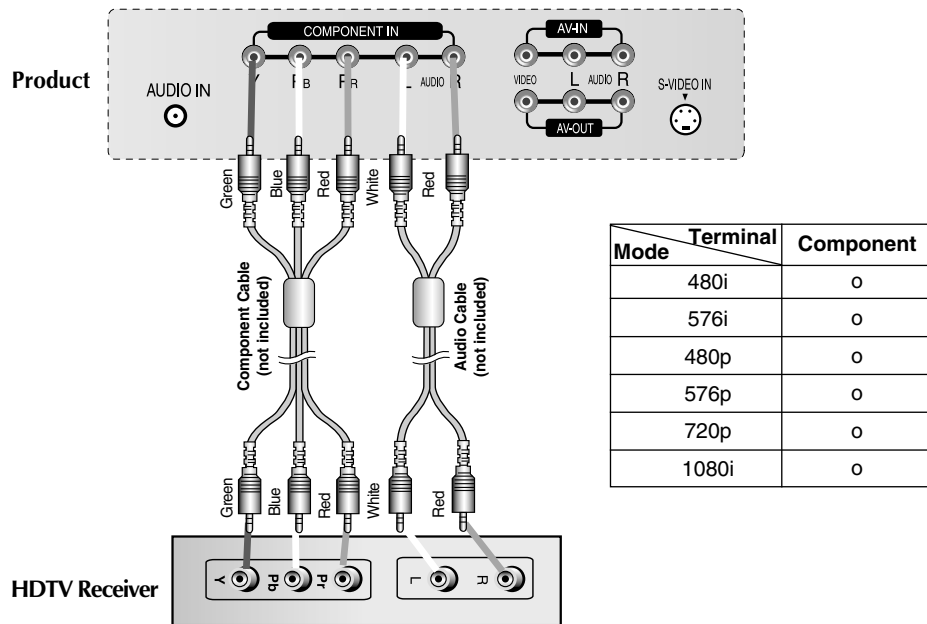• Select **S-Video.**

INPUT SELECT
AV
S-Video
Component
RGB1
RGB2
DVI

A12

# Connecting to External Devices

1 **Connect the video/audio cable as shown in the below figure and then, connect the power cord (See page A9).**

• Connect the input terminal with a proper color match.

**Product**

COMPONENT IN

AV-IN

AUDIO IN

Pʙ  Pʀ  AUDIO R

VIDEO  L  AUDIO R  S-VIDEO IN

AV-OUT

Green   Blue   Red   White   Red

**Component Cable (not included)**

**Audio Cable (not included)**

Green   Blue   Red   White   Red

**HDTV Receiver**

Pb   Pr   L   R

| Mode Terminal | Component |
|---|---|
| 480i | o |
| 576i | o |
| 480p | o |
| 576p | o |
| 720p | o |
| 1080i | o |

