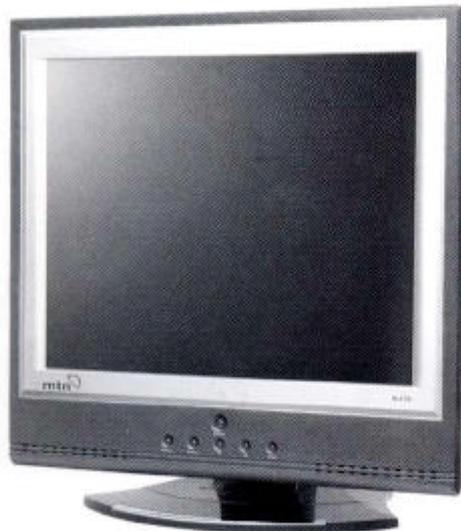


17" TFT LCD  
COLOR MONITOR

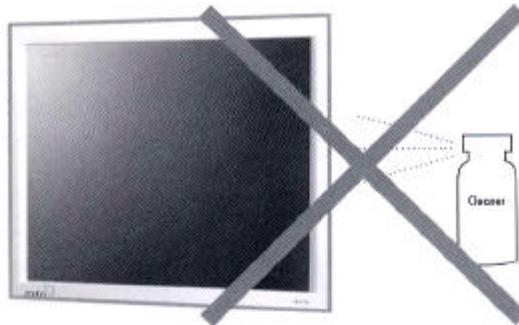


## **USER GUIDE**

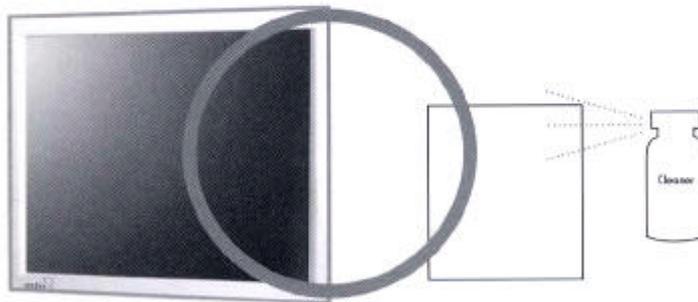
**TFT-LCD COLOR MONITOR  
MODEL M-17X**

To use your LCD monitor clean for a long time, please clean the monitor using the appropriate methods.

1. Please do not spray detergent directly on your LCD monitor.



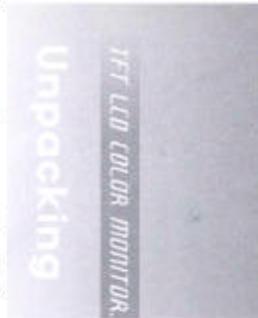
2. Use a soft cloth lightly dampened with water or recommended detergent.



When you use such cleaning materials as alcohol, chemicals, benzene, thinner, and cleaner, it can cause discoloration, crack, and peeling of coating on the monitor. Use the recommended detergent only.

Thank you for purchasing our flat panel monitor.  
Please read through this user guide before using the monitor in order to use the monitor conveniently. After reading, please retain this user guide for future reference.

- 1 -

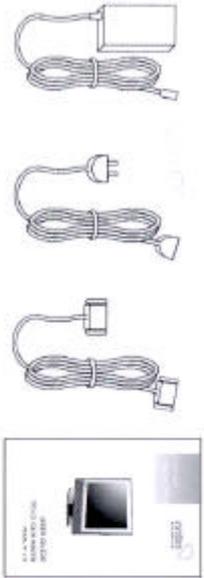


Please make sure the following items are included with your monitor. If any items are missing, contact your sales representative.

