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ENGLISH


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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 the 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

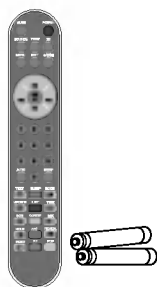
- The fluorescent lamp used in this product contains a small amount of mercury.
- Do not dispose of this product with general household waste.
  - Disposal of this product must be carried out in accordance to the regulations of your local authority.

# Accessories

Please check the accessories in the product package.

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

ENGLISH



Remote Control/Batteries



Cable Cap



User's Guide  
/Cards/Driver CD



15-pin D-Sub Signal  
Cable



DVI-D Signal Cable



Power Cord

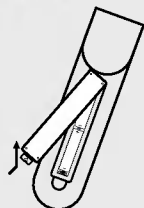


Audio Cable (PC)



MIC Cable

## ● Inserting batteries into remote control.



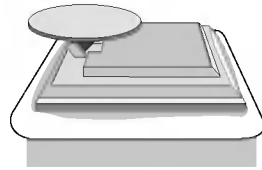
1. Take out the battery cap.
2. Insert the batteries with correct polarity (+/-).
3. Close the battery cap.
  - You can use a remote controller 7 meter distance and 30 degree (left/right) within the receiving unit scope.
  - Dispose of used batteries in the recycle bin to prevent environmental pollution.

# Before Connecting to the PC

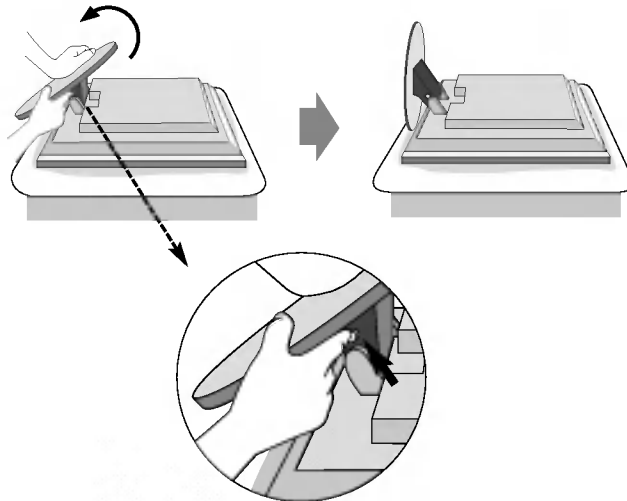
- Before setting up the product, ensure that the power to the product, the computer system, and other attached devices is turned off.

## ■ ■ Unfolding the stand base

- 1 Place the product with its front facing downward on the soft cloth.



- 2 Hold down the release button inside the stand and strongly pull out the stand with your two hands.



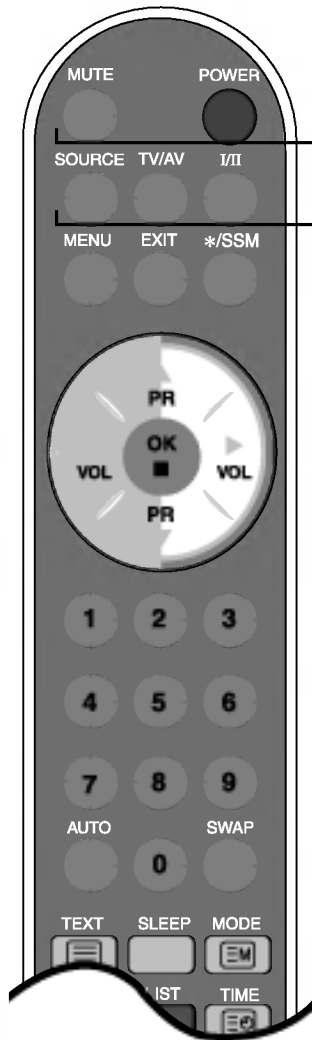
The stand won't move if you don't press release button.

# Name and Function of the Parts

For detailed instructions of each button on the remote control, refer to the appropriate pages of this manual.

## Remote Control

ENGLISH



■ **NOTE** : In case of weak stereo sound signals, with stereo or Nicam stereo transmission, select mono reception.

### MUTE POWER

### SOURCE



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

### TV/AV : TV/AV button

[PC mode]

TV > AV1-COMPONENT > AV2-CVBS > S-VIDEO

[TV mode]

AV1-COMPONENT > AV2-CVBS > S-VIDEO > TV

### I/II

[TV]

- to switch from **Stereo** to **Mono** sound in case of stereo transmission, or from **Nicam Stereo** to **Nicam Mono**, in case of digital transmission.
- to switch from **Nicam Dual I** to **Nicam Dual II** or **Nicam Dual I+II** in case of Nicam Dual transmission.
- to choose between **Dual I**, **Dual II** or **Dual I+II** in case of bilingual transmission :
  - Dual I** sends the primary broadcast language to the loudspeakers ;
  - Dual II** sends the secondary broadcast language to the loudspeakers ;
  - Dual I+II** sends a separate language to each loudspeakers.

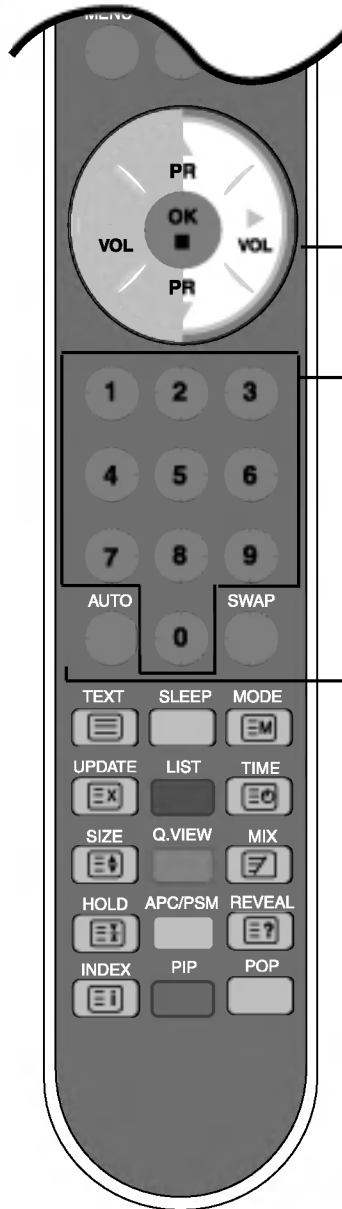
[AV]

In AV mode, you can select output sound for the left and right loudspeakers. Repeatedly press the I/II button to select the sound output.

- L+L : Audio signal from audio L input is sent to left and right loud-speakers.
- L+R : Audio signal from audio L input is sent to left loud-speaker and audio signal from audio R input is sent to right loud-speaker.
- R+R : Audio signal from audio R input is sent to left and right loud- speakers.

# Name and Function of the Parts

## Remote Control



PR ( ▲▼ ) Buttons  
VOL ( ◀▶ ) Buttons  
OK Button

Number buttons

### AUTO Button

- This function is to automatically adjust your display image to the ideal settings for the current screen resolution size (display mode). It is available to the PC analogue signal input only.

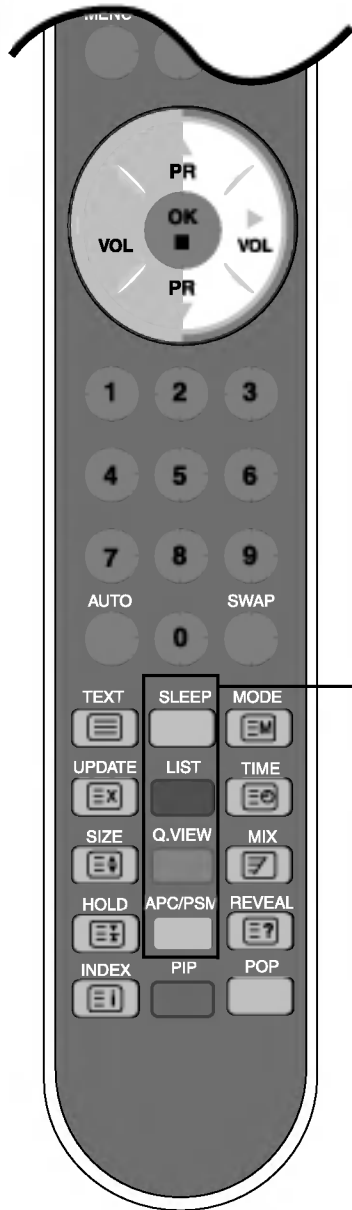
### SWAP

There is not a function which is supported



## Remote Control

ENGLISH



### SLEEP : SLEEP Timer

You can set a time period after which the AV/TV should switch itself to standby. Press the key repeatedly to select the number of minutes.



