

Specification of 17" LCD Monitor
(Data Sheet / Version 1.0)

Model Name : YJE-M170-XXX

Mar. 2005

IMPORTANT SAFETY INSTRUCTIONS

1. Please read these instructions carefully before using the product and save for later reference..
2. Follow all warnings and instructions marked on the product.
3. Unplug this product from the wall outlet before cleaning. Clean the product with a damp soft cloth. Do not use liquid or aerosol cleaners as it may cause permanent damage to the screen.
4. Do not use this product near water.
5. Do not place this product on an unstable cart, stand, or table.
The product may fall, causing serious damage to the product.
6. Slots and openings in the cabinet and the back or bottom are provided for ventilation; to ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered.
The openings should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation is provided.
7. This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
8. This product is equipped with a 3-wire grounding type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet.
Do not defeat the purpose of the grounding-type plug.
9. Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on the cord.
10. If an extension cord is used with this product, make sure that the total of the ampere ratings on the products plugged into the extension cord does not exceed the extension cord ampere rating. Also make sure that the total of all products plugged into the wall outlet does not exceed 15 amps.
11. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.
12. Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks and will void the warranty. Refer all servicing to qualified service personnel.
13. Unplug this product from the wall outlet and refer servicing to qualified

service personnel under the following conditions:

- a. When the power cord or plug is damaged or frayed.
- b. If liquid has been spilled into the product.
- c. If the product has been exposed to rain or water.
- d. If the product does not operate normally when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions since 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.
- e. If the product has been dropped or the cabinet has been damaged.
- f. If the product exhibits a distinct change in performance, indicating a need for service.

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1. Introduction

1-1 About the product

This product is a microprocessor-controlled, 17" VGA TFT color LCD monitor. It is designed to meet the demanding performance requirements of today's business and industrial applications.

1-2 Notice

1. Do not touch the LCD panel surface with sharp or hard objects.
2. Do not use abrasive cleaners, waxes or solvents for cleaning, use only a dry or damp, soft cloth.
3. Use only with a high quality, safety-approved, AC/DC power adapter.

1-3 Check List

Before using this monitor, please make sure that all the items listed below are present in your package

Analog color TFT LCD monitor

Accessory Box containing:

1. VGA cable x1
2. AC to DC adapter x1
3. Power cable x1
4. User manual x1

If any items are missing or damaged, please contact your dealer immediately.

2. Installing the Monitor

The procedures for setting up your TFT LCD monitor are as followings:

2-1 Power & Signal connections (Figure-1)

2-1-1. Power:

Switch off the power of your monitor and computer.
The Power Switch is located on in the center of the monitor.

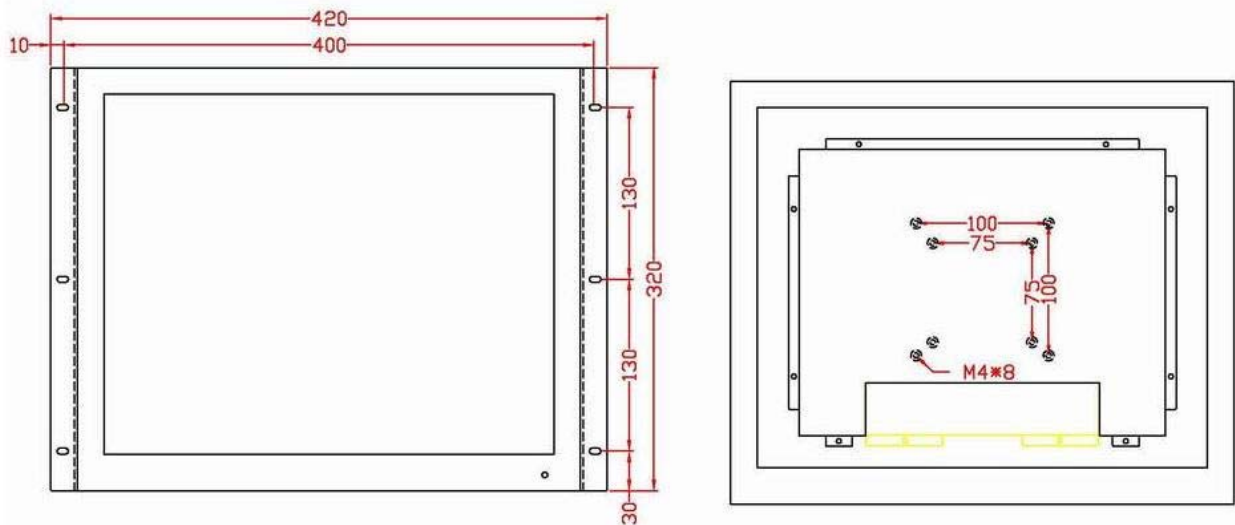
2-1-2. Power cable connection:

Connect the power cord to the AC outlet, and connect the power to the monitor through the AC/DC adapter.

