This equipment has been designed for the normal use. It is certified to comply with Electron Wave Suitable Registration. The user this equipment in everywhere including residential areas.

171T

USER GUIDE

Notice

This equipment is one of first class quality. The LCD Panel is composed of more than 2 Million pixels and may have some faulty pixels. LCD panels with a maximum of 10 faulty pixels are classified as products of good quality. This standard is accepted by other manufacturers of LCD panels. An LCD panel without any faulty pixels is too expensive for the average customer. Our ”A” class panels have the least 5 faulty pixels. We guarantee that our panels will provide the user with high quality performance. Therefore, no product exchanges or refunds will be made in regards to this matter. This equipment has been designed for normal use. It is certified to comply with Electron Wave Suitable. The user can use this equipment in all areas including residential areas. Before use of this equipment, the user should read and follow all safety precautions outlined in this manual. This manual also contains the Warranty information for this product.

Safety Precautions

INFORMATION TO THE USER (Part 15.105(b))

INFORMATION TO THE USER

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

WARNING (Part 15.21)

The manufacturer is not responsible for any Radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment."

● Please observe all following rules for installation, usage, and services so as to not defeat the safeguards incorporated into this monitor.

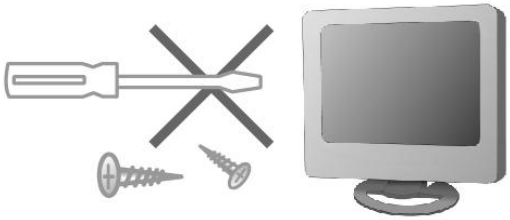
● Safety precautions are divided into Warning and Attention.

Warning : Please ensure that no water leaks or gets onto or into the LCD monitor. Accidental exposure to water may cause fire or electrical damage. If case occurs, please turn off and unplug the monitor. If there is smoke or abnormal noises, please contact the store or customer service center.

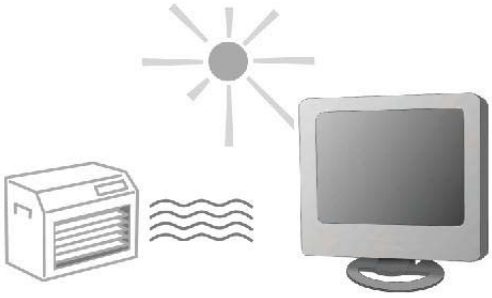
Attention ; Breaking the basic rules can cause injury can cause injury to yourself or damage to the equipment.

● Save the manual near to future users after you read it.

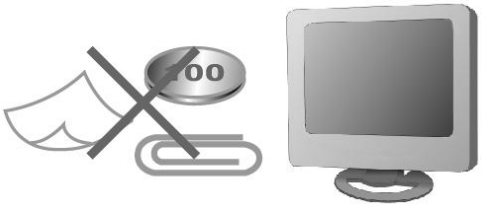
Do not open the monitor. Contact your dealer if the monitor is not operating properly.



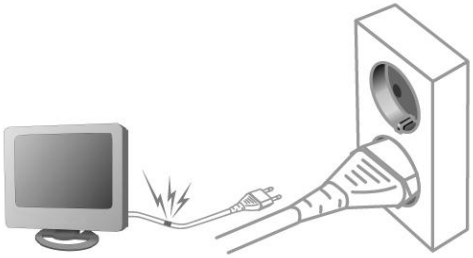
Do not place the monitor in direct sunlight or close to any heat source. -Product malfunction or fire hazard may occur.



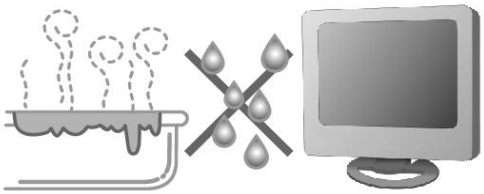
Do not drop metal objects like coins or hairpins into the monitor. -Electrical shock or fire hazard may result.



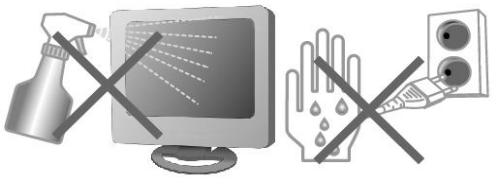
Provide a secure connection to the power supply and do not use damaged power cords or plugs. - Electrical shock or fire hazard may result.



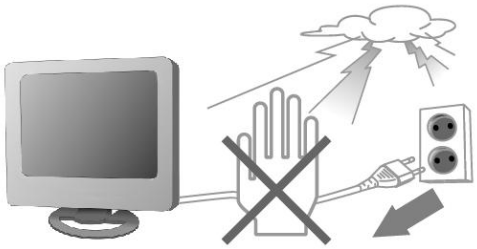
Do not place the monitor in exposed places or near water.



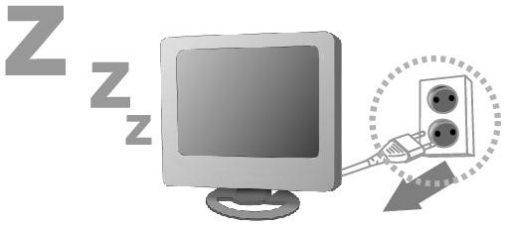
Do not clean the monitor with water or touch it with wet hands. -Electrical shock or fire hazard may result.



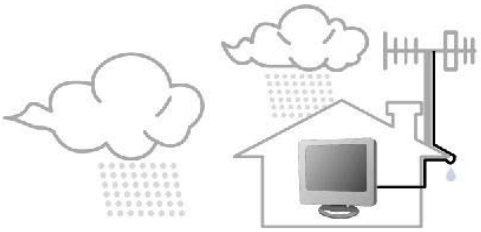
During lightening storms, unplug the monitor from the wall outlet and do not touch it. -Electrical shock or fire hazard may result



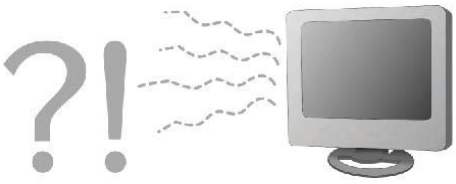
Not using the monitor for hours, unplug the monitor from the wall outlet. - Dust may cause heat, fire, shock or short circuit



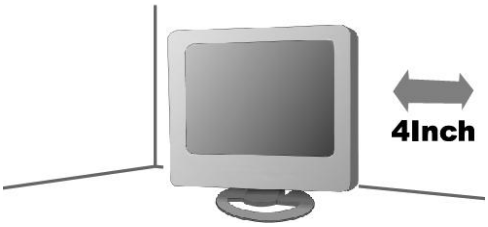
If you use an outdoor antenna, be ensure that no water leaks through connectors and get onto the monitor. - Any liquid spill on the TV may cause fire or electric shock



In case of any smoke or abnormal noise, immediately stop use of product and pull the power cord from the wall outlet. Then call your local dealer or service representative for assistance. -Any subsequent use may result in fire or electric shock.

