

Color TFT LCD Monitor

User's Manual

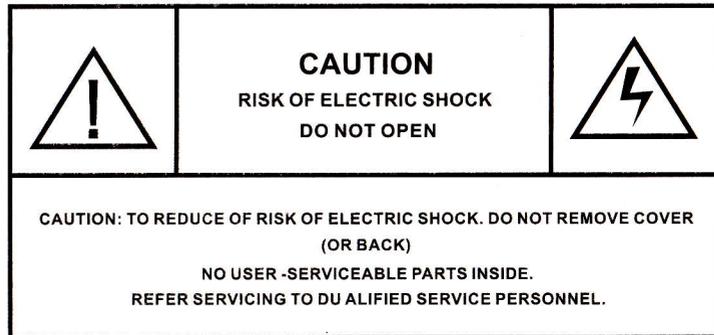
Important Notice: Please read this manual carefully

Precautions

Read all these instructions and save them for later use.

Follow all warnings and instructions on the product.

1. Do not cover or block the ventilation holes in the case.
2. Do not insert sharp objects or spill liquid into the LCD monitor through cabinet slots. It may cause accidental fire, electric shock or failure.
3. Unplug the power plug when not in use for an extended period of time.
4. Do not attempt to service this product yourself, as opening or removing the cover may expose you to dangerous voltage points or other risks. Only a qualified technician should service this product.
5. Do not touch the screen directly with your fingers. You may damage the screen, and the grease from your skin is hard to remove.
6. Do not apply pressure to the screen, the LCD is very delicate.
7. Keep the monitor away from overly heat, cold or humid places.
8. Do not place it nakedly under sunlight, in dusty surroundings or near equipment that generates strong magnetic fields.



Introduction

Product Description

Thank you for purchasing the Flat Panel TFT-LCD Color Monitor. It combines the features of a MONITOR with a THIN FILM TRANSISTOR liquid crystal display (TFT-LCD). This new generation of TFT-LCD monitor incorporates high quality display into a small light weighted module.

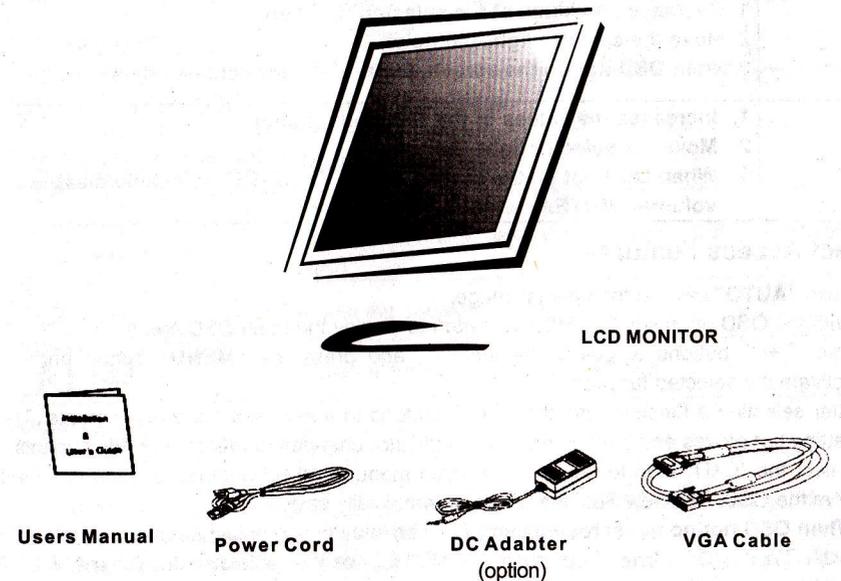
※ Unlike CRT display, the LCD panel has a fixed format over a set area. So for best performance the "native resolution" setting is recommended.

For 17" and 19" LCD monitor: The native resolution of the LCD panel is 1280×1024.

Recommended resolution is 1280×1024 @ 60Hz or 1024×768 @ 60Hz

Package Contents

Please check the Package of TFT-LCD Monitor, to confirm the following items are contained.



Menu Operating Instructions

Your LCD monitor allows you to easily adjust the characteristics of the image being displayed. All of these adjustments are made using the control buttons on the front of the monitor. While you use these buttons to adjust the controls, the OSD (On Screen Display) shows you their numeric values as they change.

