TFT LCD COLOR MONITOR

User's manual

Model   LCD-1513VB 15.1

Model   LCD-1513TS 15.1

T⊗TE VISION R

Multilingual User's Manual

1.Introduction

FCC Notice
This equipment has been tested and found to comply with the limits for FCC class B.

Trademarks
Trademarks are the rights of their respective owners.

Introduction

Product Description

Congratulations on purchasing the next generation of LCD monitor display! This state-of-the-art high brightness LCD monitor incorporates high quality display into a small light weighted module. It has power-saving capabilities and emits no harmful X-ray radiation. You will certainly enjoy the benefit of its features: high brightness for better visibility under any given environment, expanded color domain for better quality images, and further viewing distance for comfort and safety.

This LCD monitor incorporates 15″ color active matrix thin-film-transistor (TFT) liquid crystal display with **ABT** (Advanced Brightness Technology) that makes the screen much more brighter in order to provide superior display performance, especially for movies and picture display. Maximum resolution of XGA 1024 x 768 is ideal for displaying complex graphics and high definition images. Other outstanding designs that enhance this LCD monitor's performance are Plug & Play compatibility, audio system, A/V input, and users friendly OSD (On Screen Display) controls.

Package Contents

Included with your LCD monitor are following items
- 15″ TFT LCD monitor
- 15 pin D-sub signal cable
- AC power cable
- User's manual
- Sound Card Cable
- Adaptor & AC Cord

Product Features

- High contrast color TFT LCD display support resolution up to XGA 1024 x 768.
- Compatible with IBM VGA, VESA, and Macintosh standards.
- Imbedded audio system provides sound performance.
- 2 AV-IN and S-video use.
- Audio-1, Audio-2, and PC line in sound application.
- Power management system conforms to VESA DPMS standard.
- Support DDC1/2B for Plug & Play compatibility.
- Advanced OSD control for picture quality adjustment.
- Detachable stand for wall-mounting application.

Cleaning

- Gently wipe screen with a clean camel hair lens brush, or a soft, clean, lint-free cloth. This removes dust and other particles that can scratch the screen.
- Do not apply pressure to the screen surface when wiping it clean.
- Do not pour or spray any liquid directly onto the screen or case of the LCD monitor. Chemical cleaners have been reported to damage the screen or case of the LCD monitor.