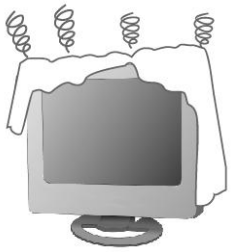


Install the monitor at the specified position from the wall to be well ventilated. - A rise in temperature of monitor may cause fire.

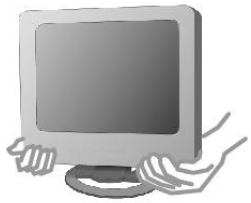


Install the monitor in stable place. - An unstable monitor may crash or fall. Personal injury, damage, or malfunction may result.

Do not block ventilation openings with any curtain or tablecloths. - The increase of inside temperature may cause fire

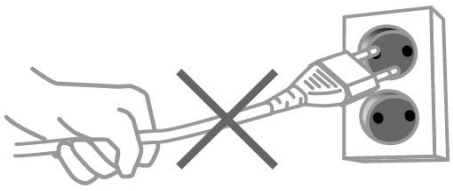


DO not drop the unit or make any scratch on the panel when you move the product. -Any scratch on the panel or drop of the product may cause functional failure.

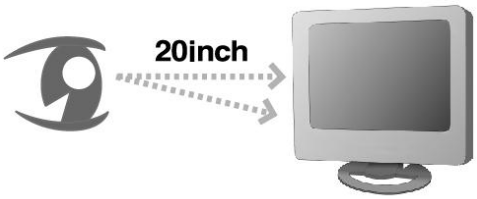


When moving the monitor, turn it off and disconnect all cables and the plug. - Product damage, electric shock, or fire hazard may result.

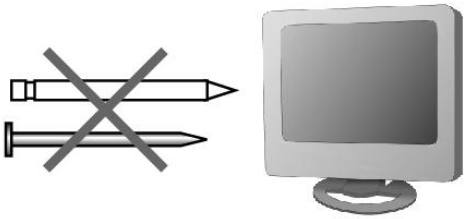
When disconnecting from the wall outlet, grab the plug. - Grabbing the cord may result in heat generation or fire hazard.



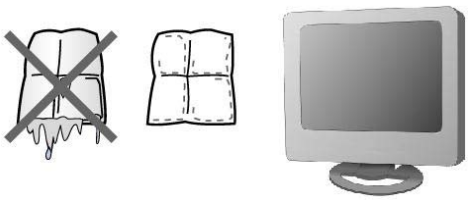
Keep your eyes 20 inch away from the screen and 0~15° down in relation to the screen. - Viewing at too close a position and wrong posture can weaken your eyes.



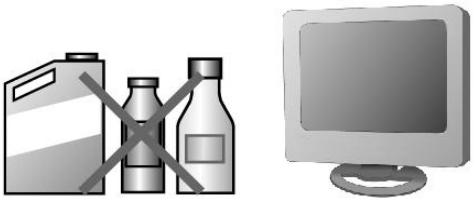
Do not press hard with your finger or scratch with sharp object on the surface of the LCD. -Any damage on the surface of the LCD may cause functional failure.



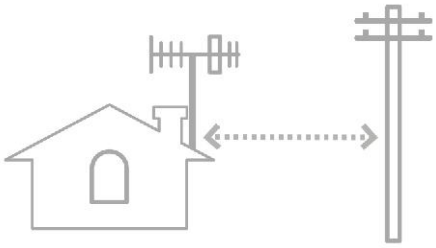
When you clean the monitor and the surface of LCD, be sure to pull the plug from wall outlet. Use soft cloth instead of using damp duster.



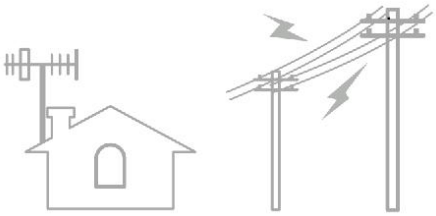
Do not use any chemicals such as industrial polisher, abrasive solution, wax, benzene, alcohol, or clearing detergents. - Chemical cleaners may fade, dissolve, or crack the monitor surface.



If you install outdoor antenna, be sure to install it at the distance from power wire. - If the antenna contacts with the power wire, it may cause electric shock.

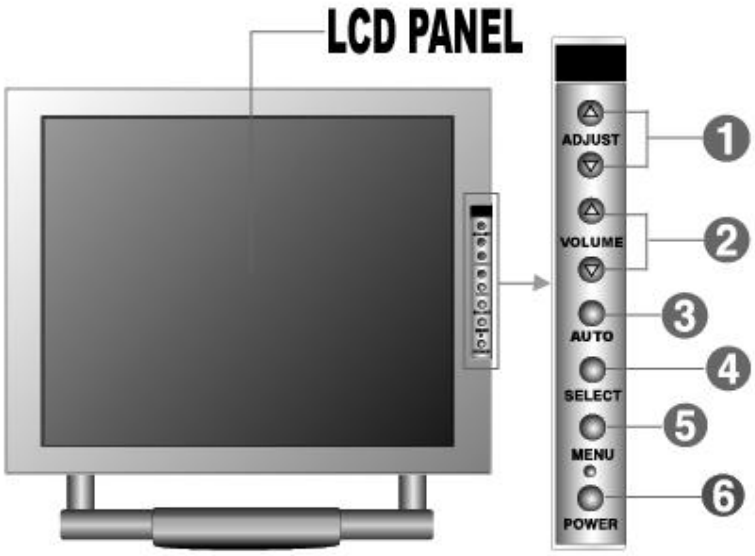


Be sure to keep the distance of the outdoors antenna so that it would not touch electric wire in case it falls by heavy wind. - If the antenna touches electric wire, it may cause injury and electric shock.



Operation and Controls

Front View



1. Adjust Buttons : Moves the selector up or down on the OSD.

   Increases or decreases the channel number.

2. Volume Buttons : Adjusts OSD Settings.

   Increases or decreases the level of speaker volume.

3. Auto Button : Automatically adjusts the monitor settings on PC mode.

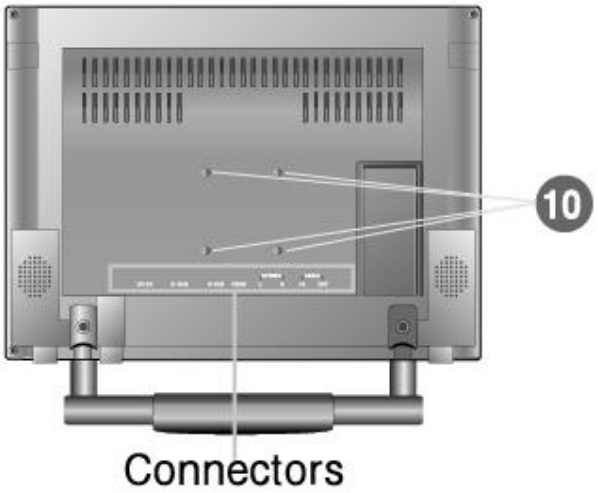
4. Select Button : Selects the input source. (PC / TV / AV1 / AV2).

