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Please read these safety precautions carefully before using the monitor.



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 Monitor



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 monitor or sit upon it.**
 - If the monitor 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 monitor 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 monitor or the case is broken, turn off the monitor 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 monitor, 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 monitor, unplug the power cord and contact the service center.



Caution

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

Caution

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

Precautions in Moving the Monitor

Warning

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

 Caution

- **Do not shock the monitor when moving it.**
 - You may be electrocuted or the monitor 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 monitor, the damaged monitor can cause electric shock or fire. Contact with the service center for repair.
-

 Precautions in Using the Monitor **Warning**

- **Do not disassemble, repair or modify the monitor 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 monitor or scrub with an inflammable substance (thinner or benzene). Fire or electric shock accident can occur**
- **Keep the monitor away from water.**
 - Fire or electric shock accident can occur.

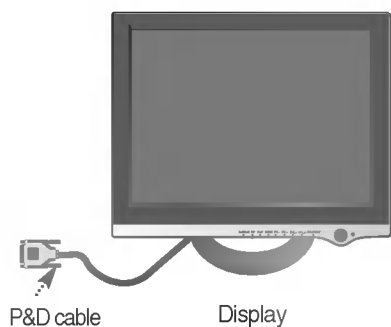
 Caution

- **Do not put or store inflammable substances near the monitor.**
 - There is a danger of explosion or fire due 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 monitor, which can cause electric shock or serious malfunction.
 - **Take a rest from time to time to protect your vision.**
 - **Keep the monitor clean at all times.**
 - **Take a comfortable and natural position when working with a monitor to relax the muscles.**
 - **Take a regular break when working with a monitor 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 monitor.**
 - Your vision may be impaired if you look at the monitor 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 monitor. (Do not use benzene, thinner or alcohol.)**
 - Monitor 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.

Please make sure the following items are included with your monitor. If any items are missing, contact your dealer.



P&D cable

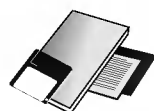
Display



Media Station



Remote control
Batteries (AAA x 2)



User's manual
/Diskette/Cards



Colorific CD/
Colorific Card



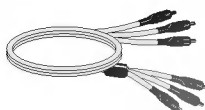
15-pin D-Sub Signal Cable



DVI-D Signal Cable



Power Cord



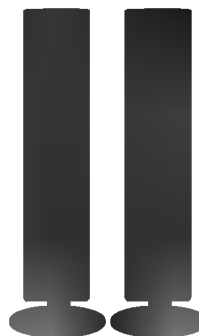
RCA Cable



S-Video Cable



Audio Cable (PC)

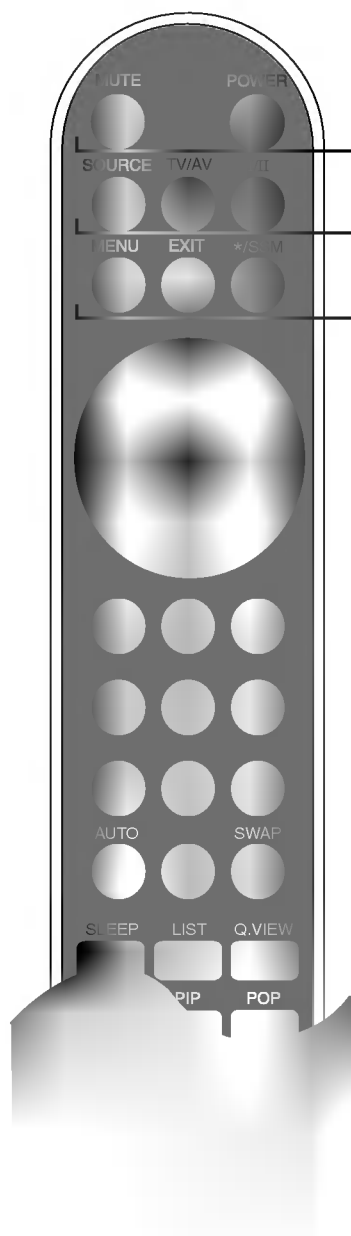


Speakers

Please see the Speaker User Manual
(included in the speaker box) to reference
the speaker accessory list.

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

Remote Control



MUTE

To select mute on or off.

POWER

Use this button to turn the display on or off.

SOURCE

Use this button to select an input signal.

TV/AV : TV/AV button

I/II : Bilingual choice and sound mode selection

Press this button

- 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.

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

MENU

Use this button to enter the On Screen Display menu.

EXIT

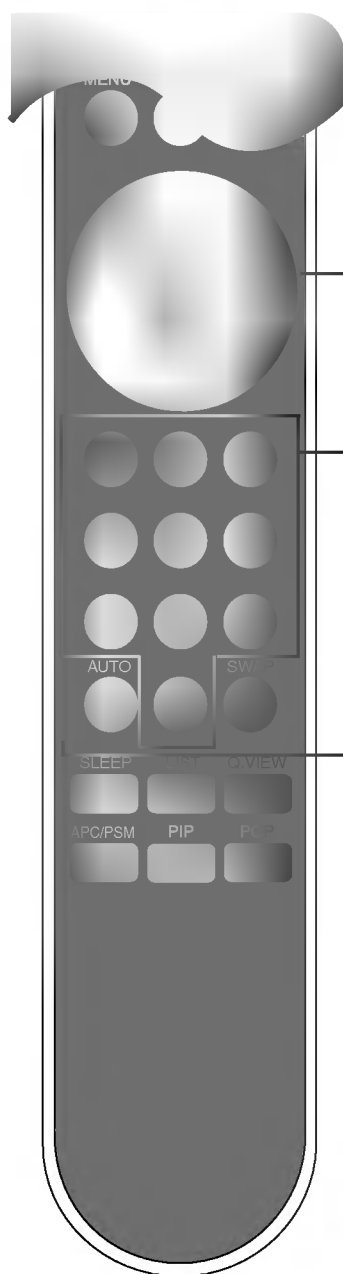
Use this button to exit the On Screen Display menu.

* / SSM (Sound Status Memory)

The audio will be automatically calibrated according to the type of the playback video.

- Flat: The most commanding and natural audio.
- Music: Select this option to listen to music.
- Movie: Select this option to watch a movie.
- Speech: Select this option to listen to spoken word.
- User: Select this option to use the user-defined audio settings.

Remote Control



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

Number buttons

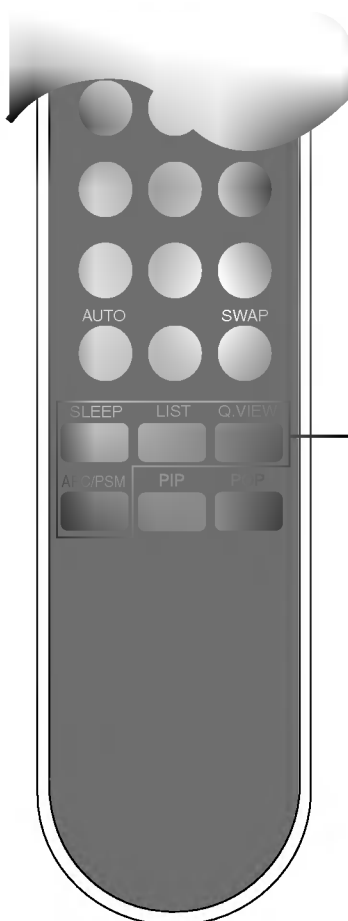
AUTO Button

- This function is to automatically search the available channels. It is available to the TV signal inputs only.
- 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 analog signal input only.

SWAP function

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

Remote Control



SLEEP : SLEEP Timer

You can set a time period after which the HDTV/S-VIDEO/AV1/AV2 /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).

0	----	5	----
1	----	6	----
2	C 04	7	----
3	C 25	8	----
4	----	9	----

Note: TV channels displayed in blue have been setup to skipped in the PR. 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.