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

INPUT → ▼▲ → ENTER

**Or, press the INPUT button at the front side of the product.**

INPUT → ▼▲ → SELECT

• Select **COMPONENT.**

INPUT SELECT

AV
S-Video
Component
RGB1
RGB2
DVI

## ■■■ 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 A9).**

Product

DVI-D
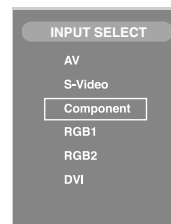Signal Cable

RCA-PC
Audio Cable

VCR/DVD/Set-top Box

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

INPUT → ▼▲ → ENTER

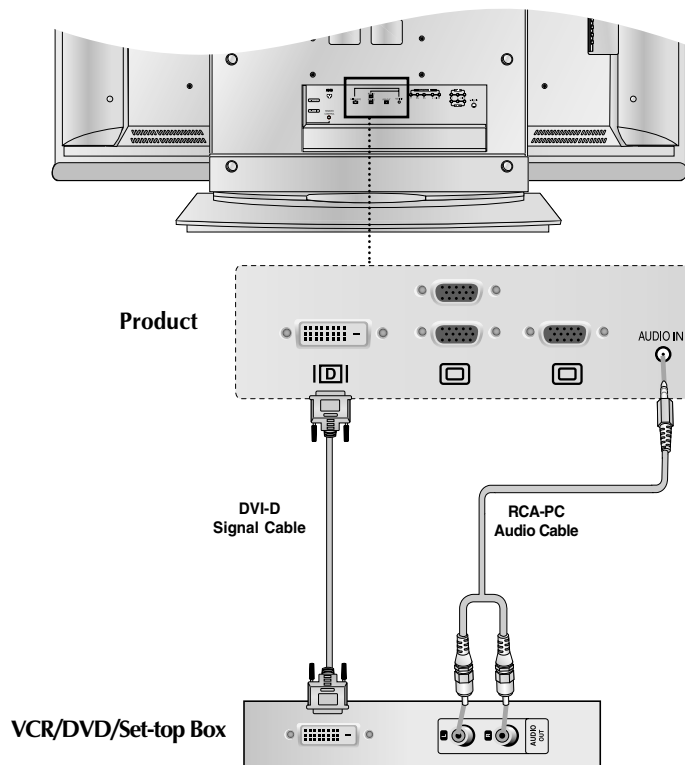**Or, press the INPUT button at the front side of the product.**

INPUT → ▼▲ → SELECT

• Select **DVI.**

| INPUT SELECT |
|---|
| AV |
| S-Video |
| Component |
| RGB1 |
| RGB2 |
| DVI |

# Connecting to External Devices

### ■■■ 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.

# How to mount the product assembly to the wall to protect the set tumbling

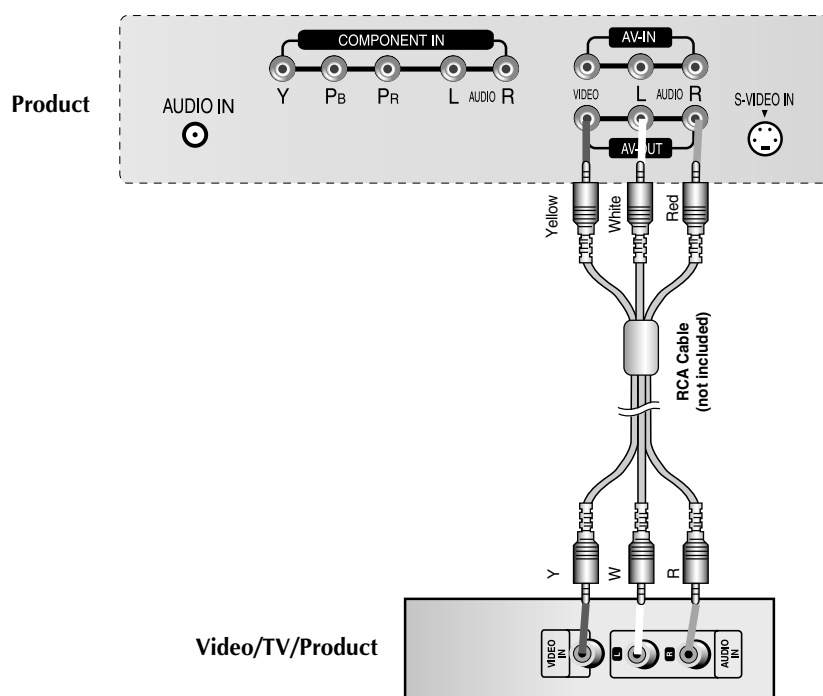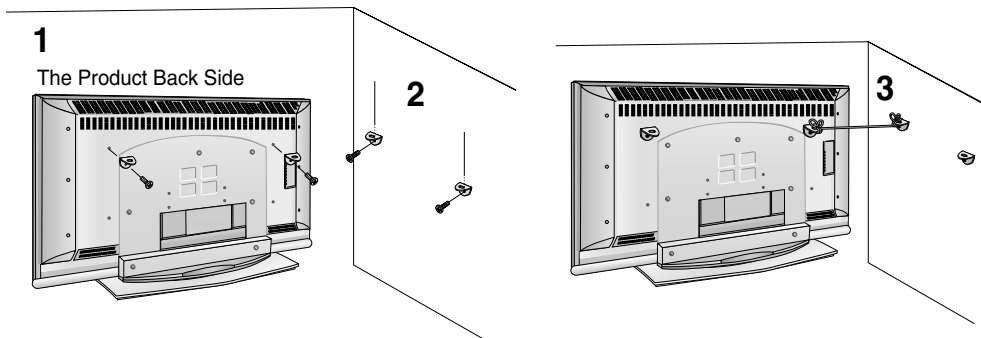**Please set it up carefully so the product doesn't fall over.**