**LCD Monitor**



Power Supply    Power Cord    RGB Cable    User Guide



**Section 1 Precautions.....4**

    1. Safety Precautions.....4

    2. Installation and Maintenance Precautions.....5

**Section 2 Introduction and Installation.....6**

    1. Monitor and Components.....6

    2. Installation (DVI, Audio Option).....7

    Section 3 Display Features.....8

**Section 4 Adjusting Your LCD Monitor.....9**

    1. User Controls.....9

    2. Digital Controls.....10

    3. On Screen Display Setting.....11

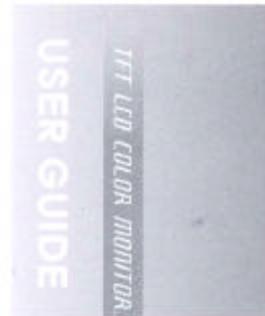
**Section 5 Video Mode Support.....15**

**Section 6 Specifications.....16**

**Section 7 Regulatory Information.....17**

**Section 8 Troubleshooting.....18**

**Warranty Statements.....19**



## Section 1 Precautions

### 1. Safety Precautions

- ① To avoid risk of electric shock or damage to the equipment, do not disassemble the monitor cabinet. (High voltage exists inside the monitor.)
- ② Unplug the monitor from the power outlet before cleaning. Do not spray detergent directly on your LCD monitor. Never use flammable materials, solvent based cleaners, or waxes.
- ③ Do not allow anything to rest on the power cord. Make sure the power cord is not located in a position where it is likely to be walked on or pinched by other equipment.
- ④ Unplug the power supply from the wall or unit if one of the following conditions exists. Refer all servicing to qualified service personnel. Unauthorized repairs may void the warranty.
  - Power cord or plug is damaged or frayed.
  - Liquid is spilled into the display or the display is exposed to rain or water.
  - The display has been dropped or the enclosure has been damaged.

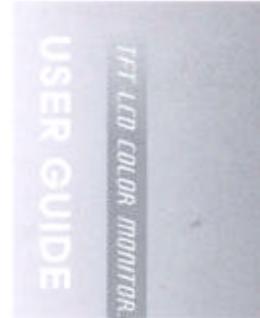
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### 2. Installation and Maintenance Precautions

- ① Conditions for monitor installation
  - The monitor should be installed on a flat and firm surface.
  - Install the unit in a well ventilated area. Avoid direct sunlight and keep it away from heaters and other sources of heat. (Do not use the monitor when temperature is below -10 °C or above 60 °C, and humidity is above 70%.)
- ② Regularly wipe the surface with a soft dry cloth.
- ③ Use only the standard power supply that its quality and safety are verified. (Adapter standards described in the equipment)
- ④ Unplug the LCD monitor when it is going to be left unused for an extended period of time.
- ⑤ Do not plug or unplug the signal cable from the back of the computer while the computer is in use. (It can cause a fatal defect of the circuit in the monitor.)

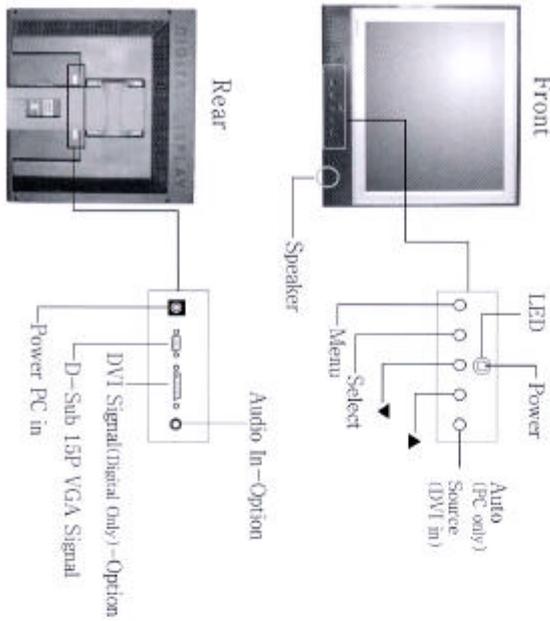
- 5 -



## Section 2 Introduction and Installation

### 1. Monitor and Components

#### ① Monitor



- 6 -



#### ② Components

TFT-LCD Color Monitor	-----	1 unit
15PIN D-SUB Cable	-----	1 unit
AC Power Cord	-----	1 unit
Speaker Cable (Stereo Jack) (Option)	-----	1 unit
AC/DC Power Supply (Adapter)	-----	1 unit

