

APPENDIX 5

USER'S MANUAL OF EUT

The enclosed manual is for the EUT. As you will notice on the preceding page of this manual is the **FCC WARNING** about radio and television interference as per the requirement set forth in Part 15 of the FCC Rules.

PREFACE

About this manual

This manual is designed to assist you in setting up and using the LCD Monitor. Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information in this document is subject to change without notice. This document contains proprietary information protected by copyright. All rights are reserved. No part of this manual may be reproduced by any mechanical, electronic or other means, in any form, without prior written permission of the manufacturer.

Copyright

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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 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.

Any changes or modifications not expressly approved by the manufacturers may void the user's authority to operate this equipment.

NOTE:

A shielded-type power cord is required in order to meet the FCC emission limits and also to prevent interference to the radio and television reception. It is essential that only the supplied power cord be used.

Use only shielded cables to connect I/O devices to this equipment.

Canadian DOC Notice

For Class B Computing Devices

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

Important Safety Instructions

Please read the following instructions carefully. This manual should be retained for future use.

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. 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 permanent 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/ minus 4 to plus 140 degree Fahrenheit. Storing your LCD Monitor outside this range could result in permanent damage.
7. If any of the following occurs, immediately unplug your Monitor and call an authorized technician.
 - The power 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.

Table of Contents

Preface	i
Welcome to the LCD Monitor!	1
Chapter 1	1
1.1 Unpacking	2
1.2 The LCD Monitor Stand	3
1.3 Removing the LCD from Its Stand	4
1.4 Replacing the LCD Monitor	6
1.5 Positioning	7
1.6 Connecting Video	8
1.7 Connecting AC Power	9
1.8 Connecting the Stereo Speakers (Optional)	10
1.9 Setting Up The LCD Monitor	10
<i>Troubleshooting</i>	<i>11</i>
1.10 Power Management System	12
Chapter 2	14
2.1 User Controls and Indicators	14
2.2 Adjusting the Monitor's Display	15
<i>OSD Main Menu</i>	<i>16</i>
Appendix A	23
LCD Monitor Specifications	23

WELCOME TO THE LCD MONITOR!

Introduction

Congratulations on your purchase of the LCD Monitor! Much consideration has gone into the design of the LCD Monitor in order to make it as easy to use and ergonomic as possible. The LCD Monitor will meet your requirements for compatibility, versatility, and quality.

By using an on-board micro-processor that controls the LCD timing sequence, the LCD Monitor is capable of producing most display standards. The digital controls located on the front panel allow the user to individually adjust the Monitor's display parameters. The LCD Monitor is lightweight, compact, and easy to transport, and has a small footprint. If your workstation is already completely full, the LCD Monitor offers added flexibility in that it can be removed from its manufacturer supplied stand and mounted on a wall, shelf, or any other convenient location.

The LCD Monitor incorporates the most up-to-date LCD technology, providing a clear crisp display with extremely low radiation emissions. Under normal operating circumstances the LCD screen does not flicker as most conventional monitors do. A stable, no flicker display with low radiation emissions reduces health concerns. The Monitor's display type provides color or gray scale resolution meeting your needs for practically any software application. With its low-power consumption, the LCD Monitor not only saves you money on your electric bill, but also conserves valuable natural resources.

Installation

1.1 Unpacking

Before you unpack your LCD Monitor, prepare a suitable workspace for your Monitor and computer. You need a stable, level and clean surface near a wall outlet. Also ensure that the LCD Monitor has enough space around it to allow for airflow. Even though the LCD Monitor uses very little power, some ventilation is needed to ensure that the Monitor doesn't become too hot.

After you unpack your LCD Monitor, make sure the following items are included in the box and in good condition.

- ◆ LCD Monitor
- ◆ LCD Monitor stand
- ◆ 1.5M Monitor-to-PC signal cable
- ◆ 1.5M Stereo Jack Audio Cable (Optional)
- ◆ AC Adapter
- ◆ Power cord
- ◆ This user's manual

If you find that any of these items is missing or appears damaged, contact your dealer immediately. Do not throw away the packing material or shipping carton in case you need to ship or store the LCD Monitor in the future.

1.2 The LCD Monitor Stand

Your LCD Monitor was designed to allow you to adjust it to a comfortable viewing angle. The LCD Monitor's angle settings range from 5° to 25°. Please see *Figure 1-1*.

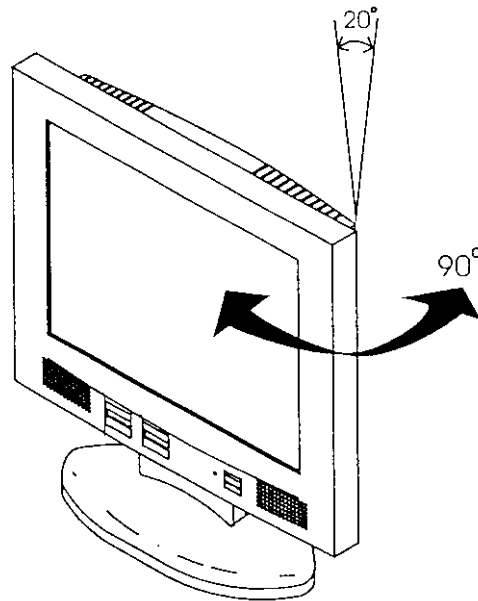


Figure 1-1: Angle Settings

Warning!