Set it up close to the wall so the product doesn't fall over when it is pushed backwards.

The instructions shown below is a safer way to set up the product, which is to fix it on the wall so the product does-n't fall over when it is pulled in the forward direction. It will prevent the product from falling forward and hurting peo-ple. It will also prevent the product from damage caused by fall. Please make sure that children don't climb on or hang from the product.

**1**

The Product Back Side

**2**

**3**

1. Use the bracket and the bolt to fix the product to the wall as shown in the picture.

2. Secure the bracket with the bolt (not provided as parts of the product, must purchase separately) on the wall.

3. Use a sturdy rope (not provided as parts of the product, must purchase separately) to tie the product. It is safer to tie the rope so it becomes horizontal between the wall and the product.

Notes

• When moving the product to another place undo the ropes first.

• Use a product holder or a cabinet that is big and strong enough for the size and weight of the product.

• To use the product safely make sure that the height of the bracket that is mounted on the wall is same as that of the product.

# To arrange cables in order - Optional

1. Pull out the back panel cover using both hands by holding the sides of the cover.

2. Connect the cables.

3. Use the holes in the back panel to close the back cover.
   Pull the cables through the hole on the set and bundle the cables using the supplied twister holder.

# Selecting and Adjusting the Screen

## ◯ Name of the Buttons on front of the Unit

INPUT    MENU    ▼    ▲    ◄    ►    AUTO/SELECT    ⏻/| ON/OFF

| 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 these buttons to directly control brightness and contrast of the PC signal (RGB1, RGB2 / DVI ). |
|---|---|---|
| | ◄ ► | • Adjust the volume. |

# Selecting and Adjusting the Screen

## Name of the Buttons on front of the Unit

**⑤** **AUTO/SELECT Button**

**[For PC Analog signal]**

1)

| Auto in progress |
|:---:|

**(Only 1920X1080 Mode)**

2)

> Auto in Progress
> For optimal display change
> resolution to 1920X1080

**[Other signals]**

• The current signal and mode information will be displayed.

---

**⑥** **INPUT Button**

**INPUT** → ▼▲ → **AUTO/SELECT**

• Select the input signal

| | |
|---|---|
| **AV** | Composite Video |
| **S-Video** | Separate Video |
| **Component** | HDTV/ DVD |
| **RGB1** | 15-pin D-Sub analog signal |
| **RGB2** | 15-pin D-Sub analog signal |
| **DVI** | DVI digital signal |

**INPUT SELECT**
AV
S-Video
Component
RGB1
RGB2
DVI

---

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

# ⬤ 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.

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# Selecting and Adjusting the Screen

## ⬤ How to adjust the OSD (On Screen Display) screen

MENU → [▲ ENTER ⊙ ▼] → ENTER ⊙ → [▲ ENTER ⊙ ▼] → ENTER ⊙ → [◄ ENTER ⊙ ►] → ENTER ⊙ → EXIT

| Pops up the menu screen | Move where you want to adjust | Select a menu icon | Move where you want to adjust | Select a menu icon | Adjust the status | Save adjustment | Exit from the menu screen. |

