HIKARI INNOVISION CO.,LTD.

USER GUIDE

TFT-LCD MONITOR

E17XE

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1) Main Features

(1) Main Features

Thank you for purchasing our high resolution TFT LCD monitor. We recommend that you read through the user's manual in order to fully understand the functions before using this product. It is also recommended to safely store the user's manual for future use. It will be of help if there are questions during use or it does not function properly.

FCC RF INTERFERENCE STATEMENT

NOTE :

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.

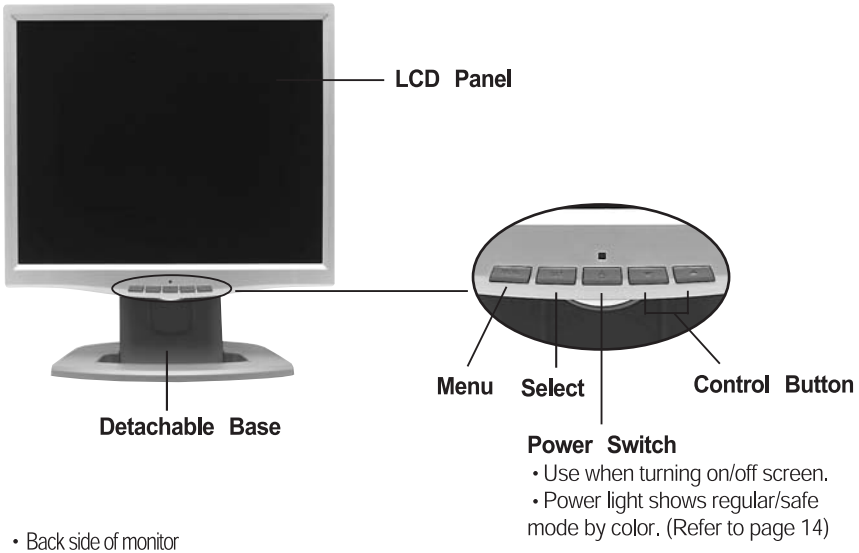
If this equipment does cause harmful interference to radio or television reception which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio, TV technical for help.
- Only shielded interface cable should be used.

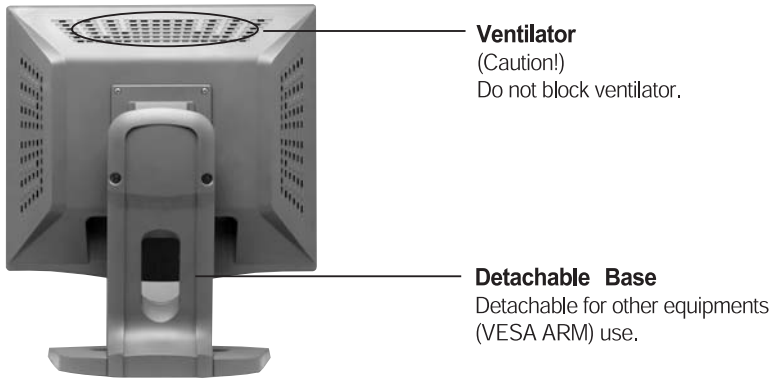
Finally, any changes or modifications to the equipment by the user not expressly approved by the grantee or manufacturer could void the users authority to operate such equipment,

(2) Name of Parts

• Front side of monitor



• Back side of monitor



2) Installing

(1) Components

* After removing the packaging of the LCD monitor, check for the following components in the box.
* Basic Components
• 17" LCD Monitor • Power Cord • User's Manual (Warranty)
• Signal Cable

(2) Installing Product

Precautions when installing or safekeeping this product
- Possibility of damage to the product or harming people if installed on wall or high above ground. Install on safe ground.
- Do not cover product or install where it is not well ventilated when installing; doing so may cause fire.
- Do not put anything containing water, medicine, or heavy objects on the product. Be aware small metal do not fall in the product; doing so may cause fire.
- Do not put monitor in damp, wet, or dusty places; doing so may create fire or danger of electric shock.
- Do not put candles, cigarettes, on the monitor or install it near any source of heat; doing so may cause fire.
1. Desk or table installation
- Place monitor on a desk or table that has a solid surface.