Do not force the Monitor past its maximum extension in either direction. You will damage the Monitor and the Monitor stand.

1.3 Removing the LCD from Its Stand

Another ergonomic feature incorporated into the design of your LCD Monitor is that it can be mounted either on its stand or on a shelf, wall, or any other convenient location. For illustrated instructions on how to remove the LCD Monitor from its stand, please see *Figure 1-2*.

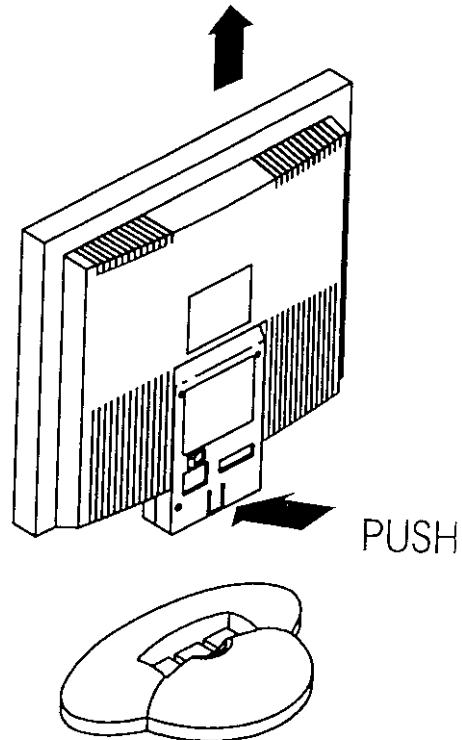


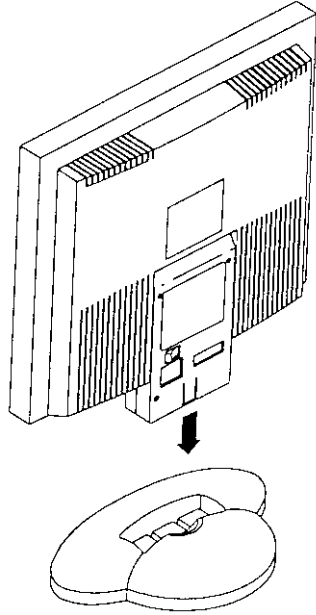
Figure 1-2: Removing the LCD from the LCD Monitor Stand

To remove the LCD Monitor from its stand, please refer to the following:

1. It is recommended that you first turn off the LCD Monitor and your computer before removing the Monitor from its stand. Disconnect the LCD Monitor's AC power jack.
2. Grip the top of your LCD Monitor with one hand. Press the Monitor release button on the back of the Monitor with the other hand. Slowly but firmly pull the Monitor off its stand.
3. Your Monitor-to-PC signal cord is 1.5M long. This extra long signal cord gives you flexibility in the placement of your LCD Monitor. Place the LCD Monitor in a convenient viewing location.
4. Ensure that the signal cord has not been jarred loose from either the PC external monitor port or the LCD Monitor port during the operation.
5. Reconnect the LCD Monitor's AC adapter.
6. Turn your computer on. Turn on your LCD Monitor.

1.4 Replacing the LCD Monitor

To replace the LCD Monitor onto its stand, please refer to the following instructions. For illustrated instructions on replacing the LCD Monitor, please see *Figure 1-3*.



Using both hands,
slide the LCD Monitor
down until you hear
a click.

Figure 1-3: Remounting the LCD

1. Turn off the LCD Monitor and your computer before replacing the Monitor onto its stand. Disconnect the LCD Monitor's AC adapter.
2. Using both hands, grip the sides of the LCD Monitor. Line the LCD Monitor up with the LCD stand.

3. Slide the Monitor down its mounting track until you hear a click. This indicates that the Monitor is now securely mounted on the stand.
4. Adjust the angle of the LCD Monitor.
5. Reconnect the LCD Monitor's AC adapter
6. Turn on your computer. Turn on your LCD Monitor.

1.5 Positioning

Take a moment to prepare a suitable place to set up your workstation. You need a stable flat dust-free surface with good ventilation. Even though the LCD Monitor has been designed using components that don't use much power, they still generate quite a bit of heat. Set up your LCD Monitor so that the screen doesn't face a window where sunlight often comes in. The reflection that sunlight makes off the LCD Monitor screen makes it difficult to see.

Warning!