**• Use the remote control to adjust the OSD 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 **ENTER** Button.

**4**    To access a control, use the ▼ ▲ Buttons.

**5**    When the icon you want becomes highlighted, press the **ENTER** Button.

**6**    Use the ▼ ▲ ◄ ► Buttons to adjust the item to the desired level.

**7**    Accept the changes by pressing the **ENTER** Button.

**8**    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.

## ◻ **Adjusting Screen Color**

**EZ Video**

```
┌─────────────────────┐
│   PICTURE           │
│ EZ Video          ▶ │  ┌──────────────┐
│ ACC                 │  │ Dynamic      │
│ Contrast       50   │  │ Standard     │
│ Brightness     50   │  │ Mild         │
│ Color          50   │  │ Game         │
│ Sharpness      50   │  │ ✓User      ▶ │
│ Tint            0   │  │              │
│                     │  │              │
│                     │  │              │
│                     │  │ MENU Prev    │
└─────────────────────┘  └──────────────┘
```

**AV/S-Video/Component** input only

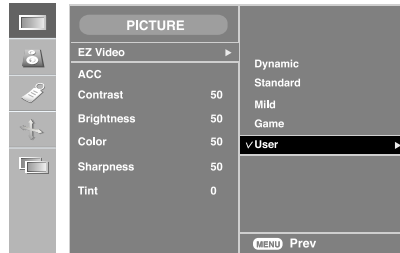The **EZ Video** function automatically adjusts the screen image quality depending on the AV usage environment.

• **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.

```
┌─────────────────────┐
│   PICTURE           │
│ EZ Video          ▶ │  ┌──────────────┐
│ ACC                 │  │ Dynamic      │
│ Contrast       50   │  │ Standard     │
│ Brightness     50   │  │ Mild         │
│ Color          50   │  │ Game         │
│ Sharpness      50   │  │ ✓User      ▶ │
│ Tint            0   │  │              │
│                     │  │ MENU Prev    │
└─────────────────────┘  └──────────────┘
```

**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 cleaness of the screen.
**Tint**
To adjust the tint to desired level.

**ACC**

```
┌─────────────────────┐
│   PICTURE           │
│ EZ Video            │  ✓ Warm
│ ACC               ▶ │    Normal
│                     │    Cool
│                     │
│                     │
│                     │
│                     │
│                     │
│ MENU Prev           │
└─────────────────────┘
```

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.

---

# Selecting and Adjusting the Screen

## ▣ Adjusting Screen Color

**ACC**

```
         PICTURE
   EZ Video          ✓6500K
   ACC          ▶     9300K
                      3600K
                      User



   MENU  Prev
```

**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.

```
         PICTURE
   EZ Video              6500K
   ACC          ▶        9300K
   Contrast      50      3600K
   Brightness    50    ✓User    ▶
   Red           50
   Green         50
   Blue          50


                      MENU  Prev
```

**Contrast**
To adjust the contrast of the screen.
**Brightness**
To adjust the brightness of the screen.
**Red / Green / Blue**
Set your own color levels.
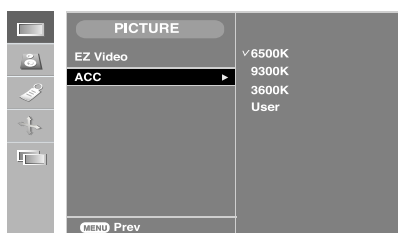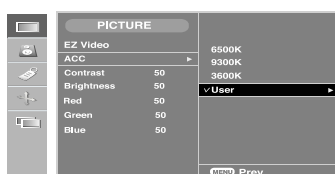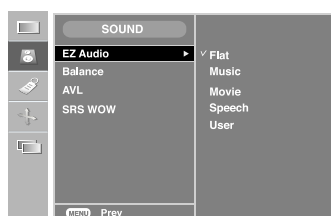
## 🔊 Adjusting the audio function
- The function is only available on the products that come with speakers.