(3) Safety Precautions

Caution
Risk of electric shock. Do not open.
Warning: Hight voltage in the product. To reduce any risk of electric shock, do not remove cover.
Since there is no user-serviceable parts inside in case of emergency, refer servicing to qualified service personnel. Parts that have the following signs have high voltage and is at risk of electric shock. Pay special attention when fixing product.

Warning:

- To reduce any risk of fire or electric shock, do not expose monitor to water, rain or moisture.
- Do not tap or rub LCD Panel. LCD Panel can be damaged when in contact with hard object.

Caution:

- Do not alter or change structure of monitor or circuits; doing so can cause damage and may create the danger of electric shock or fire.
Damages caused by altering or changing structure of monitor or circuits will not be guaranteed.
- Do not drop or give sudden shock to the monitor. It may cause damages.
- Do not use damaged power code and plug or loose-fitting outlets; doing so may create the danger of electric shock or fire.
- Do not forcefully pull power cord or touch power plug with wet hands; doing so may create the danger of electric shock or fire.
- Do not bend power cord or place heavy objects on it; doing so may create the danger of electric shock or fire.
- Connect power cord with outlet that has ground connection and terminal plate; not doing so may create the danger of electric shock.
- Do not connect various electronic products on one outlet; doing so may cause fire.
- Unplug power plug when it is lightning and thundering or is going to be left unused for an extended period of time. Getting struck by lightning may cause damage and create the danger of electric shock or fire.
- Wipe off dusk on the pin of the power plug and outlet; not doing so may create the danger of electric shock or fire.

Power:

Power is supplied only by alternating current (AC).
Do not supply direct current (DC) directly to the main body.

Connecting Power:

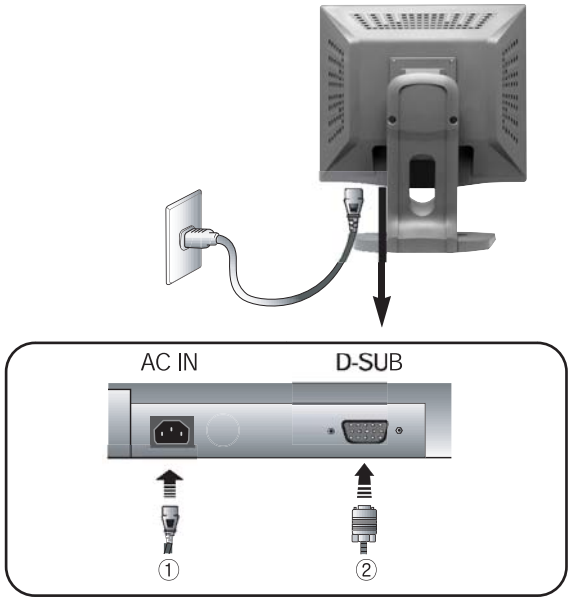
1. Insert AC power cord to power connector (AC IN) of the main body.
2. Insert AC power cord to the power outlet.

Product Maintenance

When product surface or LCD screen requires cleaning, unplug power cord and clean with a soft cloth by gently pressing. Do not use benzene, alcohol, solvent or other liquid or spray-type cleaners.
For LCD screens, dab a small amount of water so that it will not drip on a soft, dry cloth. Gently wipe from top to bottom or left to right.
(Refer to service centers or dealers for anti-static or cleaners that can be used.)

(4) Connecting Your Monitor

Connect to 110V or 220V capacity outlets. (Free Voltage)



① Connect the power cord included in the box to power connector (AC IN).
② Connect the signal cable to the monitor (D-SUB).
"No PC Signal" will appear if improperly connected to the monitor. Use the exclusive adaptor for Macintosh. (excluding G3 or above)

② **Manual Install**

- With the mouse pointer on the Windows desktop, select registration info by clicking the right button.

- Select "Setup" button, then select "Advanced registration Info".
- Select "Monitor" then press "Change" button.
- Press "Next" in the update master window.
- Select "After making driver list, select desired driver", then press "Next".
- Insert disk then select "In the disk" button.
- Set the driver or directory, then press "OK" button.(If you are unsure of the route location of the driver, press "Find".)
- When the "Select model" window appears, select your monitor model, then press "Next".
- When the window "Installation of selected driver completed" appears, press "Finish", then "Close", then "OK", and exit the display setting menu.