2-1-3. Signal cable connection:

Plug one end of the 15-pin signal cable to the video signal connector at the rear of the PC system and the other end to the monitor.

Secure the connectors with the screws on the cable connector at both ends.



2-2 Optional connections:

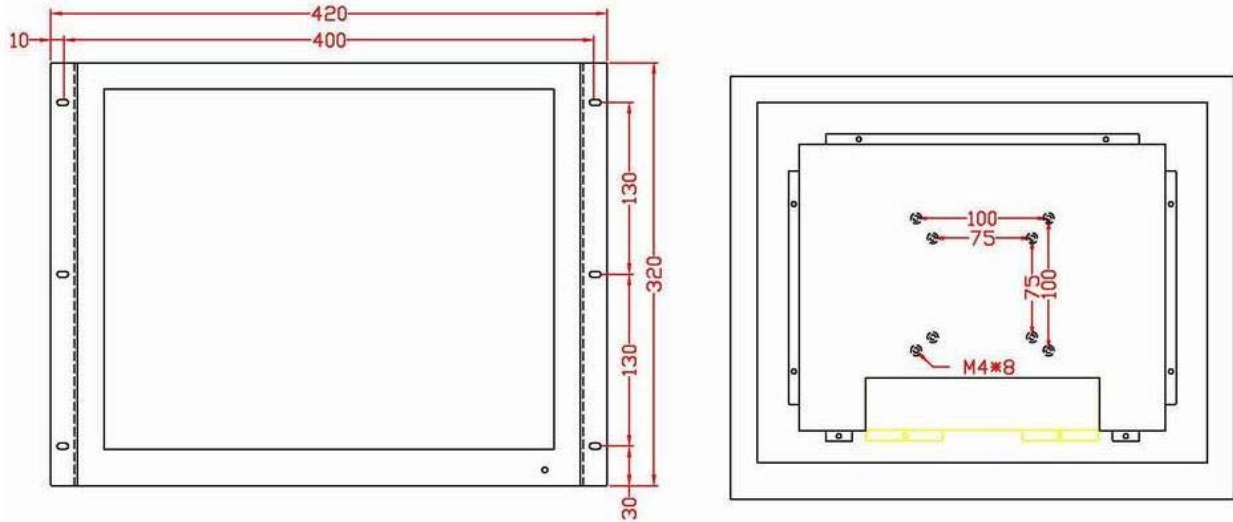
The LCD monitor is designed to work with a variety of compatible video sources. Due to possible deviations between these video sources, you may have to make some adjustments to the monitor settings when switching between these sources. These adjustments are made from the OSD menu.

3. Using VGA LCD Monitor


3-1 Control Functions

The monitor controls are located on the lower front side of the panel. They are shown in the figure below and described in the following paragraphs.


Stand I



3-2 Key Definition

1. 

Use this key to select the function you would like: Video or VGA.

2. Menu 

Use this key, the menu will pop up, then select the item to adjust.
Use this key to select the item you would like to adjust.


3. POWER 

Use the power switch to turn the power ON or OFF. We recommend turning on your PC system power at first, then the LCD monitor.

4. Up / 

Auto






Press  for menu to confirm the item. Press +/- to adjust.

Press  for Auto Tune.

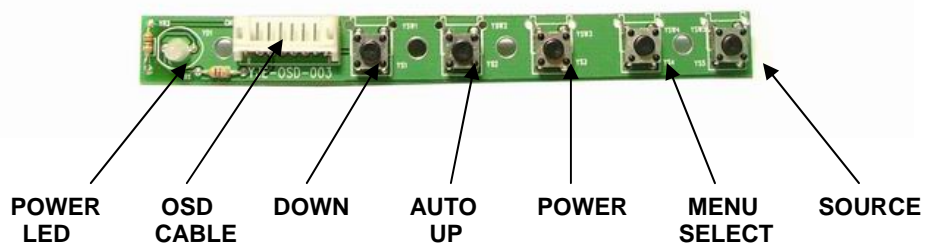
5. Power On LCD

Indicates when the power is in the ON position.