### 2. Installation (DVI, Audio-Option)

- ① Be sure the power switches of both the computer and the LCD monitor are off.
- ② Connect all cables,
  - Connect the power jack of AC/DC Adapter to the power port on the back of the monitor.
  - Connect the power cord to the AC/DC Adapter.
  - Plug the power cord for the monitor into a nearby outlet.
- ③ Video Connection
  - IBM: Connect the 15PIN D-Sub signal cable from the LCD monitor to the video output connector on a server/computer or console switch.
  - Macintosh: Connect the monitor to the Macintosh computer using the D-SUB connection cable. In the case of an old model Macintosh, you need to connect the monitor using a special Mac adapter.
- ④ Sound Connection (Option)
  - Connect the stereo jack on the back of the monitor to the sound jack of the computer with the cable included. The sound system built in the monitor is stereo sound. If you are using a computer installed 5.1 channel sound card, please use a separate speaker amplifier.
- ⑤ Turn on your computer and monitor. If your monitor displays an image and the power indicator glows green, installation is complete.

- 7 -



### Section 3 Display Features

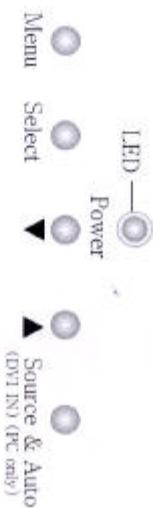
1. Adopts OCLI specification's Optical Glass that has multiple-layer AR coatings, which protects LCD panel, increases sharpness, and interrupts the electromagnetic waves. Even for a long use, this monitor will give less eyestrain and reduce fatigue due to free of electromagnetic waves. (Utility Model Patent 0304338, used only by our company.)
2. With a compact design, space utilization is maximized for desk, table and wall.
3. Using Display Data Channel (DDC) protocols, the system can automatically configure itself to use the optimum screen.
4. Offers On Screen Display (OSD) adjustments, which allows users to adjust the screen easily.
5. The built-in Auto Adjustment function will optimize the display settings such as resolution, position, and frequency for use with your computer.



### Section 4 Adjusting Your LCD Monitor

#### 1. User Controls

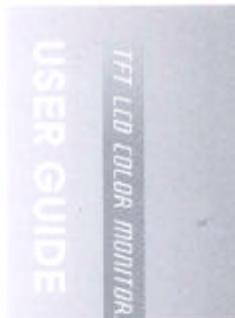
Your LCD monitor has an indicator and several controls. It allows you to easily adjust the characteristics of the image being displayed. The names and functions are as follows.



① Power Button  
 When the power button is pressed, the power indicator lights and the monitor turns into a normal operation.

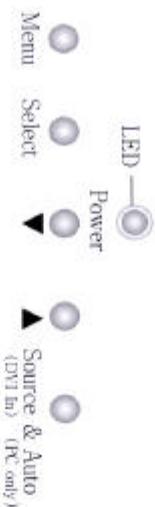
② Power Indicator (Green/Orange)  
 Power saving mode is built in this monitor. When the power cord is connected, the power indicator indicates the status of monitor operation as follows.

MODE	OPERATION	STANDBY	SAVING	OFF
Indicator	Green	Orange	Green/Orange	Black
Screen	Operation	Stop	Stop	Stop



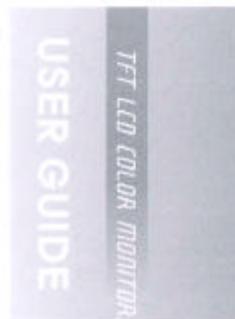
## 2. Digital Controls

The digital controls are on the front of the monitor. Use these buttons to adjust the screen to your preference. The monitor automatically saves any adjustments you have made.