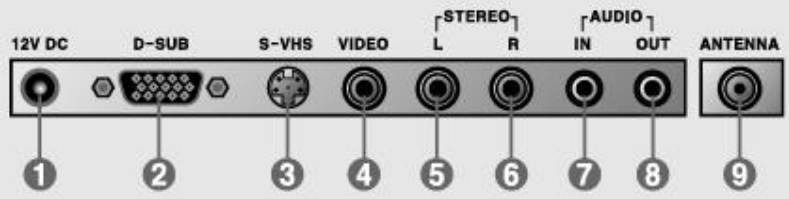
5. Menu Button : Opens or Closes the OSD.

6. Power Button : Turns ON/OFF the LCD TV/Monitor.

Operation and Controls

Rear View





1. **Power In Terminal**

   Connect the DC plug of the AC-DC adaptor to the 12V power in terminal of the set.

2. **D-SUB Terminal**

   Connect the monitor D-SUB connector and the PC using the D-SUB signal cable.

3. **S-Video Input**

   Connect S-Video cable to this input.

4. **Composite Video Input**

   Connect video cable to this input.

5. **Audio Input (Left)**

   Connect left audio cable to this input.

6. **Audio Input (Right)**

   Connect right audio to this input.

7. **PC Audio Input**

   Connect the audio output of the PC.

8. **PC Audio Output**

   Connect the stereo speaker system to Audio output.

9. **Antenna Input**

   Use to connect antennas (indoor/outdoor/cable) and VCRs to your LCD TV/Monitor.

10. **VESA HOLE for fixing on the wall.**

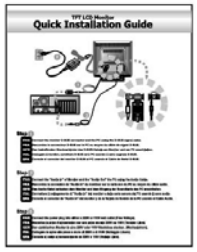
    Supports VESA mounting standard for use with various VESA mounting devices.

Basic Accessories

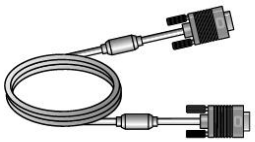
- Please make sure the following items are included with your monitor.

If any items are missing, contact your dealer.

LCD Monitor

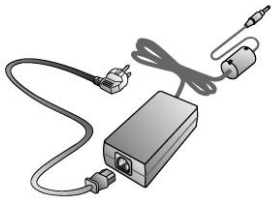


Quick Installation Guide

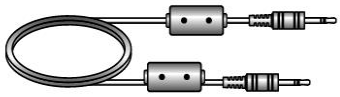


D-SUB Signal Cable

CD-ROM Title



Adaptor



Audio Cable

TV Tuner

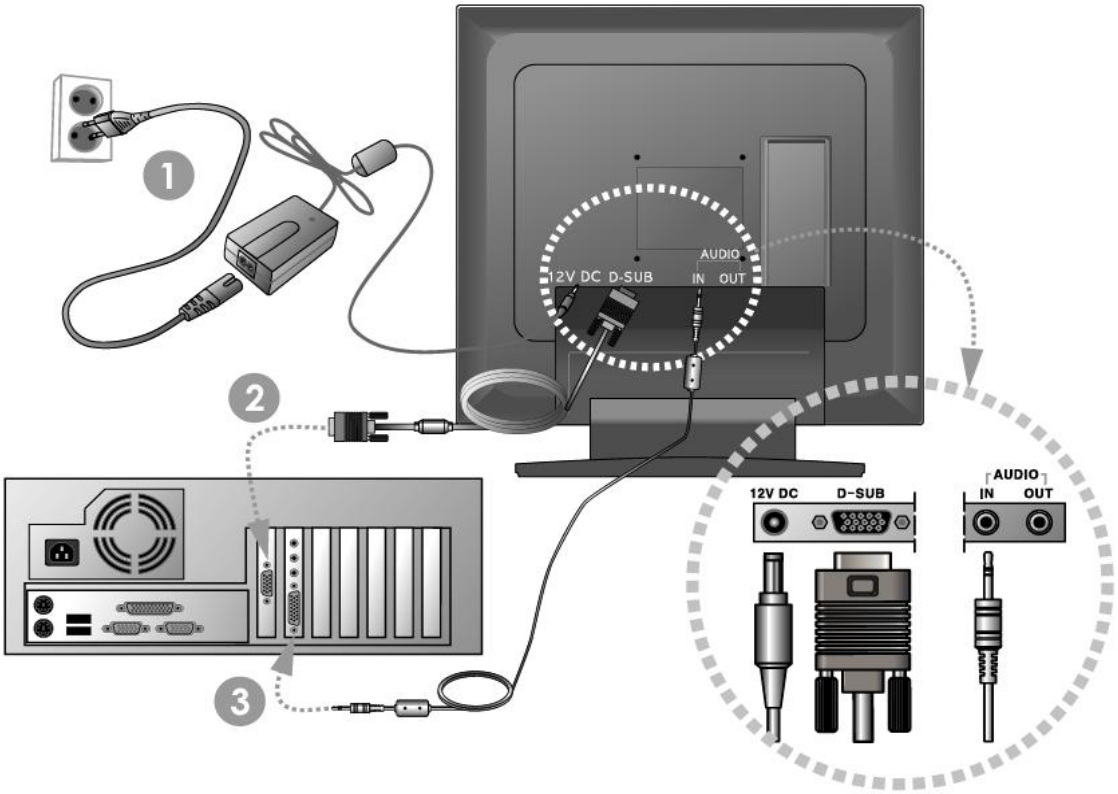
RCA Cable(Option)

Remote Controller

Batteries

Connecting To the PC

● Attention : Power off your LCD TV/Monitor before making any connections.