- When positioning the equipment, make sure that the main ports and sockets are easily accessible.
 - Do not place your LCD Monitor close to a heat source.
 - Do not place the LCD Monitor in direct sun light or near a window. Moisture and direct sun light exposure can be seriously damaging.
-
-

1.6 Connecting Video

1. Turn off your PC and the LCD Monitor before connecting your LCD Monitor to the computer.
2. The 1.5M signal cable connects the LCD Monitor to the computer. The connector heads on either end of the signal cable are exactly the same.
3. Locate the Monitor's port. It is found on the rear side of the LCD Monitor. If you are having trouble locating it, please refer to *Figure 1-4*.
4. Connect one end of the signal cable to the Monitor's port.

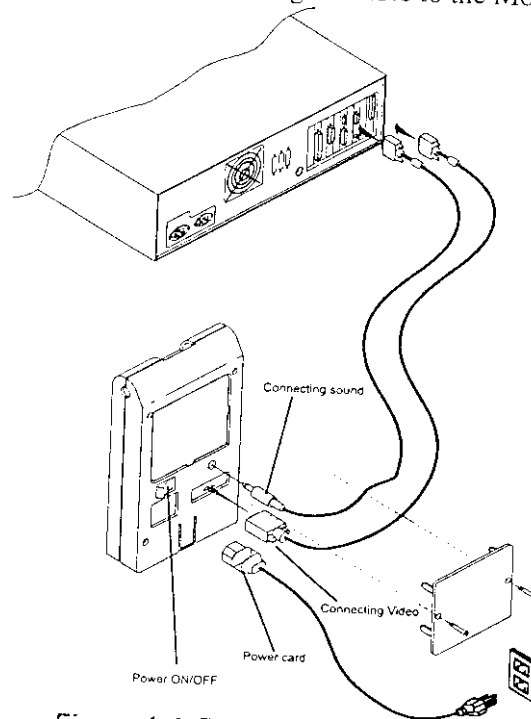


Figure 1-4: The Computer Connection

5. Connect the other end of the signal cable to the PC's VGA port.

6. Make sure the two connections which you just made are secure. Tighten the connecting screws to ensure a secure connection.
7. Turn on your computer. Turn on your LCD Monitor.

Attention! Ferrite Core on the Video Cable



This device must be connected to an off-the-shelf video cable in order to comply with FCC regulations.

A ferrite-loaded interface cable is included in the LCD Monitor package. Please attach the cable as shown in Figure 1-4.

This device will not be in compliance with FCC regulations unless the ferrite-loaded video cable is used.

1.7 Connecting DC Power

Please refer to *Figure 1-4* and the following instructions for connecting AC power to the LCD Monitor.

1. Connect the power connector of the adapter into the jack of the LCD Monitor. The DC power jack is located at the rear of the Monitor next to the Monitor's VGA port.
 2. Plug the female end of the power cord into the male receptacle of the adapter.
 3. Plug the power cord into a wall socket. The plug on the power cable will vary according to the electrical standard for your area.
-

Note:



For added protection, we recommend you use a "Surge Protection" device plugged between the AC Adapter and the electrical wall outlet to prevent the effects of sudden current variations from reaching the LCD Monitor. The sudden peaks of electricity are not good for the Monitor.

1.8 Connecting the Stereo Speakers (Optional)

Please refer to *Figure 1-4* and the following instructions for connecting the LCD Monitor's stereo speakers.

1. Connect the 1.5M sound cable to the line out of your PC's audio card.
2. Connect the other end of the 1.5M sound cable to the LCD Monitor's line-in jack.
3. You can adjust the sound volume to the stereo speakers by using the speaker volume control dial at the front of the LCD panel. Please go to the next chapter for details.

1.9 Setting Up The LCD Monitor

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

1. Connect the AC adapter. Refer to section 1.7.
2. Press the LCD Monitor's Power button.

Troubleshooting

This LCD Monitor was pre-adjusted in the factory with standard VGA timing. Due to output timing differences among various VGA cards, you may initially experience an unstable or unclear display when a new display mode or new VGA card is selected.

Attention! This LCD Monitor Supports Multiple VGA Modes



Refer to Appendix A for a listing of the modes supported by this LCD Monitor.

If you choose a mode that is not supported, the display optimization will not be assured.

PROBLEM: Display is Unclear and Unstable

To stabilize and clarify your display, follow this procedure in this order:

1. To stabilize, adjust the LCD Monitor's "Clock" setting. Please refer to Chapter 2 for information on how to make changes to the frequency setting.
2. To clarify, adjust the LCD Monitor's "Phase" setting for a clear picture. Please refer to Chapter 2 for information on how to make changes to the Phase setting.
3. It may be necessary to go back to step 1, readjust the Clock setting and then readjust the Phase setting until both settings together achieve a stable, focused image. Alternating between these two settings may be necessary before a balance is achieved.

TIP



Try using the supported XGA (1024x768) mode. Use the "Clock" and "H-Position" settings to adjust the display to full screen. Then clarify the display using the "Phase" setting.