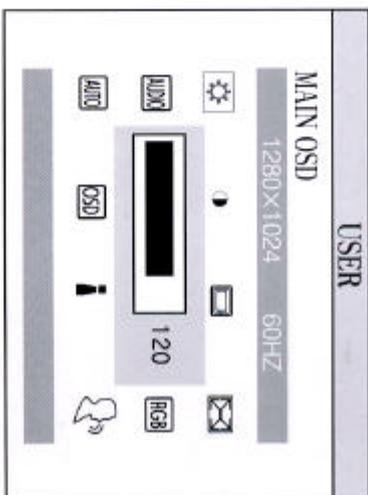
Buttons	Description
Power	Turns on and off the monitor power.
LED	Indicates the status of monitor operation. Green: Normal Orange blinks: Power saving mode or Disconnection of signal cable
Menu	Calls OSD menu.
Select	Selects the OSD menu.
▲	Increases the value of selected adjustment or select proper setting.
▼	Decreases the value of selected adjustment or select proper setting.
Source	Selects either Analog or Digital In/Out.
Auto	Activates the Auto adjustment function.

- 10 -



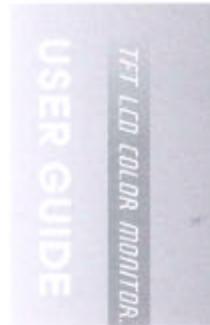
## 3. On Screen Display Setting

### 3.1 Basic OSD Screen



- Adjusts the Brightness.
- Adjusts the Contrast.
- Adjusts the position of the monitor's entire display.
- Horizontal Position: Moves the Display Area location (Left & Right).
- Vertical Position: Moves the Display Area location (Up & Down).
- Adjusts the Screen Noise.
- Adjusts the Screen Vertical Noise.
- Adjusts the Screen Horizontal Noise.

- 11 -



**[RGB]** Adjusts the Color Temperature.

**[R]** Adjusts Red Color.

**[G]** Adjusts Green Color.

**[B]** Adjusts Blue Color.

\* Color Temperature is set to 9300K as a factory default.

**[!]** Changes the OSD language.

**[OSD]** Shows frequency information.

**[1]** Adjusts time span and location of the OSD window.

**[←]** Sets time span before OSD menu disappearance.

**[→]** Moves the OSD widow location (Left & Right).

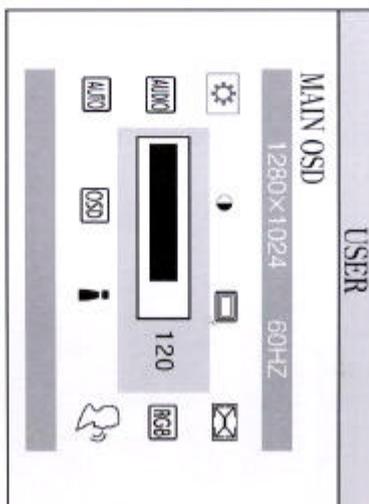
**[↑]** Moves the OSD widow location (Up & Down).

**[A]** Adjusts the Audio Volume.

**[AUTO]** Activates the Auto adjustment function.



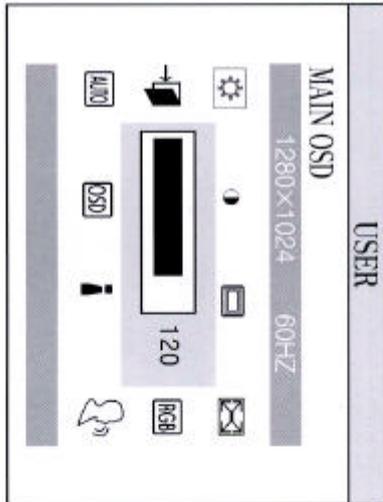
### 3.2 Button Control



- ① Press the Menu button, the OSD menu shows up as shown.
- ② Use these **▼** / **▲** buttons to highlight and adjust icon items.
- ③ Select the OSD menu with the Select button. Then adjust using these **▼** / **▲** buttons.
- ④ When adjustments are complete, press the Menu button twice to close the OSD menu window.



3.3 PC Only Basic OSD Screen



- ③ Press the Menu button, the OSD menu shows up as shown.
- ③ Use these ◀ / ▶ buttons to highlight and adjust icon items.
- ③ Select the OSD menu with the Select button. Then adjust using these ◀ / ▶ buttons.
- ④ When adjustments are complete, highlight the ( ) icon and press Select to close the OSD menu window.