**EZ Audio**

```
         SOUND
   EZ Audio    ▶    ✓Flat
   Balance           Music
   AVL               Movie
   SRS WOW           Speech
                     User



   MENU  Prev
```

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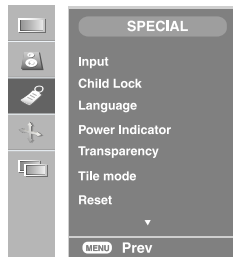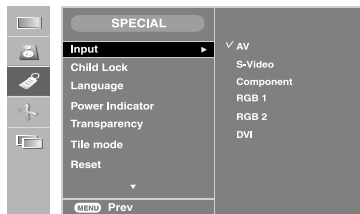
> **Note**   When connected to your computer and the **'EZ Audio'** setting in the audio menu is one of **Flat**, **Music**, **Movie** or **Speech**, the available menus are Balance, **AVL** and **SRS WOW** .

# ✐ Selecting the options

SPECIAL

Input
Child Lock
Language
Power Indicator
Transparency
Tile mode
Reset
▼

MENU Prev

**Input**

SPECIAL

Input ►
Child Lock
Language
Power Indicator
Transparency
Tile mode
Reset
▼

MENU Prev

∨ AV
S-Video
Component
RGB 1
RGB 2
DVI

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.
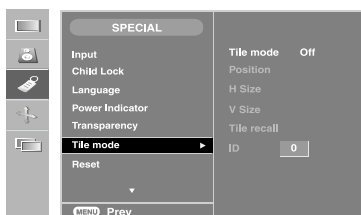
# Selecting and Adjusting the Screen
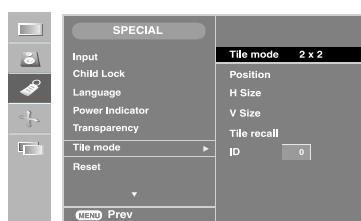
## Selecting the options

**• To use this function**
- You can connect the product with several other products and use the Tile mode function.
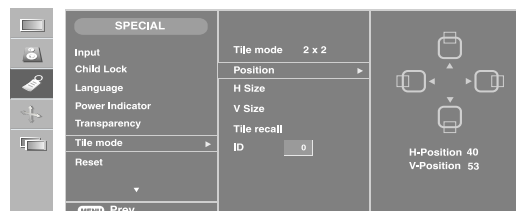
**Tile mode**

| SPECIAL |  |
|---|---|
| Input | **Tile mode** **Off** |
| Child Lock | Position |
| Language | H Size |
| Power Indicator | V Size |
| Transparency | Tile recall |
| **Tile mode** ▶ | ID 0 |
| Reset | |
| ▼ | |
| MENU Prev | |

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

| SPECIAL |  |
|---|---|
| Input | **Tile mode** **2 x 2** |
| Child Lock | Position |
| Language | H Size |
| Power Indicator | V Size |
| Transparency | Tile recall |
| Tile mode ▶ | ID 0 |
| Reset | |
| ▼ | |
| MENU Prev | |

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

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

| SPECIAL |  |  |
|---|---|---|
| Input | Tile mode 2 x 2 | |
| Child Lock | **Position** ▶ | |
| Language | H Size | |
| Power Indicator | V Size | |
| Transparency | Tile recall | |
| Tile mode ▶ | ID 0 | H-Position 40 |
| Reset | | V-Position 53 |
| ▼ | | |
| MENU Prev | | |

**• 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.

| SPECIAL |  |  |
|---|---|---|
| Input | Tile mode 2 x 2 | |
| Child Lock | Position | |
| Language | **H Size** ▶ | 0 ◄ ► |
| Power Indicator | V Size | |
| Transparency | Tile recall | |
| Tile mode ▶ | ID 0 | |
| Reset | | |
| ▼ | | |
| MENU Prev | | |