### LIST : Programme list

To display the programme list (0~ 99).



Note: TV channels displayed in blue have been setup to skipped in the Programme Edit menu

### Q.VIEW : QUICK VIEW Button

To display the previously selected TV channel.

### APC/PSM(Picture Status Memory)

Press repeatedly to select **Dynamic**, **Standard**, **Mild**, **Game** or **User** picture mode. This function is not supported in PC mode.

# Name and Function of the Parts

## Remote Control - PIP

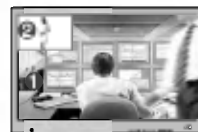


### (Picture in Picture)

The sub-screen is changed in the order shown below.  
: SMALL -> LARGE -> OFF

### POP

There is not a function which is supported



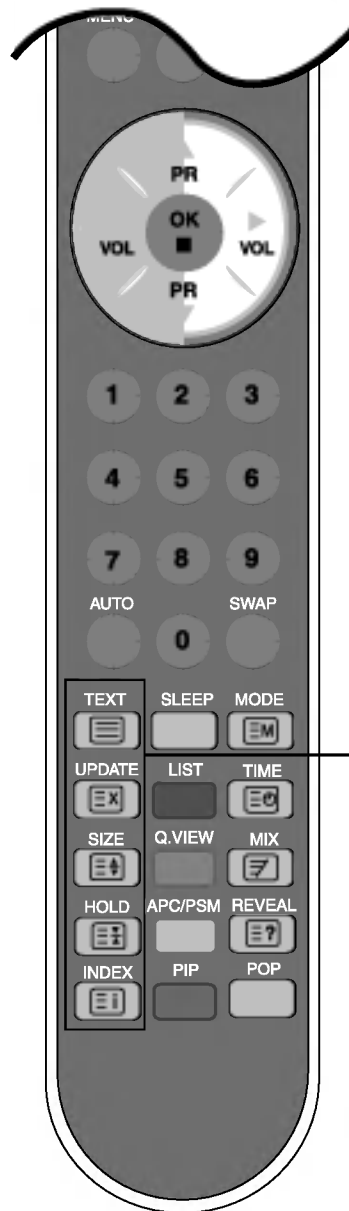
PIP

< Table of PIP Function Support >

Main Screen / Sub-Screen	DSUB ANALOGUE	DVI DIGITAL	AV1-COMPONENT
DSUB ANALOGUE	X	X	X
DVI DIGITAL	X	X	X
AV1-COMPONENT	X	X	X
AV2-CVBS	●	●	●
S-VIDEO	●	●	●
TV	●	●	●

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. The PIP function is operated when the input signal of the main screen is DSUB ANALOGUE or DVI DIGITAL, AV1-COMPONENT signal only.

## Remote Control - Using the Teletext function



### TEXT

To select the teletext on or off. The main index page or the last selected page appears on the screen together with an information headline and an option line at the bottom of the screen.

### UPDATE

Press the button to appear the TV programme. At the top of screen indicates that you are still in the teletext mode. Before interrupting teletext, you may select a page number. When the page has been found, the information line appears briefly on your screen. Press the button again to reappear teletext.

### SIZE

Press the button repeatedly to display the upper part, the lower part and then to return to the normal page size.

### HOLD

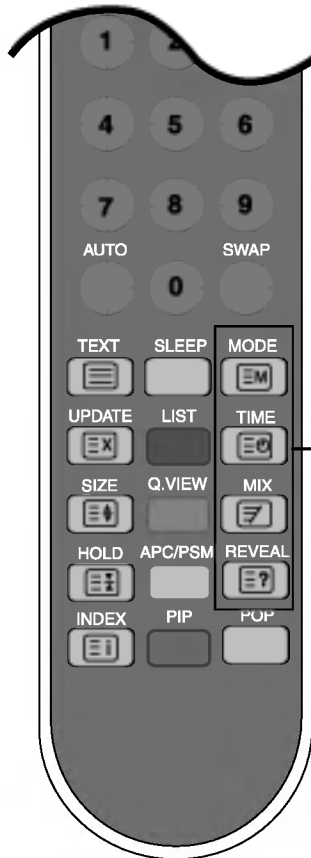
Press the button to stop the automatically rotating of the subpages. Press the button again to continue the automatic rotating again.

### INDEX

To display the main index.

# Name and Function of the Parts

## Remote Control - Using the Teletext function



### **MODE**

The mode will be switched in the Teletext mode.

### **TIME**

When viewing a TV programme, press this button to display the time at the top right hand corner of the screen.  
press this button to select a sub page number. The sub page number is displayed at the bottom of the screen. To hold or change the sub page, press the RED/GREEN, ▲ ▼ or NUMBER buttons. Press again to exit this function.

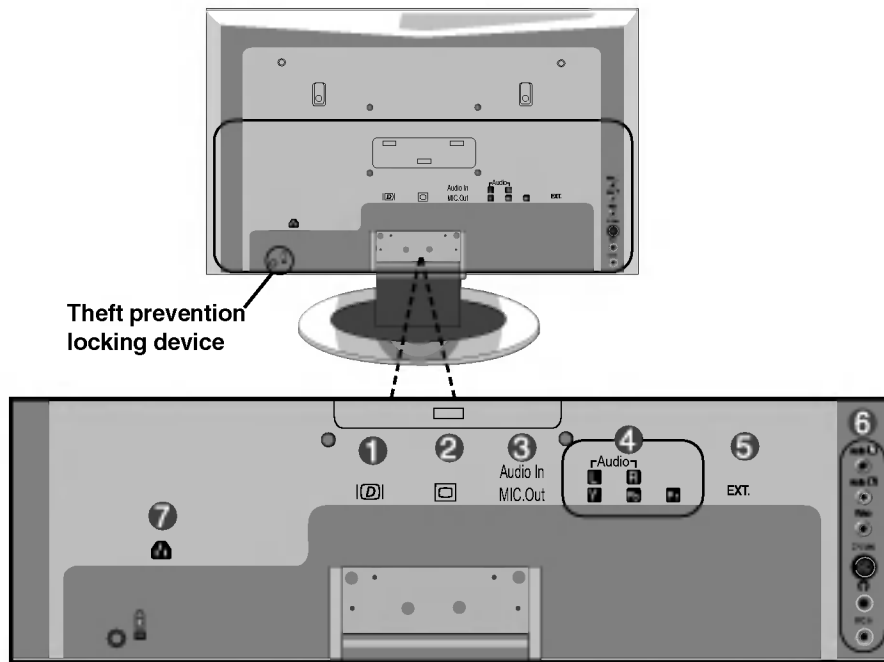
### **MIX**

Display the teletext pages superimposed on the TV picture. To switch the TV picture off press this button again.

### **REVEAL**

Press the button to reveal/conceal the hidden information, such as solutions to riddles and puzzles. Press this button again to remove the information from the display.