(5) Installing Monitor Driver

Once the monitor driver is installed, resolution and frequency is set to accomodate the monitor; providing a clear screen. To purchase a separate driver, visit our homepage and download.

·Internet: http://www.equilium.co.kr

<Windows Monitor Installing Program>

This file explains how to install the monitor driver on Windows. Follow the instructions in order to install.

Caution: Check the type of monitor before installing driver. (if the driver is not properly installed, the frequency may be increased or decreased, possibly deactivating resolution)

- **WINDOWS**

① **Auto Install**

Insert install diskette in the computer.
Run "install.exe". (using Search programs)
Select the model name of your monitor.
Press "OK" button.

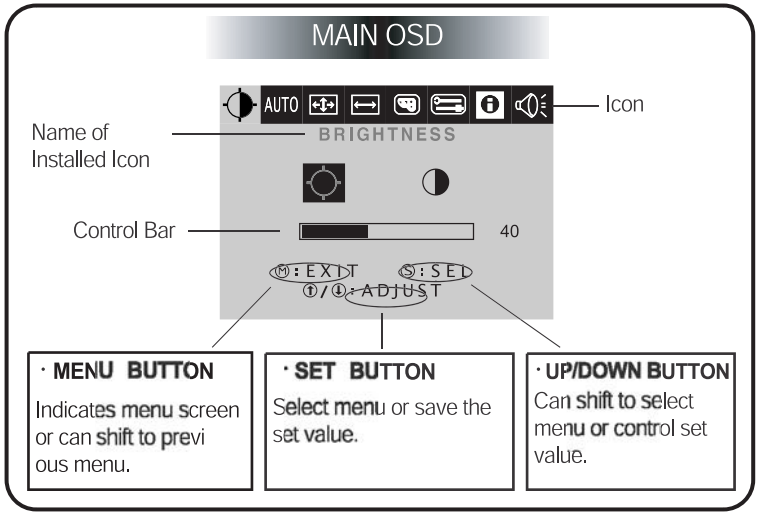
When the window "insert disk" appears, press the "OK" button, then select the route of the install diskette in the file location slot. (ex-A:\)
(Can be automatically installed without "insert disk" window appearing.
When a window that indicates that the setup is completed, press "OK" button.

When the window "Now, ready to start Monitor optimization" appears, press "OK button.

When the window "Monitor optimization is completed" appears, press "Yes" button.

3) Screen Control

(1) Basic Screen Control



① To Adjust Brightness of Screen

MENU BRIGHTNESS / CONTRAST → SET → ▼▲ ADJUST

· You can adjust the brightness of the screen.

※ HOT KEY: ▲ BUTTON → BRIGHTNESS → ▼▲ ADJUST

· If you press ▲button without pressing the menu button, brightness control mode will appear. You can control the brightness using ▼▲ button. If you press set button, it changes to contrast control mode.

② To Adjust Contrast of Screen

MENU BRIGHTNESS / CONTRAST → SET → SET

→ ▼▲ ADJUST

※ HOT KEY: ▼ BUTTON → CONTRAST → ▼▲ ADJUST

· If you press ▼ button without pressing the menu button, contrast control mode will appear. You can adjust the contrast using ▼▲ button. If you press set but-ton, it changes to brightness control mode.

(2) Screen Control

① Auto adjust

MENU AUTO ADJUST/AUTO LEVEL → SET

→ ▼▲ ADJUST → ADJUST ADJUST → SET

· Screen is adjusted to optimal state.

※ HOT KEY: SET BUTTON → → SET

· If you press set button without pressing the menu button, auto control mode will appear. You can adjust the screen automatically using the set button.

② Auto Adjust Screen Color

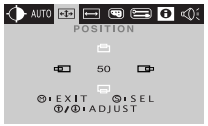
MENU

AUTO ADJUST/AUTO LEVEL→ SET

→▼▲ ADJUST → AUTO LEVEL → SET

· Color of the screen is automatically adjusted.

