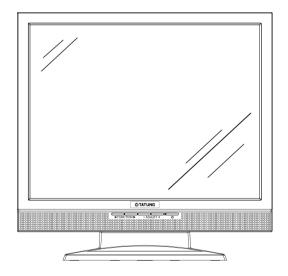
# **OPERATING INSTRUCTIONS**

# TLM-1705 / TLM1905







This device complies with part 15 of the FCC Rules. Opeartion is subjected to the following two conditions:

- 1. This device may not cause harmful interference, and
- 2. This device must accept any interference received, including interference that may cause undesired operation.

#### **FCC WARNING**

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 inerference 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 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 an FCC Class B computing device, always use the shielded signal cord supplied with this unit.

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.

CE mark for Class B ITE (Following European standard EN55022/1998; EN61000-3-2/1995; EN61000-3-3/1995, EN55024/1998, EN60950/1992+A1+A2+A3+A4+A11)

#### Radio Frequency Interference Statement

#### Warning:

This is a Class B product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

#### **Canadian Doc Notice**

#### For Class B Computing Devices

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the Radio Interference Regulation of the Canadian Department of Communications.

"Le présent appareil numérique n'èmet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la class B prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada"

#### **Important Operating Instructions**

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

- 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. Without applying
  excessive pressure, clean the screen with a 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 place 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. Excessive 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 the 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. Immediately unplug your monitor and call an authorized technician when:
  - The power or 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.
- 8. Only with use of supplied adaptor, in case of loss or replacement contact the retailer or service center.
- 9. If you lost the power cord that we given, you must to purchase a same configuration/type of power cord (with ground-connection)
  - ❖ Japan: VCTF type, 3 wires or with ground-wire, T-mark approval is required.
  - ❖ U.S.: VW-1; 18AWG X 3C; SVT with national approval as UL and/or CSA approval/number(s)
  - Europe : VDE/ÖVE and/or KEMA approval; H05VV-F, 3G, 0.75mm², or equivalent.

Above power cord should bear with the type and manufacturer name on.

# Introduction

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## CHAPTER 1

# The LCD Multimedia Monitor

# Unpacking

After you unpack your LCD multimedia monitor, make sure the following items are included in the box and in good condition:

#### Standard Item

- LCD multimedia monitor
- Monitor-to-PC analog signal cable (15-pin)
- Monitor-to-PC digital signal cable (24-pin) (Optional)
- Power cord
- Addendum
- User's manual
- 1.5M Stereo Jack audio cable

If you find that any of these items are missing or appear 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 multimedia monitor in the future.

# **Identifying Components**

#### The LCD Multimedia Monitor — Front View

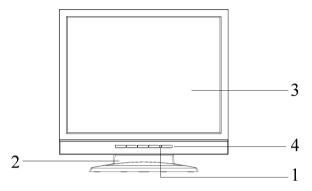


Figure 1-1: The LCD multimedia Monitor Front View

- 1. Power-On Indicator
  This LED indicator stays lit when the power is on and blinks when the LCD multimedia monitor is in power saving mode.
- 2. Monitor Stand
- 3. LCD Screen
- **4. LCD Multimedia Monitor Control Panel** Refer to Chapter 2 for a detailed.

# The LCD Multimedia Monitor — Rear View

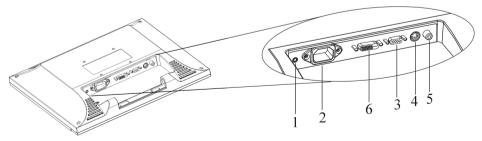


Figure 1-2: LCD Multimedia Monitor Rear View

- 1. Audio Line-in
- 2. AC Power Jack
- 3. VGA (Analog) Cable With 15-Pin D-Sub VGA Connector (Male)
- 4. S-Video connector
- 5. AV connector
- 6. Digital VGA (DVI) Cable Connector (Optional)

# **Adjusting the Tilting Angle**

The LCD multimedia monitor's angle settings range from -3° to 20°. See Figure 1-3.