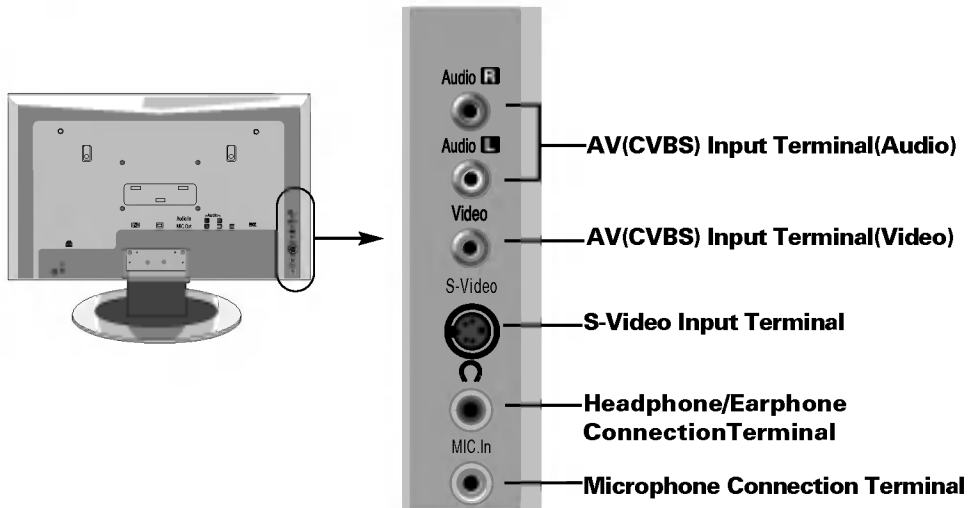
● Rear View



- ① DVI Signal Connector
- ② D-Sub Analogue Signal Connector
- ③ Audio Jack : Connect to the jack in the PC sound card.  
Mic Jack : Connect to the jack in the PC /Audio product.
- ④ HDTV Input : Connect the Component.
- ⑤ TV Tuner Jack : Connect the antenna.
- ⑥ AV Input Terminal
- ⑦ Power Cord Connector : Connect the power cord.

# Name and Function of the Parts

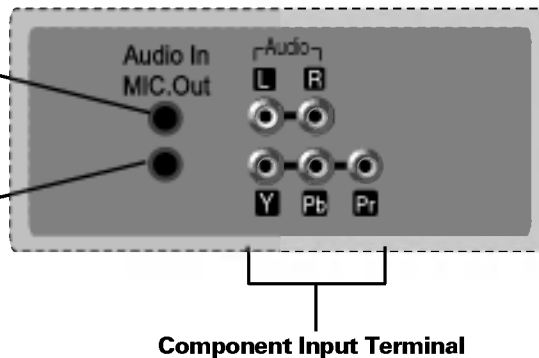
## ● Rear View



## ● Sound card Connection Terminal Input Terminal

**PC Audio Input Terminal**  
- Connect the audio cable to the LINE OUT jack in the PC sound card.

**Microphone Connection Terminal**  
- Connect the microphone cable to the MIC jack in the PC sound card.



## ● Connecting the sound card output terminal

Make sure to check the sound card connection terminal in the PC before connecting to the product. If the PC sound card supports both Speaker Out and Line Out, change it to Line Out by setting the jumper or the PC application. (For more details, refer to the sound card user's manual.)

- **Speaker Out** : The terminal connected to the speaker that is not equipped with an amplifier.
- **\*Line Out** : The terminal connected to the speaker equipped with an amplifier.

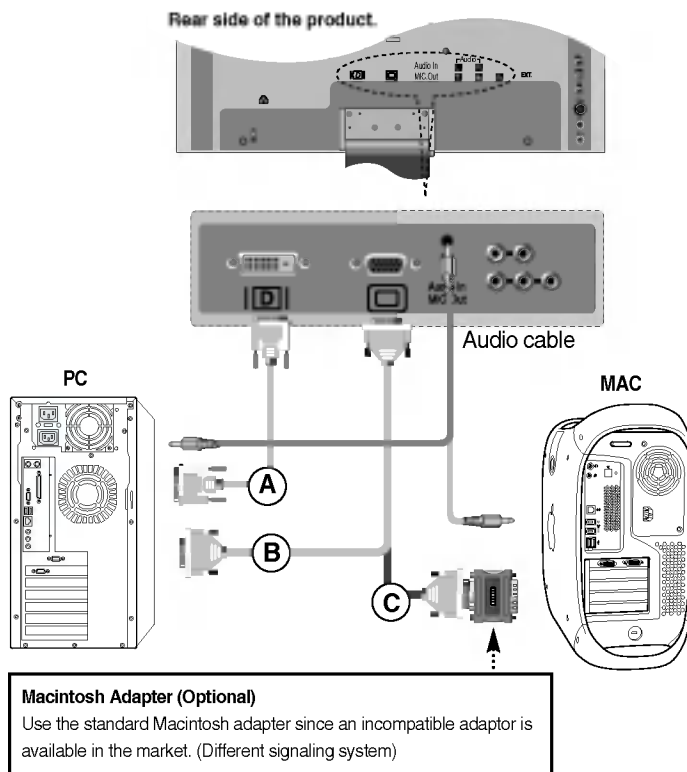
If Audio Out in the PC sound card has only Speaker Out, reduce the PC volume. This product is integrated with an amplifier.

# Connecting to External Devices

## ■ ■ When Connecting to your PC

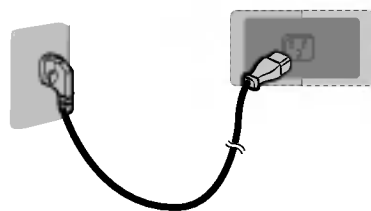
ENGLISH

- 1 First of all, see if the computer, product and the peripherals are turned off. Then, connect the signal input cable and audio cable.
  - A When connecting with the DVI signal input cable.
  - B When connecting with the D-Sub signal input cable. (IBM compatible PC)
  - C When connecting with the D-Sub signal input cable. (Macintosh)

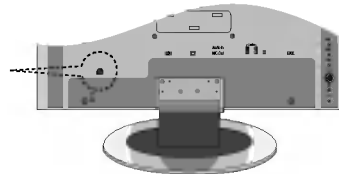


- 2 Connect the power cord.

\* When connecting to a wall outlet.

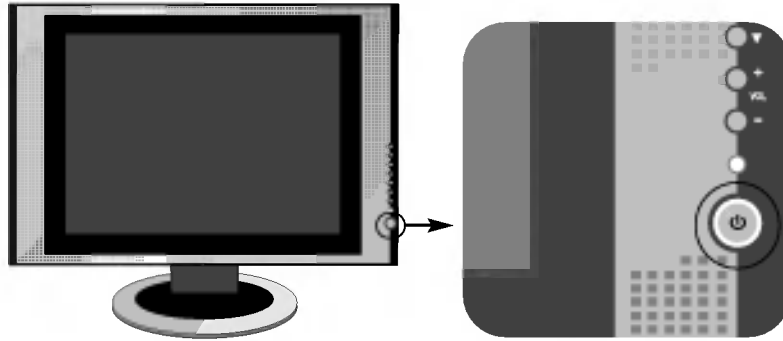


Rear side of the product.



# Connecting to External Devices

- ③ **A** If the system is not powered up, check if the main power switch is in the 'on' position.



- B** Turn on the PC.

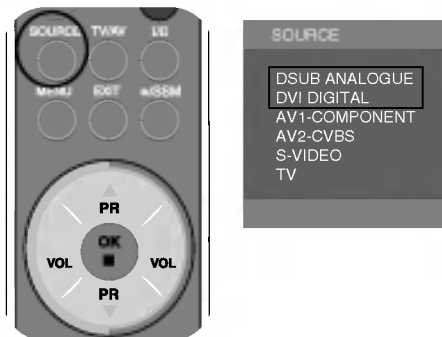
- ④ Select an input signal.  
Press the SOURCE button on the remote control to select the input signal.

**SOURCE** → ▼▲ → OK

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

**SOURCE** → ▼▲ → AUTO/SELECT

- A** When connecting with a DVI-D signal cable.  
• Select **DVI DIGITAL** : DVI-D digital signal.
- B** When connecting with a 15-pin D-Sub signal cable.  
• Select **DSUB ANALOGUE** : D-Sub analogue signal.



## Note

### How to connect to two computers.

Connect the signal cables (DVI DIGITAL and DSUB ANALOGUE) to each computer.

Press the Input Select button in a remote controller to select the computer to use.