AUTO	<ol style="list-style-type: none"> 1. Auto adjusting for an optimal image. (Standard: For PC Only Model) 2. Change Input Signal.(Option: For PC+AV Model)
MENU	<ol style="list-style-type: none"> 1. Opens the OSD.(On Screen Display) 2. Select the highlighted function.
POWER	<ol style="list-style-type: none"> 1. Turns ON/OFF the monitor. 2. Indicates the status of the monitor. <ul style="list-style-type: none"> ●Green: Normal operation. ●Orange: Power saving mode or disconnected signal cable.
-	<ol style="list-style-type: none"> 1. Decrease the values of the selected function. 2. Move the selector light-bar down. 3. When OSD not on the screen, push "-" for volume adjust.
+	<ol style="list-style-type: none"> 1. Increases the values of the selected function. 2. Move the selector light-bar up. 3. When OSD not on the screen, push "+/MUTE" to enable/disable volume MUTE.

Direct Access Features

1. Push "AUTO" can get the optimal image.
2. With the OSD off, push the "MENU" button to display the main OSD menu.
3. Use "+/-" buttons to select the function, and press the "MENU" button once to activate the selected function.
4. after selecting a function, use the "+/-" buttons to make necessary adjustments. The setting bar moves and the numeric value indicator changes to reflect your adjustments.
5. Select the "EXIT" icon to return to the main menu to select another function or to exit from the OSD. The new Settings will be automatically saved.
6. **When OSD not on the screen** :push "-" can into volume adjust function.
push "+/MUTE" can enable/disable volume MUTE function
7. **※ For PC+AV Model**: push "AUTO" can change input signal (PC/CVBS/S-Video).

On Screen display (OSD)

Functions Adjustment

Item	Description
 AUTO SETUP	Automatically adjust for an optimal image.※
 BRIGHTNESS	Adjust the brightness scale.
 CONTRAST	Adjust the contrast scale.
 DISPLAY ADJUST	Adjust the horizontal, vertical, frequency, and phase scale.
 COLOR TEMPERATURE	To select the 9300K, 7500K,6500K,and RGB color temperature.
 LANGUAGE	Adjust OSD language.
 OSD DISPLAY	Adjust OSD display.
 VGA/DVI	Select Analog or Digital signal input (The function only work on DVI model with DVI graphic card)
 AUDIO	Adjust the speaker volume.
 RECALL	Reset all functions to factory settings
 EXIT	Exit the OSD.

- ※ Normally, for VGA analog signal input, after "AUTO SETUP" can get the optimal image performance. No necessary to manual adjust.
- ※ When DVI digital signal input, "AUTO SETUP" and "DISPLAY ADJUST" function is not necessary, The image performance depends on your graphic card.

Display Modes

Mode	Resolution	Vertical frequency (Refresh Rate)
1	720×400	60 Hz
2	720×400	70 Hz
3	640×480	60 Hz
4	640×480	72 Hz
5	640×480	75 Hz
6	800×600	60 Hz
7	800×600	72 Hz
8	800×600	75 Hz
9	1024×768	60 Hz
10	1024×768	70 Hz
11	1024×768	72 Hz
12	1024×768	75 Hz
13	1280×1024	60 Hz
14	1280×1024	75 Hz

※ For Wide Model:

Besides Mode 1~14,also support these modes.			
15	1280×768	60Hz	
16	1280×768	75Hz	
17	1440×900	60Hz	for 19" w&18.5"
18	1366x768	60Hz	
19	1680×1050	60Hz	Only for 22"
20	1680×1050	75Hz	

To set the time Mode:

- Set the resolution:** Right click on the Windows® desktop →choose Properties→ Choose Settings →set the resolution.
- Set the refresh rate:** See your graphic card's user guide for instructions.