SIZE

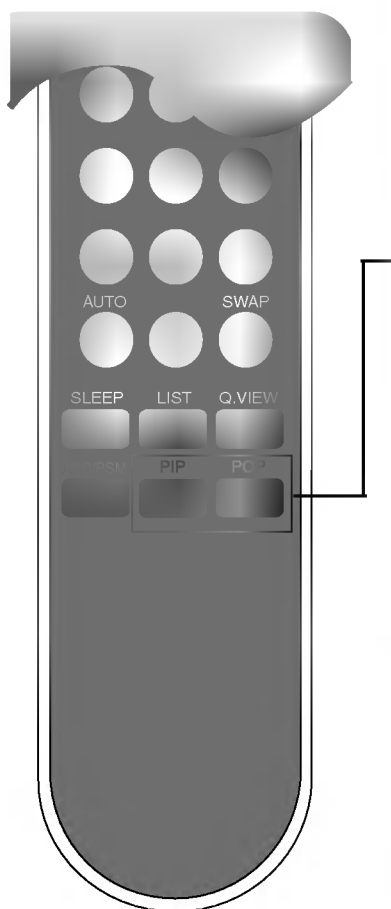
Press repeatedly to select the image size of the screen.

FULL/4:3/ SPECTACLE /ZOOM1/ZOOM2/AUTO.

SPECTACLE, ZOOM1, ZOOM2 and AUTO functions are useful for TV or motion pictures, but not suitable for PC environments such as computer graphics or word processing.

When using the Teletext function, this button responds in a different way.

Remote Control - PIP/POP function

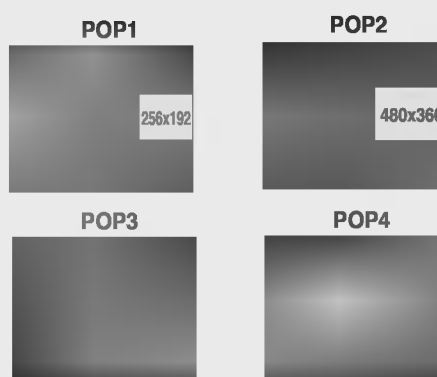


PIP (Picture in Picture)

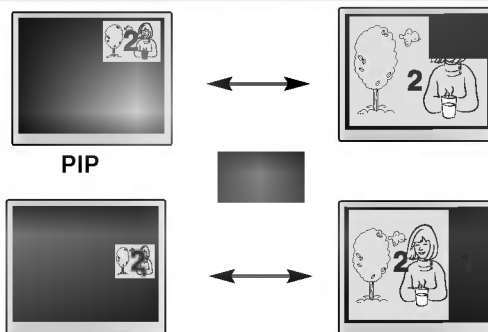
The sub-screen is changed in the order shown below.
: SMALL -> LARGE -> OFF

POP (Picture out Picture)

The sub-screen is changed in the order shown below.
: POP1 -> POP2 -> POP3 -> POP4 -> OFF



The POP4 menu will not be supported if the input signal is HDTV and/or above 720p.



POP

When the signal of **SOURCE 1** is supplied to the main-screen, the sub-screen receives the signal of **SOURCE 2** only. Conversely, when the signal of **SOURCE 2** is supplied to the main-screen, the sub-screen only receives the signal of **SOURCE 1**. The positions of **SOURCE 1** and **SOURCE 2** can be transposed by selecting **SWAP**.

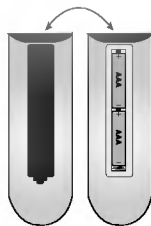
SOURCE2 \ SOURCE1	D-SUB	DVI-D	AV	S-VIDEO	HDTV	TV
D-SUB	X	X	●	●	●	●
DVI-D	X	X	●	●	●	●
AV	●	●	X	X	●	X
S-VIDEO	●	●	X	X	●	X
HDTV	●	●	●	●	X	●
TV	●	●	X	X	●	X

[Table of PIP/POP Function Support]

Insert the batteries into the remote control to operate the monitor.

Preparing the Remote Control

1. Open the battery cover.
2. Insert batteries (AAA size).
Make sure to match the + and - on the batteries to the marks inside the battery compartment.
3. Close the cover.



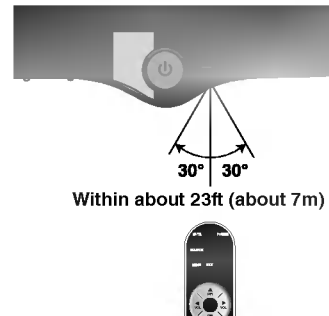
Note

- Do not insert the batteries into the remote control in the wrong direction.
- Do not charge, heat, open, or short-circuit the batteries. Also do not throw the batteries into the fire.
- Do not use different types of batteries together, nor mix old and new batteries.

This section shows you how to use the remote control.

Operating with the Remote Control

Point the remote control at the remote sensor and press the buttons.



Distance : About 23 ft (7 m) from the front of the remote sensor.

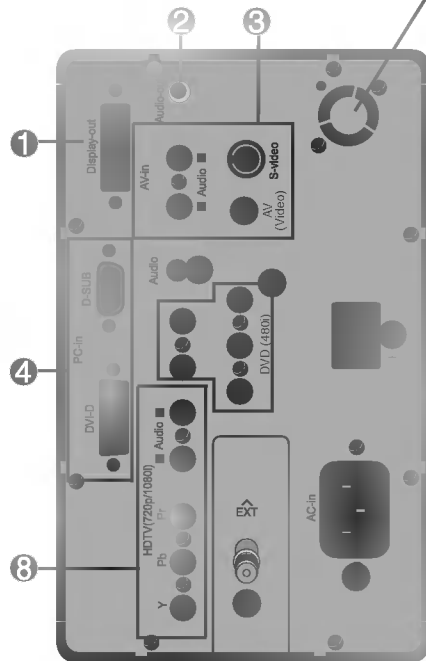
Angle : About 30° in each direction of the front of the remote sensor.

Do not expose the sensor of remote control in the monitor to a strong light source such as direct sunlight or illumination. If so, may not be able to operate the monitor with the remote control.

Note

- Do not drop the remote control or handle it roughly.
- Do not leave the remote control in extremely hot or humid conditions.
- Do not expose the remote control to water or anything wet.

Media Station Rear



Fan: Should the temperature of the media station rise above a preset level, the fan will start up automatically to cool down the unit.

- ❶ Connect the P&D cable
- ❷ Connect to the speaker including a built-in amplifier(AMP)
- ❸ AV Input ports
- ❹ PC signal inputs
- ❺ Connect the audio cable to the *LINE OUT jack of the PC sound card.
- ❻ DVD(YPbPr) Input ports 480i/576i
- ❼ Power cut-off switch of the monitor
Connect various cables and the power cord and turn on before using the monitor. Please turn the switch off if you intend not to use it for an extended period of time to reduce power consumption.
- ❽ HDTV(YPbPr) Input ports 480p/576p/720p/1080i
- ❾ Connect the antenna cable (not included)
- ❿ Connect the power cord

*LINE OUT

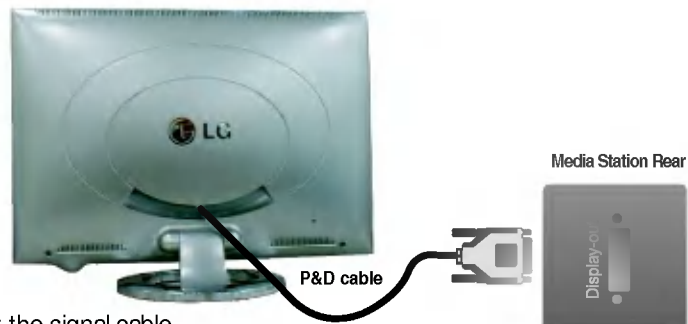
A terminal used to connect to the speaker including a built-in amplifier (Amp). Make sure that the connecting terminal of the PC sound card is checked before connecting. If the Audio Out of PC sound card has only Speaker Out, reduce the PC volume.