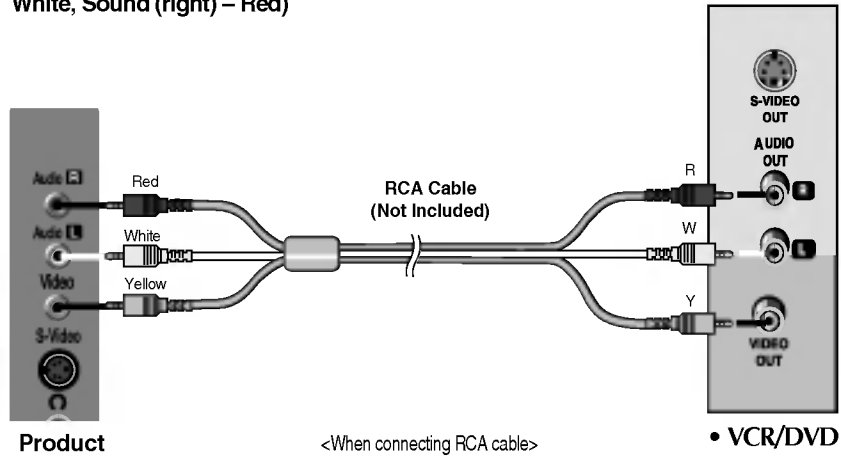
\* Directly connect to a grounded power outlet on the wall or a power bar with a ground wire.



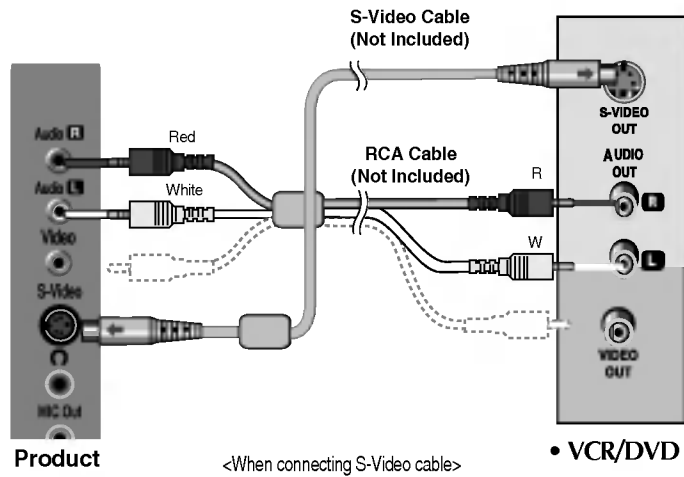
### ■ ■ When watching VCR/DVD

**1** Connect the video cable as shown in the below figure and then connect the power cord (See page A14).

- A** When connecting with an RCA cable.
- Connect the input terminal with a proper color match. (Video – Yellow, Sound (left) – White, Sound (right) – Red)



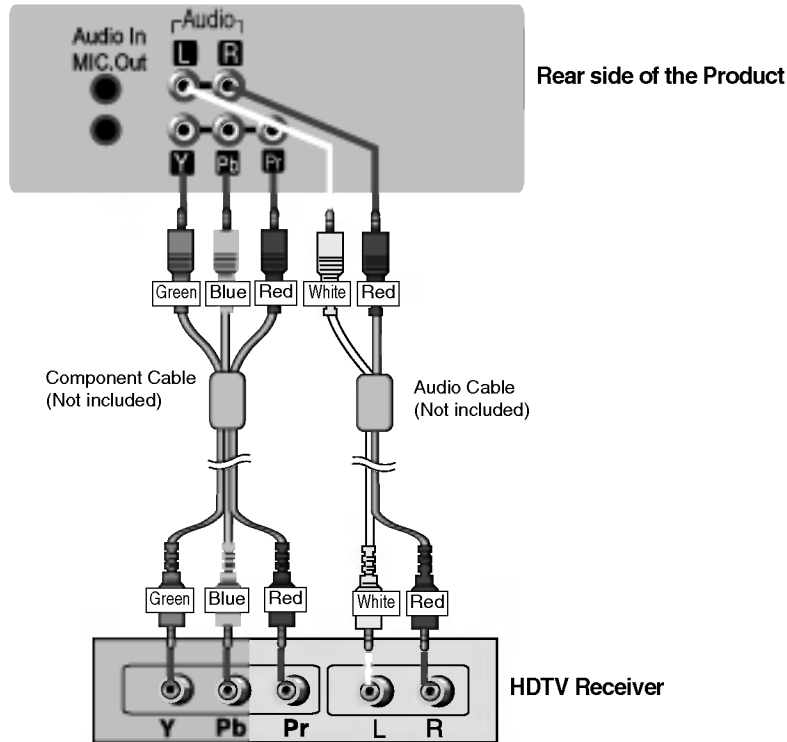
- B** When connecting with an S-Video cable.
- Connect to the S-Video input terminal to watch high image quality movies.



# Connecting to External Devices

## ■ ■ When watching HDTV

- ① Connect the video/audio cable as shown in the below figure and then, connect the power cord.
- Connect the input terminal with a proper color match.



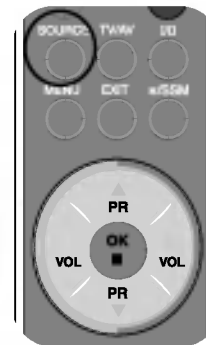
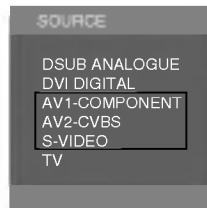
- ② Select an input signal.  
Press the SOURCE button on the remote control to select the input signal.

SOURCE → ▼▲ → OK

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

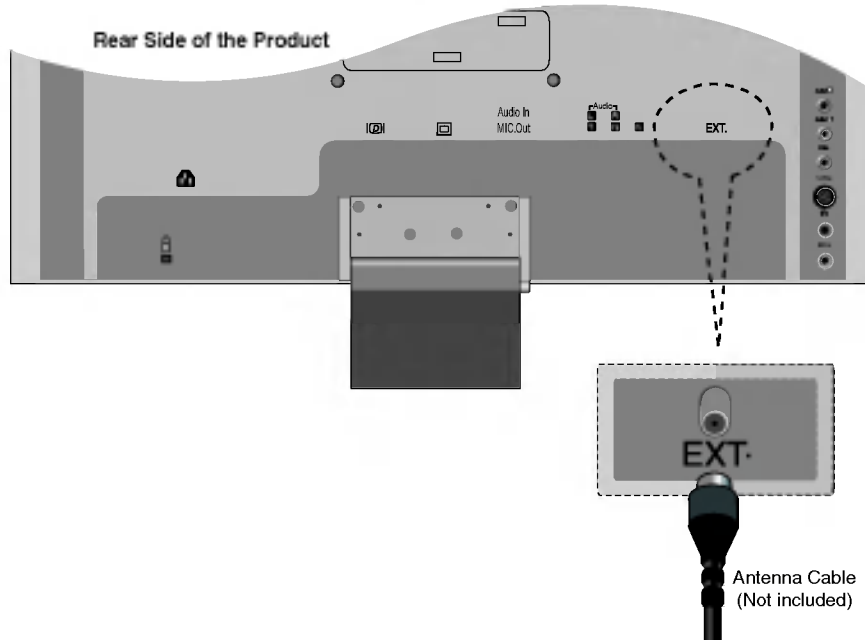
SOURCE → ▼▲ → AUTO/SELECT

- Ⓐ When connecting with a RCA cable.  
• Select AV2-CVBS
- Ⓑ When connecting with a S-Video cable.  
• Select S-VIDEO
- Ⓒ When connecting with a Component cable/Audio cable.  
• Select AV1-COMPONENT



■ ■ When watching TV

- 1 See if the antenna cable is connected at the rear side of the product and then, connect the power cord (see page A14).



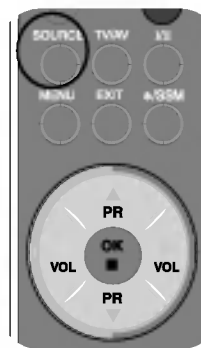
- 2 Select an input signal.  
Press the SOURCE button on the remote control to select the input signal.