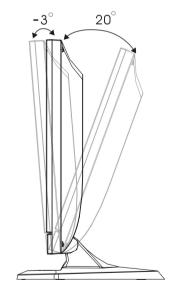


Figure 1-3: Tilting the Monitor

# Raising Your Monitor to an Upright Position and **Adjusting Monitor Angle**

#### Raising Your Monitor to an Upright Position

#### Please

When handling the monitor, take care to hold only the frame. Holding or applying pressure to the LCD panel may cause damage to your monitor.

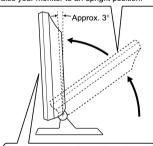
1 Firmly grip and hold down the monitor stand while you gently rotate your monitor upward.



Caution! Be careful fior to calco. stand and the monitor.

(2) Some parts of the apparatus will tighten in the process of adjusting your monitor. When this happens, apply greater force and continue to adjust until the screen is standing upright and can not be adjusted further.

Some parts of the apparatus will tighten in the process of adjusting your monitor. When this happens, apply greater force and continue to raise your monitor to an upright position.



Continue to adjust the position of your monitor until it can not move any further forward. (Adjust until the monitor is tilted approximately 3° toward you.)

(3) At this point you may freely adjust to a comfortable position.

#### Adjusting the Angle of **Your Monitor**

Firmly grip and hold down the monitor stand while you gently adjust your monitor to a desired angle.



Approx. 3° Approx. 20° Do not use in this range Caution! Do not use your

monitor pushed back more than 20°. Doing so may cause your monitor to fall over and lead to your injury or malfunction of the monitor.

# **Power Management System**

The LCD multimedia monitor complies with the VESA DPMS power management proposal.

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

#### CHAPTER 2

# **The Display Controls**

# **LCD Multimedia Monitor Control Panel**

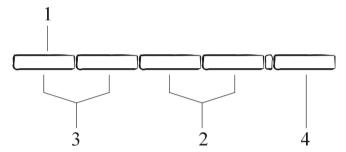


Figure 2-1: The LCD Monitor Panel

#### 1. OSD Menu Button

Press this button to pop up the OSD (On-Screen Display) menu. This button is also a Function Select button.

#### 2. Adjustment Control Buttons

These two buttons allow you to adjust the selected control functions in the OSD.

#### 3. Function Select Buttons

These two buttons allow you to select the control functions in the OSD. Press either button to scroll through the main menu and submenu items.

#### 4. Power Switch

Push the power switch to turn the monitor on and off. This switch is also a hot-key button to close the OSD menu while the OSD appears.

# **Adjusting the Monitor's Display**

#### OSD Main Menu

To access the OSD main menu, press the OSD Menu button. Use the Function Select buttons to scroll between the OSD main menu options. The option that is currently selected is blinking.

Pressing one of adjustment control buttons causes the following screen to appear:



Figure 2-2: The OSD Main Menu

# **◆**ANALOG MODE:

When analog signal input is selected.

#### **MONITOR-CONTROL Option**

The Monitor-Control option allows you to adjust the LCD monitor's display settings.



Press Adjustment control button to display the submenu.



**AUTO-ADJUST:** Press the adjustment control button to let the monitor determine and select the settings that are most appropriate for your system requirements.



**H-POSITION:** To move the LCD monitor's display left or right on a horizontal plane.



**V-POSITION:** To move the LCD monitor's display up or down on a vertical plane.



**PHASE:** To adjust the focus and clarity of the display.



**CLOCK:** To adjust the display pixel alignment.



**RESET:** To reset all of the Monitor-Control submenu settings to the factory default.



**GRAPHIC/TEXT:** Press the adjustment control button to switch between text and graphic display modes.



**PORT-SELECT:** To select video source by pressing adjustment button to switch DVI (Optional), analog, video (CVBS) or S-Video signal input.