1. Power Connection : Connect the DC Adaptor to the power port on the back of the monitor

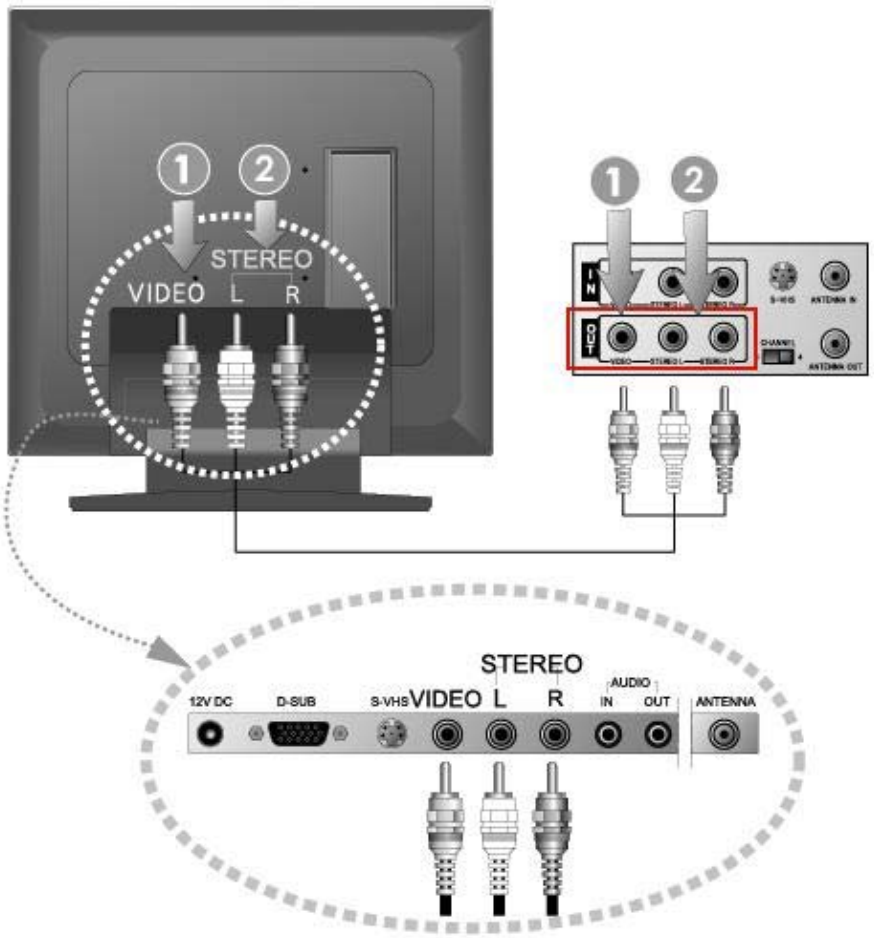
2. Connection of PC : Connect the signal cable from the monitor output socket of the PC to D-SUB terminal of the set.

3. AUDIO IN : Connect the AUDIO IN on the rear of the LCD TV/Monitor and the AUDIO OUT of the PC using the audio cable.

   AUDIO OUT : Connect an audio cable from the AUDIO OUT of the rear of the LCD TV/Monitor to the external speakers.

Connection to the VCR

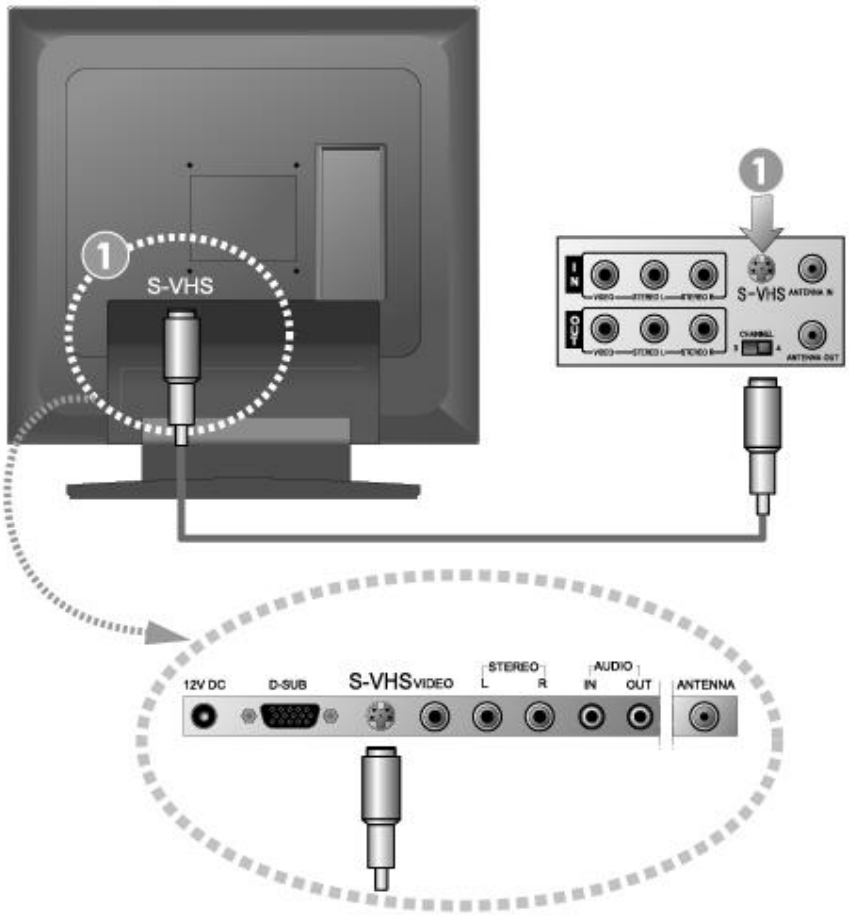
1. Connecting VIDEO 1



1. Connect RCA cable(Yellow) to an appropriate external A/V device such as VCR, DVD or Camcorder.

2. Connect RCA audio cables to "STEREO (R)" and "Audios (L)" terminals and the other ends to corresponding audio out terminals on the A/V device.