**• 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**
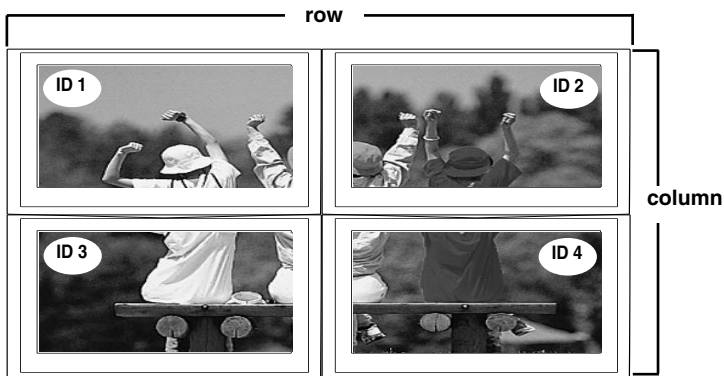Select the location of the Tile by setting an ID.

# 🏷️ **Selecting the options**
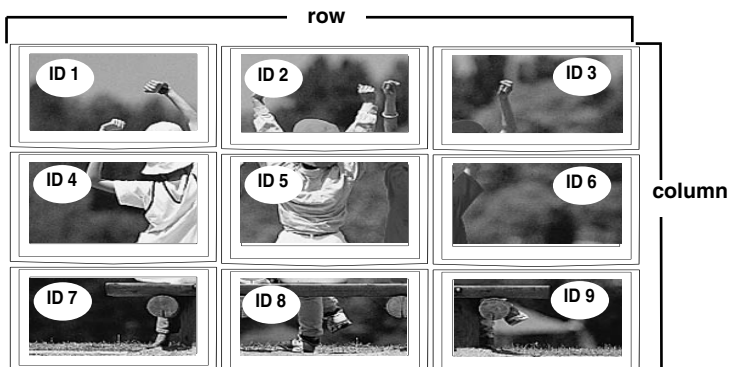
• **Tile mode**

- 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)**



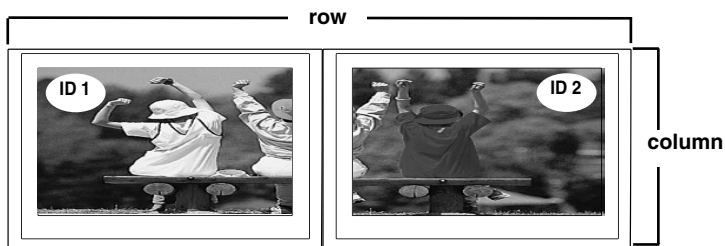- **Tile mode (product 1 ~ 9) : r(3) x c(3)**

# Selecting and Adjusting the Screen
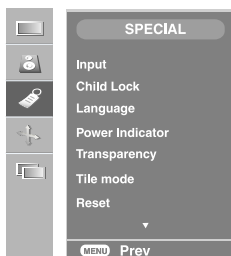
## Selecting the options

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

row

ID 1  ID 2

column

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

## Selecting the options

SPECIAL

Input
Child Lock
Language
Power Indicator
Transparency
Tile mode
Reset

MENU  Prev

**Set ID**

SPECIAL

Set ID
Logo Display Lamp
Light Sensor

ID    0

MENU  Prev

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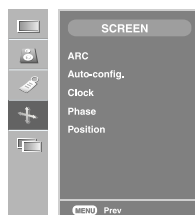
**Logo Display Lamp**    Use this function to set the Logo Dispaly Lamp on the front side of the product to **On** or **Off**. If you set it to **On**, the lamp will automatically be turned on.

**Light Sensor**    Use this function to set the Light Sensor on the front side of the product to **On** or **Off**. If you set it to **On**, the sensor will automatically be turned on.
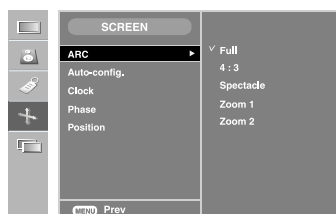
A27

# Adjusting Screen CLOCK/PHASE and Position

```
                    SCREEN
            ARC
            Auto-config.
            Clock
            Phase
            Position


            MENU  Prev
```

**ARC**

To select the image size of the screen.