PROBLEM: There is no LCD Display

If there is no display on the LCD, please perform the following steps:

1. Make sure that the power indicator on the LCD Monitor is lit, all connections are secure, and the system is running on the correct timing. Refer to Appendix A for information on timing.
2. Turn off the LCD Monitor and then turn it back on again. Press the right Function Select Control button (refer to Chapter 2) once and then press either the left or right Adjustment Control button several times. If there is still no display, press the other Adjustment Control button several times.
3. If step 2 doesn't work, connect your PC system with another external CRT. If your PC System functions properly with a CRT Monitor but it does not function with the LCD Monitor, the output timing of the VGA card may be out of the LCD's synchronous range. Please change to an alternative mode listed in Appendix A or replace the VGA card and repeat steps 1 and 2.

PROBLEM: I see a "Video Mode Not Supported" message in the OSD

If you choose an output timing that is outside of the LCD Monitor's synchronous range (Horizontal Frequency: 31 ~ 61 KHz and Vertical Frequency: 56 ~ 85 Hz) the OSD will display a "Video Mode Not Supported" message. Choose a mode that is supported by the LCD Monitor. Refer to Appendix A "Standard Timing" for details.

1.10 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. Refer to Appendix A for more information.

When the LCD Monitor is in the power saving mode or detects an incorrect timing, the Monitor screen will be blank and the power LED indicator starts blinking.

This concludes Chapter 1. Chapter 2 covers the LCD Monitor's controls and the on screen display (OSD).

The Display Controls

2.1 User Controls and Indicators

Operation of the LCD Monitor is quite simple due to its intuitive, ergonomic design. A description for each of the LCD Monitor's controls and indicators is provided below. *Figure 2-1* depicts the function controls as seen on the front panel of the Monitor.

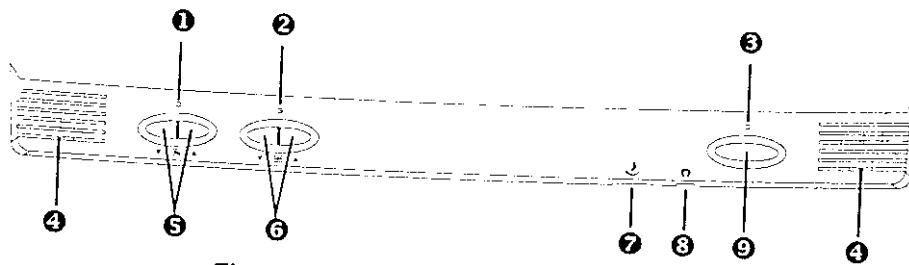


Figure 2-1: Function Controls and Indicators

1. **Function Select Indicator**
This LED indicator lights when power is on and the *Function Select Control* buttons are pressed.
2. **Adjustment Indicator**
This LED indicator lights when power is on and the *Adjustment Control* buttons are pressed.

- 3. Power-On Indicator**
This LED indicator lights when the power is on. The LED indicator will blink when the LCD Monitor is in Power Saving mode.
- 4. Stereo Speakers (Optional)**
You can listen to your PC's audio output with these speakers.
- 5. Function Select Control Buttons**
These two buttons allow you to select one of the control functions. Press either the left or right control button to pop up the OSD (on screen display) menu.
- 6. Adjustment Control Buttons**
These two buttons allow you to adjust the selected control function to accommodate your specific working environment. Press the left button to decrease the setting of the selected control function and press the right button to increase the setting of the selected control function.
- 7. Speaker Volume Control (Optional)**
This dial controls the audio volume of the LCD Monitor's speakers. Turn the dial clockwise to increase the volume. Turn the dial counterclockwise to decrease the volume.
- 8. External Headphone Jack (Optional)**
You can connect external headphones or speakers to this jack to listen to audio output. When external headphones or speakers are connected to this jack, the Monitor's speakers are disabled.
- 9. Power Switch**
Push the power switch to turn the Monitor on. Push it again to turn the Monitor off.

2.2 Adjusting the Monitor's Display

The LCD Monitor features an intuitive, menu-driven, on-screen display (OSD). The OSD makes adjusting the display settings quick and simple. The Monitor has four function control keys that allow the user to switch between the functions shown on the OSD and then customize the viewing environment. Use the *Function Select Control* buttons to access the OSD and scroll through the menu items. Use the *Adjustment Control* buttons to make changes to the selected menu item.

OSD Main Menu

To access the OSD Main menu, simply press one of the Function Select Control buttons. The following screen appears.