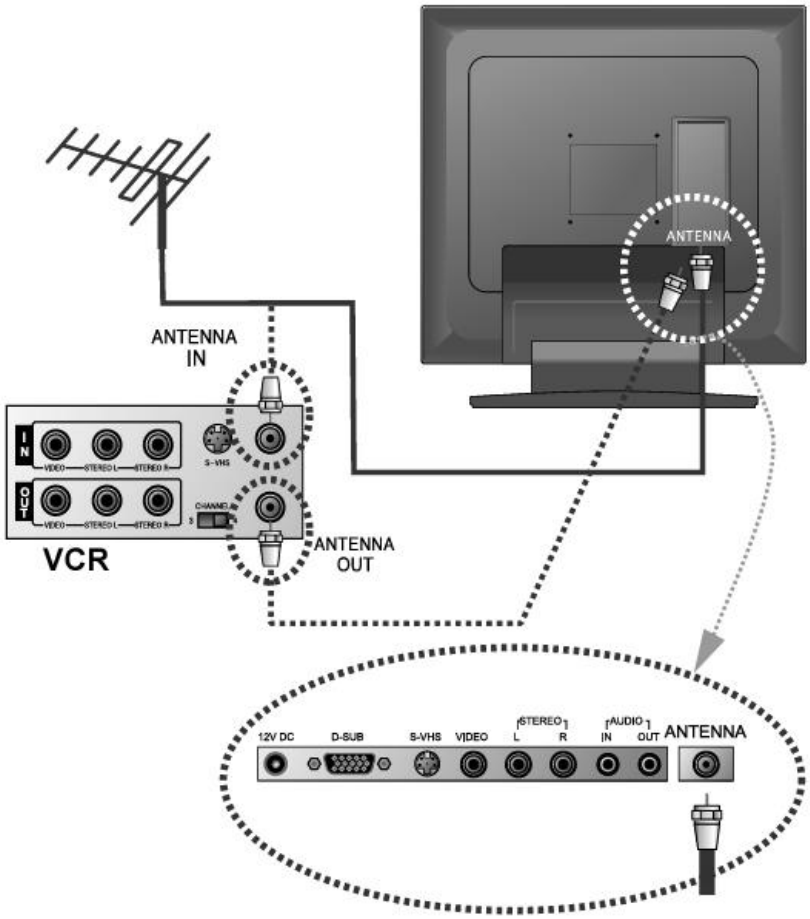
2. Connecting VIDEO 2



1. Connect S-VHS cable to an appropriate external A/V device such as VCR, DVD or Camcorder.

Connection to the TV Antenna

●Connect to TV Antenna : Connect an antenna or CATV cable to the antenna terminal on the back of the monitor. (Option)



Product Specification

1. Product Specification

SCREEN SIZE			337.92mm(H) x 270.336mm(V)
LCD SYSTEM	Resolution		1280(H) x 1024(V)
	Brightness		250cd/m^2
	Contrast ratio		350: 1
	Response time		30 msec
	Viewing angles		150° (H) / 125° (V)
VIDEO	PC Input max resolution		1280 X 1204 @ 75 Hz (SXGA)
	TV Color System		NTSC
	Video Color System		NTSC/PAL/SECAM
AUDIO	Built-in speakers		Left (2W), Right (2W)
REAR	Inputs	PC	15pin D-sub connector
		Composite Video	RCA Jack X 1
		S-Video	Mini DIN 4-pin X 1
		Audio L/R	RCA Jack X 1
		PC Audio	Audio Jack X 1
	Antenna Input		75 ohm external input terminal
	Audio Out		Audio Jack X 1
	12V DC Input		Power Input Connector
FRONT	User Control Buttons		Power, Menu, Select, Auto, VOL Up/Down, Adjust Up/Down
	IR Receiver		Yes
Convenience	Sleep Timer		Yes
	Auto Channel Searching		Yes
	Smart Picture Control		Normal/Dynamic/Cinema/User
Power	Power management		VESA DPMS standard
	Source		12V/4A DC Adapter(AC 100~240V, 50/60Hz)
	Consumption		40W (standby: under 3W)
Plug & Play Level			VESA DDC 1/2B Compatible
Plug & Play Level			FCC, CE, VCCI, MIC,
Dimensions	W x L x H		409 X 380 X 169
Weights	Kg		4.4Kg (Net)

●This specification of this product might be changed without any notice.

2. Product's Display Specification

RESOLUTION	HORIZONTAL FREQUENCY (KHz)	VERTICAL FREQUENCY (Hz)	REPRESENTATIVE
640 X 350	31.500	70.0	640 X 350@70Hz - Dos Graphic Mode
640 X 480	31.500	60.0	640 X 480@60Hz - Industry Standard
640 X 480	35.014	66.7	640 X 480@66.6Hz - Mac Mode
640 X 480	37.860	72.8	640 X 480@72Hz - VESA Standard
640 X 480	37.500	75.0	640 X 480@75Hz - VESA Standard
720 X 400	31.545	70.0	720 X 400@70Hz - DOS Test Mode
800 X 600	35.156	56.2	800 X 600@56Hz - VESA Guidelines
800 X 600	37.879	60.3	800 X 600@60Hz - VESA Guidelines
800 X 600	48.077	72.1	800 X 600@72Hz - VESA Standard
800 X 600	46.875	75.0	800 X 600@75Hz - VESA Standard
800 X 600	46.534	69.9	800 X 600@70Hz - Mode
832 X 624	49.731	74.5	832 X 624@75Hz - Mac Mode
1027 X 768	48.363	60.0	1027 X 768@60Hz - VESA Guidelines
1027 X 768	56.475	70.0	1027 X 768@70Hz - VESA Standard
1027 X 768	57.647	72.0	1027 X 768@72Hz - SUN Mode
1027 X 768	60.024	75.0	1027 X 768@75Hz - VESA Standard
1280 X 1024	63.981	60.0	1280 X 1024@60Hz - VESA Standard
1280 X 1024	74.400	70.0	1280 X 1024@70Hz - Mode
1280 X 1024	79.976	75.0	1280 X 1024@75Hz - VESA Standard

Basic Explanation

The front part of panel of this model consists of following function buttons. Description for each of function button is shown below.

- Select Button

Displays a menu of all of the available input source. (PC / TV / AV1 / AV2).

- Auto Button

Self adjusts the monitor settings on PC mode.

- Menu Button

Opens or Closes the OSD.

- Power Button

Turns ON/OFF the LCD TV/Monitor.

- Adjust Buttons(,)

Moves the selector up or down on the OSD.

Increases or decreases the channel number.

- Volume Buttons(,)

Adjusts OSD Settings.

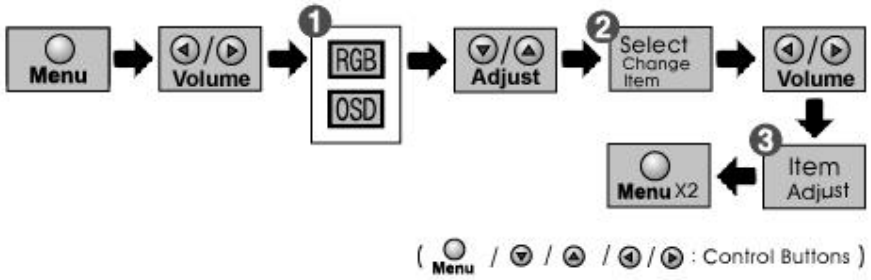
Increases or decreases the level of speaker volume.

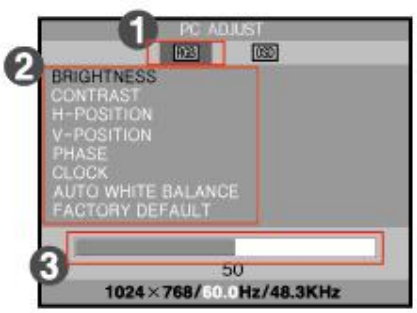
Basic Operations

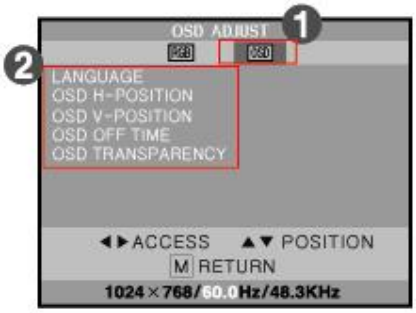
1. OSD Adjustment

- Set OSD value with the instructions described below.