Control Function

Control Button Front View

3.Power LED

4.OSD Menu /Select

6.Decrease

5.Increase

2.Earphone
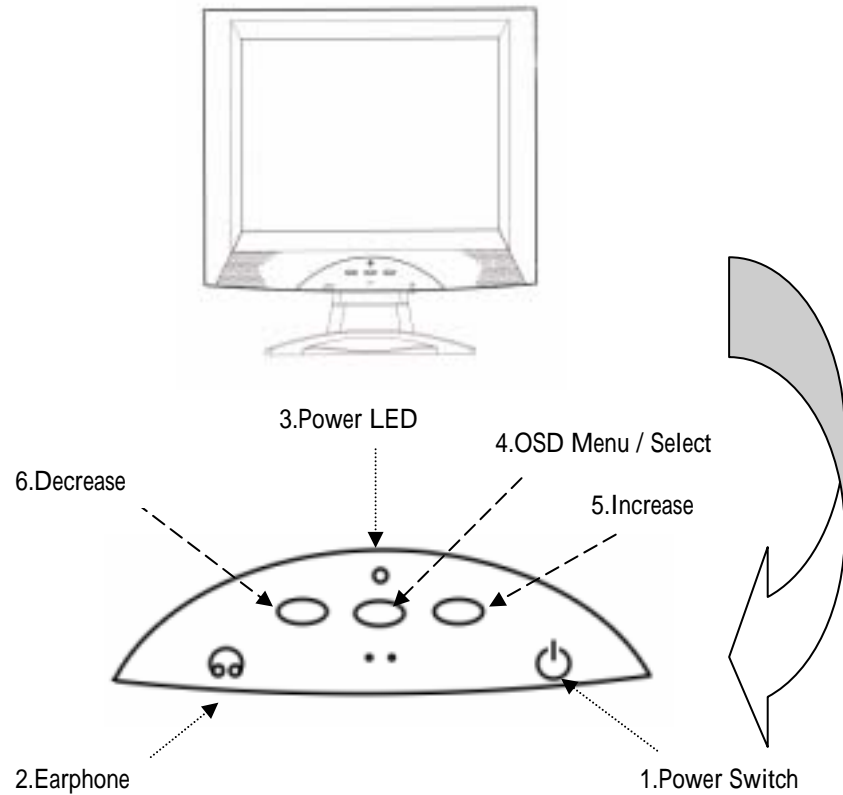
1.Power Switch

1.Power Switch   Pressing this button turns the display system power on or off.

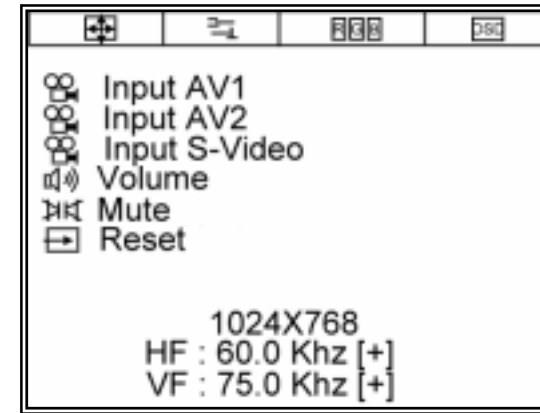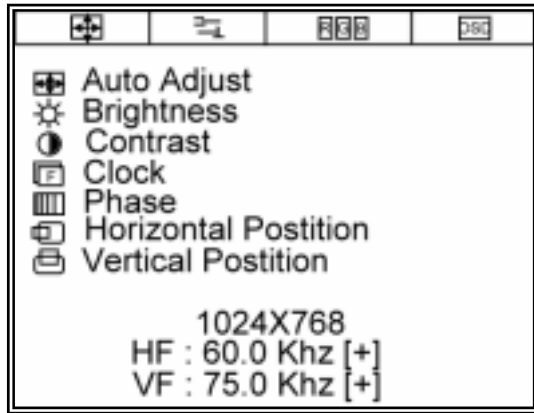2.Earphone   This input would offer users another better choice in using a monitor without disturbing others.

3.Power LED   This Power LED indicates different status when this unit operates in different modes.

4.OSD Menu / Select   Pressing this button pops up the OSD menus on the screen, and used to select the OSD control options on the screen.

5.Increase   This button is used to adjust the increasing value of selected OSD control option.

6.Decrease   This button is used to adjust the decreasing value of selected OSD control option.

<u>OSD</u>

| ⊞ | ⊒ | ▨▨▨ | ▨▨ |

⊞ Auto Adjust
☼ Brightness
◑ Contrast
▣ Clock
▥ Phase
▤ Horizontal Postition
▤ Vertical Postition

1024X768
HF : 60.0 Khz [+]
VF : 75.0 Khz [+]

| ⊞ | ⊒ | ▨▨▨ | ▨▨ |

🎥 Input AV1
🎥 Input AV2
🎥 Input S-Video
🔊 Volume
⊯⊰ Mute
⊟ Reset

1024X768
HF : 60.0 Khz [+]
VF : 75.0 Khz [+]

⊞ <u>Monitor Function Selection Menu</u>

⊞ Auto Adjust   Select this function can make the monitor have best efficiency

☼ Brightness   Adjust the brightness using   and   buttons.