③ To Adjust Vertical Position

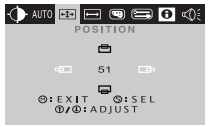
MENU 

POSITION → SET

→ ▼▲ ADJUST

· You can adjust the vertical position of the screen.

④ To Adjust Horizontal Position

MENU 

POSITION→ SET→SET

→▼▲ADJUST

· You can adjust the horizontal position of the screen.

If you set press button, it changes to vertical position control mode.

⑤ To Adjust Width

MENU

CLOCK / PHASE → SET(CLOCK) →▼▲ADJUST

· You can adjust the width of the screen.

⑥ To Remove Noise

MENU

CLOCK / PHASE → SET(PHASE) → ▼▲ ADJUST

· You can remove noise displayed on the screen.
· Use when noise appears on screen even after auto control.

⑦ To Adjust Screen Color

MENU

COLOR→ SET → USER/9300/6500 ▼▲ ADJUST

→ SET(USER)

SET(RED/GREEN/BLUE/GAMMA)

→ ▼▲ ADJUST

· You can select the color (9300K/6500K) of the screen. You can adjust the color when user mode is selected.

(3) Other Functions

① To View Menu in Different Language.

MENU

MISCELLANEOUS → SET → ▼▲ ADJUST

→ LANGUAGE→ SET → ▼▲ ADJUST

· You can use 5 different languages for the menu screen.
(English, Greman, French, Spanish, Italian)

② To Initialize Screen Control

MENU

MISCELLANEOUS →SET→ ▼▲ ADJUST

→ RECALL → ▼▲ SET

• The value the user seleted is deleted and initialized.

③ To Control Duration of Menu Screen Appearance

MENU

MISCELLANEOUS → SET→ ▼▲ ADJUST

→ OSD → SET → ▼▲ ADJUST → OSD TIME → SET → ▼▲ ADJUST

• Menu screen will automatically disappear at the selected time.
(You can select the time from 5 - 30 seconds by a unit of 1 second)

④ To Adjust Vertical Position of Menu Screen

MENU

MISCELLANEOUS → SET→ ▼▲ ADJUST→ OSD

→ SET →▼▲ ADJUST → OSD POSITION → SET →

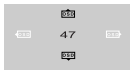
→▼▲ ADJUST

• You can adjust the vertical position of the menu screen.

⑤ To Adjust Horizontal Position of Menu Screen

MENU

MISCELLANEOUS → SET→ ▼▲ ADJUST

→ OSD → SET → ▼▲ ADJUST → OSD POSITION → SET → SET → 

→▼▲ ADJUST

• You can adjust the horizontal position of the menu screen.
If you press set button, it changes to vertical position mode of menu screen.

⑥ To Adjust Transparency of Menu Screen

MENU

MISCELLANEOUS → SET→ ▼▲ ADJUST

→ OSD → ▼▲ ADJUST → OSD HALF TONE → SET → ▼▲ ADJUST

• You can adjust the transparency of the menu screen.

⑦ To Confirm Monitor Information

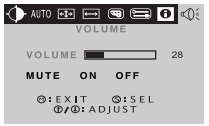
MENU

INFORMATION

• You can find the information on the current resolution and horizontal/vertical frequency.

(4) AUDIO Function (option)

① To Adjust Volume

MENU 

VOLUME→ SET(VOLUME)→ ▼▲ ADJUST

• You can adjust the volume.

※ HOT KEY: ▼ BUTTON →

→▼▲ ADJUST

② To Adjust Mute

MENU

VOLUME→ SET(MUTE)→ ▼▲ ADJUST

• You can adjust the mute.
If you set press button, it changes to volume control mode.

※ HOT KEY: ▼ BUTTON → SET→

→ ▼▲ ADJUST

5) Power Saving Mode

This monitor has a power saving function. If it is not used for certain time, the screen will turn off temporarily and reduce the energy consumption. You are able to know the 'status' by looking at the color of the power button. The screen will turn on by moving the mouse or pressing any key on the keyboard since the power is not off.
However, it will function when it is connected to a computer with a power saving function.