Specification

Item	Description		
	15"	17"	18.5"
Display Size	15"	17"	18.5"
Active Area	304(H)x228(V)mm	338(H)x270(V)mm	409.8(H)x230.4(V)mm
Maximum Resolution	1024x768	1280x1024	1366X768
Pixis Pitch	0.297mm	0.264mm	0.3mm
Aspect Ratio	4:3	4:3	16:9
Display Colors	16.2M	16.7M	16.7M
Brightness(Typ.)	250cd/m ²	300cd/m ²	300cd/m ²
Contrast Ratio	350:1	450:1	700:1
Response Time	8ms	8ms	8ms
View Angle	120°(H)/110°(V)	130°(H)/120°(V)	150°(H)/130°(V)
Vertical Frequency	60-75Hz	60-75Hz	60-75Hz
Horizontal Frequency	31.5~69KHz	31.5~80KHz	31.5~80KHz
Display Model	VGA.SVGA.XGA	CGA.VGA.SVGA.XGA.S XGA	CGA.VGA.SVGA.XGA.S XGA . WXGA
Signal Interface(standard)	D-Sub(Analog)		
Signal Interface(option)	/		
Power Consumption (Operation)	<30W	<48W	<48W
Power Consumption(saving)	<2W	<3W	<3W
Power Supply	DC 12V/3A	DC 12V/4A	100-240V AC 50/60Hz
OSD Language	Multi-language		
Speaker(option)	2Wx2		
Operation Environment	Temperature 0°C-50°C Humidity 20%-80%		
Store Environment	Temperature -20°C-60°C Humidity 20%-80%		

Specification

Item	Description	
	19" (W)	22" (W)
Display Size	19" (W)	22" (W)
Active Area	410(H)x256(V)mm	473(H)x296(V)mm
Maximum Resolution	1440x900	1680x1050
Pixls Pitch	0.285mm	0.282mm
Aspect Ratio	16:10	16:10
Display Colors	16.7M	16.7M
Brightness(Typ.)	300cd/m ²	300cd/m ²
Contrast Ratio	450:1	600:1
Response Time	8ms	8ms
View Angle	150°(H)/130°(V)	170°(H)/160°(V)
Vertical Frequency	60-75Hz	60Hz
Horizontal Frequency	31.5~70KHz	31.5~82KHz
Display Model	CGA. SVGA.XGA.SXGA.WXGA+	VGA. SVGA.XGA.SXGA.WXGA+
Signal Interface(standard)	D-Sub(Analog)	
Signal Interface(option)	DVI-D(Digital)or AV-input(RCA.S-Video)	
Power Consumption (Operation)	<48W	<55W
Power Consumption(saving)	<3W	<5W
Power Supply	DC 12V/4A	DC 12V/5A
OSD Language	Multi-language	
Speaker(option)	2Wx2	
Operation Environment	Temperature 0°C-50°C Humidity 20%-80%	
Store Environment	Temperature -20°C-60°C Humidity 20%-80%	

Cleaning Notice

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

Troubleshooting

※ LCD Pixel Statement

The LCD unit is produced with high-precision manufacturing techniques. Nevertheless, some pixels may occasionally misfire or appear as black or colored dots. This has no effect on the recorded image and does not constitute a malfunction. Normally, a 17" SXGA(1280×1024) display has nearly 4 million sub-pixels. There are 8 non-performing pixels on the LCD screen, which is only 0.0002% of the total sub-pixels. This percentage is acceptable for any inspection specifications.

There is no picture on the screen.

A: Please check the color of the LED indicator on the LCD monitor.

- 1、 "GREEN": During normal operation the LED light will be green. If it is green and there is no picture contact the customer service line.
- 2、 "ORANGE": Please check the connection of the VGA cable to the monitor and the connection to the computer.
- 3、 "NO POWER": Make sure the power cord is securely connected to the adapter and the light on the Adapter is green.

Missing Colors

A: If any of the red, green, or blue colors are missing, check the signal cable to make sure it is tightened correctly. The pins the cable could be loose and cause a bad connection.

No Image

- A: 1、 Make sure power button is ON.
2、 Check whether the LCD monitor and computer power cords are connected and whether there is a supply of power.

No Signal Input

A: Check the signal connection between the computer and LCD monitor.

· **Image too bright /Image too dark**

A: Adjust brightness and contrast by OSD.

· **Irregular Image**

- A: 1、 Check the signal connection between the computer and LCD monitor .
2、 Perform Auto Adjust .

· **Distorted Image**

A: Reset the LCD monitor. (Perform the "Recall" function by OSD)

· **Image is not centered /size is not appropriate**

- A: 1、 Use OSD Image Menu to adjust H. Position and V. Position.
2、 Check image size setting .
3、 Perform Auto Adjust .

· **Uneven color / color too dark /Dark area distorted / White color is not white**

A: Use OSD Color Temperature Menu to adjust color setting.

· **No sound**

- A: 1、 Check the audio signal cable connection between the computer and LCD monitor .
2、 Maybe mis-press the "+"button to disable the volume MUTE function.