**EXIT:** To exits the Monitor-Control submenu.

# OSD-CONTROL Option

The OSD-Control menu option lets you adjust the position of the OSD on the screen.



Press the Adjustment control button to display the submenu. Use the Function Select buttons to select one of the following submenu options:



**OSD-H-POSITION:** To change the position of the OSD on a horizontal plane.



**OSD-V-POSITION:** To change the position of the OSD on a vertical plane.



**OSD-TIMER:** The OSD menu display time can be set at 5, 10, 15, 20, 25 or 30 seconds.



**EXIT:** To exit the OSD-Control submenu.

#### **GRAPHIC-CONTROL Option**

The Graphic-Control option lets you make adjustments that effect the contrast, brightness and color of the LCD monitor's display.



Press the Adjustment control button to display the submenu.



**CONTRAST:** To adjust the contrast level of the display screen.



**BRIGHTNESS:** To adjust the light level on the display screen.



**COLOR:** To select the LCD monitor's color display. The available options are 9300, 6500 and User. Selecting the user option lets you make individual adjustments to the R, G and B items.



**GAIN R, G and B ADJUST:** To make individual adjustments to the Red, Blue, Green (RGB) gain for the color temperature.



**AUTO LEVEL:** To adjust automatically to perfect the white balance display.



**RESET:** To reset all of the Graphic-Control submenu settings to the factory default.



**EXIT:** To exit the Graphic-Control submenu.

# MISC-CONTROL Option

The Misc-Control menu option lets you select the OSD display language, adjust the audio volume setting and view system information.



Press the Adjustment control button to display the submenu.



**LANGUAGE:** The supported languages include German, English, French, Spanish, Italian and Japanese.



**AUDIO VOLUME:** To increase or decrease the volume of the LCD monitor's sound system.



**INFORMATION:** To indicate display mode timings and firmware version.



**EXIT:** To exit the Misc-Control submenu.

### **OSD EXIT Option**

Use the OSD Exit item to close the OSD menu.



The OSD will disappear by itself if left inactive.

# **◆DIGITAL MODE (Optional):**

When DVI signal input is selected.

## **MONITOR-CONTROL Option**



Press Adjustment control button to display the submenu.



**PORT-SELECT:** To select video source by pressing adjustment button to switch DVI (Optional), analog, video (CVBS) or S-Video signal input.



**EXIT:** To exits the Monitor-Control submenu.

#### **OSD-CONTROL Option**

The OSD-Control menu option lets you adjust the position of the OSD on the screen.



Press the Adjustment control button to display the submenu. Use the Function Select buttons to select one of the following submenu options:



**OSD-H-POSITION:** To change the position of the OSD on a horizontal plane.



**OSD-V-POSITION:** To change the position of the OSD on a vertical plane.



**OSD-TIMER:** The OSD menu display time can be set at 5, 10, 15, 20, 25 or 30 seconds.



**EXIT:** To exit the OSD-Control submenu.

#### **GRAPHIC-CONTROL Option**

The Graphic-Control option lets you make adjustments that effect the contrast, brightness and color of the LCD monitor's display.



Press the Adjustment control button to display the submenu.



**CONTRAST:** To adjust the contrast level of the display screen.



**BRIGHTNESS:** To adjust the light level on the display screen.



**RESET:** To reset all of the Graphic-Control submenu settings to the factory default.



**EXIT:** To exit the Graphic-Control submenu.

#### **MISC-CONTROL Option**

The Misc-Control menu option lets you select the OSD display language, adjust the audio volume setting and view system information.



Press the Adjustment control button to display the submenu.



**LANGUAGE:** The supported languages include German, English, French, Spanish, Italian and Japanese.



**AUDIO VOLUME:** To increase or decrease the volume of the LCD monitor's sound system.



**INFORMATION:** To indicate display mode timings and firmware version



**EXIT:** To exit the Misc-Control submenu.

#### **OSD EXIT Option**

Use the OSD Exit item to close the OSD menu.