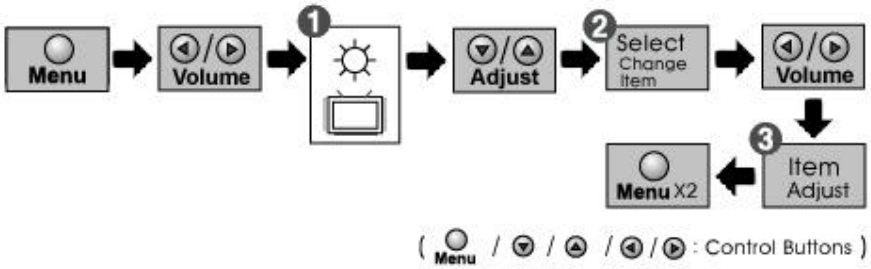
1) Adjustment procedure for PC Monitor Mode

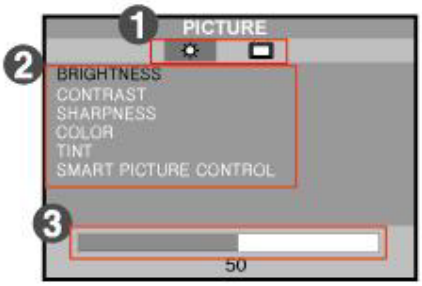




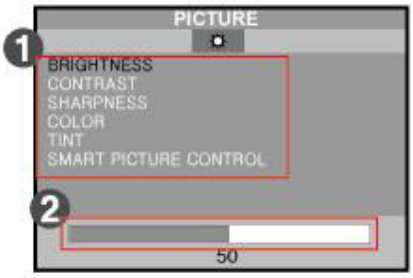


2) Adjustment procedure for TV Monitor Mode





3) Adjustment procedure for AV 1 / 2 Mode



2. Frequently used function

1) LCD TV/Monitor Auto adjustment function.

- Automatically adjusts the monitor settings on PC mode.

Press the AUTO Button.

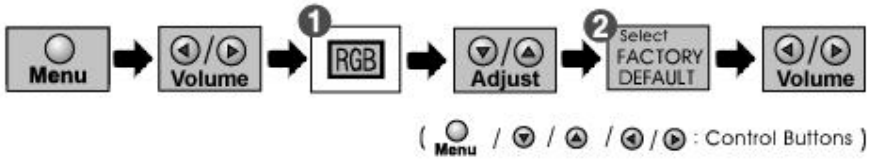
2) Adjust Speaker volume

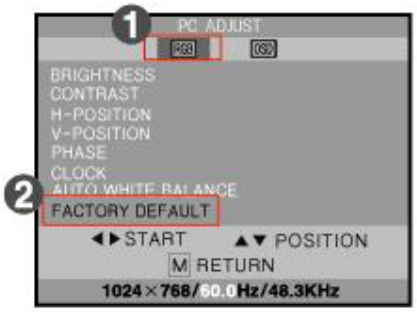
- Increases or decreases the level of speaker volume.

Press the ◀/▶ buttons.

3) Reset Factory Default

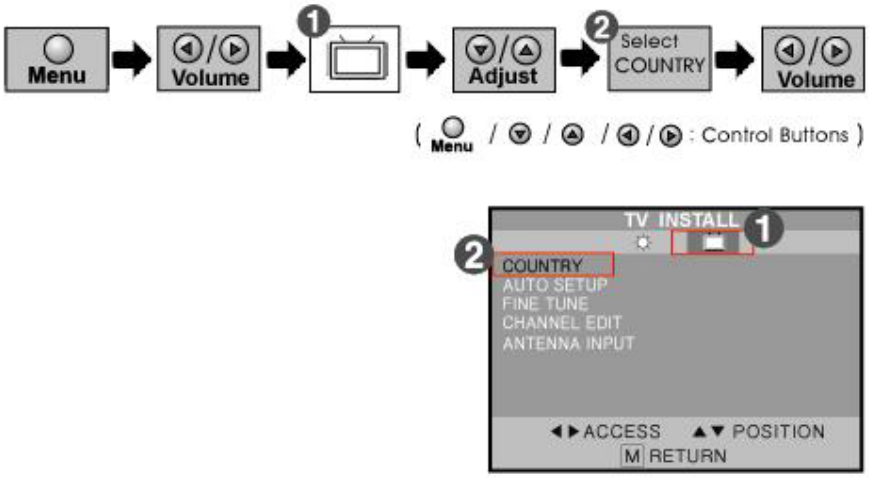
- Screen parameters are replaced with the factory default values.





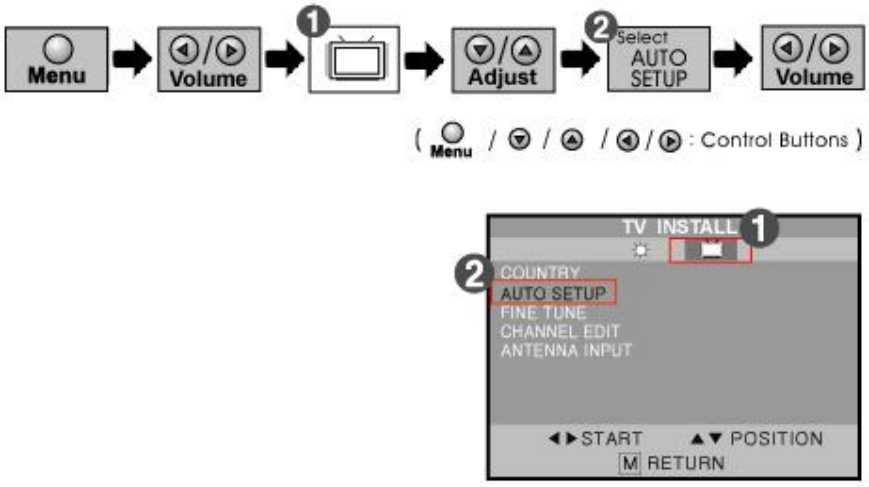
4) Select Country (**TV function**)

- Select a channel system that is being used in your region.