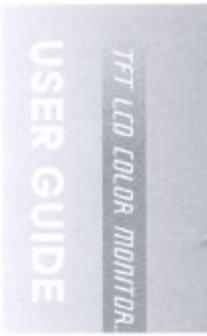
Section 5 Video Mode Support

M-17X LCD Monitor's maximum allowances are as follows.

\* The maximum pixel clock is 80MHz.  
 \* The horizontal frequency should be 30 – 80 KHz.

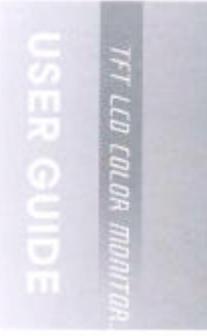
Video Mode Support (Factory default)

Mode	Resolution	Vertical Frequency	Horizontal Frequency	Pixel Clock	Remark
VGA	640×350	70Hz	31.47KHz	25.175MHz	VESA Standard
VGA	720×400	59.940Hz	31.469KHz	25.175MHz	IBM VGA 3H
VGA	640×480	60Hz	31.5KHz	25.175MHz	Industry Standard
VGA	640×480	72Hz	37.9KHz	31.500MHz	VESA Standard
VGA	640×480	75Hz	37.5KHz	31.500MHz	VESA Standard
SVGA	800×600	60Hz	37.9KHz	40.000MHz	VESA Guidelines
SVGA	800×600	72Hz	48.1KHz	50.000MHz	VESA Standard
SVGA	800×600	75Hz	46.9KHz	49.500MHz	VESA Standard
XGA	1024×768	60Hz	48.4KHz	65.000MHz	VESA Guidelines
XGA	1024×768	70Hz	56.5KHz	75.000MHz	VESA Standard
XGA	1024×768	75Hz	60KHz	78.750MHz	VESA Standard
SVGA	1280×1024	60Hz	64KHz	108.000MHz	VESA Standard
SVGA	1280×1024	75Hz	80KHz	135.000MHz	VESA Standard



**Section 6 Specifications** (Specifications may vary according to options)

Panel	LCD Type	Active matrix color TFT LCD
	Viewable Area	17" diagonal size
Frequency	Pixel Pitch	0.264mm
	Brightness	250 cd/m <sup>2</sup>
	Contrast Ratio	500 : 1
	Viewing Angle (H/V)	170/170
Response Speed	Response Speed	25ms
	Interface	Dual (Analog & Digital)
	Horizontal	30~80KHz
Vertical	Resolution	1280×1024@75Hz
	Color Supported	16.7M
Signal Input	Input Video Signal	Analog RGB, DVI(Optical)
	Input Connectors	15 Pin D-Sub, DVI(Optional)
Plug & Play	DDC	DDC 1/2B
	On Mode	48 Watts (Max.)
Power Consumption	DPMS Mode	< 5 Watts
	OSD Languages (English, German, French, Spanish, and Italian)	
Dimensions	Set With Stand(W×H×D)	415mm×435mm×150mm
	Packing(W×H×D)	465mm×490mm×225mm
Weight	Net	4.8kg
	Gross	6.5kg



**Section 7 Regulatory Information**

**FCC Rules**

- This equipment has been tested and found to comply with 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 can generate, use, and radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. There is no guarantee that interference will not occur in a particular installation.
- If this equipment does cause unacceptable interference to radio and television reception, checked by turning the equipment on and off, the user is encouraged to try one or more of the following procedures:
  - ▶ Relocate the receiving antenna
  - ▶ Preserve more distance between the equipment and receiver
  - ▶ Connect the equipment into an outlet on a circuit different from the outlet to which the receiver is connected
  - ▶ Consult an experienced radio/TV technician (Equipment) Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- 1. This equipment does not cause any harmful interference.
- 2. This equipment will endure any interference, including the ones that cause unexpected operation.

**MIC Rules**

Class B Digital Apparatus This equipment is a registered product of household electromagnetic compliance, and can be used in any environment, including residential areas.