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 your PC

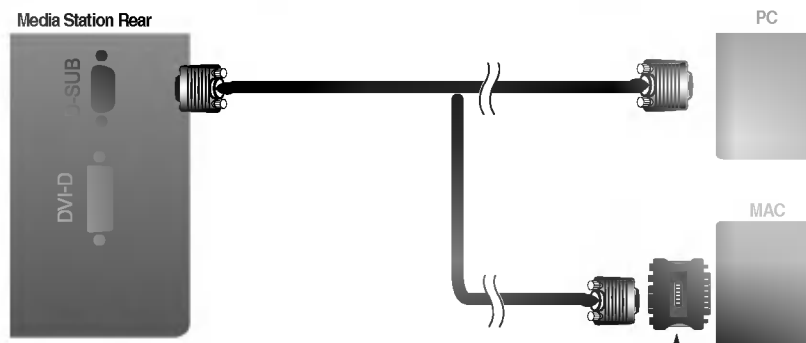
- Before setting up the monitor, ensure that the power to the monitor, the computer system, and other attached devices are turned off.

1. Connect the P&D (Plug and Display) cable. When attached, tighten the thumbscrews to secure the connection.



2. Connect the signal cable

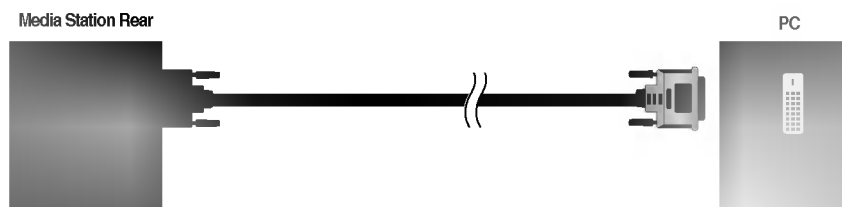
● When connecting D-SUB signal cable



Mac adapter (not included)

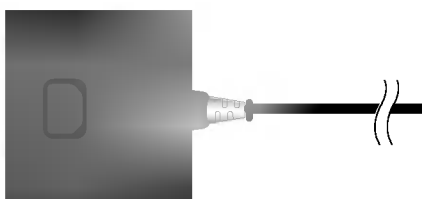
For Apple Macintosh use, a separate plug adapter is needed to change the 15 pin high density (3 row) D-sub VGA connector on the supplied cable to a 15 pin 2 row connector.

● When connecting DVI-D signal cable



3. Connect the power cord into a proper power outlet that is easily accessible and close to the display.

Media Station Rear



4. Turn the media station power on.

Media Station Rear



5. Select an input signal.

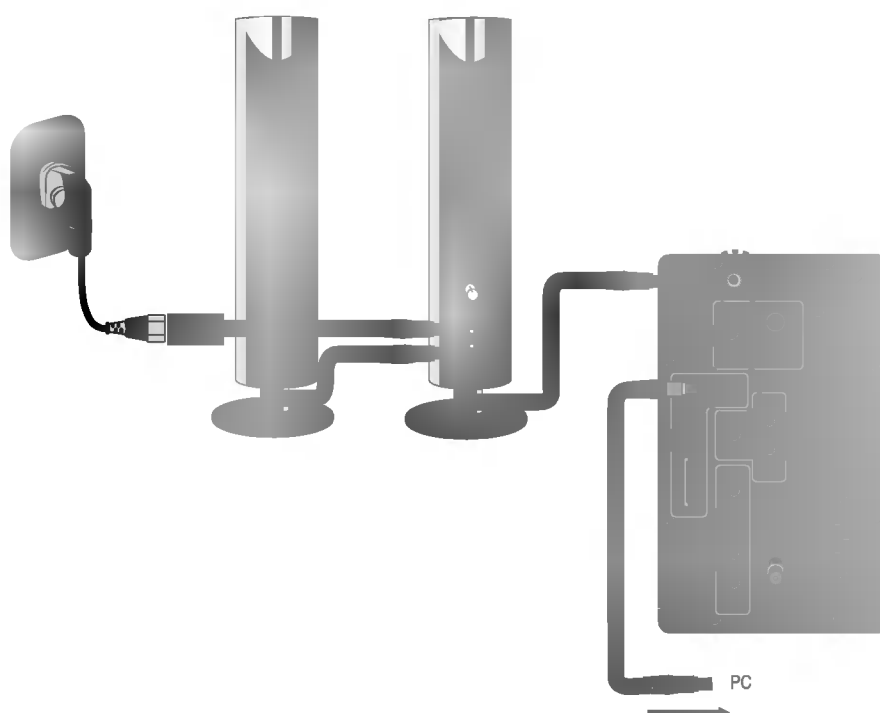
Press the **SOURCE** button on the remote control to select an input.

- When connecting D-SUB signal cable
 - DSUB ANALOG: 15-pin D-sub analog signal
- When connecting DVI-D signal cable
 - DVI-D DIGITAL: DVI-D digital signal



Connecting the Speakers

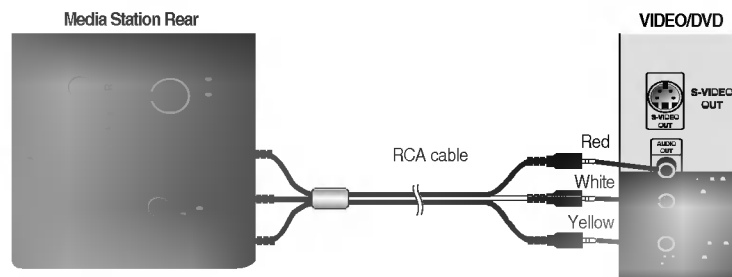
Connect the audio cable.



Watching VIDEO/DVD

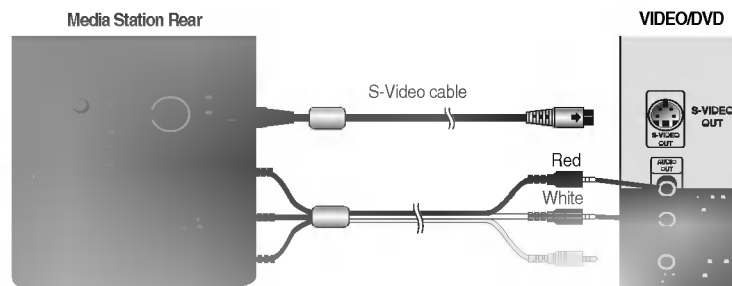
1. When connecting RCA cable

Connect the each audio/video output jack of the VIDEO/DVD to the corresponding input port as shown on the Display (or Media station).



When connecting S-Video cable

If you connect the S-Video input port to external equipment, you can have an improved definition image.



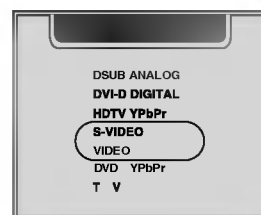
2. Select an input signal.

Press the **SOURCE** button on the remote control to select an input.

- When connecting RCA cable
 - VIDEO
- When connecting S-Video cable
 - S-VIDEO

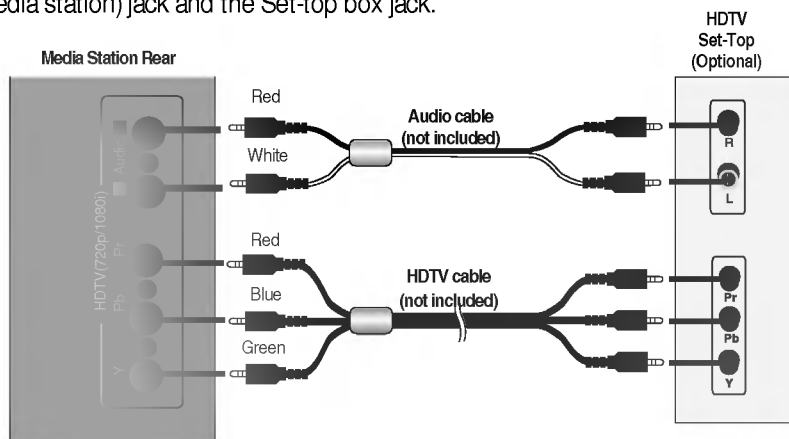


SOURCE → ▼▲ → OK



Watching HDTV (480p/576p/720p/1080i)

1. Connect both HDTV cable (Y/Pb/Pr) and audio cable (Audio L/R) to the Display (or Media station) jack and the Set-top box jack.