	Normal Mode	Power Saving Mode		
H-Sync	Active	Inactive	Active	Inactive
V-Sync	Active	Active	Inactive	Inactive
Video	Active	Blanked	Blanked	Blanked
LED Color	Green	Orange		
Power Consumption	35W	≤ 2W		

6) Othes

(1) Standard Signal Time Chart

If the signals conveyed from the computer match the following standard signals, the screen is automatically adjusted. Oppositely, if the signals do not match, the screen may not appear or only the power light may activate. Therefore, it is important to refer to the Video Card Manual and set up as shown below.

	Resolution	Frequency			Polarity	
		Horizontal (kHz)	Vertical (Hz)	Clock Frequency (MHz)	Horizontal	Vertical
1	640× 350	31.5	70.0	25.175	+	-
2	640× 480	31.5	59.9	25.175	-	-
3	640× 480	37.9	72.8	31.500	-	-
4	640× 480	37.5	75.0	31.500	-	-
5	720× 400	31.5	70.1	28.322	-	+
6	800× 600	35.2	56.3	36.000	+	+
7	800× 600	37.9	60.3	40.000	+	+
8	800× 600	48.1	72.2	50.000	+	+
9	800× 600	46.9	75.0	49.500	+	+
10	1024× 768	48.4	60.0	65.000	-	-
11	1024× 768	56.5	70.1	75.000	-	-
12	1024× 768	60.0	75.0	78.750	+	+
13	1152× 864	67.5	75.0	108.000	+	+
14	1280× 1024	64.0	60.0	108.000	+	+
15	1280× 1024	79.9	75.0	135.000	+	+

(2) Trouble Shooting

When problems occur, refer to the following. If problems continue, please contact our customer support centers.

Power is off	• Check whether the power cord is properly connected, then connect again. (Refer to pg5)
"No PC Signal" message appears.	• Check if the signal cable is properly connected to the monitor or the computer video card, then connect again. (Refer to pg5)
"Non Support Mode or Fail Safe Mode" appears.	• Set the resolution and frequency compatible to the monitor. (Refer to pg15)
'Out Of Range' appears.	
Screen looks as if it is melting	• Check the monitor and the signal cable of the computer, then connect again.
Screen is shaking.	• Check if the resolution and frequency of the computer video card is set to accomodate the monitor, then reset the screen according to present mode of the monitor menu and the standard signal time table. (Refer to pg15) • Execute auto control. (Refer to pg11)
Shadow appears on screen.	
Screen is too bright..	• Adjust the brightness or contrast of the screen. (Refer to pg8-9)
Color of screen is odd.	• Execute auto level function. (Refer to pg11)
Color white does not appear as white.	• Go to OSD color control mode, then adjust user color. (Refer to pg11)
Screen is not in position.	• Recontrol image setting. (Refer to pg10) • Execute auto control. (Refer to pg11)
Power light is orange.	• Check if the computer is on power saving mode. Press any key or move the mouse, then screen will reappear.
Screen is blurr.	• Execute auto control. (Refer pg 11)

7) Specifications

Category		7.0"
LCD (Panel)	Size	17.0 inch
	Display Size(mm)	337.92(H) X 270.336(V)
	Pixel Pitch(mm)	0.264(H) X 0.264(V)
	Type	a-si TFT LCD (liquid crystal display)
PC	Max/Recommended Resolution	1280 X 1024 @ 75Hz / 1280 X 1024 @ 60Hz
	Horizontal Frequency	30 ~80kHz (Automatic)
	Vertical Frequency	55 ~ 75Hz (Automatic)
	Display Color	16.7M
	Input Signal	Analog 0.714Vp-p Positive (75½)
Power/Voltage	Voltage Use	AC 100~240V, 50Hz/60Hz, 1.0 A
Energy Consumption	Regular Mode	Maximum 35W
	Power Saving Mode	Below 2W
Operating Conditions	Storage Temperature	-20° C ~ 60° C
	Operating Humidity	20% ~ 85%
	Operating Temperature	0° C ~ 40° C
Size	Excluding Base	65(Depth) X 370(Width) X 330(Height)
	Including Base	169(Depth) X 370(Width) X 419(Height)
Weight	Net	5.0 kg
	Gross	6.3 kg

Above specifications may be changed without prior notice for quality improvement.