fgate

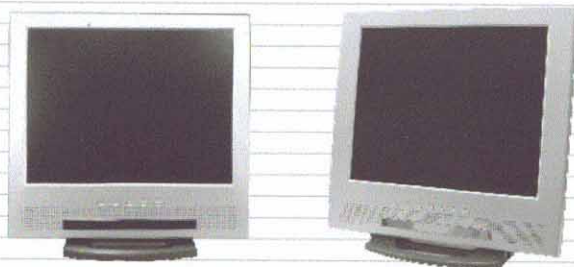## ANALOG COLOR TFT
LCD MONITOR
USER'S MANUAL

15 " TFT LCD Monitor
With A/V

17 " TFT LCD Monitor
With A/V & TV

LCD MONITOR
USER'S MANUAL

TABLE OF CONTENTS

Safety Instructions

1. Before connecting the AC power cord to the DC adapter outlet, make sure the voltage designation of the DC adapter corrsponds to the local electrical supply.
2. Never insert anything metallic into the cabinet openings of the Liquid Crystal Display (LCD) monitor; doing so may create the danger of electric shock.
3. To avoid electric shock, never touch the inside of the LCD monitor. Only a qualified technician should open the case of the LCD monitor.
4. Never use your LCD monitor if the power cord has been damaged. Do not allow anything to rest on the power cord, and keep the cord away from areas where people can trip over it.
5. Be sure to hold the plug, not the cord, when disconnecting the LCD monitor from an electric socket.
6. Openings in the LCD monitor cabinet are provided for ventilation. To prevent overheating, these openings should not be blocked or covered. Also, avoid using the LCD monitor on a bed, sofa, rug or other soft surface. Doing so may block the ventilation openings in the bottom of the cabinet. If you put the LCD monitor in a bookcase or some other enclosed space, be sure to provide adequate ventilation.
7. Put your LCD monitor in a location with low humidity and a minimum of dust.
8. Do not expose the LCD monitor to rain or use it near water (in kitchens, near swimming pools, etc.). If the LCD monitor accidentally gets wet, unplug it and contact an authorized dealer immediately. You can clean the LCD monitor with a damp colth when necessary, but be sure to unplug the LCD monitor first.
9. Place the LCD monitor on a solid surface and treat it carefully. The screen is made of thin glass with a plastic front surface and can be damaged if dropped, hit or scratched. Do not clean the front panel with keton-type materials (e.f., acetone), Ethyl alcohol, Toluene, Ethyl acid, Methyl or Chloride - these may damage the panel.
10. Locate your LCD monitor near an easily accessible AC outlet.
11. If your monitor does not operate normally - in particular, if there are any unusual sounds or smells comming from it - unplug it immediately and contact an authorized dealer or service center.
12. High temperature can cause problems. Don't use your LCD monitor in direct sunlight and keep it away from fireplaces, and other sources of heat.
13. Unplug the LCD monitor when it is going to be left unused for an extended period of time.
14. Unplug your LCD monitor from the AC outlet before any service.

| ⚠ | **CAUTION**
RISK OF ELECTRIC SHOCK
DO NOT OPEN | ⚡ |

CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER.

General Safety Precautions

This user's manual has been engineered and manufactured for your safety.
You can prevent serious electrical shock and hazards by keeping in mind the following :

Do not place anything such like heavy, wet or magnetic one on the monitor or the power cord.
Never cover the ventilation openings with any material and never touch them with metallic or inflammable materials.

Avoid operating the monitor in extreme heat, humidity or areas affected by dust.
* Temperature : 5-35℃   * Humidity : 30-80RH

Be sure to turn the monitor off before plugging the power cord into the socket.
Make sure that the power cord and other cords are securely and correctly connected.

Overloaded AC outlets and extension cords are dangerous, as are frayed power cords and broken plugs, which may cause electric shock or fire call your service technician for replacement.