<**AV/S-Video/Component** input only>   <**RGB1, 2 / DVI** input only>

```
            SCREEN                         SCREEN
    ARC          ▶  √ Full         ARC          ▶  √ Full
    Auto-config.      4 : 3        Auto-config.      1 : 1
    Clock             Spectacle    Clock             Zoom 1
    Phase             Zoom 1       Phase
    Position          Zoom 2       Position


    MENU  Prev                     MENU  Prev
```

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

**Auto config.**

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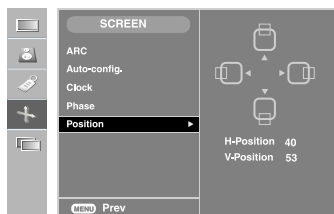This function is suitable for analoge singnal input only(RGB PC input only).

**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 analoge singnal 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 analoge
singnal input only(RGB PC input only).

**Position**

```
            SCREEN
    ARC
    Auto-config.
    Clock
    Phase
    Position      ▶

                    H-Position  40
                    V-Position  53

    MENU  Prev
```

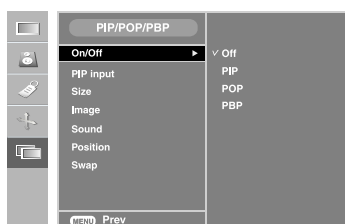To adjust position of the screen
(RGB PC input only).
Press the ▶ button to display the submenu for
position.

◀ Left    Moving the screen position
▶ Right   horizontally.

▲ Up      Moving the screen position
▼ Down    vertically.
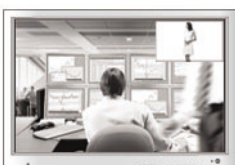
# Selecting and Adjusting the Screen

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

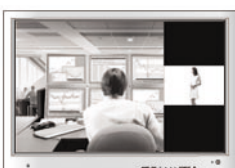| PIP/POP/PBP | |
|---|---|
| On/Off ► | ∨ Off |
| PIP input | PIP |
| Size | POP |
| Image | PBP |
| Sound | |
| Position | |
| Swap | |
| MENU Prev | |

**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.

**PIP input**   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.

| PIP/POP/PBP | | |
|---|---|---|
| On/Off | Contrast | 5 |
| PIP input | Brightness | 50 |
| Size | Colour | 50 |
| Image ► | Tint | 0 |
| Sound | | |
| Position | | |
| Swap | | |
| MENU Prev | | |

■ **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

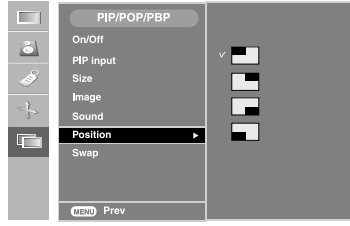\* The sub-menu can differ according to the type of the input signal.

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

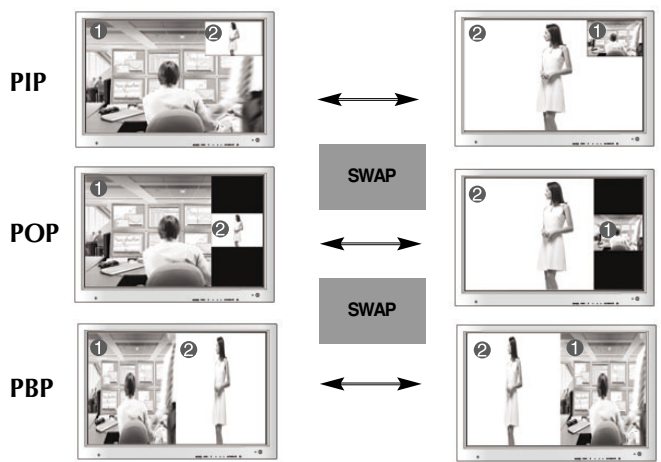# Adjusting PIP/POP/PBP Mode (Multiple Screen) Functions

**Position**

| PIP/POP/PBP |
| --- |
| On/Off |
| PIP input |
| Size |
| Image |
| Sound |
| Position ▶ |
| Swap |
| MENU Prev |

To adjust the position to PIP screen.