SOURCE → ▼▲ → OK

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

SOURCE → ▼▲ → AUTO/SELECT

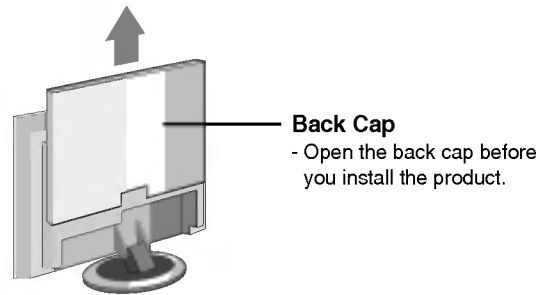
- Select TV



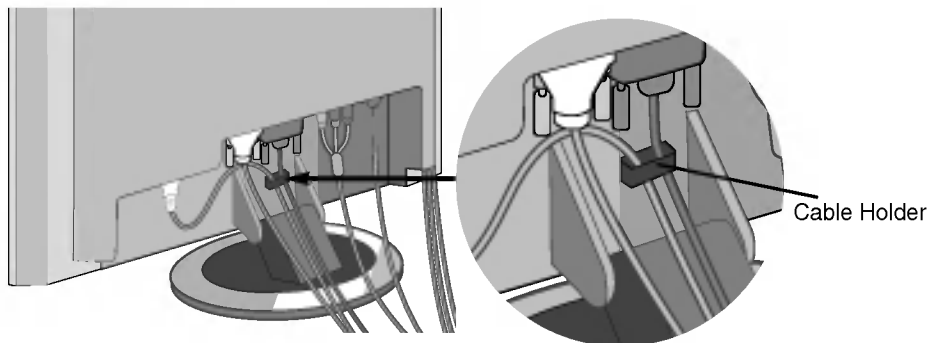
# Connecting to External Devices

## ■ ■ To arrange the cables

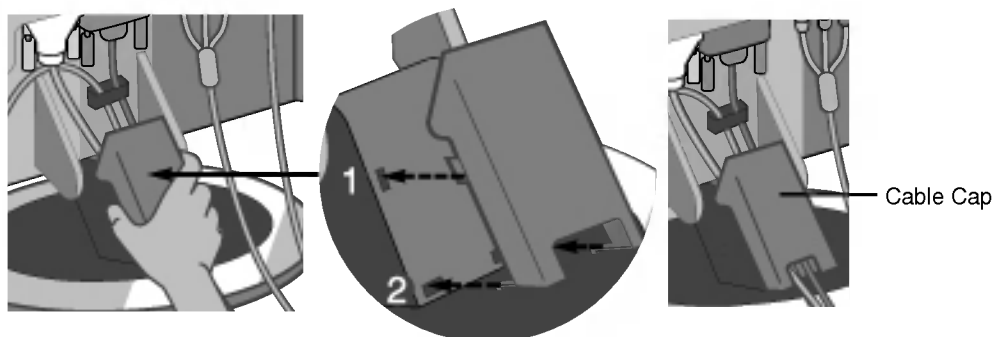
- 1 First, pull out the back cap attached to the rear of the product to detach, as shown.



- 2 After connecting the cables neatly, arrange the cables to the Cable Holder as shown in the following figure.



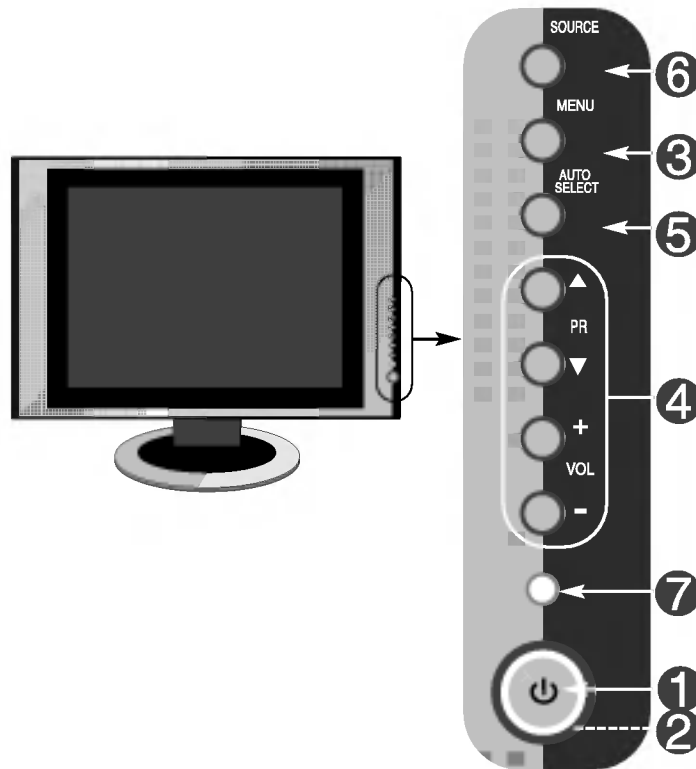
- 3 Push the cable cap according to the steps shown in the following figure.



# Selecting and Adjusting the Screen

ENGLISH

## ● Name of the Buttons in the Screen Adjustment Unit



**1 Power Button** • Press the button to turn on the power. Press the button again to turn it off.

**2 Power Indicator** • This indicator lights up blue 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 the button to select an icon or adjust the setting in the OSD screen.

+ - • Adjust the volume.



# Selecting and Adjusting the Screen

## ● Name of the Buttons in the Screen Adjustment Unit

### 5 AUTO/SELECT Button [For PC Analogue signal]



PROCESSING AUTO  
IMAGE ADJUSTMENT  
  
FOR OPTIMAL DISPLAY CHANGE  
RESOLUTION TO 1280X1024

[When executing Auto in 720p/576p mode on the PC]



DVD/SET TOP BOX INPUT  
NO ACCESS

### 6 SOURCE Button SOURCE → ▼▲ → AUTO/SELECT

• Select the input signal

DSUB ANALOGUE	15-pin D-Sub analogue signal
DVI DIGITAL	DVI digital signal
AV1-COMPONENT	Component
AV2-CVBS	Composite Video
S-VIDEO	Separate Video
TV	Television








SOURCE  
DSUB ANALOGUE  
DVI DIGITAL  
AV1-COMPONENT  
AV2-CVBS  
S-VIDEO  
TV





### 7 IR Receiver • The unit that receives the signal from the remote control.

## OSD Menu




### When Connecting PC

Icon	Function Description
 PICTURE	Adjusting Screen picture.
 SOUND	Adjusting the audio function.
 ADJUSTMENT	Adjusting Screen Clock/Phase and Position (Only D-Sub)
 PIP	Adjusting PIP Mode (Multiple Screen) Functions
 SETUP	Adjusts the screen status according to the circumstances.

### When Watching TV

Icon	Function Description
 PICTURE	Adjusting Screen picture.
 SOUND	Adjusting the audio function.
 SETUP	Adjusts the screen status according to the circumstances.
 STATION	Set/Selects the channel. (available only when watching TV)

### When Watching Video/DVD

Icon	Function Description
 PICTURE	Adjusting Screen picture.
 SOUND	Adjusting the audio function.
 SETUP	Adjusts the screen status according to the circumstances.



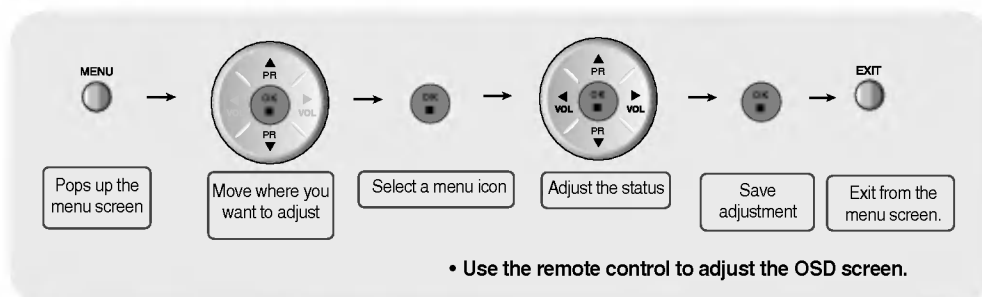
#### Note

#### OSD(On Screen Display)

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

# Selecting and Adjusting the Screen

## ● 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 **OK** Button.

4 Use the **▼ ▲ ◀ ▶** Buttons to adjust the item to the desired level.

5 Accept the changes by pressing the **OK** 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.

Press the **AUTO/SELECT** button (**AUTO** button in a remote controller) in the PC analogue 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.