2. Select an input signal.

Press the **SOURCE** button on the remote control to select an input.

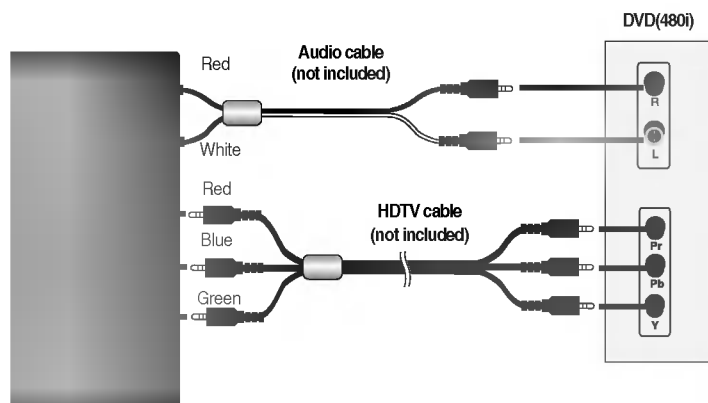
- HDTV YPbPr



Watching DVD (480i/576i)

Take these connection steps if the DVD player has a RCA jack and the output is 480i/ 576i

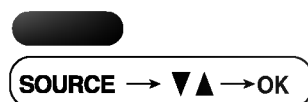
1. Connect RCA jack.



2. Select an input signal.

Press the **SOURCE** button on the remote control to select an input.

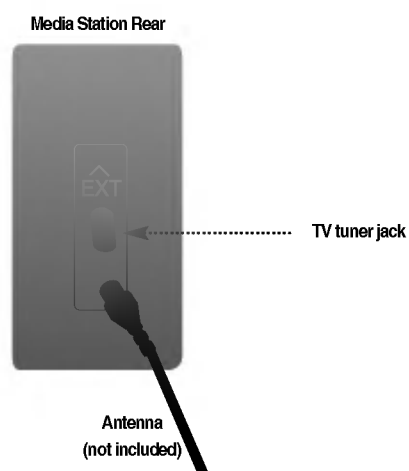
• DVD YPbPr



Watching TV (optional)

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

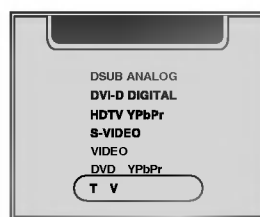
1. Connect the antenna.



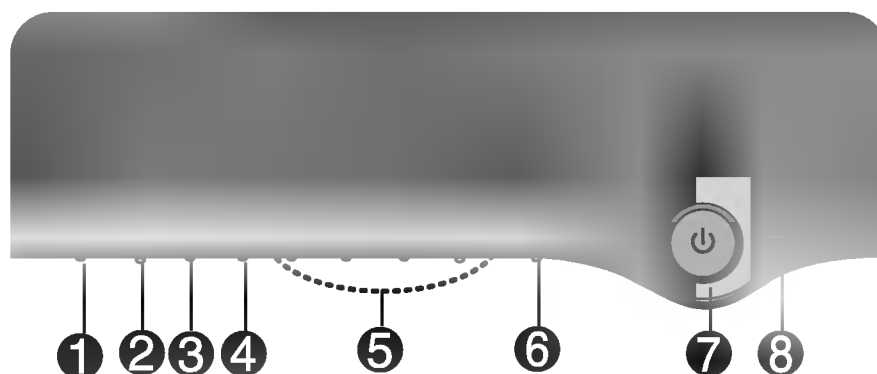
2. Select an input signal.

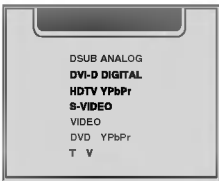
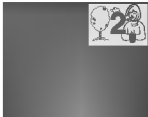
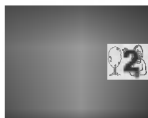
Press the **SOURCE** button on the remote control to select an input.

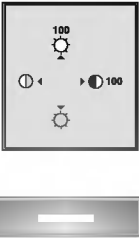
•TV



Front Panel Controls



Control	Function
1 	SOURCE Selection: Use this button to select an input signal. • DSUB ANALOGUE: 15-pin D-sub analogue signal • DVI-D DIGITAL: DVI-D digital signal • HDTV YPbPr: HDTV • S-VIDEO: S video • VIDEO : CVBS • DVD YPbPr: DVD • TV: TV
2 	PIP (Picture in Picture) function The sub-screen is changed in the order shown below. : SMALL -> LARGE -> OFF The positions of SOURCE 1 and SOURCE 2 can be transposed by selecting SWAP on the remote control.
3 	POP (Picture out Picture) function The sub-screen is changed in the order shown below. : POP1 -> POP2 -> POP3 -> POP4 -> OFF The positions of SOURCE 1 and SOURCE 2 can be transposed by selecting SWAP on the remote control.

Control	Function
4 MENU Button	Use this button to enter or exit the On Screen Display.
5 	- Bring up Contrast and Brightness adjustment. It is available to the PC signal inputs only. - PR. - / PR. + → PR. - / PR. + : To adjust the brightness VOL. - / VOL. + : To adjust the contrast - Use these buttons to go up and down the channel when the TV source is available. - PR. - / PR. + - VOL. - / VOL. + Use these buttons to decrease or increase the volume level. Use these buttons to choose or adjust items in the On Screen Display.
6 	AUTO adjustment function When adjusting your display settings, always press the AUTO/SELECT button before entering the On Screen Display(OSD). This will automatically adjust your display image to the ideal settings for the current screen resolution size (display mode). It is available to the PC signal inputs only. The best display mode is 1280x768 @60Hz . Use this button to enter a selection in the On Screen Display.
7 Power Button Power (DPMS) Indicator	Use this button to turn the display on or off. This Indicator lights up blue when the display operates normally. If the display is in DPM (Energy Saving) mode, this indicator color changes to amber.
8 Remote Control Sensor  	CONTROLS LOCKED/UNLOCKED : MENU and VOL.+ This function allows you to secure the current control settings, so that they cannot be inadvertently changed. Press and hold the MENU button and VOL.+ button for 5 seconds: the message “ CONTROLS LOCKED ” appears. You can unlock the OSD controls at any time by pushing the MENU button and VOL.+ button for 5 seconds: the message “ CONTROLS UNLOCKED ” will appear.

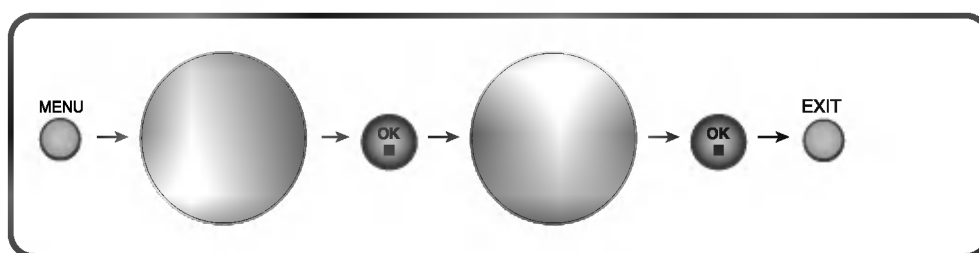
Screen Adjustment

Making adjustments to the image size, position and operating parameters of the display is quick and easy with the On Screen Display Control system. A short example is given below to familiarize you with the use of the controls. The following section is an outline of the available adjustments and selections you can make using the OSD.

NOTE

- Allow the display to stabilize for at least 30 minutes before making image adjustments.

To make adjustments in the On Screen Display, follow these steps:



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

The following table indicates all the On Screen Display control, adjustment, and setting menus.