Do not use sharp tools such as a pin or a pencil near the monitor, as they may scratch the LCD surface.
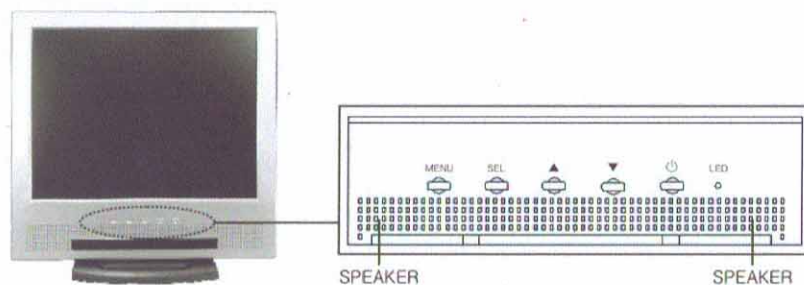
Do not use a solvent, such as benzene, to clean the monitor, as it will damage the LCD surface.

LCD MONITOR

I. Parts Description
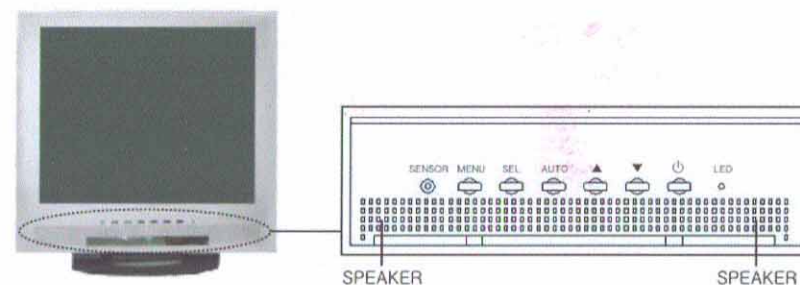
Front Panel (15")

SPEAKER   SPEAKER

1) MENU
· Displays the main MENU
· In MENU window, moves to upper menu

2) SEL
· Selects input signal (PC, VIDEO)
· In MENU window, move to sub menu

3) ▲, ▼
· In PC or Video mode, controls the volume
· In MENU window, increase or decrease the value

4) ⏻
· Power on or off

5) LED
· Green light when power - on
· Yellow blinking when no signal

6) SPEAKER

LCD MONITOR
USER'S MANUAL

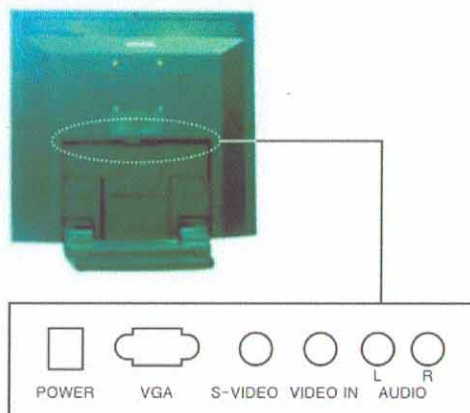## I. Parts Description

Front Panel (17")

SPEAKER   SPEAKER

1) SENSOR
· Remote control sensor

2) MENU
· Displays the main MENU
· In MENU window, moves to upper menu

3) SEL
· Selecting input signal (PC, VIDEO, TV)
· In MENU window, move to sub menu

4) AUTO
· In PC mode, configures the display automatically

5) ▲, ▼
· In MENU window, increase or decrease the value
· In PC or VIDEO mode, controls the volume
· In TV mode, controls the channel

6) ⏻
· Power on or off

7) LED
· Green light when power - on
· Blinking when no signal

8) SPEAKER

LCD MONITOR
USER'S MANUAL

I. Parts Description

Rear Panel (15")

POWER   VGA   S-VIDEO   VIDEO IN   L   R   AUDIO

1) POWER
   · Input power jack from power outlet

2) VGA
   · VGA jack from PC

3) S-Video
   · S-Video signal jack from VHS, DVD etc

4) Video in
   · Video signal jack from VCR or similar device

5) Audio L, R
   · Audio Left / Right signal from VCR or similar device

LCD MONITOR
USER'S MANUAL

I. Parts Description

Rear Panel (17")