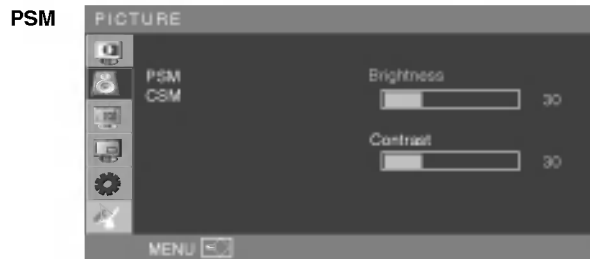
PROCESSING AUTO  
IMAGE ADJUSTMENT  
FOR OPTIMAL DISPLAY CHANGE  
RESOLUTION TO 1280X1024



## OSD Menu – When Connected to Your PC

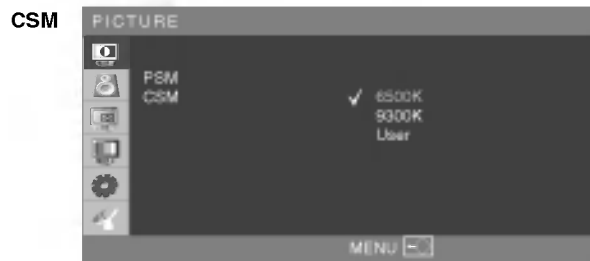
ENGLISH

### Adjusting Screen Picture



**Brightness**  
To adjust the brightness of the screen.

**Contrast**  
To adjust the contrast of the screen.



D-Sub Analogue/DVI Digital input only

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



**Red / Green / Blue**  
Set your own color levels.



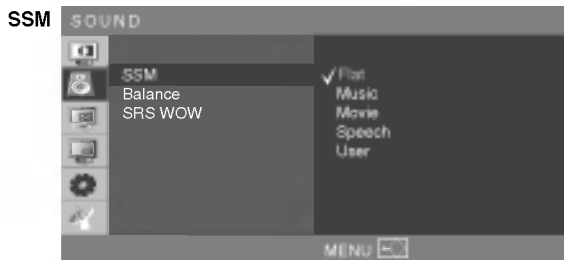
**Note**

If the input is D-Sub analogue/DVI Digital, the adjustable items in the **PSM** function are **Contrast/Brightness**.

# Selecting and Adjusting the Screen

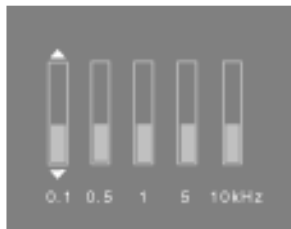


## Adjusting the audio function



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.

**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, **SSM** setting can not be adjusted.



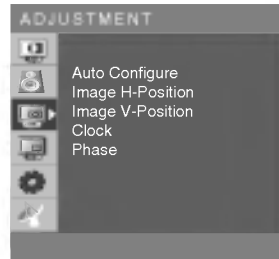
**Note** When connected to your computer and the '**SSM**' setting in the audio menu is one of **Flat**, **Movie**, **Music** or **Speech** the available menus are **Balance** and **SRS WOW**.



## Adjusting Screen Clock/Phase and Position (Only D-Sub)

It is not adjustable to the Auto, Clock, phase when watching 720p/576p mode.

ENGLISH

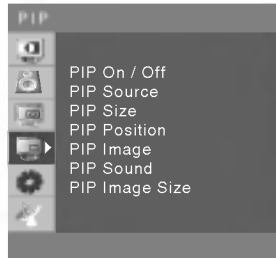


- Auto Configure** This function is suitable for analogue signal input only. This button is for the automatic adjustment of the screen position, clock and phase.
- Image H-Position** To move image left or right.
- Image V-Position** To move image up or down.
- Clock** To minimize any vertical bars or stripes visible on the screen background. The horizontal screen size will also change.
- 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.

# Selecting and Adjusting the Screen



## Adjusting PIP Mode (Multiple Screen) Functions



### PIP On/Off

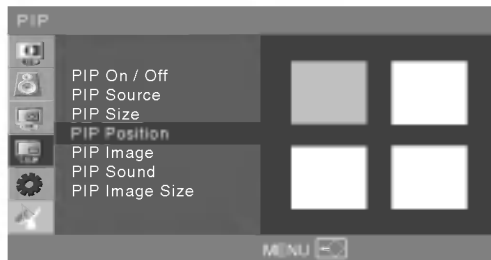


After selecting PIP in the PIP On/Off menu, the following menu items can be adjusted.

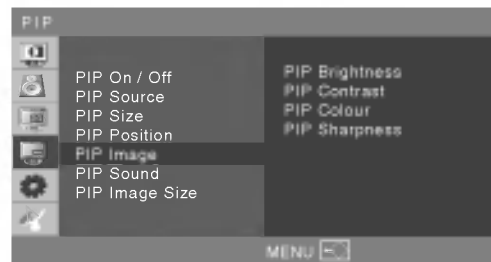
**PIP Source** To select an input signal for PIP.

**PIP Size** To adjust the size of the PIP screen. (PIP : Small, Large)

**PIP Position** Adjust the PIP screen position.



**PIP Image** To adjust the image of the PIP screen; Press the ► button to display the submenu for PIP Image. Select submenu and Press the 'OK' button. 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 Brightness**  
Adjust PIP screen brightness.
- **PIP Contrast**  
Adjust PIP screen contrast.
- **PIP Colour**  
Adjust the PIP screen color.
- **PIP Sharpness**  
Adjust the PIP screen sharpness.
- **Tint**  
Adjust the PIP screen tint.  
(60Hz : enable, 50Hz : disable)

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

**PIP Image Size** To select the image size of the screen. (5:4, 4:3, 16:9, ZOOM)  
Size



Adjusts the screen status according to the circumstances.

ENGLISH



- Language** To choose the language in which the control names are displayed.
- 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 TV 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.
- Image Size** To select the image size of the screen.(5:4, 4:3, 16:9, ZOOM)  
(It is not adjustable to the DSUB ANALOGUE, DVI DIGITAL, AV1-COMPONENT Input source.)
- Reset** Use this function to reset the product to the factory default. However, language selection will not be initialized.

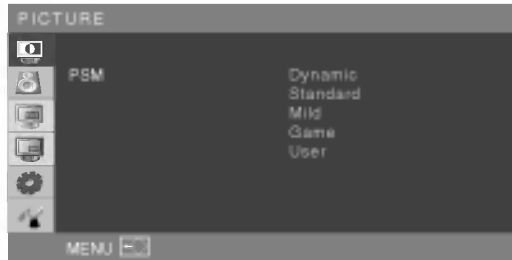
# Selecting and Adjusting the Screen

## ■ ■ OSD Menu – When Watching TV



### Adjusting Screen Picture

PSM



The PSM function automatically adjusts the screen image quality depending on the AV/TV 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 setting.



- Brightness** To adjust the brightness of the screen.
- Contrast** To adjust the contrast of the screen.
- Colour** To adjust the color to desired level.
- Sharpness** To adjust the clearness of the screen.
- Tint** To adjust the tint to desired level.  
(60Hz : enable, 50Hz : disable)

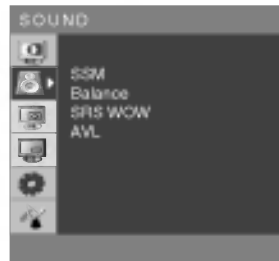


Note

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

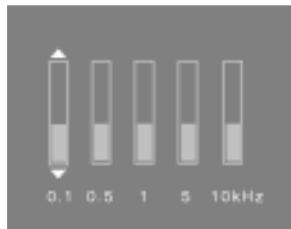


## Adjusting the audio function



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.

**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, **SSM** setting can not be adjusted.

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



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

# Selecting and Adjusting the Screen



Adjusts the screen status according to the circumstances.

---



- Language** To choose the language in which the control names are displayed.
- 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 TV 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
- Image Size** To select the image size of the screen.(5:4, 4:3, 16:9, ZOOM)
- Reset** Use this function to reset the product to the factory default. However, language selection will not be initialized.





