

USER'S GUIDE

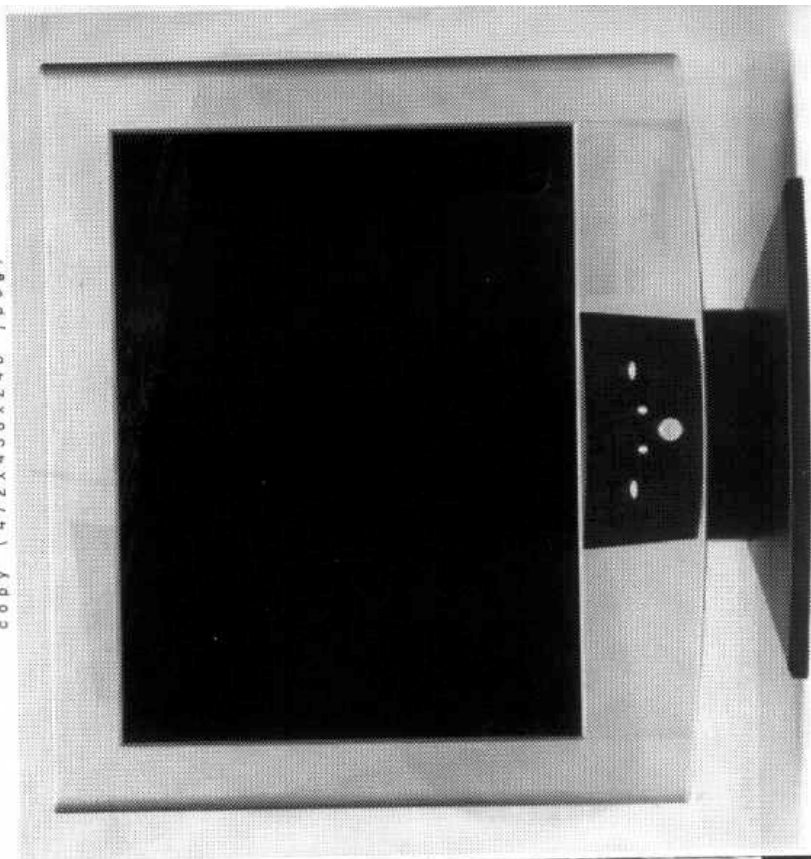
TFT LCD MONITOR

15"

Another global-class technology TFT LCD MONITOR

MODEL No : E151XA

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94121110002 REV.01

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FCC Compliance 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 of a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Notice 1 :

The Changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Notice 2 :

Shielded interface cables, if any, must be used in order to comply with the emission limits.

DOC CLASS B NOTICE

This digital apparatus does not exceed Class limits for radio noise Emission for a digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications.

MAIN FEATURES

Thank you for purchasing our high resolution TFT LCD Monitor.

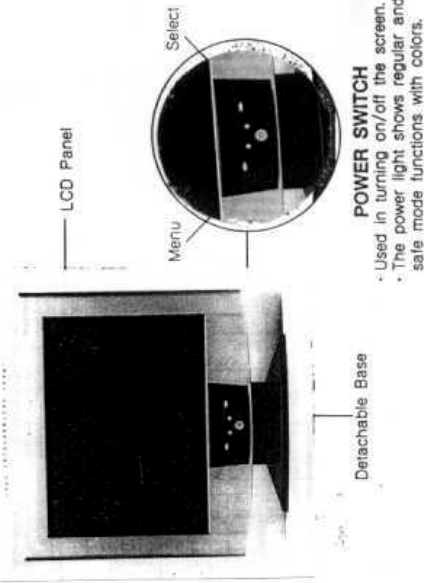
We recommend that you thoroughly read through this user's

Guide before using the product. It is also recommended to

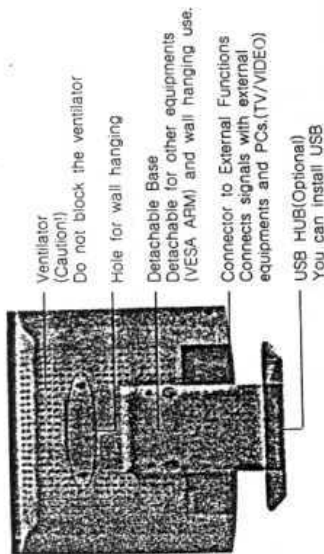
Safely store the guide in times of immediate need in the

course of using the product.