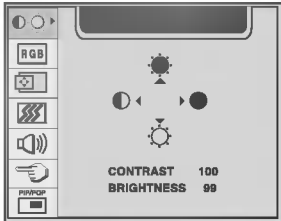
Using the computer					
Main menu	Sub menu		A	D	Reference
BRIGHTNESS CONTRAST	BRIGHTNESS		●	●	To adjust the brightness and contrast of the screen
	CONTRAST		●	●	
COLOUR ADJUSTMENT	PRESET	9300K	●		To customize the colour of the screen
		6500K	●		
	R/G/B(User Colour)		●		
IMAGE POSITION	V POSITION		●		To adjust the position of the screen
	H POSITION		●		
TRACKING	AUTO		●		To improve the clarity and stability of the screen
	CLOCK		●		
	PHASE		●		
AUDIO	MUTE		●	●	To adjust the audio function
	VOLUME		●	●	
	BBE EFFECT*		●	●	
	AVL		●	●	
	SSM		●	●	
	BASS		●	●	
	TREBLE		●	●	
SETUP	LANGUAGE		●	●	To customize the screen status for a user's operating environment
	IMAGE SIZE		●	●	
	OSD POSITION		●	●	
	TRANSPARENCY		●	●	
	ZOOM		●	●	
PIP/POP	PIP MODE		●	●	To adjust the PIP/POP of the screen
	POP MODE		●	●	
● : Adjustable A : Analog Input D : Digital Input * : Optional					

Using the VCR/DVD/TV/LD/DTV					
Main menu	Sub menu	V	H	T	Reference
STATION	PROGRAMME			●	To select the TV channel settings and adjust the channel quality.
	SYSTEM			●	
	SELECT			●	
	CHANNEL			●	
	FINE TUNE			●	
	NAME			●	
	AUTO PR.			●	
ADJUSTMENT	PSM	●	●	●	To improve the clarity and stability of the screen
	CONTRAST	●	●	●	
	BRIGHTNESS	●	●	●	
	SHARPNESS	●		●	
	COLOUR	●	●	●	
	TINT	●	●		
AUDIO	MUTE	●	●	●	To adjust the audio function
	VOLUME	●	●	●	
	BBE EFFECT*	●	●	●	
	AVL	●	●	●	
	SSM	●	●	●	
	BASS	●	●	●	
	TREBLE	●	●	●	
SETUP	LANGUAGE	●	●	●	To customize the screen status for a user's operating environment
	IMAGE SIZE	●	●	●	
	OSD POSITION	●	●	●	
	TRANSPARENCY	●	●	●	
	COLOUR	●	●	●	
PIP/POP	PIP MODE	●	●	●	To adjust the PIP/ POP of the screen
	POP MODE	●	●	●	
● : Adjustable V : VCR/DVD T : TV H : HDTV * : Optional					

You were introduced to the procedure of selecting and adjusting an item using the OSD system. Listed below are the icons, icon names, and icon descriptions of the all items shown on the Menu.



To adjust the brightness and contract of the screen



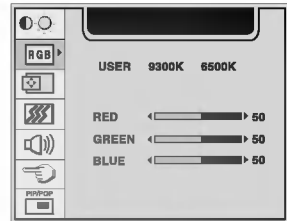
BRIGHTNESS
To adjust the brightness of the screen.



CONTRAST
To adjust the contrast of the screen.



To customize the colour of the screen

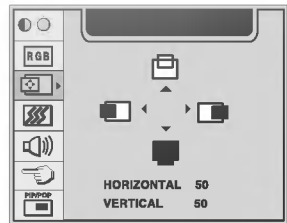


USER **RED/GREEN/BLUE**
Set your own colour levels.

Select the screen colour.
9300K • 9300K: Slightly bluish white.
6500K • 6500K: Slightly reddish white.



To adjust the position of the screen



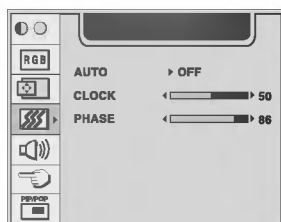
Horizontal Position
To move image left and right.



Vertical Position
To move image up and down.



To improve the clarity and stability of the screen

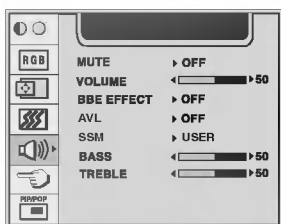


AUTO This function is suitable for analog signal input only. This button is for the automatic adjustment of the screen position, clock and phase.

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.

To adjust the audio function



MUTE Used to select mute on (means sound off) and mute off (means sound on).

VOLUME To decrease or increase volume level.

BBE EFFECT* To improve the clarity and distinction of audio quality.

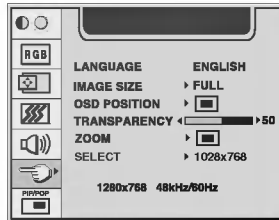
AVL Use this function to automatically adjust volume being relayed unevenly for each channel or signal so that the most appropriate level can be selected.

SSM Select a sound mode of your choice among FLAT, MUSIC, MOVIE and SPEECH, or select 'USER' and adjust the values of BASS and TREBLE.

BASS To decrease or increase bass level.

TREBLE To decrease or increase treble level.

To customize the screen status for a user's operating environment

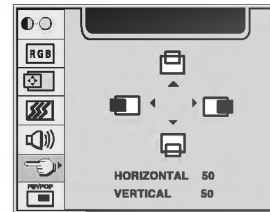


LANGUAGE To choose the language in which the control names are displayed.

IMAGE SIZE To select the image size of the screen.
FULL/4:3/ SPECTACLE /1:1/AUTO
The SPECTACLE menu is used when the resolution ratio is 4:3 (640x480, 800x600 and 1024x768)

OSD POSITION

To adjust position of the OSD window on the screen. Press the ◀ ▶ button to display the submenu for OSD POSITION.

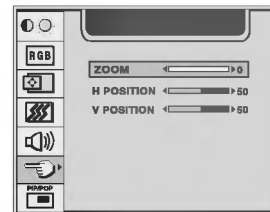


TRANSPARENCY

To adjust the transparency of the OSD menu screen.

ZOOM

To adjust horizontal and vertical image size simultaneously. If you want to move the zooming point, use the H/V POSITION function in the sub-menu. However, if the monitor turns off when zooming in and out the screen, the monitor will be returned to original screen.



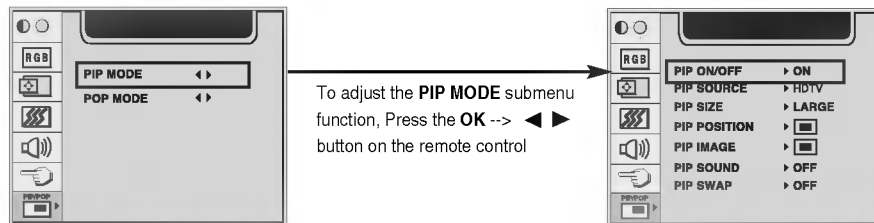
SELECT *

This menu will be enabled only when the resolution is 1280x768 @60Hz, 1024x768 @60Hz, 640x480 @70Hz or 848x480 @70Hz.

If the screen is not displayed properly, adjust the resolution as follows. If you set to the "Auto", the proper resolution will be automatically selected.

- **1280x768/1024x768/AUTO:** Use this menu when the resolution is 1280x768 @60Hz or 1024x768 @60Hz.
- **640x480/848x480/AUTO:** Use this menu when the resolution is 640x480 @70Hz or 848x480 @70Hz.

To adjust the PIP (Picture in Picture) of the screen

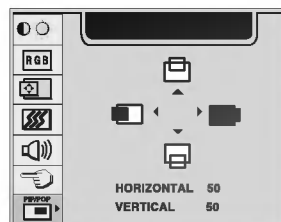


After selecting **ON** in the **PIP ON/OFF** menu, the following menu items can be adjusted.

PIP SOURCE To select an input signal for PIP.

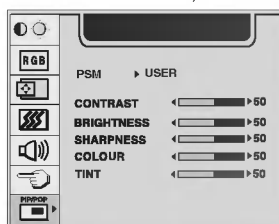
PIP SIZE To adjust the size of the PIP screen: SMALL/LARGE

PIP POSITION To adjust the position of PIP screen. Press the ◀ ▶ button to display the submenu for PIP POSITION.