POWER   VGA   S-VIDEO   VIDEO IN   L   R   IN   OUT   TV ANT
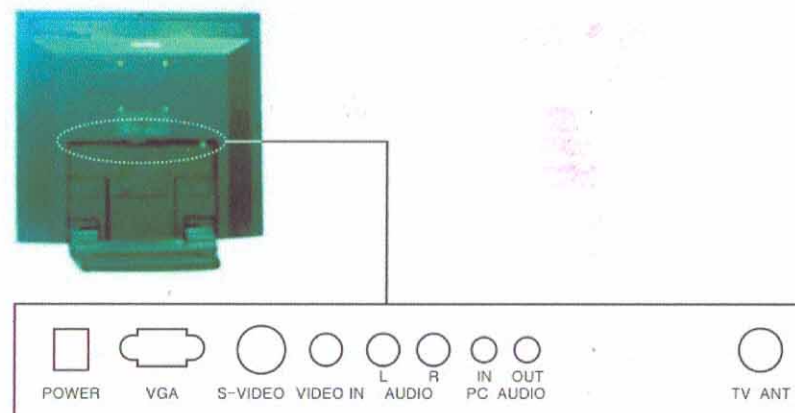   AUDIO   PC AUDIO

1) POWER
   · Input power jack from power outlet

2) VGA
   · VGA jack from PC

3) S-Video
   · S-Video signal jack from VHS, DVD etc

4) Video in
   · Video signal jack from VCR or similar device

5) Audio L, R
   · Audio Left / Right signal from VCR or similar device

6) PC Audio in / out
   · Audio signal from PC
   · Audio signal output to external speaker

7) TV ANT
   · TV antenna jack

I . Parts Description

Remote Control Unit
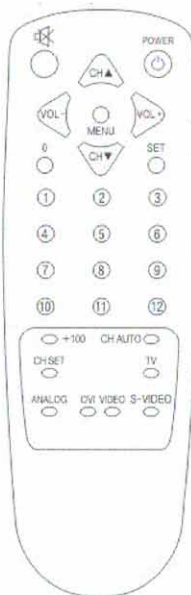
Inserting the Batteries in the Remote Controller

You must insert or replace the batteries in the remote controller when you :

* Purchase the set.
* Find that the remote controller is no longer operation correctly.

1. Remove the cover of the remote controller by pressing the symbol and pulling the cover space in the direction of the arrow.

2. Insert 2batteries (AAA-size), taking care to respect the polarities.

3. Replace the cover by pushing it in the direction of the arrow.

! You can use your remote controller within a distance of 7-10m and an angle of 30 degrees from the left and right side of remote controller window of your monitor

※ **15 " Nonsupported**

I . Parts Description

Remote Key Instruction

1) SELECT
   - Select input signal (PC, TV, Composite video, S-video) of the on-screen menu

2) MENU
   - Displays OSD menu
   - Moves up and down in MENU screen

3) PC
   - Select PC signal (Analog RGB)

4) AUTO
   - Automatically adjusting the image position, the clock and the clock phase value

5) MUTE
   - Press to cut off the sound temporarily

6) POWER
   - Turns the power on and off

7) CH(▲), CH(▼)
   - Press ▲, or ▼ to change channels

8) VOL +, VOL −
   - Volume control

9) TV
   - TV select

10) Numeric buttons
   - Direct channel select

11) SCAN
   - Auto TV channel search

12) EXIT
   - Exit OSD menu

I. Parts Description

Connecting a PC

15"

POWER   VGA   S-VIDEO   VIDEO IN   L R AUDIO
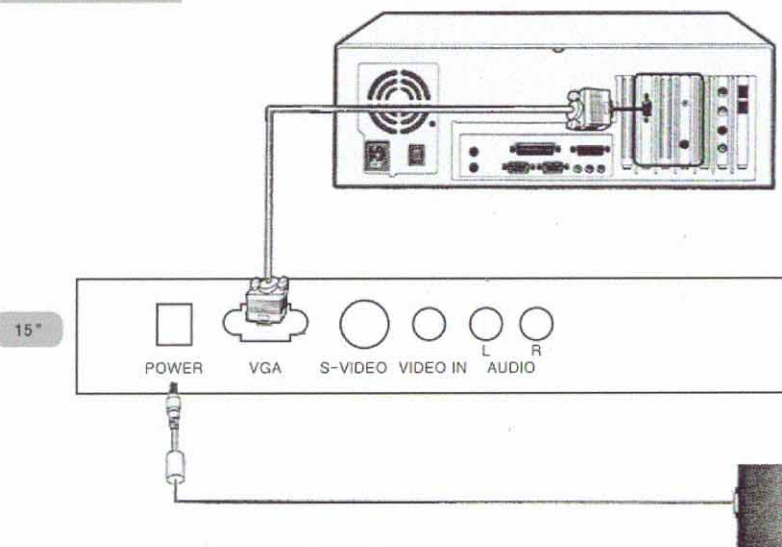
※ 15" "TV ANT" Nonsupported

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1. Turn off your computer and monitor.