◑ Contrast   Adjust the contrast using   and   buttons

▣ Clock   Adjust the clock using   and   buttons

▥ Phase   Adjust the phase using   and   buttons

▤ Horizontal Position   Pressing   moves the display image to right;   Pressing

moves the display image to left

▤ Vertical Position   Pressing   moves the display image upward; Pressing

moves the display image downward

⊒ <u>Tools Menu</u>

🎥 Input AV1: 1st Video-out connector of any image resource

🎥 Input AV2   2nd Video-out connector of any image resource

🎥 Input S-Video   S Video-out connector of any image resource

🔊 Volume   Adjust the volume using   and   buttons

⊯⊰ Mute   Mute function.

⊟ Reset   reset function.
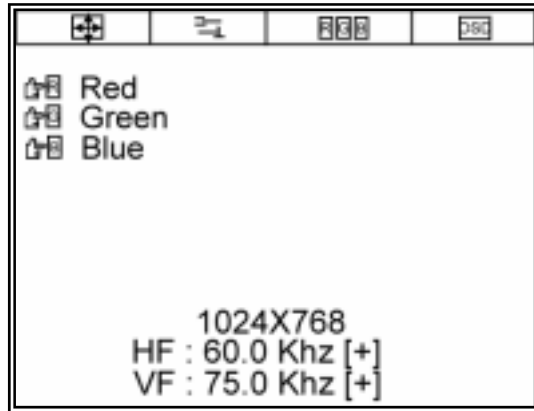
RGB Adjusting Menu

Red   Red Range

Green   Green Range

Blue   Blue Range
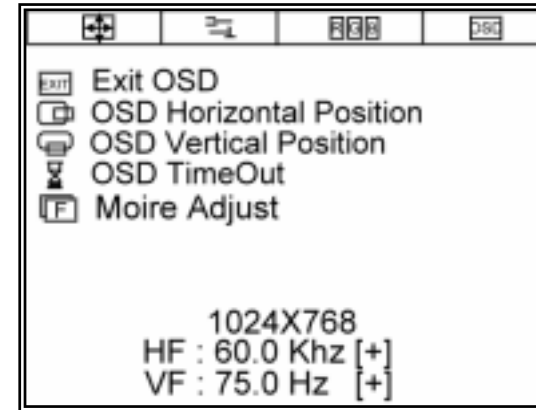
OSD Function Selection Menu

Exit OSD   Exit the OSD function selection menu.

OSD Horizontal Position   Pressing   moves the OSD menu to right; Pressing

moves the OSD menu to left

OSD Vertical Position   Pressing   moves the OSD menu upward; Pressing

moves the OSD menu downward

OSD Time Out   Set the OSD time

Moiré Adjust   Set panel moiré degrees and noise.

Inputs Diagram
Inputs
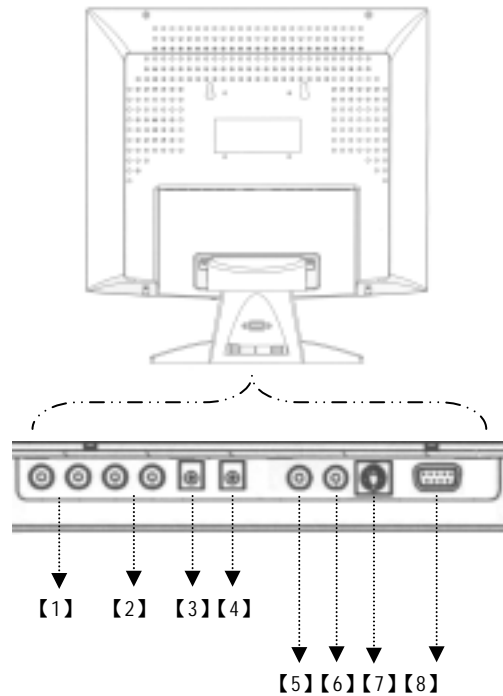
1   AUDIO1   This can be connected to the 1st audio-out connector of any sound resource.
2   AUDIO2   This can be connected to the 2nd audio-out connector of any sound resource.
3   LINE IN   This can be connected to the 3rd audio-out connector of any sound resource.
4   DC IN   This is for connecting the power cable.
5   VIDEO1   This can be connected to the 1st video-out connector of any video resource.
6   VIDEO2   This can be connected to the 2nd video-out connector of any video resource.
7   S-VIDEO   This can be connected to the 3rd video-out connector of any video resource.
8   PC IN   This can be connected with the D-Sub 15 pin signal connector.