PIP IMAGE To adjust the image of the PIP screen; Press the ◀ ▶ button to display the submenu for PIP IMAGE. The items of the sub-menu may vary depending on the type of the source.

PSM : Select a picture mode of your choice among DYNAMIC, STANDARD, MILD and GAME, or select 'USER' and adjust the values of CONTRAST, BRIGHTNESS, SHARPNESS, COLOUR and TINT.

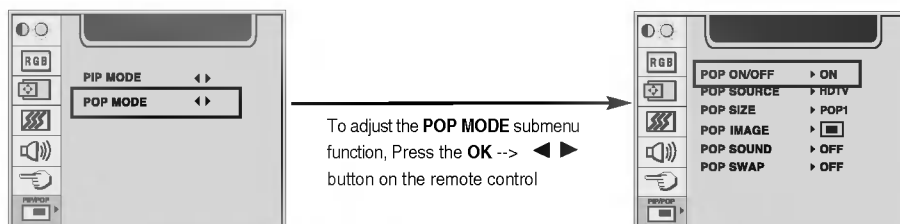


CONTRAST To adjust the contrast of the screen.
BRIGHTNESS To adjust the brightness of the screen.
SHARPNESS To adjust the clearness of the screen.
 In case the PIP source is HDTV, SHARPNESS is not supported.
COLOUR To adjust the COLOUR to desired level.
TINT To adjust the tint to desired level. This function is available only in NTSC broadcasting mode.

PIP SOUND To turn the PIP sound on/off.

PIP SWAP To switch the main-screen and sub-screen in PIP mode.

To adjust the POP (Picture out Picture) of the screen



After selecting **ON** in the **POP ON/OFF** menu, the following menu items can be adjusted.

POP SOURCE To select an input signal for POP.

POP SIZE To adjust the size of the POP screen: POP1/POP2/POP3/POP4

POP IMAGE To adjust the image of the POP screen; Press the **<|>** button to display the submenu for POP IMAGE. The items of the sub-menu may vary depending on the type of the source.

PSM : Select a picture mode of your choice among DYNAMIC, STANDARD, MILD and GAME, or select 'USER' and adjust the values of CONTRAST, BRIGHTNESS, SHARPNESS, COLOUR and TINT.



CONTRAST To adjust the contrast of the screen.

BRIGHTNESS To adjust the brightness of the screen.

SHARPNESS To adjust the clearness of the screen. In case the POP source is HDTV, SHARPNESS is not supported.

COLOUR To adjust the colour to desired level.

TINT To adjust the tint to desired level. This function is available only in NTSC broadcasting mode.

POP SOUND To turn the POP sound on/off.

POP SWAP To switch the main-screen and sub-screen in POP mode.

To adjust the screen when using the VCR/DVD/HDTV/TV

To select TV channel settings and adjust the channel quality



PROGRAMME To change the 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.

SELECT To select the channel reception type.
: V/UHF / CABLE

CHANNEL Press the ◀ ▶ button to select C-CH for aerial channels or S-CH for cable channels. If you know the C-(01~69) or S-channel number(01~47), enter it directly with the digit buttons 0 to 9.

FINE TUNE

In case of poor reception, you can improve the reception by fine tuning. Use the ◀ ▶ buttons to fine tune for the best picture and sound.

NAME

To see the assigned channel name.

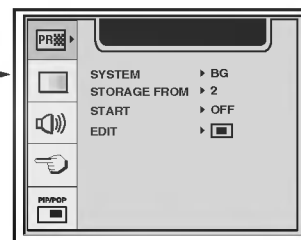
It is possible to change the name stored in the memory or to assign a name to a TV channel which has not yet been entered. A name with up to 5 letters or numbers can be given to the programme numbers 0 to 99.

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 **AUTO/SELECT** button (or **OK** button on the remote control).

AUTO PR.



To adjust the **AUTO PR.** submenu function, Press the **OK** --> ◀ ▶ button on the remote control



Follow these steps : Select TV system -> Select a channel number from where you want to storing for new channels. -> Press **ON** to start auto programming.

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.

If you want to receive 'SECAM L' channel, change the SYSTEM menu to 'L' before launching an automatic search.

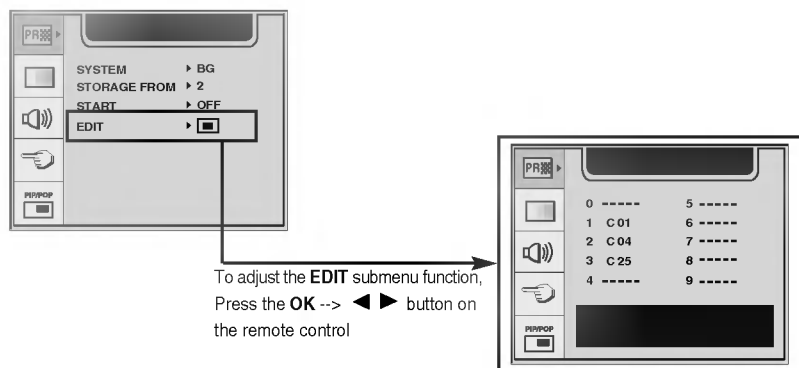
STORAGE FROM

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 e.g. 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.

START

Select the **ON** to start automatic programming. all available TV channels are searched for and stored automatically. To stop auto programming, press the **MENU** button. When auto programming is completed, the programme list menu appears.

EDIT



- **DELECT**: Press the ▼▲◀▶ buttons to select a TV channel to be deleted.
-> Press the red key on the remote control twice. -> The selected TV channel number is deleted, all the following channels are shifted up one position.
- **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.
- **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.
- **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. -> Press the blue key again.

To improve the clarity and stability of the screen



PSM Select a picture mode of your choice among DYNAMIC, STANDARD, MILD and GAME, or select 'USER' and adjust the values of CONTRAST, BRIGHTNESS, SHARPNESS, COLOUR and TINT.

CONTRAST To adjust the contrast of the screen

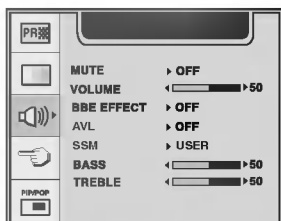
BRIGHTNESS To adjust the brightness of the screen.

SHARPNESS To adjust the clearness of the screen.

COLOUR To adjust the colour to desired level.

TINT To adjust the tint to desired level. This function is available only in NTSC broadcasting mode.

To adjust the audio function



MUTE Used to select mute on (means sound off) and mute off (means sound on).

VOLUME To decrease or increase volume level.

BBE EFFECT* To improve the clarity and distinction of audio quality.

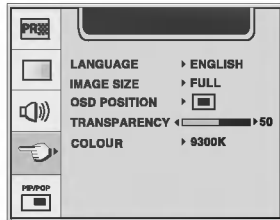
AVL Use this function to automatically adjust volume being relayed unevenly for each channel or signal so that the most appropriate level can be selected.

SSM Select a sound mode of your choice among FLAT, MUSIC, MOVIE and SPEECH, or select 'USER' and adjust the values of BASS and TREBLE.

BASS To decrease or increase bass level.

TREBLE To decrease or increase treble level.

To customize the screen status for a user's operating environment



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

IMAGE SIZE To select the image size of the screen.
FULL/4:3/ SPECTACLE /ZOOM1/ZOOM2/AUTO.
SPECTACLE, ZOOM1, ZOOM2 and AUTO functions are useful for TV or motion pictures, but not suitable for PC environments such as computer graphics or word processing.