The OSD will disappear by itself if left inactive.

#### **◆VIDEO or S-VIDEO MODE:**

When Video or S-Video signal input is selected.

#### **MONITOR-CONTROL Option**



Press Adjustment control button to display the submenu.



**PORT-SELECT:** To select video source by pressing adjustment button to switch DVI (Optional), analog, video (CVBS) or S-Video signal input.



**EXIT:** To exits the Monitor-Control submenu.

### **OSD-CONTROL Option**

The OSD-Control menu option lets you adjust the position of the OSD on the screen.



Press the Adjustment control button to display the submenu. Use the Function Select buttons to select one of the following submenu options:



**OSD-H-POSITION:** To change the position of the OSD on a horizontal plane.



**OSD-V-POSITION:** To change the position of the OSD on a vertical plane.



**OSD-TIMER:** The OSD menu display time can be set at 5, 10, 15, 20, 25 or 30 seconds.



**EXIT:** To exit the OSD-Control submenu.

# VIDEO-CONTROL Option



Press the Adjustment control button to display the submenu.



**CONTRAST:** To adjust the contrast level of the display screen.



BRIGHTNESS: To adjust the light level on the display screen.



**HUE:** To adjust the hue level you prefer.



**SATURATION:** To adjust the color level you prefer.



**SHARPNESS:** Press the adjustment button to optimize the sharpness for your specific application.



**RESET:** To reset all of the Video-Control submanu settings to the factory default.



**EXIT:** To exit the Video-Control submenu.

# **MISC-CONTROL Option**

The Misc-Control menu option lets you select the OSD display language, adjust the audio volume setting and view system information.



Press the Adjustment control button to display the submenu.



**LANGUAGE:** The supported languages include German, English, French, Spanish, Italian and Japanese.



**AUDIO VOLUME:** To increase or decrease the volume of the LCD monitor's sound system.



**INFORMATION:** To indicate display mode timings and firmware version.



**EXIT:** To exit the Misc-Control submenu.

# **OSD EXIT Option**

Use the OSD Exit item to close the OSD menu.



The OSD will disappear by itself if left inactive.

#### Note:

#### 1. No Video

When the monitor is ON and there is no Video signal received, the following message will be displayed.

NO VIDEO

#### 2. Signal out of monitor's supported range (Please refer to Addendum)

When the frequency range of the signal is out of the monitor's specifications, the display will show the following message on two cases:

#### Case 1:

The incoming frame rate is higher than 75Hz.

In this case, the screen display may not be centered and a warning message appears. OVER RANGE

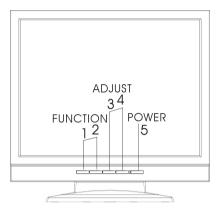
#### Case 2:

The incoming resolution is higher than 1280x1024.

In this case, the video data will be turned off and a warning message appears at center.

OVER RANGE

# Hot-Key Buttons for Quick Adjustment of Monitor Settings. ( "AUTO-ADJUST" hot-key is effective only when analog input signal is selected for application)



#### 1. "Auto-adjust" hot-key button:

Press button 2 to apply the monitor setting automatically. A small "AUTO-ADJUST" OSD is also displayed.

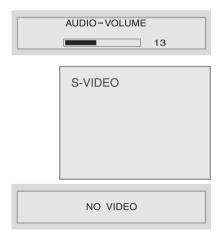
AUTO-ADJUST

#### 2. "Adjust-volume" hot-key button:

Press button 3 to allow you to adjust the audio volume directly. A small "AUDIO-VOLUME" OSD is also displayed.

# 3. Video "Source" hot-key button:

Press button 4 to allow you to switch DVI, analog, video and S-Video signal input directly and the selected "input signal" is also displayed on the top left corner. If there is no video signal received, the "input signal" display will be disappeared and then the following message will be displayed.