Precautions

- Read all of these instructions and save them for later use.
- Follow all warnings and instructions on the product.

Product
- Do not cover block the vent holes in the case.
- Do not insert sharp objects or spill liquid into the LCD monitor through cabinet slots. They may cause accidents, fire, electric shock or failure.
- Disconnect the power plug from the AC outlet if you will not use it for an indefinite period.
- Do not attempt to service this product yourself, by opening or removing covers may expose you to dangerous voltage points or other risks.
- Do not touch the screen directly with your fingers. You may damage the screen, and oil from your skin in difficult to remove.
- Do not apply pressure to screen. The LCD is a very delicate product.

Power
- Use the type of power indicated on the marked label.

Plugs
- Do not remove any of the prongs of the monitor's three-pronged power plug.
- Disconnect the power plug from the AC outlet under following conditions
- If you will not use it for an indefinite period time.
- When the power cord or plug is damaged or frayed.
- If the product does not operate properly, adjust only those controls that are mentioned in the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
- If the product has been dropped or the cabinet has been damaged.
- If the product exhibits a distinct change in performance, indicating a need for service.
- Power and extension cords
- Do not allow anything to rest on the power cord.

- Do not locate this product where persons will walk on the cord.
- Use the proper power cord with correct attachment plug type. If the power source is 120V AC, use a power cord that has UL and C-UL approvals. If the power source is a 240V AC supply, use the tandem (T blade) type attachment plug with ground conductor power cord that meets the respective European country's safety regulations, such as VDE for Germany.
- Do not overload wall outlets or power cords. Ensure that the total of all units plugged into the wall outlet does not exceed 10 amperes.
- Ensure that the total ampere ratings on all units plugged into the extension cord is not above the cord's rating.
- If the power supply cord, which came with your monitor, is to be connected to the PC instead of the wall outlet, this equipment is to be used with UL/TÜV approved computers with receptacle rated 100~240V AC, 50/60Hz, 1.0A(minimum).

Environment
- Place the monitor on a flat and leveled surface.
- Place the monitor in a will-ventilated place.
- Keep the monitor away from the following:
  Do not place unit in extreme hot, cold or humid environment and do not place it directly under sunlight, dusty surroundings, equipment that generate strong magnetic fields.
- Please adjust the frequency to 75 Hz after setting up the LCD monitor.
- Then push the OSD menu button and use the Auto Adjust function to fine the best mode of your computer.

Display Angle

Tilting

For viewing clarity, you can tile the LCD forward up to 3 degrees or backward up to 15 degrees.