- FULL
You can enjoy the picture (format of 4:3) or general TV in 16:9 mode.
- 4:3
This picture format is 4 to 3 of general TV
- SPECTACLE
This function provides different areas of the screen with a varied ratio, so that the ratio at the central area is close to 4:3 and near the edges it exceeds 16:9. Since most people concentrate their focus upon the central area of the screen, they do not clearly recognize a nonlinear expansion of the image near the edges of the display. Therefore a 4:3 image can fit into the wide screen naturally.
- ZOOM 1/ZOOM 2
Zoom 1 and 2 are functions, which keeps the input ratio constant at 16:9 while zooming in; these functions, unlike conventional zoom in function, minimize the image distortion usually seen in the zooming process.
Input source can be controlled only in DVD, VIDEO, TV, S-VIDEO states.
- AUTO
When your set receives a wide screen signal, it will automatically change to the picture format to be sent.

Input Source \ Image Size	4:3	FULL	ZOOM1	ZOOM2
16:9 Screen				

[example]

OSD POSITION

To adjust position of the OSD window on the screen.
Press the ◀ ▶ button to display the submenu for OSD POSITION.

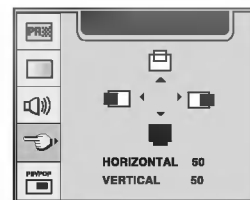
TRANSPARENCY

To adjust the transparency of the OSD menu screen.

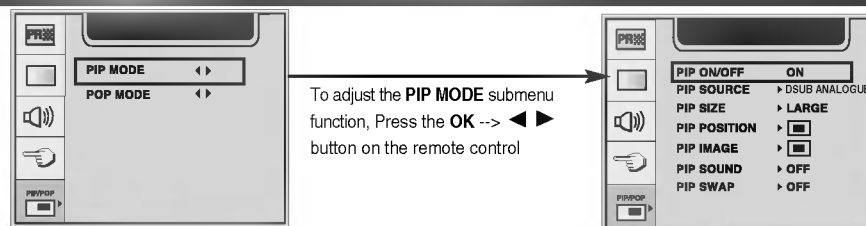
COLOUR

To select the screen colour.

- 9300K: Slightly bluish white.
- 6500K: Slightly reddish white.



To adjust the PIP(Picture in Picture) of the screen

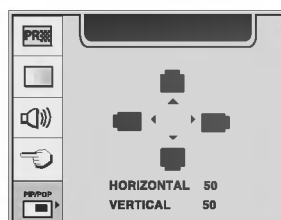


After selecting **ON** in the **PIP ON/OFF** menu, the following menu items can be adjusted.

PIP SOURCE To select an input signal for PIP.

PIP SIZE To adjust the size of the PIP screen: SMALL/LARGE

PIP POSITION To adjust the position of PIP screen. Press the ◀ ▶ button to display the submenu for PIP POSITION.



PIP IMAGE To adjust the image of the PIP screen; Press the ◀ ▶ button to display the submenu for PIP IMAGE. The items of the sub-menu may vary depending on the type of the source. In case the PIP source is D-SUB or DVI-D, PSM, COLOUR and TINT MENU are not supported.

PSM : Select a picture mode of your choice among DYNAMIC, STANDARD, MILD and GAME, or select 'USER' and adjust the values of CONTRAST, BRIGHTNESS, SHARPNESS, COLOUR and TINT.

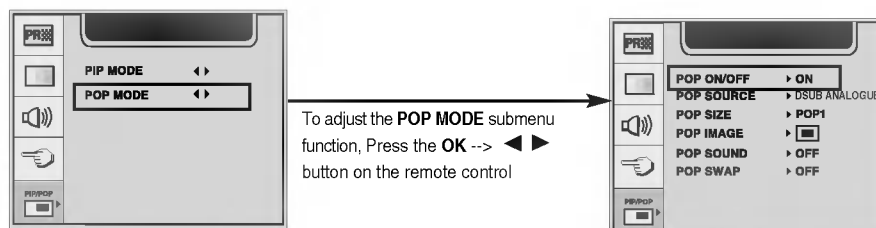


CONTRAST To adjust the contrast of the screen.
BRIGHTNESS To adjust the brightness of the screen.
COLOUR To adjust the colour to desired level.
TINT To adjust the tint to desired level.
 This function is available only in NTSC broadcasting mode.

PIP SOUND To turn the PIP sound on/off.

PIP SWAP To switch the main-screen and sub-screen in PIP mode.

To adjust the POP (Picture-out Picture) of the screen



After selecting **ON** in the **POP ON/OFF** menu, the following menu items can be adjusted.

POP SOURCE To select an input signal for POP.

POP SIZE To adjust the size of the POP screen: POP1/POP2/POP3/POP4

POP IMAGE To adjust the image of the POP screen; Press the ◀ ▶ button to display the submenu for POP IMAGE. The items of the sub-menu may vary depending on the type of the source. In case the POP source is D-SUB or DVI-D, PSM, COLOUR and TINT MENU are not supported.

PSM : Select a picture mode of your choice among DYNAMIC, STANDARD, MILD and GAME, or select 'USER' and adjust the values of CONTRAST, BRIGHTNESS, COLOUR and TINT.



CONTRAST To adjust the contrast of the screen.
BRIGHTNESS To adjust the brightness of the screen.
COLOUR To adjust the colour to desired level.
TINT To adjust the tint to desired level.
 This function is available only in NTSC broadcasting mode.

POP SOUND To turn the POP sound on/off.

POP SWAP To switch the main-screen and sub-screen in POP mode.

Check the following before calling for service.

No image appears	
● Is the power cord of the display connected?	• Check and see if the power cord is connected properly to the power outlet.
● Is the power indicator light on?	• Press the Power button.
● When the power is on with the power indicator lighting blue, does the screen appear dark? (Display:blue, Media station:blue)	• Adjust the brightness and the contrast.
● Is the power indicator amber? (Display:amber, Media station:blue)	• If the display is in power saving mode, try moving the mouse or pressing any key on the keyboard to bring up the screen.
● Do you see an "OUT OF RANGE" message on the screen?	• This message appears when the signal from the PC (video card) is out of horizontal or vertical frequency range of the display. See the 'Specifications' section of this manual and configure your display again. * Max Resolution 1280 x 1024 @60Hz
● Does the "OUT OF RANGE" message appear when you have set the main source as HDTV?	• Check if the HDTV resolution of your set top box is set at 480i/576i. If so, reconfigure it to 576p/720p/1080i • Check if connection is being made via the D-SUB cable. If HDTV is connected via D-SUB cable, the interface method and PAL (50 Hz) are not supported. Use the HDTV port (component) instead.
● Do you see a "CHECK SIGNAL CABLE " message on the screen?	• This message appears when the signal cable between your PC and your display is not connected. Check the signal cable and try again. • Press the SOURCE button on the remote control and select and input signal connected.

Display image is incorrect	
● Display Position is incorrect.	• Press the AUTO button to automatically adjust your display image to the ideal setting. If the results are unsatisfactory, adjust the image position using the H position and V position icon in the on screen display. • Check Control Panel --> Display --> Settings and see if the frequency or the resolution were changed. If yes, readjust the video card to the recommend resolution.
● Display size is not correct in the PC mode.	• If the resolution is 1280x768 @60Hz, 1024x768 @60Hz, 640x480 @70Hz or 848x480 @70Hz, select the SELECT menu among SETUP OSD menu to set the proper resolution. If the resolution is 1280x768 @60Hz or 1024x768 @60Hz: Select one of 1280x768/1024x768/AUTO. If the resolution is 640x480 @70Hz or 848x480 @70Hz: Select one of 640x480/848x480/AUTO.
● On the screen background, vertical bars or stripes are visible.	• Press the AUTO button to automatically adjust your display image to the ideal setting. If the results are unsatisfactory, decrease the vertical bars or stripes using the CLOCK icon in the on screen display.
● Any horizontal noise appearing in any image or characters are not clearly portrayed.	• Press the AUTO button to automatically adjust your display image to the ideal setting. If the results are unsatisfactory, decrease the horizontal bars using the PHASE icon in the on screen display. • Check Control Panel --> Display --> Settings and adjust the display to the recommended resolution or adjust the display image to the ideal setting. Set the color setting higher than 24 bits (true color).
● The screen color is mono or abnormal.	• Check if the signal cable is properly connected and use a screwdriver to fasten if necessary. • Make sure the video card is properly inserted in the slot. • Set the color setting higher than 24 bits (true color) at Control Panel - Settings.
● The screen blinks.	• Check if the screen is set to interlace mode and if yes, change it to the recommend resolution.