## adjust the screen when using the TV

ENGLISH



- |                         |              |  |
|-------------------------|--------------|--|
| <b>Auto programme</b>   | System       | Press the ▲ ▼ buttons to select the TV system of the country or part of the world from where you want to receive the TV channels.<br>If you want to receive 'SECAM L' channel, change the SYSTEM menu to 'L' before launching an automatic search.   |
|                         | Storage from | To select a channel number or enter the channel number with the number buttons from where you want to start searching for new channels. If you want to keep the channels 1 to 10 stored earlier, enter channel number 11. Your TV search for new channels from number 11 onwards.  |
|                         | Search       | Press <b>OK</b> button to start automatic programming. all available TV channels are searched for and stored automatically. To stop auto programming, press the <b>MENU</b> button. When auto programming is completed, the programme list menu appears.   |
| <b>Manual programme</b> | Storage      | Press the ▲ ▼ buttons to select the channel number or enter the channel number with the number buttons in where you want to store channel.   |
|                         | System       | Press the ▲ ▼ buttons to select the TV system of the country or part of the world from where you want to receive the TV channels.  |
|                         | Channel      | Press the ▲ ▼ buttons to select <b>VHF/UHF</b> for aerial channels or <b>CABLE</b> for cable channels. If you know the C-channel number(01~69) or S-channel number(01~47), enter it directly with the digit buttons 0 to 9. To select the channel reception type. : <b>VHF/UHF, CABLE</b>  |
|                         | Search       | Use the ◀ ▶ buttons to search next channel backward or forward direction.  |
|                         | Name         | To see the assigned channel name.<br>It is possible to change the name stored in the memory or to assign a name to a TV channel which has not yet been entered. A name with up 5 letters or numbers can be given to the programme numbers 0 to 99.<br>Press the ◀ ▶ buttons to move cursor to be changed. -> Press the ▲ ▼ buttons to select a character.(space, number 0~9, and alphabet A~Z) -> Press the <b>AUTO/SELECT</b> button (or <b>OK</b> button on the remote control). |

# Selecting and Adjusting the Screen



## adjust the screen when using the TV

### Programme Edit



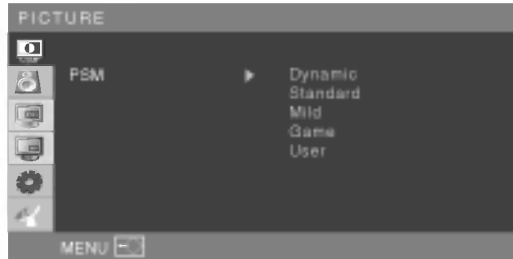
- Delete** Press the ▼▲◀▶ buttons to select a TV channel to be deleted. -> Press the red key on the remote control -> The selected TV channel number is deleted, all the following channels are shifted up one position.
- Move** Press the ▼▲◀▶ buttons to select a channel number to be moved. -> Press the yellow key on the remote control -> Press the ▼▲◀▶ buttons to move the TV channel to the desired channel number. -> Press the yellow key again to release this function.
- Copy** Press the ▼▲◀▶ buttons to select a TV channel to be copied. -> Press the green key on the remote control. All the following channel numbers are shifted down one position.
- Skip** Press the ▼▲◀▶ buttons to select a channel number to be skipped. -> Press the blue key on the remote control. The skipped TV channel is displayed in blue.

## OSD Menu – When Watching VCR/DVD



### Adjusting Screen Picture

PSM



The PSM function automatically adjusts the screen image quality depending on the AV/TV 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.



- Brightness** To adjust the brightness of the screen.
- Contrast** To adjust the contrast of the screen.
- Colour** To adjust the color to desired level.
- Sharpness** To adjust the clearness of the screen.
- Tint** To adjust the tint to desired level.  
(60Hz : enable, 50Hz : disable)



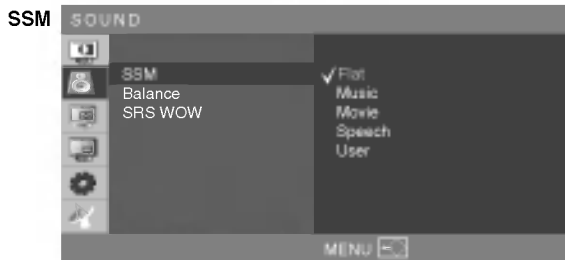
#### Note

If the 'PSM' 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

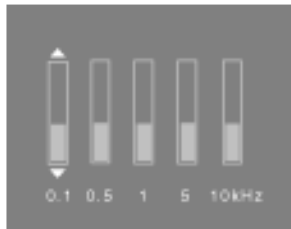


## Adjusting the audio function



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.

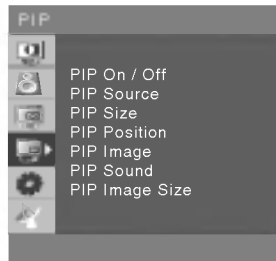
**SRS WOW** Set the **SRS WOW** menu on.  
The **SRS WOW** function plays back the mono or stereo sound input with the dynamic surround effects. It will provide rich and profound sound tone. If you set the **SRS WOW** on, **SSM** setting can not be adjusted.



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



## Adjusting PIP Mode (Multiple Screen) Functions (AV1-Component)



### PIP On/Off

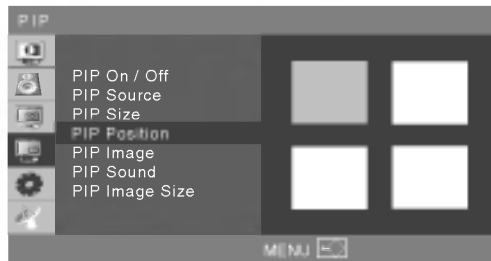


After selecting PIP in the PIP On/Off menu, the following menu items can be adjusted.

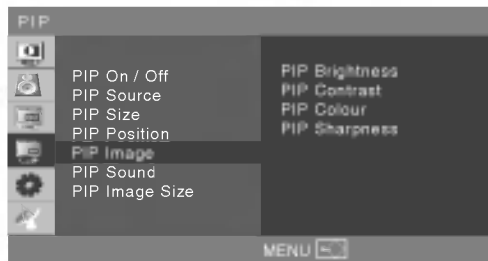
**PIP Source** To select an input signal for PIP.

**PIP Size** To adjust the size of the PIP screen. (PIP : Small, Large)

**PIP Position** Adjust the PIP screen position.



**PIP Image** To adjust the image of the PIP screen; Press the ► button to display the submenu for PIP Image. Select submenu and Press the 'OK' button. 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 Brightness**  
Adjust PIP screen brightness.
- **PIP Contrast**  
Adjust PIP screen contrast.
- **PIP Colour**  
Adjust the PIP screen color.
- **PIP Sharpness**  
Adjust the PIP screen sharpness.
- **Tint**  
Adjust the PIP screen tint.  
(60Hz : enable, 50Hz : disable)

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

**PIP Image Size** To select the image size of the screen. (5:4, 4:3, 16:9, ZOOM)

# Selecting and Adjusting the Screen



Adjusts the screen status according to the circumstances.



- Language** To choose the language in which the control names are displayed.
- 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 TV 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
- Image Size** To select the image size of the screen.(5:4, 4:3, 16:9, ZOOM)  
(It is not adjustable to the AV1-COMPONENT Input source.)
- Reset** Use this function to reset the product to the factory default. However, language selection will not be initialized.

# Troubleshooting

## No image is displayed

- Is the product power cord connected?
  - See if the power cord is properly connected to the outlet.
- Does the power Indicator is turned on?
  - See if the power switch is turned on.
- Power is on, power Indicator is blue but the screen appears extremely dark.
  - Adjust brightness and contrast again.
- Does the power Indicator look amber?
  - If the product is in power saving mode, move the mouse or press any key.
- Does the 'OUT OF RANGE' message appear?
  - The signal from the PC (video card) is out of the vertical or horizontal frequency range of the product. Adjust the frequency range by referring to the Specifications in this user's guide.
    - \* Maximum resolution
    - D-Sub : 1280x1024 @75Hz
    - DVI-D : 1280x1024 @60Hz
- Does the 'CHECK SIGNAL CABLE' message appear?
  - 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 Product' 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's guide.