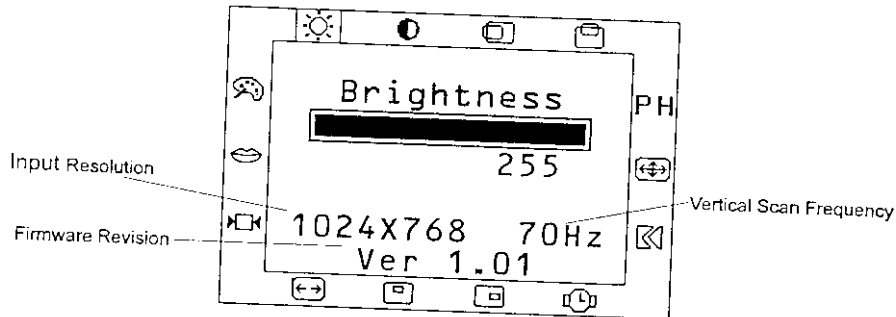


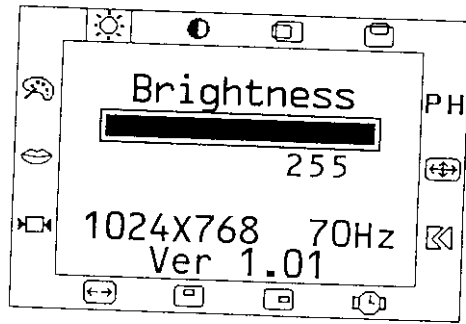
Figure 2-2: The OSD Main Menu

OSD Functions:

- OSD Format: 20 characters x 9rows
- OSD Border: Cyan color
- OSD Tunable Item: Magenta foreground, Cyan background
- Selection Item: Magenta foreground, Yellow background
- Comment: Magenta foreground, Blue background

The current Input Resolution and Vertical Scan Frequency (FV) are displayed at the bottom of the menu. These are display only fields. The OSD Firmware Version number is also displayed.

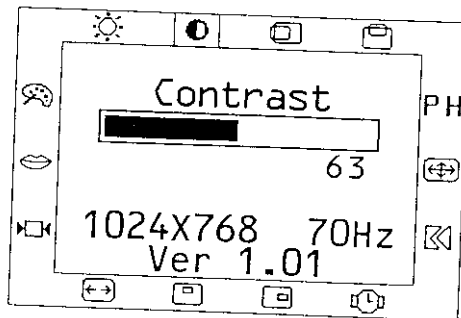
Continue pressing the Function Select Control buttons to scroll through the menu items. Each item is covered below.



Brightness

Press either of the Function Select Control buttons to scroll to the **BRIGHTNESS** menu item.

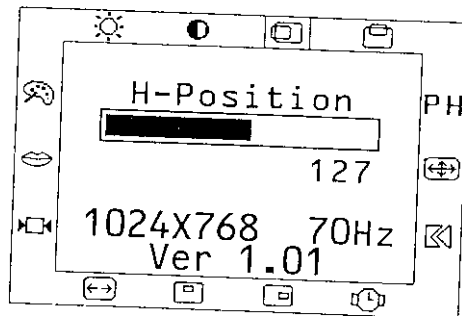
There are 256 levels of brightness available to choose from (0 — 255). Use the left Adjustment Control button to lower the brightness level. Use the right Adjustment Control button to raise the brightness level.



Contrast

Press either of the Function Select Control buttons to scroll to the **CONTRAST** menu item.

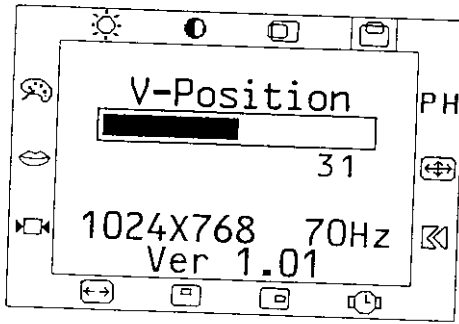
You can set the Contrast level from 0 to 63. Use the left Adjustment Control button to lower the contrast level. Use the right Adjustment Control button to raise the contrast level.



Horizontal Position

Press either of the Function Select Control buttons to scroll to the **H-POSITION** menu item.

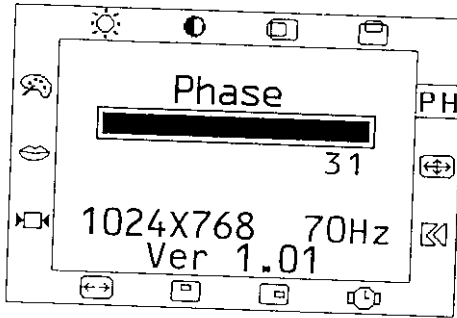
Use the left Adjustment Control button to move the display horizontally to the left. The right Adjustment Control button moves the display horizontally to the right.



Vertical Position

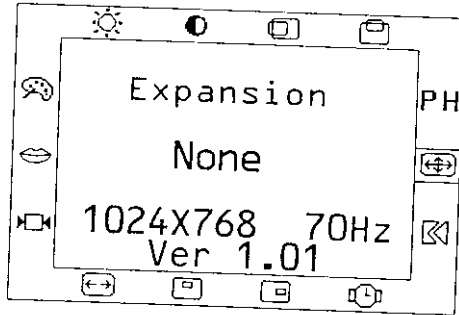
Press either of the Function Select Control buttons to scroll to the **V-POSITION** menu item.

Use the left Adjustment Control button to move the display vertically downwards. The right Adjustment Control button moves the display vertically upwards.