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2. Connect a PC D-Sub (VGA) cable between your PC and VGA of the monitor. And then fasten the screws of both sides of the cable.

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3. Connect a DC Power cable to the power input jack of the monitor.

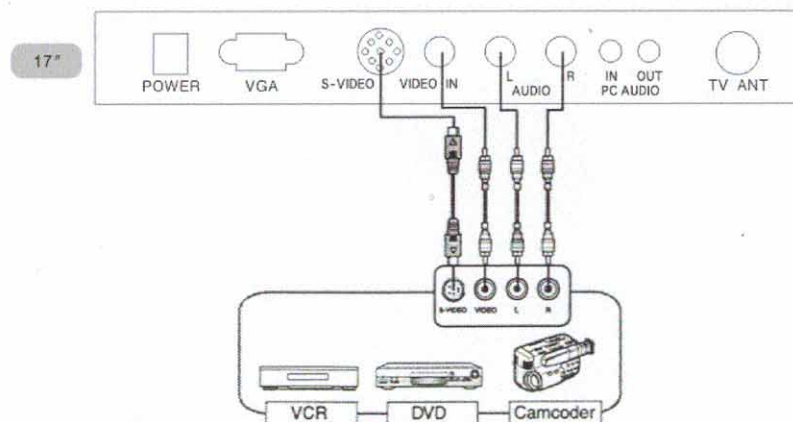4. Power on the computer before turning on the monitor.

I. Parts Description

Connecting the VCR, DVD, TV or Other External Device

To view television channels correctly, a signal must be received by the set from one of following sources :
* An outdoor aerial
* An indoor aerial (not recommendable)
* A cable television network

1. In the first three cases, connect the aerial or network input cable to the 75 ohm coaxial socket on the bottom of the television.

2. Press the TV mode button on the remote controller.
   (TV Function is optional with users.)

17"

POWER   VGA   S-VIDEO   VIDEO IN   L R AUDIO   IN OUT PC AUDIO   TV ANT

S-VIDEO VIDEO L R

VCR — DVD — Camcoder

1. Connect video and audio cable according to the sharpe and color of the video/audio cable.
   * When an external device is in MONO, the audio connection cable can be connected to either the left or the right and S.MODE should be set FM MONO.

2. For optimal visual image, use S-VIDEO connector instead of video (yellow) connector.

II. Before using the monitor

Instructions

- This monitor conforms to VESA DPMS regulations

- This monitor has tested and passed all the regulations regarding electromagnetic interference

- The LCD panel consists of 3,840×3,072 (15″ : 3,072×2,304)dots so some dots can be seen as bright or dark but never affects the monitor function

- The brightness of upper and lower part of the screen could be seen different because of viewing angle

- The optimum resolution is 1280×1024 at 60Hz (15″ : 1024＊768 60Hz), so check with your PC graphic card

- When your display status is not good enough to look, press "AUTO" key

- There are VESA mount holes in the back of your monitor for wall-mount

- Please use only the adaptor supplied with the monitor otherwise you will not be able to receive free A/S when out of order

- There could be noises in particular graphic card of your PC, then adjust manually by changing the values of phase or clock

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II. Before using the monitor

Initial set PC mode
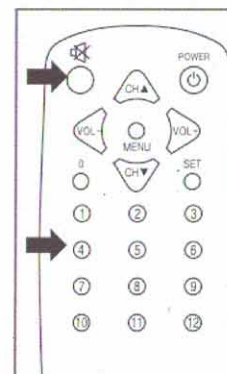
1. Power on your monitor by pressing the POWER button on the main set or on the remote controller