Down 3°

Right 40°   Left 40°

Up 15°
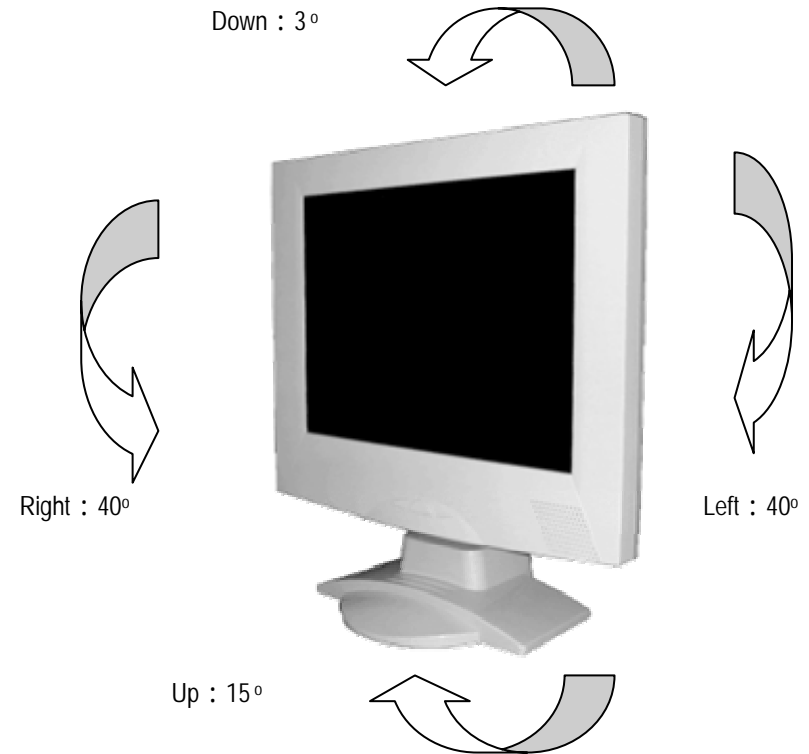
Product Specification

Spec \ Type	PC	SPEAKER	AV
LCD Display	15″ active matrix TFT LCD panel		
Pixel Pitch	0.297(H) x 0.297(V) mm		
Max. Resolution	1024(H) x 768(V) XGA		
Set Size	418(H) x 399(V) x 201(D) mm		
Pack Size	480(H) x 450(V) x 230(D) mm		
Contrast Ratio	150:1~400:1		
Brightness	500 ~ 1000 cd/m2		
Response Time	20~50ms		
Display Color	16.777 M		
View Angle L+/R-	±60°~±80°		
U+/D-	±50°~±60°		
Pc Interface	RGB analog 0.7V peak to peak		
Video Sync.	TTL positive or negative		
Display Mode	VGA, SVGA, XGA		
Audio-in	None	Phone jack	RCA (x 2)
Video-in	None	None	S & RCA (x2)
Signal Connector	D-sub 15 pin		
Front Control	Power on/off with LED, OSD Menu, +/-Adjustment		
OSD	Contrast, Brightness, Auto Adjust, Clock, Phase, H-Position, V-Position Input: Pc / AV1 / AV2 / S-Video (AV)		
Power Adapter	AC Input: 100-240V~1.5A, 50-60Hz DC Output: 12V / 5.0A		
Operating Conditions	Temperature: 0 ~35 Humidity: 20%~95%		
Storage Conditions	Temperature: -20 ~60 Humidity: 5%~95%		
Certification	FCC (DOC), CE-B, VCC-I, UL, TUV/GS		
Weight	Net Weight 4.66Kgs, Gross Weight 6.66Kgs		

Display Modes

Mode	Resolution	H Freq (kHz)	V Freq (Hz)
1	640 x 350	31.469	70.087
2	640 x 400	24.823	56.416
3	640 x 400	31.469	70.087
4	640 x 480	31.469	59.940
5	640 x 480	35.000	66.667
6	640 x 480	37.861	72.809
7	640 x 480	37.500	75.000
8	720 x 400	31.469	70.087
9	800 x 600	35.156	56.250
10	800 x 600	37.879	60.317
11	800 x 600	48.077	72.188
12	800 x 600	46.875	75.000
13	832 x 624	49.107	75.087
14	1024 x 768	48.363	60.004
15	1024 x 768	56.476	70.069
16	1024 x 768	60.023	75.029

Service Information

Service

Please review the warranty information located on the back of the Quick Start Guide or contact your local authorized distributor/retailer.

Appendices

Troubleshooting

If you are experiencing trouble with your LCD display, please refer to the following.

If the problem persists, please contact your local dealer or our service center.

Note: For best viewing image effect, please set resolution at 1024x768

Problem: No signal

Ensure all cables and power connections are correctly and securely connected.

Check the power LED light is in "green" color.

Make sure the computer is on.

Press the OSD "Auto Setup" for best view result.

Problem: Image is out of focus

Adjust "Phase" function inside the OSD until the image is focused.