LCD MONITOR

13.8 INCH TFT LCD MONITOR

OPERATING INSTRUCTIONS

◖ Preface

Safety Instructions

CAUTION: TO INSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING RULES REGARDING THE USE OF THIS UNIT.

1. To clean the LCD monitor screen, first, make sure the monitor is in the power off mode. Unplug the monitor from its power source before cleaning it. Do not spray liquid cleaners directly onto the unit. Stand away from the LCD monitor and spray cleaning solution onto a rag. Without applying excess pressure, clean the screen with the slightly dampened rag.

2. Do not place your LCD monitor near a window. Exposing the monitor to rain, water, moisture or sunlight can severely damage it.

3. Do not lay anything on top of the monitor-to-PC signal cord. And, make sure the cord is placed in an area where it will not be stepped on.

4. Do not apply pressure to the LCD screen. Excess pressure may cause permanant damage to the display.

5. Do not remove the cover or attempt to service this unit by yourself. You may void your warranty. Servicing of any nature should be performed only by an authorized technician.

6. Safe storage of the LCD Monitor is in a range of minus 20 to plus 60 degrees celsius. Storing your LCD Monitor outside this range could result in permanent damage.

7. If any of the following occur, immediately unplug your monitor and call an authorized technician.

    *   The power, and monitor-to-PC signal cord is frayed or damaged.

    *   Liquid has been spilled into the monitor, or it has been exposed to rain.

    *   The monitor has been dropped or the case has been damaged.

FCC Compliance Statement

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 when the equipment is operated in a residential installation. This equipment generates, uses, and can radiate radio frequency energy. If it is not installed and used in accordance with the instruction manual, it 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, you are 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 the 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.

Caution :

To comply with the limits for a FCC Class B computing device, always us the shielded signal cord and power cord supplied with this unit.

Caution to the User :

The Federal Communications Commission warns that changes or modifications of the unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This class B digital apparatus meets all requirements of the Canadian interference-Causing Equipment Regulations.
Cet appareil numenque de la classe B respecte toutes les exigences du Reglcment sur le materiel brouilleur du Canada.

▦ INTRODUCTION

The Monitor is a 13.8″ TFT color (Thin Film Transiator) LCD display
connecting Analog RGB signal with XGA (1024×768) high resolution.
The Monitor combines a very comprehensive OSD(On Screen Display)
menu for image.

The Monitor produces negligible levels of radiation, and important
consideration for your health, comfort and safety.
Moreover, comforming to VESA DPMS(Display Power Management Signaling)
It consumes very little power.

The Monitor, having the non-harmful radiation as well as the state-of-the-art
display technology and its elegant compact outlook, for you and your computer,
is always the best choice.
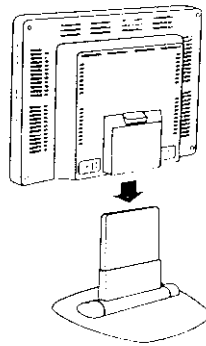
⊠ HOW TO INSTALL.

1. LCD Monitor STAND

Monitor Stand can be adjusted in the back and the forth angles which is by 30° to the back from the vertical side of the Monitor base.

2. How to attach STAND

When you attach STAND the power of Monitor & Computer should be turned off. And power adaptor & signal cable also should be removed.
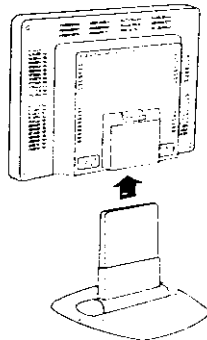
1. With stand at the vertical angle, Monitor should be placed
2. The proper angle for using is adjusted by moving the body of LCD Monitor.

3. How to disattach STAND.

When you disattach STAND, the power of Monitor & Computer should be turned off. Power adaptor & signal cable also should be removed.

1. Grab the upper part of LCD Monitor, pull Monitor up gradually as pressing the latch on the stand by one hand.

▦ SET UP THE LCD MONITOR

Please follow the steps below to set up the LCD Monitor.

(1) Connect the Power Cord into the AC Adaptor.

(2) Connect the Power Connector cable between the AC Adaptor and the LCD Monitor connector port located on the rear side of the LCD Monitor.

(3) Plug the Power Cord from the adaptor into an electrical wall outlet.

(4) Push "ON" the LCD Monitor's Power Switch.

Note : This LCD Monitor was pre-adjusted in the factor with standard VGA timing.

However, due to the output timing deviation of various VGA card. You may experience an unstable/unclear display whenever a new display mode or a new VGA card is selocted.

To fine tune the display, one must perform the following steps:

(1) Adjust the "PHASE" to get a stable display.