2. Press the PC button on the remote controller to switch to the PC mode
   Then the PC screen is automatically set.
   When a CD-Title runs, the music can be heard from the speakers

3. Before operation, set the PC resolution by 1280×1024, and true color

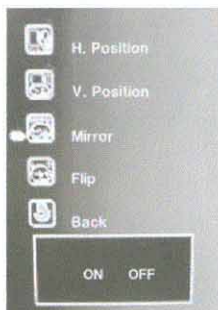### When the Screen is unstable or the TV channel does not change

MAIN MENU

1. Press MENU button, the main menu is displayed

2. Select (RGB, S-Video: C-Video)

3. Power

4. Down (Auto adjust) : Press the down button when the menu is not displayed

5. UP (Auto color) : Press the up button when the menu is not displayed

IV. APPENDIX

Specification

	FUNCTION	15 " (LM150×08)	15 " (LC150×02)	17 " (LM170E01)
LCD Panel	Type	15.0 " XGA TFT LCD	15.0 " XGA TFT LCD	17 " SXGA TFT LCD
	Display Area	304.128×228.096mm	304.128×228.096mm	337.920×270.336mm
	Display Color	16,777,216	16,777,216	16,777,216
	Pixel Pitch	0.297×0.297mm	0.297×0.297mm	0.264×0.264mm
	Max. Resolution	1024×768	1024×768	1280×1024
	Interface		LVDS	
	Viewing Angle	Left / Right : -60° / +60°	Left / Right : -85° / +85°	-80° / +80°
		Up / Down : -45° / +45°	Up / Down : -85° / +85°	-80° / +80°
	Contrast Radio		400 : 1	450 : 1
	Brightness	250cd/㎡	450cd/㎡	250cd/㎡
	Horizontal Frequency		31 - 61 KHz	30 - 80 KHz
	Vertical Frequency		60 - 75Hz	56 - 75Hz
Input / Output	Video Input	Analog RGB(Sync : H/V Separate), Video, S-Video		Analog RGB(Sync : H/V Separate), Video, S-Video, TV
	Audio Input	VIDEO : AUDIO L/R		PC : STEREO, VIDEO : AUDIO L/R
TV Signal	Area			KOREA, USA, OTHER
	Antenna Input			75 ohm Coaxial Cable
	Tuning System			Programmible Frequency Synthexizer
	Color System			NTSC / PAL / SECAM
	Sound System			M, B/G, D/K, I
Regulation	EMI		CE, VCCI, FCC	
Others	Tilting Degree	Up / Down : +90°/-5°	Up / Down : +90°/-5°	Up / Down : +90°/-5°
	Swivel Angle	Non support	Non support	Non support
	Power		Stand -by : 3W / Operation : 40W	
	Speaker Output		2 Ways Stereo / 3W×3W	
	Plug & Play	DDC 1/2B	DDC 1/2B	DDC 1/2B
	Weight	NET 5.5Kg / Gross 6Kg	NET 6.2Kg / Gross 6.8Kg	NET 6.1Kg / Gross 7.4Kg
	Power Supply		DC 12V, 3.33A, 50/60Hz	DC 12V, 5.0A, 50/60Hz
	Dimension (mm)	364(H) * 340(W) * 199(D)		420(H) * 410(W) * 23(D)
			364(H) * 340(W) * 59(D)-Wall mount	

* Specification can be changed without prior notice.

IV. APPENDIX

Mode

Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
DOS MODE	640×400 (NEC)	24.8	56.4
	640×400	31.5	70
	720×400	31.5	70
VGA	640×480	31.5	60
	640×480	37.9	72
	640×480	37.5	75
SVGA	800×600	37.9	60
	800×600	48.1	72
	800×600	46.9	75
XGA	1024×768	48.4	60
	1024×768	56.5	70
	1024×768	60.0	75
SXGA	1280×1024	64.0	60
	1280×1024	80.0	75

FCC NOTICE

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES.
OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITION:
(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND
(2) THIS DEVICE MUST ACCEPT ANY INTERERENCE RECEIVED,
INCLUDING INTERFERENCE THAT MAY CAUSE UNDERSIRED
OPERATION.

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 communication. 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 or 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 difference from that to which
  the receiver is connected.

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

NOTE : 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.

MEMO