### 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 analogue 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 analogue 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 analogue 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.

## 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 mode is engaged.**
  - See if the Sound is set to On in the PIP menu.
- **Sound is too dull.**
  - Select the appropriate equalize sound.
- **Sound is too low.**
  - Adjust the volume.



### 'CHILD LOCK' message appears.

- The 'CHILD LOCK' message appears when pressing the Menu button.
- Use the ▼▲ buttons to select ON or OFF. The TV 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

### Screen color is abnormal.


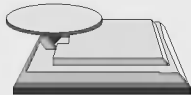
- Screen has poor color resolution (16 colors).
- Screen color is unstable or mono-colored.
- Do black spots appear on the screen?
- Set the number of colors to more than 24 bits (true color)  
Select Control Panel – Display – Settings – Color Table menu in Windows.
- Check the connection status of the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

### 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.

# Specifications

## [17 inch]

<b>LCD Panel</b>	<b>Screen Type</b>	17 inch (432.7 mm) TFT (Thin Film Transistor) LCD (Liquid Crystal Display) Panel Visible diagonal size: 432.7 mm
	<b>Pixel Pitch</b>	0.264 mm
<b>Video Signal</b>	<b>Max. Resolution</b>	D-Sub : 1280X1024 @75Hz DVI-D : 1280X1024 @60Hz
	<b>Recommended Resolution</b>	D-Sub : SXGA 1280X1024 @60Hz DVI-D : SXGA 1280X1024 @60Hz
	<b>Horizontal Frequency</b>	D-Sub : 30 - 83 kHz DVI-D : 30 - 71 kHz
	<b>Vertical Frequency</b>	56 - 75 Hz
	<b>Synchronization Type</b>	Separate/Composite/SOG (Sync On Green)/Digital
<b>Input Connector</b>	15-pin D-Sub type, DVI-D (digital), S-Video, Composite video, Component, TV	
<b>Power</b>	<b>Rated Voltage</b>	AC 100-240V ~ 50/60Hz 1.0A
	<b>Power Consumption</b>	On Mode : 55W Sleep Mode : ≤ 2W Off Mode : ≤ 2W
<b>Tilt</b>	<b>Tilt Range</b>	-5° ~ 25°
	<b>Tilt Stand</b>	Attached
<b>Dimension/Weight</b>	<b>Size (WxLxH)</b>	 474.5 mm x 242.0 mm x 401.7 mm
		 474.5 mm x 115.2 mm x 447.7 mm
	<b>Weight (excl. package)</b>	6.84 kg (15.0 lbs)
<b>Environmental Conditions</b>	<b>Operational Condition</b>	Temperature: 10°C ~ 35°C , Humidity: 20% ~ 80%
	<b>Storage Condition</b>	Temperature: -10°C ~ 60°C , Humidity: 5% ~ 95%

**[19 inch]**

<b>LCD Panel</b>	<b>Screen Type</b>	19 inches (481.84 mm) TFT (Thin Film Transistor) LCD (Liquid Crystal Display) Panel Visible diagonal size: 481.84 mm
	<b>Pixel Pitch</b>	0.294 mm
<b>Video Signal</b>	<b>Max. Resolution</b>	D-Sub : 1280X1024 @75Hz DVI-D : 1280X1024 @60Hz
	<b>Recommended Resolution</b>	D-Sub : SXGA 1280X1024 @60Hz DVI-D : SXGA 1280X1024 @60Hz
	<b>Horizontal Frequency</b>	D-Sub : 30 - 83 kHz DVI-D : 30 - 71 kHz
	<b>Vertical Frequency</b>	56 - 75 Hz
	<b>Synchronization Type</b>	Separate/Composite/SOG (Sync On Green)/Digital
<b>Input Connector</b>	15-pin D-Sub type, DVI-D (digital), S-Video, Composite video, Component, TV	
<b>Power</b>	<b>Rated Voltage</b>	AC 100-240V~ 50/60Hz 1.0A
	<b>Power Consumption</b>	On Mode : 55W Sleep Mode : ≤ 2W Off Mode : ≤ 2W
<b>Tilt</b>	<b>Tilt Range</b>	-5° ~ 25°
	<b>Tilt Stand</b>	Attached
<b>Dimension/Weight</b>	<b>Size (WxLxH)</b>	 517.0 mm x 242.0 mm x 436.0 mm  517.0 mm x 119.2 mm x 481.7 mm
	<b>Weight (excl. package)</b>	7.96 kg (17.5 lbs)
<b>Environmental Conditions</b>	<b>Operational Condition</b>	Temperature: 10°C ~ 35°C , Humidity: 20% ~ 80%
	<b>Storage Condition</b>	Temperature: -10°C ~ 60°C , Humidity: 5% ~ 95%

# Specifications

## ● PC Mode – Preset Mode

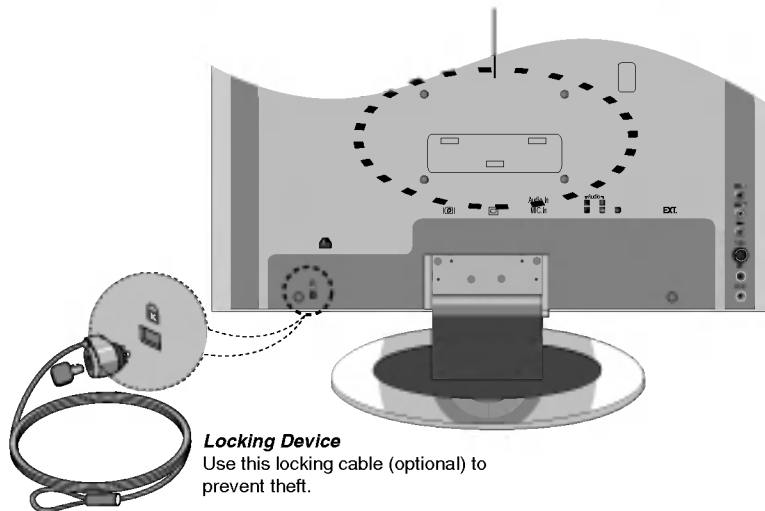
	Preset mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)		Preset mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
1	VGA 640 x 350	31.469	70	8	VESA 1024 x 768	48.363	60
2	VESA 720 x 400	31.468	70	9	VESA 1024 x 768	60.123	75
3	VGA 640 x 480	31.469	60	10	MAC 1152 x 870	68.681	75
4	VESA 640 x 480	37.500	75	11	SUN 1152 x 900	61.805	65
5	VESA 800 x 600	37.879	60	12	VESA 1280 x 1024	63.981	60
6	VESA 800 x 600	46.875	75	13	VESA 1280 x 1024	79.976	75
7	MAC 832 x 624	49.725	75				

## ● Power indicator

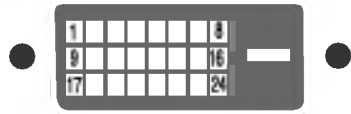
Mode	Product
On Mode	Blue
Sleep Mode	Amber
Off Mode	-

### 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.



 **DVI-D**



No.	Signal
1	T. M. D. S. Data 2-
2	T. M. D. S. Data 2+
3	T. M. D. S. Data 2/4 Shield
4	T. M. D. S. Data 4-
5	T. M. D. S. Data 4+
6	DDC Clock
7	DDC Data
8	Analogue Vertical Synchronization
9	T. M. D. S. Data 1-
10	T. M. D. S. Data 1+
11	T. M. D. S. Data 1/3 Shield
12	T. M. D. S. Data 3-
13	T. M. D. S. Data 3+
14	+5V Power
15	Grounding (return for +5V, horizontal sync and vertical sync)
16	Hot Plug Detect
17	T. M. D. S. Data 0-
18	T. M. D. S. Data 0+
19	T. M. D. S. Data 0/5 Shield
20	T. M. D. S. Data 5-
21	T. M. D. S. Data 5+
22	T. M. D. S. Clock Shield
23	T. M. D. S. Clock+
24	T. M. D. S. Clock

T.M.D.S. (Transition Minimized Differential Signaling)