FRONT OF MONITOR



○ BACK OF MONITOR



○ FUNCTIONS

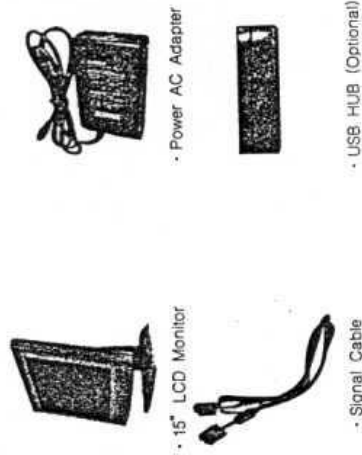
Although regular monitors for PCs use CDT as a medium for display, the TFT LCD monitor is a Flat Panel Display based on digital technology, and was Originally used only for laptops PCs. Now it is used for desktops and laptops alike, opening a world of conveniences and quality to those ardent PC users.

The following functions are provided in our products.

1. Convenient and easy to handle Control Button.
2. From PC function to TV/VIDEO/AUDIO functions. (TV/VIDEO are Optional)
3. A slim and space reducing monitor
4. Monitor transferable for wall hanging.
5. Industrial robot and VESA installable.
6. Liberal angle control($+30^{\circ}\text{C} \sim -5^{\circ}\text{C}$)
7. Low energy consumption(refer to pg 12).
8. Scarcely influences surrounding objects, with no harmful electronic waves, noise, heat or magnetic activities.

○ COMPONENTS

After discarding the package and wrapping of the LCD monitor, check for the following components in the box.

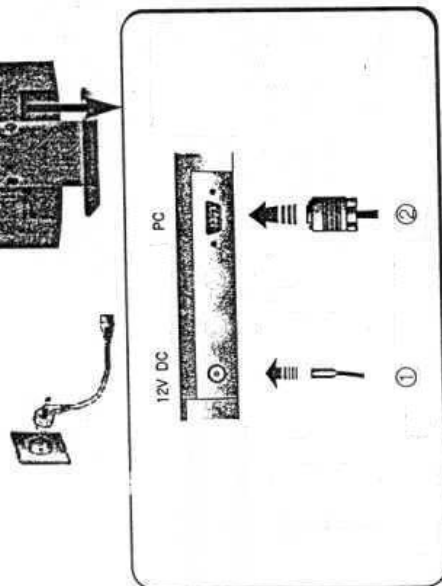


○ PRECAUTIONS IN INSTALLING

- Install on safe ground. There's possibility of damage of the product or harming people.
- Always cover the product or keep in a well ventilated place. There is danger of fire and also for safe maintenance.
- Do not put anything containing water, medicine, small metal material, or heavy objects on the product. Danger of fire, electrocution, and damage to the product.
- Do not expose the product to direct sun light. The screen will not maintain clarity and may cause damage to the eye.
- Do not install in damp, dusty, or wet places. Danger of fire and electrocution.
- Do not put candles, cigarettes, or other objects with excessive heat. Danger of fire.
- Do not install any external connections, only connecting cords and adapter included in the box. Damage and fire may occur.

○ CONNECTING TO YOUR PC

- Connect to 220V or 110V capacity outlets.



- ① Connect to 12V DC with the adapter included in the box to 110 or 220 V outlet.
- ② Connect signal cable to PC. ("No signal" will appear on the monitor if improperly connected. In case of using Macintosh, use the exclusive adapter.)

○ INSTALLING MONITOR DRIVER

Once the monitor driver is installed, resolution and frequency is set to accommodate the monitor, therefore providing a clear screen. In order to purchase a separate driver, refer to our homepage.

<Windows Monitor Installing Program>

This file explains how to install the monitor driver on Windows. Follow the following procedures.

Caution: Check the type of the monitor before you install the driver. (If the driver is improperly installed, the frequency may be increased or decreased, possibly deactivating resolution)

1. WINDOWS 95/98/2000



Put in the install diskette.

Run "Install.exe" (using Search programs)

Select the model name of your monitor. Select "Ok."

When the window "Put in disk" appears on the screen, press on the ok button and select the route of the install diskette in the fill location slot (ex: A: /) (it could be automatically installed without the "put in disk" window) When a window that indicates that SETUP has been completed, press the "Ok" button.

When the window "Restart the system?" press "Yes" for accurate setting.

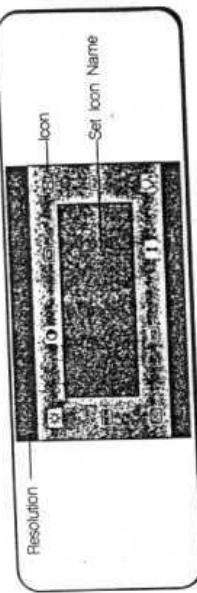
BASIC SCREEN CONTROL

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

- Select "monitor" and press the "Change" button.
- Press "next" in the update master window.
- After making a driver list, select the desired driver and press "next".
- After inserting the diskette, set the directory and press the ok button.
- (If you are not sure of the route location of the driver, press "find".)
- When the "select model" window appears, select your monitor model and press "next".
- When the window "completed installation of selected driver" press "finish", "close", "ok" and exit the display setting menu.