Phase

Press either of the Function Select Control buttons to scroll to the **PHASE** menu item. The Phase control allows you to adjust the screen display for focus and clarity. There are 32 settings available (0 — 31). Use the left Adjustment Control button to decrease the Phase adjustment. The right Adjustment Control button increases the Phase adjustment.



Expansion

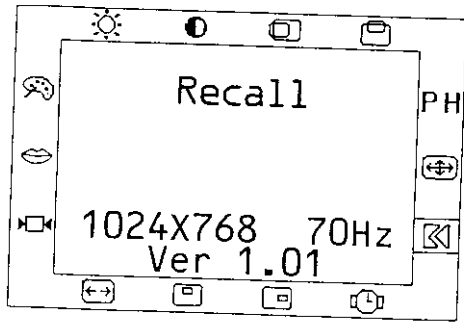
Press either of the Function Select Control buttons to scroll to the **EXPANSION** menu item.

There are two options for this menu item. Use the left Adjustment Control button to choose Yes to have the display automatically expanded to the largest area available. Use the right Adjustment Control button to choose No to remove automatic expansion.

It is not necessary to support Expansion function for 1024 x 768 modes. OSD will display "None," when current mode is 1024x768.

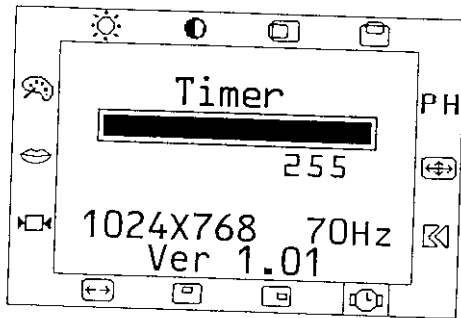
Note:

Screen expansion is disabled in XGA and 1024 x 768 mode.



Recall

In the Main OSD Menu, select **RECALL** to set the LCD Monitor's parameters to the current mode's factory set default values.

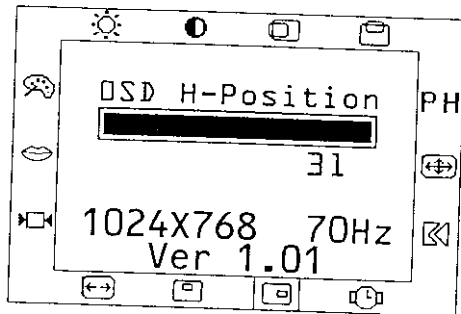


OSD Timer:

Press either of the function select control buttons to scroll to the OSD timer menu item. There are 251 settings of Timer available to choose from (5-255 see).

Use the left Adjustment Control button to decrease the time-off time of OSD screen.

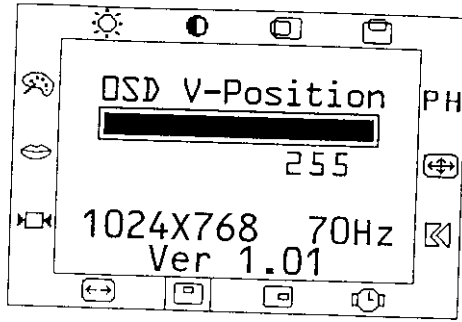
Use the right Adjustment Control button to increase the time-off time of OSD screen.



OSD Horizontal Position.

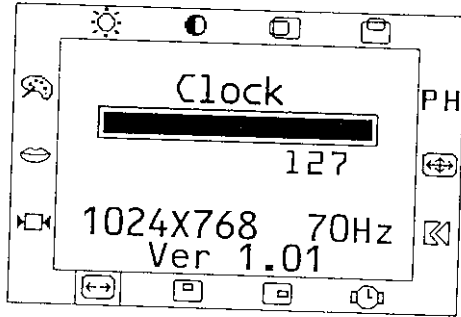
Press either of the function select control buttons to scroll to the OSD H-Posi menu item.

Use the left Adjustment Control button to move the OSD display horizontally to the left. The right Adjustment Control button is to move the OSD display horizontally to the right. The range is from 0 to 31.



OSD Vertical Position

Press either of the function select control buttons to scroll to the V-Posi menu item. Use the left adjustment control button to move OSD display Vertically downwards. Use the right adjustment control button to move the Vertically upwards. The range is from 10 to 126.



Clock

Press either of the Function Select Control buttons to scroll to the **CLOCK** menu item.

The frequency tracking feature allows you to adjust the screen display for stability and clarity. Pressing the right Adjustment Control button increases the frequency tracking adjustment. Pressing the left Adjustment Control button decreases the frequency tracking adjustment. You can adjust the frequency tracking form -127 to +127.