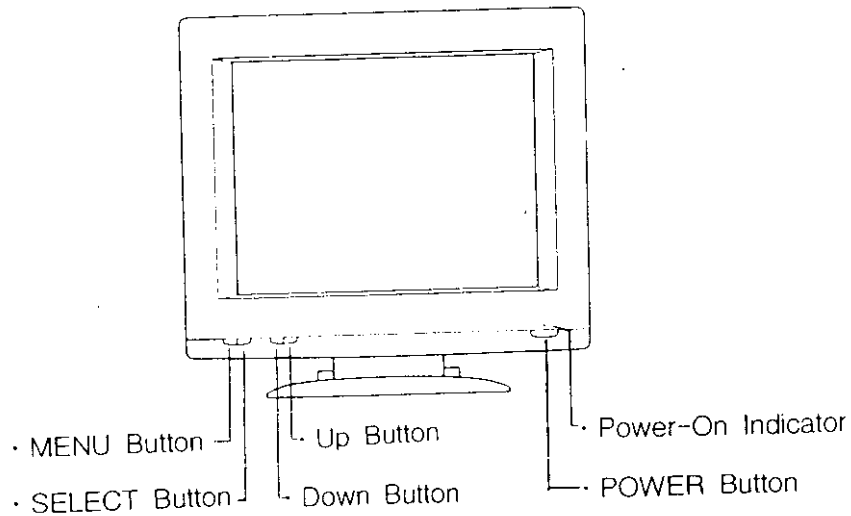(2) Adjust the "CLOCK" to have a clear picture.

◆ POWER MANAGEMENT SYSTEM

The LCD monitor complies with the VESA DPMS(version 1.0p) power management proposal. The VESA DPMS proposal provides four phases of power saving modes by detecting the horizontal or vertical sync signal.

When the LCD Monitor is in the power saving mode and detects an incorrect timing, the monitor screen will be blank.

▦ THE DISPLAY CONTROLS

The Monitor has five function control keys. These controls allow the user
to switch between the functions shown on the OSD and custom adjust the
viewing environment.

- MENU Button ─┘ └- Up Button   └- Power-On Indicator

- SELECT Button ─┘ └- Down Button   └── POWER Button

A. CONTROL BUTTONS

1. POWER Button

Push the power switch to turn the monitor on.

Push it again to turn the monitor off.

Power-On Indicator

This LED indicator lights when the power is on.

2. MENU Button

Pess key to pop up the OSD(on screen display) MENU1.

and if press key one more then MENU2 is appeared.

3. SELECT Button

This controls allow you to select one of the control functions.

4. ∨ (Down) Button

To decrease value of selected item.

5. ∧ (Up) Button

To increase value of selected item.

B. OSD MENUS

[MENU 1]

```
PHASE      0060    | | | | | | | | | |-------------
CLOCK      1314    | | | | | | | | | | | |-----------
H-POS      0336    | | | | | | | | | | | | | | |---------
V-POS      0030    | | | |-------------------
SIZE       NORM    EXP
MODE       VESA    MAC
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[MENU 2]

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R-CONT     0032    | | | | | | | | | | | |-----------
G-CONT     0032    | | | | | | | | | | | |-----------
B-CONT     0032    | | | | | | | | | | | |-----------
CONT       0128    | | | | | | | | | | | |----------
BRIGHT     0163    | | | | | | | | | | | |---------
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1. PHASE : To get a clear display."
It allows you to synchronize the display to the
signal timings of the graphics adapter.
2. CLOCK : To get a clear display.
3. H-POS : "Horizontal position" adjustment
It allows you to change horizontal positioning of the screen.
4. V-POS : "Vertical position" adjustment
It allows you to change verticall positioning of the screen.
5. SIZE :   It allows you to select Normal or Expand screen.
6. MODE: It allows you to select VESA or MAC.

7. R-CONT : "Red color" adjustment
8. G-CONT : "Green color" adjustment
9. B-CONT: "Blue color" adjustment
10. CONTRAST :"Contrast" adjustment.
It allows you to adjust image contrast.
11. BRIGHT : "Bightness" adjustment.
It allows you to adjust image brightness.

⊠ SPECIFICATIONS

Model Name	ANALOG INPUT TYPE
LCD PANEL	13.8 inch color TFT
Resolution	XGA(1024 × RGB × 768)
Display Area	279.6(H) × 209.7mm(V)
Response Time (ms)	30 ms (Typ)
Viewing Angle (°)	H : +70/-70, V : +55/-55
Contrast Ratio	300 : 1 (Typ)
Brightness (cd/m²)	200 (Typ)
Panel Color	262K Colors
CONTROL	
Power	ON/OFF with LED Indicator
O.S.D. Control	PHASE, CLOCK, H-POS, V-POS, SIZE, MODE, R-CONT,G-CONT,B-CONT, CONTRAST, BRIGHT.
POWER MANAGEMENT	VESA DPMS
VIDEO	
Input signal	VGA compatible Analog RGB
multimode supported	H : 31.5- 60.0KHz
	V : 56 - 75Hz
ENVIRONMENT	
Operating Temperature	5℃ to 45℃
Humidity	80% max.
EXTERNAL CONNECTION	
DC in Jack	12.0V, 1.5A Max.
Video Cable	1.5m, with 15pin, D-Sub VGA connector
DIMENSION	Display part : 360(W) × 298(H) × 54(D)mm With stand : 360 × 363 × 190 mm
POWER SUPPLY	Stand - alone AC adaptor
Input	90-260V, 50/60Hz
Output	12V, 30Watts
WEIGHT	Approx 4.0 Kg
COMPATIBILITY	IBM VGA, MAC.