BASIC SCREEN CONTROL

MAIN OSD



• TO BRIGHTEN THE SCREEN

MENU → BRIGHT → CONTROL WITH(+, -)
• You can control the brightness of the screen.

• TO CLARIFY THE SCREEN

MENU → CONTRAST → CONTROL WITH(+, -)
• You can control the contrast of the images or letters on the screen.

• CONTROLLING SCREEN COLOR

MENU → SELECT **RGB** → SELECT COLOR TEMPERATURE WITH(+, -)
You can select screen color temperature (6500K-9300K) and control color in selecting USER mode.
User Color control
select user mode USER Control With (+, -)
① Select in Controlling Red Gain
② Select in Controlling Red Gain
③ Select in Controlling Red Gain

• TO EXIT THE SCREEN [EXIT] →CONTROL WITH(+, -)

MENU→EXIT [EXIT] →CONTROL WITH(+, -)

• You can control the exit of the screen.

• SCREEN CONTROL

• VIEWING MONITOR INFO [INFO]

MENU→INFORMATION [INFO] →CONTROL WITH(+, -)

• You can view vertical/horizontal frequency into and resolution

• CONTROLLING CLOCK [CLOCK]

MENU→SELECT CLOCK [CLOCK] → CONTROL WITH(+, -)

① Select in Controlling Clock

② Select in Controlling Clock

• CONTROLLING POSITION [POSITION]

MENU→SELECT POSITION [POSITION] →CONTROL WITH(+, -)

① Select in Controlling H-Position

② Select in Controlling V-Position

• CONTROLLING AUDIO [AUDIO]

MENU→SELECT AUDIO [AUDIO] →SELECT COLOR TEMPERATURE WITH(+, -)

① SELECT [VOL] in control Volume

② SELECT [BAL] in control Balance

③ SELECT [TRB] in control Treble

④ SELECT [BKS] in control Bass

⑤ SELECT [MUTE] in control Mute On, Off

• CONTROLLING OTHER FUNCTIONS

• VIEWING THE MENU LANGUAGE IN DIFFERENT LANGUAGES [LANGUAGE]

MENU→SELECT LANGUAGE [LANGUAGE] →TEMPERATURN WITH(+, -)

• You can select language temperature.

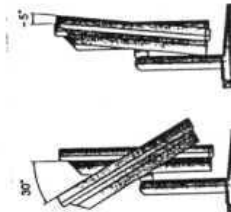
• CONTROLLING OSD [OSD]

MENU→SELECT OSD [OSD] →control with(+, -)

① Select in controlling OSD Time

② Select in controlling OSD Position

• CONTROLLING CONTROL ANGLE [ANGLE]



VIDEO FUNCTION SETTING (OPTION)

• SELECT INPUT VIDEO **[VIDEO]**

MENU→SELECT VIDEO **[VIDEO]** →CONTROL WITH(+, -)

• CONTROLLING CHANNEL **[CH]**

MENU→SELECT CHANNEL **[CH]** →CONTROL WITH(+, -)

• CONTROLLING AUDIO **[AUDIO]**

MENU→SELECT AUDIO **[AUDIO]** →SELECT COLOR TEMPERATURE WITH(+, -)

- ① SELECT **[BAL]** in control Balance
- ② SELECT **[TRB]** in control Treble
- ③ SELECT **[BASS]** in control Bass

• CONTROL AUDIO MUTE **[MUTE]**

MENU→SELECT CHANNEL **[MUTE]** →CONTROL WITH(+, -)

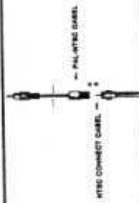
TV FUNCTION SETTING (OPTION)

• SELECT INPUT TV **[TV]**

MENU→SELECT TV **[TV]** →CONTROL WITH(+, -)

- ① SELECT **[SET]** in control Setting
- ② SELECT **[TUNE]** in control Auto search
- ③ SELECT **[TUNE]** in control Auto tuning

• TV SETTING



US, Korea and other regions with NTSC Broadcasting System must connect PAL-NTSC Connector attached to the monitor.(OPTION)
NTSC Connector Antenna Jack

POWER SAVING MODE(S)

If you computer system features a display power management function, the Monitor's enter into the power saving modes as follows.

When it is used with a computer system equipped with DPMS(VEESA) this Monitor provides an EnergyStar compliant function. If your computer does not feature display power management, please source an optional DPMS software program.

Power saving modes greatly reduce power consumption when the computer is temporarily not in use. Simply press any key or mouse button to return the Monitor display to normal operation.