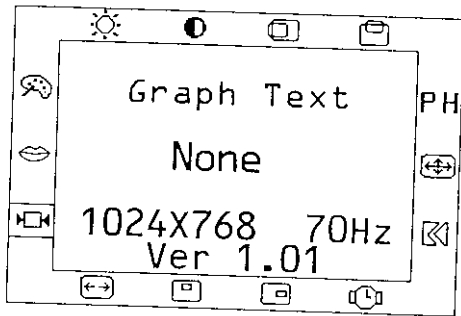
There are 255 settings available. (-127, -126, ..., 0, +1, ..., +126, +127)

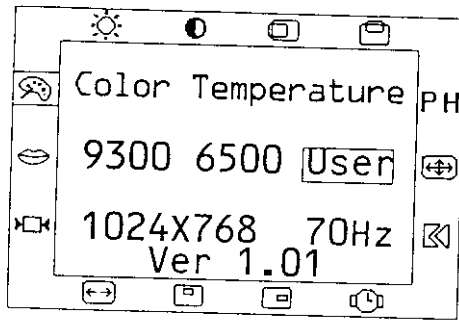
Graph Text

Press either of the Function Select Control buttons to scroll to the **GRAPH TEXT** menu item.

This menu item allows you to choose a display that allows maximum graphics quality or maximum text quality. You can choose either 640x400 or 720x400 resolution. These two options are only available when the either 640x400 or 720x400 are chosen.

Refer to Appendix A "Standard Timing" for information on the different modes.



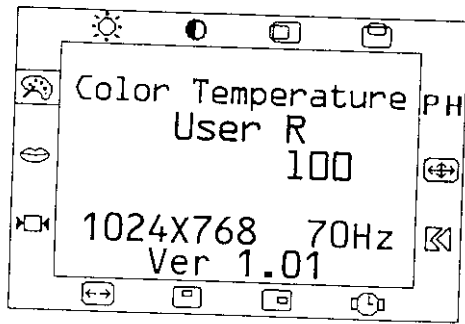


Color Temp

Press either of the Function Select Control buttons to scroll to the **COLOR TEMP** menu item.

Use the Adjustment Control buttons to scroll between either of the two preset values for Color Temperature and the User field. When the User menu item has been highlighted, there are attendant User R, G, and B Item. Press Function Select control buttons to select User R, G, B to adjust. A description of the icons on this screen and their functions is provided in the following table.

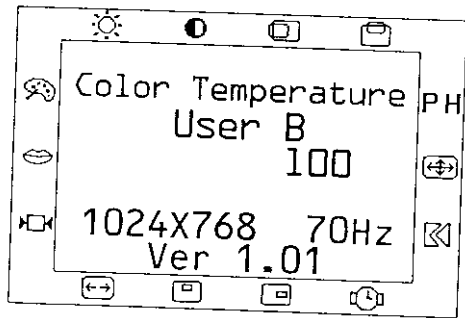
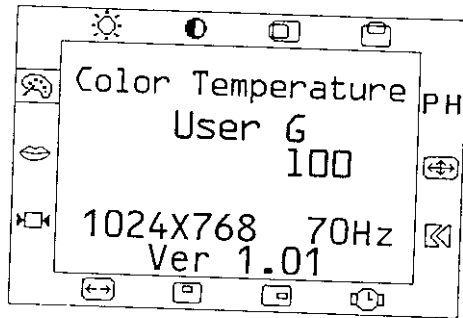
Icon	Function	Description
9300	CIE coordinate 9300° Color Temperature	Select this option to set the LCD Monitor for the CIE coordinate 9300° Color temperature.
6500	CIE coordinate 6500° Color Temperature	Select this option to set the LCD Monitor for the CIE coordinate 6500° Color temperature.
R	Red Gain	Use this option to adjust the Red Gain.
G	Green Gain	Use this option to adjust the Green Gain.
B	Blue Gain	Use this option to adjust the Blue Gain.



If the User field is selected, pressing the Function Select Control button allows you to move to the R, G, and B fields. When you have moved to the R, G, and B fields, use the left and right Function Select Control buttons to scroll through the color gain fields as shown in the illustration to the left.

When you have scrolled to either the R, G, or B field, use the Adjustment Control buttons to make changes to the color gain. Use the left Adjustment Control button to lower the color gain value. Use the right Adjustment Control button to raise the color gain value.

All the adjustable ranges for User R, User G and User B are respective form 0 to 255.



APPENDIX A

Technical Information

LCD Monitor Specifications

Model	TBJ350
LCD Panel	15.1" (38.4cm)
Display type	Active matrix color TFT LCD
Resolution	1024 x 768
Display Dot	1024 x (RGB) x 768
Display area	307.2mm x 230.4mm (W x H)
Pixel Pitch	0.100mm x RGB(W) x 0.300mm(H)
Display Color	16.7M
Brightness	250 cd/m ² (typical)
Contrast Ratio	300:1 (typical)
Response time	28ms (typical)
Lamp Voltage	640Vrms (typical)
Lamp Current	5mA rms. (typical)
View angle	

Vertical (θ)	Horizontal (ϕ):
-45° ~ +55°	-60° ~ +60°
Note: minus (-) indicates that you are looking upwards at the LCD screen. Plus (+) indicates that you are looking downwards.	Note: minus (-) indicates that you are viewing the LCD screen from the left direction. Plus (+) indicates you are viewing the LCD screen from the right direction.