Display image is incorrect

- | | |
|---|---|
| <ul style="list-style-type: none">● Is the H/V position not adjustable from the ZOOM function?● Has the screen size of your PC changed automatically?● Is the sound not displayed on the TV channel indication window?● In the PC signal source, is the brightness of the main screen different from that of the sub-screen? | <ul style="list-style-type: none">• Check if the ZOOM value is set at '0'. In case the ZOOM value is set at '0', the H/V position will not be adjustable.• If the IMAGE SIZE is not full-screen when you use next your PC, execute POP and it will change back to regular settings.• Check if the TV sound is set at MONO. In case the TV sound is at MONO, the sound will not be displayed.• Since the BRIGHTNESS and COLOUR of a sub-screen can be adjusted in the PIP/POP IMAGE of the PIP/POP menus, it may be different from the main screen. |
|---|---|

Have you installed the display driver?

- | | |
|--|---|
| <ul style="list-style-type: none">● Have you installed the display driver?● Do you see an "Unrecognized monitor, Plug&Play (VESA DDC) monitor found" message? | <ul style="list-style-type: none">• Be sure to install the display driver from the display driver CD (or diskette) that comes with your display. Or, you can also download the driver from our web site: http://www.lge.com.• Make sure to check if the video card supports Plug&Play function. |
|--|---|

"IMAGE SIZE" function on OSD menu does not work

- | | |
|---|---|
| <ul style="list-style-type: none">● "IMAGE SIZE" function on OSD menu does not work? | <ul style="list-style-type: none">• Check if POP function is in use. While POP is in use, IMAGE SIZE function becomes disabled. |
|---|---|



Audio function	
● No sound.	• Check if the audio cable is correctly connected. • Check the volume level. • Check if the sound source is correctly selected.
● No sound in PIP /POP mode.	• Check if the SOUND is ON in the PIP/POP OSD menu.
● Sound is too high pitched or too low pitched.	• Adjust the TREBLE to an appropriate level. • Adjust the BASS to an appropriate level. • Select the BBE EFFECT to an appropriate level.
● Sound level is too low.	• Check the volume level.

Do you see a "CONTROLS LOCKED" message on the screen	
● Do you see "CONTROLS LOCKED" when you push MENU button?	• You can secure the current control settings, so that they cannot be inadvertently changed. You can unlock the OSD controls at any time by pushing the MENU button and VOL.+ button for 5 seconds: the message "CONTROLS UNLOCKED" will appear. It is not possible to configure this function with the remote control buttons. You can only do so from the monitor.

TV function	
● TV signal is not received.	• Check the channel system and make sure you chose the correct channel system. • Check the AUTO CHANNEL function to automatically search the available channels. • Check and see if the TV adapter is properly connected between your display and antenna cable.
● Is the sound not displayed on the TV channel indication window?	• Check if the TV sound is set at 'MONO'. In case the TV SOUND is at 'MONO', the sound will not be displayed.



"ZOOM" function on OSD menu does not work

● **Do you see a "NOT SUPPORTED" message on the screen?**

- Check the current resolution on your PC. If the resolution is higher than 1280x768, the "Zoom" function will not be supported.

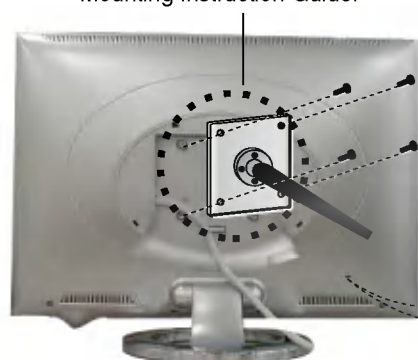


Display	23 inches (58.4cm) Flat Panel Active matrix-TFT LCD	
	Anti-Glare coating	
	23 inches viewable	
	0.258mm pixel pitch	
Sync Input	Horizontal Freq.	30 - 66kHz (Automatic)
	Vertical Freq.	56 - 75Hz (Automatic)
	Input Form	Separate TTL, Positive/Negative Composite TTL, Positive/Negative SOG (Sync On Green) Digital
Video Input	Signal Input	15 pin D-Sub Connector DVI - D connector (Digital) Composite video S video HDTV, TV
	Input Form	RGB Analog (0.7Vp-p/75ohm), Digital, S-VIDEO, CVBS, Y Pb Pr (Y,Cb,Cr)
Resolution	Max	1280 x 1024 @60Hz
	Recommend	1280 x 768 @60Hz
Plug and Play	DDC 2B	
Power Input	Display	DC 24V --- 4.0A
	Input	DC 5V --- 0.5A
	Media station	AC 100-240V~ 50/60Hz 1.5A
	Input	DC 24V --- 4.0A
Power Consumption	Output	DC 5V --- 0.5A
	Normal	: 110W
	Stand-by/Suspend	≤ 5W
	DPMS Off	≤ 3W
	Power switch Off	≤ 3W
	Power cut-off switch off	≤ 1W
	0°~20°	
	Attached(O), Detached ()	

Dimensions &Weight	Display (with tilt stand)	
	Width	58.75cm / 23.13 inches
	Height	44.65 cm / 17.58 inches
	Depth	26.0cm / 10.24 inches
	Net	7.70Kg / 16.98lbs
	Media Station	
	Width	12.96 cm / 5.10 inches
	Height	19.16 cm / 7.54 inches
	Depth	20.56 cm / 8.09 inches
	Net	2.7 Kg / 5.95lbs
	Operating Conditions	
	Temperature	10°C to 35 °C
	Humidity	10 % to 80 % non-Condensing
	Storage Conditions	
	Temperature	-20°C to 60 °C
	Humidity	5 % to 95 % non-Condensing

VESA wall mounting

Connected to another object (stand type and wall-mounted type. This monitor accepts a VESA-compliant mounting interface pad.- **optional**)
For further information, refer to the VESA Wall Mounting Instruction Guide.



Kensington Security Slot- optional

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



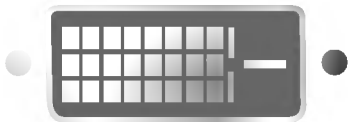
Specifications

Display Modes (Resolution)

■ PC mode

Display Modes (Resolution)			Horizontal Freq. (kHz)	Vertical Freq. (Hz)
1	VGA	640 x 350	31.469	70
2	VGA	640 x 480	31.469	60
3	VESA	640 x 480	37.500	75
4	VGA	720 x 400	31.468	70
5	VESA	800 x 600	37.879	60
6	VESA	800 x 600	46.875	75
7	MAC	832 x 624	49.725	75
8	VESA	1024 x 768	48.363	60
9	VESA	1024 x 768	60.123	75
10	VESA	1280 x 768	47.780	60
11	VESA	1280 x 1024	63.981	60

Signal Connector Pin Assignment



DVI-D Connector

1	T. M. D. S. Data2-	16	Hot Plug Detect
2	T. M. D. S. Data2+	17	T. M. D. S. Data0-
3	T. M. D. S. Data2/4 Shield	18	T. M. D. S. Data0+
4	T. M. D. S. Data4-	19	T. M. D. S. Data0/5 Shield
5	T. M. D. S. Data4+	20	T. M. D. S. Data5-
6	DDC Clock	21	T. M. D. S. Data5+
7	DDC Data	22	T. M. D. S. Clock Shield
8	Analog Vertical Sync.	23	T. M. D. S. Clock+
9	T. M. D. S. Data1-	24	T. M. D. S. Clock-
10	T. M. D. S. Data1+		
11	T. M. D. S. Data1/3 Shield		
12	T. M. D. S. Data3-		
13	T. M. D. S. Data3+		
14	+5V Power		
15	Ground (return for +5V, H. Sync. and V. Sync.)		

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

Indicator

Normal	blue	blue
Stand-by/Suspend	amber	dark blue
DPMS Off	amber	dark blue
Power switch off	off	dark blue
Power cut-off switch off	off	off