<sup>\*</sup> To close the small OSD windows, press the power button (button 5).

# APPENDIX A Troubleshooting

# **Troubleshooting Procedures**

This LCD monitor comes pre-adjusted 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.

Before applying any of the following troubleshooting procedures, you should first apply the Auto Adjust option in the OSD menu.

#### PROBLEM: Display is Unclear and Unstable

To stabilize and clarify your display, follow this procedure:

- 1. In Windows, enter the windows shut down screen.
- Open the OSD and select the Clock function. Press one of the Adjustment Control buttons until the dark vertical bands disappear.
- 3. Select the Phase function and press one of the Adjustment Control buttons until horizontal dark and light lines appear. The number of lines increases as you press the button. Press the other Adjustment Control button until the lines disappear and you have a clear display.

### PROBLEM: There is no LCD Display

If there is no display on the LCD, refer to the following:

 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 the Addendum for information on timing.

- 2. Turn off the LCD monitor and then turn it back on again. Press the OSD Menu button (refer to Chapter 2) once and then press either 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 to another external CRT. If your PC system functions properly with a CRT monitor but it does not function with the LCD monitor, and the LCD monitor's power LED is blinking, the output timing of the PC's VGA card may be out of the LCD's synchronous range. Change to one of the alternate modes, listed in the Addendum, or replace the VGA card and repeat steps 1 and 2.
- 4. If the power LED is not lit, check that the AC power connector is securely connected. Verify that the AC adapter LED is lit. If the AC adapter LED is not lit, please contact your dealer for assistance.

#### PROBLEM: There is no Video Signal

- 1. Make sure the connected video device is on and connected correctly.
- **2.** Make sure the video source is selected to the connected video device correctly.

# APPENDIX B

# **Technical Information**

# **LCD Monitor Specifications**

LCD Panel	17-inchTFT					
Control	Software switch	with LED indicator (toggle ON/OFF)				
Functions						
Power						
On-Screen	Main Menu	Submenu				
Display (OSD)	ANALOG MODE:					
	MONITOR-CONTROL	AUTO-ADJUST, H-POSITION, V- POSITION, PHASE, CLOCK, RESET, GRAPHIC / TEXT, PORT-SELECT, EXIT				
	OSD-CONTROL	OSD-H-POSITION, OSD-V-POSITION, OSD-TIMER, EXIT				
	GRAPHIC-CONTROL	CONTRAST, BRIGHTNESS, COLOR, GAIN R, G and B ADJUST, AUTO LEVEL, RESET, EXIT				
	MISC-CONTROL	LANGUAGE, AUDIO-VOLUME, INFORMATION, EXIT				
	OSD EXIT					
	DIGITAL MODE (Optional):					
	MONITOR-CONTROL	PORT-SELECT, EXIT				
	OSD-CONTROL	OSD-H-POSITION, OSD-V-POSITION, OSD-TIMER, EXIT				
	GRAPHIC-CONTROL	CONTRAST, BRIGHTNESS, RESET, EXIT				
	MISC-CONTROL	LANGUAGE, AUDIO-VOLUME, INFORMATION, EXIT				
	OSD EXIT					
	VIDEO or S-VIDEO MODE:					
	MONITOR-CONTROL	PORT-SELECT, EXIT				
	OSD-CONTROL	OSD-H-POSITION, OSD-V-POSITION, OSD-TIMER, EXIT				
	VIDEO-CONTROL	CONTRAST, BRIGHTNESS, HUE, SATURATION, SHARPNESS, RESET, EXIT				
	MISC-CONTROL	LANGUAGE, AUDIO-VOLUME, INFORMATION, EXIT				
	OSD EXIT					