Control

Power

Button control by Software with LED indicator.

OSD

Brightness	Digital
Horizontal Position	Digital
Vertical Position	Digital
Focus	Digital
Frequency Tracking	Digital
Display Mode Setup	Uses E ² PROM to save settings to memory
OSD Format	20 characters x 9 rows

Video

Input Signal	VGA compatible Analog RGB
Input Impedance	75 ohm +/- 2%
Polarity	Positive
Amplitude	0 - 0.7 +/- 0.05 Vp
Multi-mode Supported	Horizontal Frequency: 31~61KHz, *Vertical Frequency: 43(I)-85Hz

*Note: 43Hz is 8514A-Interace mode

Sync Input

Signal	Separate TTL compatible horizontal and vertical sync.
Polarity	Positive and negative

Power Management

Meets VESA DPMS proposal

Mode	Input Power	AC Input
ON	38.0W max.	240VAC
Standby	15.0W max.	240VAC
Suspend	15.0W max.	240VAC
OFF	15.0W max.	240VAC

* measured from AC input end of AC adapter

Plug & Play

Supports VESA DDC1 and DDC2B functions

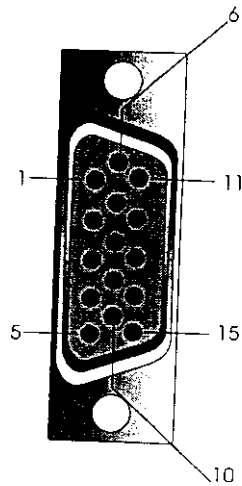
External Connection

Power Input	AC 100~240V 50/60Hz, 1.2A
Video Cable	1.5M, with 15 pin D-Sub VGA connector
Audio Cable (Optional)	1.5M stereo Jack

Power Supply

Input Voltage	Single phase 50/60Hz 100 ~ 240VAC
Input Current	1.2A max.

Pin Connection



PIN	Signal Description	PIN	Signal Description
1	Red	9	No Pin
2	Green	10	Digital GND
3	Blue	11	Digital GND
4	No Pin	12	SDA
5	Digital GND	13	Hsync
6	Red Rtn	14	Vsync
7	Green Rtn	15	SCL
8	Blue Rtn		

Environment

Operating

Temperature	5 °C to 40 °C / 41°F to 104°F
Relative Humidity	10% to 90%
Altitude	Sea Level to 8000ft

Storage or Shipping

Temperature	-20 °C to +60 °C / -4°F to +140°F
Relative Humidity	10% to 90%
Altitude	Sea Level to 40,000ft

Size and Weight

Dimensions	205(L) x 397(W) x 405(H) mm
Net Weight	5.8Kg
Gross Weight	8.1Kg

Standard Timing(for Note supported timing BJ350 will go to power saving mode)

MODE	H-Freq. (KHz)	V-Freq. (Hz)	Pixel req. (MHz)	H/V Sync. Polarity	Comment
640x350	31.469	70.087	25.175	+/-	VGA-350
640x350	37.861	85.080	31.500	+/-	VESA-350
640x400	24.83	56.42	21.05	-/-	NEC PC9801
640x400	31.469	70.087	25.175	-/+,-/-	VGA-400-GRAPH, NEC PC9821
640x400	37.861	85.080	31.500	-/+	VESA-400-GRAPH
640x480	31.469	59.940	25.175	-/-	VGA-480
640x480	35.000	66.670	30.240	-/-	APPLE MAC-480
640x480	37.861	72.809	31.500	-/-	VESA-480
640x480	37.500	75.000	31.500	-/-	VESA-480-75Hz
640x480	43.269	85.008	36.000	-/-	VESA-480-85Hz
720x400	31.469	70.087	28.322	-/+	VESA-400-TEXT
720x400	37.927	85.039	35.500	-/+	VESA-400-TEXT
823x624	49.725	74.550	57.283	-/-	APPLE MAC-800
800x600	35.156	56.250	36.000	+/+	SVGA
800x600	37.879	60.317	40.000	+/+	VESA-600
800x600	48.077	72.188	50.000	+/+	VESA-600-72Hz
800x600	46.875	75.000	49.500	+/+	VESA-600-75Hz
800x600	53.674	85.061	56.250	+/+	VESA-600-85Hz
1024x768	48.363	60.004	65.000	-/-	XGA
1024x768	53.964	66.132	71.664	+/+	COMPAQ-XGA
1024x768	56.476	70.069	75.000	-/-	VESA-768
1024x768	60.023	75.029	78.750	+/+	VESA-768-75Hz
1024x768	60.240	75.020	80.000	-/-	APPLE MAC-768
1024x768	35.522	43.479	44.900	+/+	VGA-8514A

*Once a mode is optimized, there is no need to make any further adjustments as long as the VGA card remains unchanged.