	Normal	stand-by	suspend	Power Off
H-Sync	Active	Inactive	Active	Inactive
V-Sync	Active	ACTIVE	Inactive	Inactive
Video	Green	Blanked	Blanked	Blanked
LED Color	Green	Orange/Green Blinking(1 sec)	Orange/Green Blinking(1 sec)	Orange
Power Consumption	30 watts	3 watts	3 watts	3 watts

○ STANDARD SIGNAL TIMING CHART

If the signals conveyed from the computer match the following standard signals, the screen automatically controls the signals. Conversely, if the signals do not match, the screen will not appear or only the power light would activate. Therefore it is important that you first set as the following with reference to the Video Card Guide.

	Resolution	Frequency		Click Frequency(Mb)		Polarity	
		Horizontal(KHz)	Vertical(Hz)	H	V	H	V
1	640 × 350	31.5	70.0	25.2	+	-	-
2	720 × 400	31.5	70.1	28.3	-	+	+
3	640 × 480M	31.5	59.9	25.2	-	-	-
4	640 × 480	31.5	59.9	25.2	-	-	-
5	640 × 480M	35.0	66.7	30.2	-	-	-
6	640 × 480	37.9	72.8	31.5	-	-	-
7	640 × 480	37.5	75.0	31.5	-	-	-
8	800 × 600	35.2	56.3	36.0	+	+	+
9	800 × 600	37.9	60.3	40.0	+	+	+
10	800 × 600	48.1	72.2	50.0	+	+	+
11	800 × 600	46.9	75.0	49.5	+	+	+
12	832 × 624M	49.7	74.5	57.3	-	-	-
13	1024 × 768	48.4	60.0	65.0	-	-	-
14	1024 × 768M	48.8	60.0	64.0	-	-	-
15	1024 × 768	56.5	70.1	75.0	-	-	-
16	1024 × 768M	60.2	74.9	80.0	-	-	-
17	1024 × 768	60.0	75.0	78.8	+	+	+

■ M : Mac Mode

○ PRECAUTION

The below precautions should be carefully followed for the effective function of the product and safety of users.



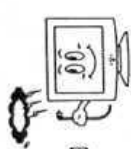
Do not use damaged plugs or worn out outlets. (Danger of electrocution)



Do not expose the product to severe impacts. (This could occur damage)



Do not try to disassemble, repair, renovate the product without expert assistance. (Contact the service center for parts needing repair)



In weather conditions of thunder and/or lightning, or when you will not be using the product for a long period of time, leave the plug out of the outlet. (Danger of electrocution)



Do not try to bend the cord or put it under heavy objects. (Danger of electrocution, fire)



Do not leave the product in damp or wet places as there is danger when the product is exposed to water or metal. (danger of electrocution)

Other Precautions In cleaning the product take out the plug from the outlet, wipe with a soft and clean cloth then with water. never use benzene, alcohol or other cleaners. (Contact the service center or a store near you for static controllers and cleaners. The LCD polarizing plate may peel off or the product may decolorize, dissolve, or crack.

○ SPECIFICATIONS

Category		Specification
LCD (panel)	Screen Size	15 inch (Diagonal Length)
	Visible Screen Size	304.1(H) x 228.19(V) (15.0 inch diagonal)
	Pixel Range	0.297(H) x 0.297(V)
	Type	a-si TFT-LCD(Liquid Crystal Display)
Sync	Visual Angle	Upper 70° / Lower 70° / Upper 55° / Lower 60°
	Horizontal Frequency	30 ~ 60 KHz (Auto Set)
	Vertical Frequency	56 ~ 75 Hz (Auto Set)
	Displayable Color	16.7M Color
Color Display	Video Signal	ANALOG 0.7Vpp POSITIVE (75 Ω)
Input Signal	Video Signal	NTSC/PAL/SECAM
TV/VIDEO (optional)	Audio Signal	Mono / Stereo
Sync Signal	Video Type	CVBS/VHS/COMPOSITE VIDEO
	Separate Sync Signal	TTL LEVEL POSITIVE OR NEGATIVE
	Composite Sync Signal	TTL LEVEL POSITIVE OR NEGATIVE
	Green Video + Composite	Composite sync/Vpp Negative (Video 0.7Vpp positive)
Power/Voltage Energy Consumption	Voltage Use	Flow 100-240V/50Hz/50Hz DC 12V/3A
	Regular Energy Consumption	Maximum 30W
	Stand Mode Consumption	Under 3W
	Temperature	-20 °C ~ 40 °C
Movement Condition Size	Humidity	10% ~ 95%
	Excluding BASE	380 x 58 x 383.5
	Including BASE	380 x 183 x 383.5
	Net	5 Kg (11 lbs)
Weight	Gross	7 Kg (15.4 lbs)

The above specifications can be changed without prior notice for quality improvement.