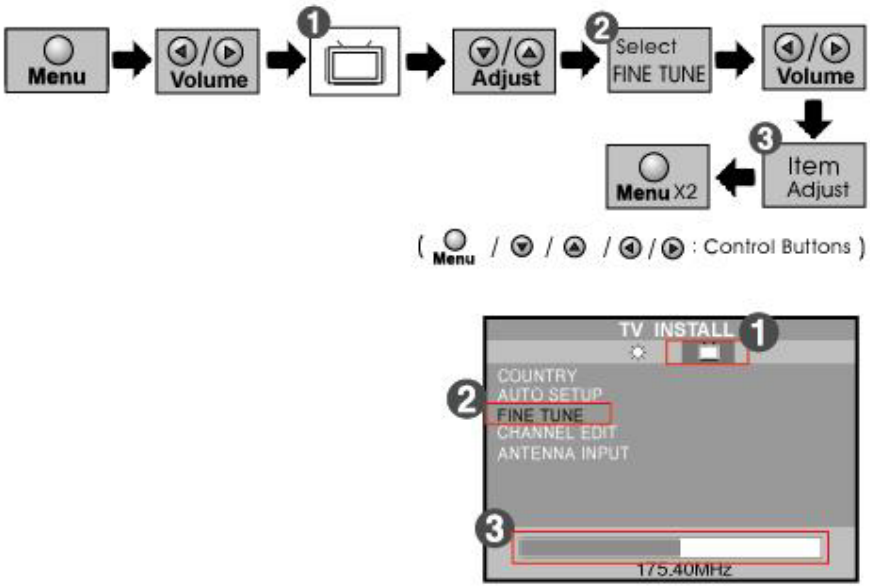
5) Auto Setup (**TV function**)

- The LCD TV/Monitor will scan the channels and memorize all of the channels it can receive.



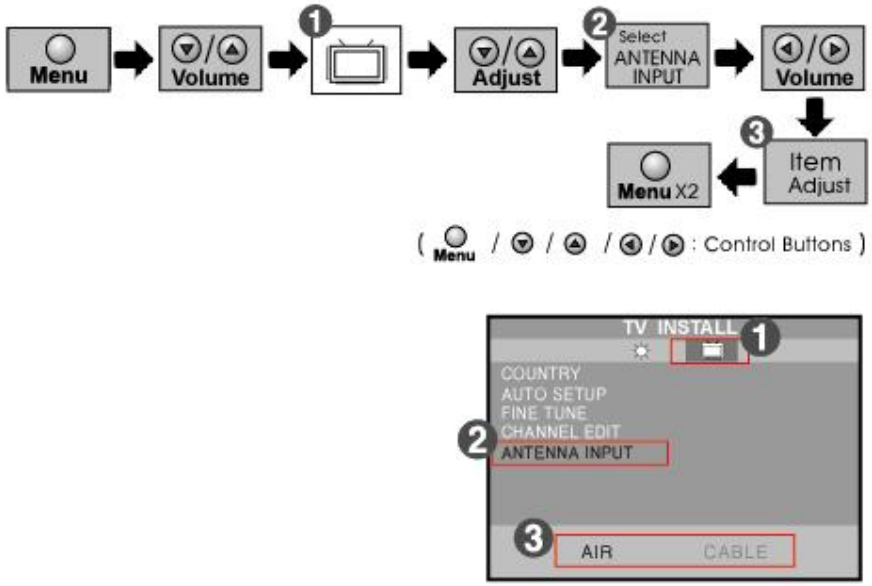
5) Fine Tune (**TV function**)

- Due to weak signals or a wrong antenna configuration, some of the channels may not be tuned correctly. With fine tune function, you can tune in each channel precisely which has a grainy picture.



6) Antenna Input (**TV function**)

- Selects the desired source, between AIR and CABLE.



Description and Directories of All Menus

1. Menus when using PC Mode

1) PC ADJUST

- Brightness : Adjust the brightness of video or TV without affecting PC RGB's brightness.
- Contrast : Adjust the contrast of video or TV without affecting PC RGB's contrast.
- H-Position : Move the entire screen to the left or right.
- V-Position : Move the entire screen to the below or upper.
- PHASE : Fine tuning of the screen even though it is not easily distinguishable with naked eyes.
- CLOCK : Adjust the horizontal-size(size of horizontal screen)of the entire screen.
- Auto White Balance : Select this menu to use automatic color balance function.
- Factory Default : Screen parameters are replaced with the factory default values.

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2) OSD ADJUST

- Language : OSD language and appearance can be changed.
- OSD H-Position : You can change the horizontal position where the OSD menu appears on your monitor
- OSD V-Position : You can change the vertical position where the OSD menu appears on your monitor
- OSD Off Time : The OSD will automatically turn off if no adjustments are made for a certain time period.
- OSD Transparency : Changes the transparent(or opaque) status of the background of the OSD.

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2. Menus when using TV Mode

1) PICTURE

- Brightness : Adjust the brightness of video or TV without affecting PC RGB's brightness.
- Contrast : Adjust the contrast of video or TV without affecting PC RGB's contrast.
- Sharpness : Adjust the sharpness of video or TV image.
- Color : Change the richness of color.
- Tint : Change the tone of the color.
- Smart Picture Control : Changes the picture setting that is defined for [NORMAL], [DYNAMIC], [CINEMA] or [USER] each.

---

2) TV INSTALL

- Country : Select a channel system that is being used in your region.
- Auto Setup : Searches available channels and stores all automatically.
- Fine Tune : Due to weak signals or a wrong antenna configuration, some of the channels may not be tuned correctly. With fine tune function, you can tune in each channel precisely which has a grainy picture.
- Channel Edit : Channel Edit function helps edit those channels.
- Antenna Input : Select the desired source, between AIR and CABLE..

---

3. Menus when using AV 1(CVBS) / AV 2 (S-VHS) Mode

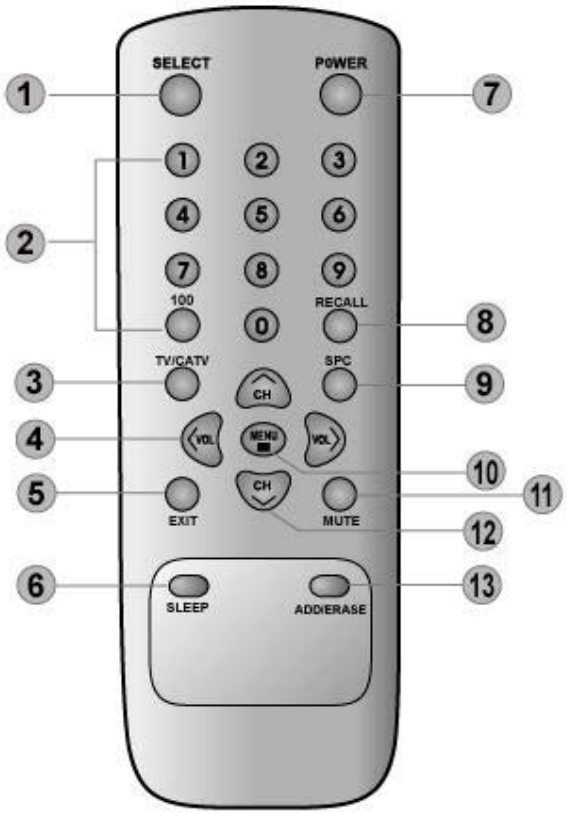
1) PICTURE

- Brightness : Adjust the brightness of video or TV without affecting PC RGB's brightness.
- Contrast : Adjust the contrast of video or TV without affecting PC RGB's contrast.