Section 8 Troubleshooting

Symptom	Check List	Solutions
CRT monitor screen shows, but no LCD monitor screen does not show.	Check if a message s signal range; Please hows, "Beyond input adjust Vertical Frequency."	Reboot the system after connecting the LCD Monitor.
Power Indicator lights, but shows no images on the screen.	Check if the display is switched on or the power cord is properly connected. Check if the display is in power saving mode with no input signal.	Switch on or properly connect the power cord. Check the video signal cable connection.
Power Indicator lights, but shows no images on the screen.	Check if Brightness and Contrast is well adjusted.	Adjust Brightness and Contrast.
Do the position and size of display look strange?	Check if the position and size of display is well adjusted.	Perform the Auto adjustment on the OSD Menu.
After changing the video card, does it show only 16 colors?	Check if Windows' Color quality settings are okay.	Check the Settings of the Display Properties.
Is the text or graphics dull? Have Horizontal Noise?	Check if Phase is well adjusted.	Adjust Phase on the OSD Menu.

Warranty Statements

Customer Service

Our warranty policy on our product is as follows. Please consult the retailer, should you experience any disorder. (Call customer service center if retailer is not available.) Determination and/or elucidation will be processed within 7 days from the date of customer request. Customer service will be processed within 14 days from the date of elucidation.

1 Year Limited Warranty

Customer service is free of charge within 1 year (Limited Warranty) from the date of purchase.

Customer Service Cases	Warranty Items	Warranty expired
Major problem within 10 days from the date of purchase	Within warranty period	Exchange product or refund
Product under a normal use with 1 year from the date of purchase	Exchange product	Exchange product
3 trouble cases with the same problem	Free of charge	Charged
4 trouble cases with the same problem	Exchange product or refund	Charged
For temporary product (refused)	Exchange product or refund	Exchange product according to Exchange/Refund/Return
Technical problem (refused)	Exchange product or refund	Exchange/Refund/Return (Refund: Depreciation amount +10%)

Charged Service

1. Misunderstanding (Product is intact)  
 Service bills will be followed by customer services even if the product is not defective. Please consult User's Manual to avoid misunderstanding.

Charged from second customer request	- Breaker's carelessness upon installation - Cleaning inside the equipment - External antenna or cable service - Functional instruction or adjustment request	Charged from first customer request	- User's carelessness upon installation - Problems caused by incorrect use - Customer self installation
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(Above procedure is for repairable cases)

2. Faulty Usage

- User's carelessness or unauthorized repair and/or modification
- Handled by unauthorized technician
- Damages and/or disorders caused by relocation
- Disorders caused by unauthorized accessory utilities

3. Other Warranty Disclaimers

- Problem caused by natural disasters (fire, earthquake, flood, etc)
- Consumption components ended its lifecycle
- Components under specific warranty
- Manufacturer and/or distributor elucidates specific warranty
- One of more of the product component (box, product itself, user's manual, cables, warranty statements, etc) is missing

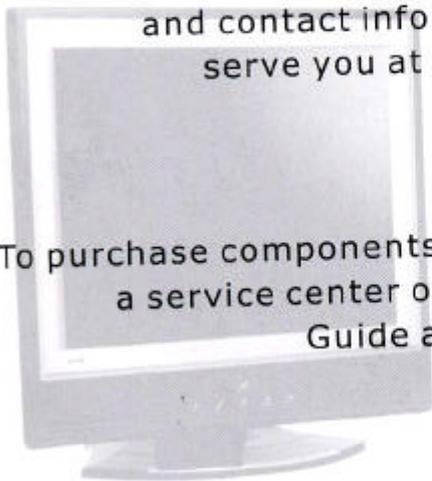
4. Cases that are not mentioned above will be handled by commercial practice. We will not allow any disadvantages toward customers as the cases will be processed under provider—customer deliberation.

**- While in use -**

If you have any troubles while in use, contact a service center or your dealer. Please check this User Guide before you contact.

**- Service -**

When you report your troubles, please inform us of the product's model name, trouble condition, and contact information. We would like to serve you at our earliest convenience.



**- Components -**

To purchase components and accessories, contact a service center or your dealer, except User Guide and Warranty Statements.



Customer Service: 82-33-735-1926  
Website: <http://www.mtni.co.kr>