**Swap**

| PIP/POP/PBP | |
| --- | --- |
| On/Off | |
| PIP input | To Set |
| Size | |
| Image | |
| Sound | |
| Position | |
| Swap ▶ | |
| MENU Prev | |

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

**PIP**

**SWAP**

**POP**

**SWAP**

**PBP**

# Troubleshooting

## 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.**

● **Is 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 / RGB2 : 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 'INPUT' menu in the remote Control to check the input signal.

## '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.

## 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.<br>• 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. |
| ● **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. |

# Troubleshooting

## 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.
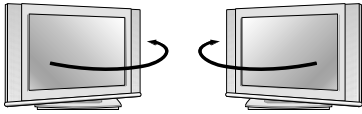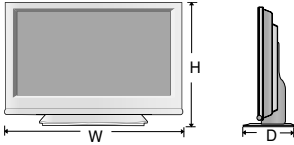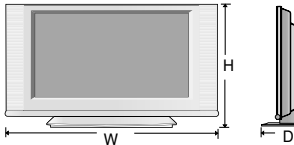
## Screen color is abnormal.

● **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** | 55 inches (139.7 cm) TFT (Thin Film Transistor)<br>LCD (Liquid Crystal Display) Panel<br>Visible diagonal size: 139.7 cm<br>0.630 mm (Pixel Pitch) |
| **Power** | **Rated Voltage**    AC 100-240V~ 50/60Hz 3.5A<br>**Power Consumption**   On Mode      : 350W<br>                                Sleep Mode    : ≤ 3W<br>                                  Off Mode       : ≤ 3W |
| **Stand range** | -30° ~ 30° |
| **Dimensions &Weight** | [1]<br><br>[2] |

Width x Height x Depth

**[1]** 1375.4 cm (541.5 inches) x 943.2 cm (371.34 inches) x 320.0 cm (125.98 inches)
**[2]** 1612.0 cm (634.6 inches) x 943.2 cm (371.34 inches) x 320.0 cm (125.98 inches)

**Net**
**[1]** 68.5 kg (151.01 lbs)
**[2]** 72.9 kg (160.71 lbs)

**NOTE**
■ Information in this document is subject to change without notice.

# Specifications

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

| Video Signal | Max. Resolution | RGB1 / RGB2 : 1920 X 1080 @60Hz<br>DVI : 1920 X 1080 @60Hz – It may not be supported depending on the OS or video card type. |
|---|---|---|
| | Recommended Resolution | RGB1 / RGB2 : WSXGA 1920 X 1080 @60Hz<br>DVI : WSXGA 1920 X 1080 @60Hz – It may not be supported depending on the OS or video card type. |
| | Horizontal Frequency | 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<br>Storage Condition | Temperature: 5˚C ~ 35˚C , Humidity: 10% ~ 80%<br>Temperature: -20˚C ~ 60˚C , Humidity: 5% ~ 95% |

**\* Applicable only for models that support the speakers**

| Audio | RMS Audio Output<br>Input Sensitivity<br>Speaker Impedance | 10W+10W(R+L)<br>0.7Vrms<br>8$\Omega$ |
|---|---|---|

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

## PC Mode – Preset Mode

| | 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 | 1360 x 768 | 47.72 | 60 |
| 4 | VESA | 640 x 480 | 37.500 | 75 | 14 | VESA | 1280 x 1024 | 63.981 | 60 |
| 5 | VESA | 640 x 480 | 43.269 | 85 | 15 | VESA | 1280 x 1024 | 79.98 | 75 |
| 6 | VESA | 800 x 600 | 37.879 | 60 | 16 | VESA | 1920 x 1080 | 66.587 | 60 |
| 7 | VESA | 800 x 600 | 46.875 | 75 | | | | | |
| 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.