Display Area	337.920 mm x 270.336 mm (17.0-inch diagonal)				
Display Colors	16M				
Video Input	VGA, DVI (Optional), S-Video, AV				
Scanning	24-80K				
Frequency	56-75				
(Analog mode)					
Scanning	31-80K				
Frequency	56-75				
H/V, Hz					
(Digital mode)-					
(Optional)					
Power	Meets VESA DPMS				
Management					
Power	ON: 40W max. OFF/Power Saving Mode: Less than 5W				
Consumption	(Measured from AC inlet)				
Dimensions	372mm (W) x 385mm (H) x 210mm (D)				
(Approx.)					
Net Weight (Kg)	5 <u>+</u> 1				
(Approx.)					
Power Supply	Built-In Universal Input Off-Line Power Supply				
Options	Desktop and wall-mount (VESA type)				
Environment	Operating/Storage	Relative Humidity:	Altitude: 0-12,192m		
	Temperature: 0/-20 to	10% to 85%	(0-40,000ft)		
	40/60° C				
Audio	Audio in x 1, 1.0W speaker x 2 with built-in amplifier				
Regulatory	cUL, CE, FCC B DoC				
	,-,				

# APPENDIX C Supported Timing

Ite m	Standards	Resolution	Dot Clock (MHz)	Vertical Scanning Frequency (Hz)	Horizontal Scanning Frequency (kHz)	Sync Polarity or composite sync (H/V)	Operatin g Mode
1	NEC PC98	640x400	25.20	70.15	31.50	-/-	A/D
2	NEC PC98	640x400	21.05	56.42	24.83	-/-	Α
3	MAC 13" mode	640x480	30.24	66.67	35.00	-/-	A/G
4	MAC 16" mode	832x624	57.28	74.55	49.73	-/-	A/G
5	MAC 17" mode	1024x768	80.00	75.02	60.24	-/-	A/G
6	VGA	640x350	25.18	70.09	31.47	+/-	A/D
7	VGA	640x400	25.18	70.09	31.47	-/+	Α
8	VGA	640x480	25.18	59.94	31.47	-/-	A/D
9	VESA	640x480	31.50	72.81	37.86	-/-	A/D
10	VESA	640x480	31.50	75.00	37.50	-/-	A/D
11	VESA	800x600	36.00	56.25	35.16	+/+	A/D
12	SVGA	800x600	40.00	60.32	37.88	+/+	A/D
13	VESA	800x600	50.00	72.19	48.08	+/+	A/D
14	VESA	800x600	49.50	75.00	46.88	+/+	A/D
15	VGA	720x400	28.32	70.09	31.47	-/+	Α
16	XGA	1024x768	65.00	60.00	48.36	-/-	A/D
17	VESA	1024x768	75.00	70.07	56.48	-/-	A/D
18	VESA	1024x768	78.75	75.03	60.02	+/+	A/D
19		1024x768	71.64	66.13	53.96	+/+	A/D
20	VESA	1152x864	108.00	75.00	67.50	+/+	A/D
21		1152x870	100	75.06	68.68	-/-	A/D
22	VESA	1280x960	108.0	60.0	60.0	+/+	A/D
23	VESA	1280x1024	108.0	60.02	63.98	+/+	A/D
24	VESA	1280x1024	127.0	69.85	74.88	+/+	A/D
25	VESA	1280x1024	135.0	75.03	79.98	+/+	A/D
26	SUN	1024x768	64.13	59.98	48.29	H+V	Α
27	SUN	1024x768	74.25	70.04	56.59	H+V	Α

<sup>\*</sup> A=Analog Mode; D=Digital Mode (Optional); G=Sync On Green Mode

there is no need to make any further adjustment as long as the VGA card remains unchanged.

<sup>\*</sup> Once a mode is optimized, 50

<sup>\*</sup> Specifications are subject to change without notice.

# TATUNG COMPANY OF AMERICA

2850 El Presidio ST. Long Beach, CA 90810 (800) 827-2850

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