- Sharpness : Adjust the sharpness of video or TV image.
- Color : Change the richness of color.
- Tint : Change the tone of the color.
- Smart Picture Control : Changes the picture setting that is defined for [NORMAL], [DYNAMIC], [CINEMA] or [USER] each.

Description on Remote Controller

(TV Only-Option)



1. **SELECT** Button : Displays a menu of all of the available input source.

   (PC / TV / AV1 / AV2).

2. **Number** buttons : Press to directly select channels.

3. **TV/CATV** Select Button : Press to convert reception modes between aerial and CATV.

4. **VOLUME UP/DOWN** Buttons : Adjusts the sound level. Adjusts menu settings.

5. **EXIT** Botton : To exit from the OSD

6. **SLEEP** Button : To select the length of time before the set automatically, switches to standby.

7. **POWER** Button : Press to turn the LCD TV/Monitor on and off.

8. **RECALL** Botton : To display the current status: channel number and input mode.

9. **SPC (Smart Picture Controls)** Button : To access preset video settings (NORMAL, DYNAMIC, CINEMA, and USER)

10. **MENU** Button : To display or exit from the OSD.

11. **MUTE** Button : Switches the sound on or off.

12. **CHANNEL UP/DOWN** Buttons : Press to select channels or menu settings.

13. **ADD/ERASE** Button : Press to add and erase channels on your LCD TV.

Troubleshooting

In case of trouble, check these before calling the service center.

What you see...	Suggested Actions
Screen is black and power indicator is off	Ensure that the power cord is firmly connected and the LCD TV/Monitor is on.
Screen is black and power indicator is blinks.	Ensure that the signal cable is firmly connected to the PC or video sources. Ensure that the PC or video sources are turned on.
Screen position and size is incorrect.	Press the AUTO Button.
Image is not stable and may appear to vibrate.	Check that the display resolution and frequency from your PC or video board is an available mode for your LCD TV/Monitor. On your computer check : Control Panel -> Display -> Settings.
The image is too light or too dark.	Adjust the Brightness and Contrast.
Horizontal noise on the image.	Adjust the AUTO. Adjust the PHASE.
Picture OK, No Sound.	Check the Volume. Make sure that MUTE is not on and the volume level.
Vertical bars or stripes on the image.	Adjust the AUTO. Adjust the CLOCK.

Vocabulary

Dot pitch

The image on a monitor is composed of red, green and blue dots. The colser the dots, the higher the resolution. The distance between two dots of the same color is called the 'Dot Pitch'.

Horizontal Frequency

The time to scan one line connecting the right edge to the left edge of the screen horizontally is called Horizontal Cycle. The inverse number of the Horizontal Cycle is called Horizontal Frequency.

Vertical Frequency

The screen must be redrawn several times per second in order to create and display an image for the user. The frequency of this repetition per second is called Vertical Frequency or Refresh Rate.

Resolution

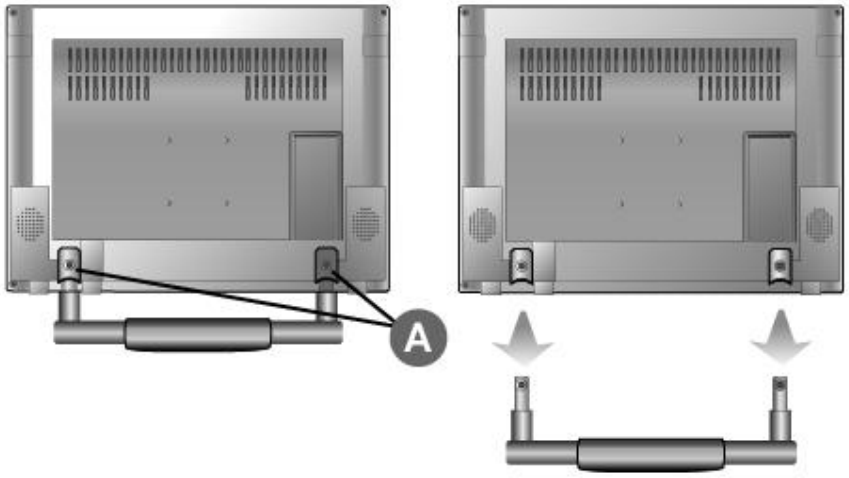
The number of horizontal and vertical dots used to compose the screen image is called 'resolution'.

Plug and Play

This is a function that provides the best quality screen for the user by allowing the computer and the monitor to exchange information automatically.

Mounting Interface Separation & Union

1. Separation

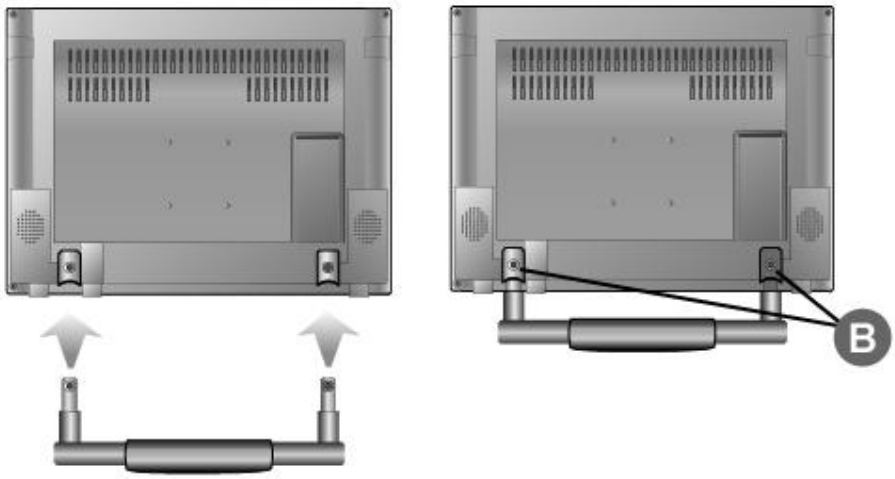


1. Turn off your monitor and unplug its power cord.

2. Lay the LCD Monitor face-down ward on a flat surface with a cushion beneath it to protect the screen.

3. Remove the screws(A) and then remove the Stand from the LCD monitor.

2. Union



1. Align the stand with the holes(B) in the Rear Cover and secure it with the screws.