The Control Key Description








1.  : Press this key will be change Video or VGA function. (Press this key, the Video or VGA function will be changed)
2.  : Press this key, the menu will pop up.
3.  : Power Switch
4.  : Adjust UP and Auto tune
5.  : Adjust DOWN.

The Hot key Description (Before the OSD screen coming)



1. Power on LED.
2. Adjust Down
3. Adjust Up or Auto tune
4. Power Switch
5. Adjust main menu
6. Adjust Video or VGA mode.

3-3 MAIN OSD SCREEN

 Realtek	1280 x 1024 60Hz			
 Color	Contrast	50	- <input type="text"/>	+
 Picture	Brightness	50	- <input type="text"/>	+
 Function	Gamma	0	1	2 3
 OSD Menu	Color Temp	9300	6500	5800 User
 Misc	Color Adjust			
 Exit	Exit			

3-4-1 Color

Contrast :

Adjust the contrast of the screen. Press “+” to increase or “-“ to decrease.

Brightness :

Adjust the screen brightness. Press “+” to increase or “-“ to decrease.

Adjust the brightness of the screen

Gamma :

Press “+” or “-“ to adjust Gamma Function.

Color Temp:

Press “+” or “-“ to set the color temperature








- 9300 : Set monitor for the CIE coordinate 9300 color temperature.
- 6500 : Set monitor for the CIE coordinate 6500 color temperature.
- 5500 : Set monitor for the CIE coordinate 5500 color temperature.
- User : Use this function to set a the color temperature to suit you own preference.

Color Adjust :

Press “+” or “-“ to adjust R.G.B.

Exit :

Back to main menu.

 Realtek	1280 x 1024 60Hz	
 Color	H. Position	50 - <input type="text"/> +
 Picture	V. Position	50 - <input type="text"/> +
 Function	Phase.	50 - <input type="text"/> +
 OSD Menu	Clock	50 - <input type="text"/> +
 Misc	Sharpness	1 2 3 4 5
 Exit	Exit	

3-4-2 Picture

H. Position :

Press “+” or “-“ to move the image to the left or right on the screen.

V. Position :

Press “+” or “-“ to move the image upward or downward on the screen.

Phase :

Press “+” or “-“ button to adjust the phase control. Phase adjustment may be required to optimize the display quality.

Clock :








Press “+” or “-“ to increase or decrease the horizontal screen size.

Sharpness :

Adjust the Sharpness.

Exit :

Back to main menu.

 Realtek	1280 x 1024 60Hz		
 Color	Auto Adjust	Yes	No
 Picture	Auto Color	Yes	No
 Function	Exit		
 OSD Menu			
 Misc			
 Exit			

3-4-3 Function

Auto Adjust :








Adjust auto adjust.

Auto Color :

Adjust auto color.

Exit :

Back to main menu.

 Realtek	1280 x 1024 60Hz		
 Color	Auto Adjust	Yes	No
 Picture	Auto Color	Yes	No
 Function	Exit		
 OSD Menu			
 Misc			
 Exit			

3-4-4 Function

Auto Adjust :








Adjust auto adjust.

Auto Color :

Adjust auto color.

Exit :

Back to main menu.

 Realtek	1280 x 1024 60Hz	
 Color	Language	
 Picture	OSD. H.Pos.	50 - <input type="text"/> +
 Function	OSD. V.Pos.	50 - <input type="text"/> +
 OSD Menu	OSD Timer	ON OFF
 Misc	Translucent	50 - <input type="text"/> +
 Exit	Exit	

3-4-4 OSD Menu

Language :

Press “+” or “-“ to Language select.

OSD. H.Pos. :

Press “+” or “-“ to move the OSD menu to the left or right on the screen.

OSD. V.Pos. :








Press “+” or “-“ to move the OSD menu upward or downward on the screen.

Tranlucent :

Press “+” or “-“ to adjust the OSD menu’s transparence.

Exit :

Back to main menu

 Realtek	1280 x 1024 60Hz		
 Color	Signal Source		
 Picture	Mode Select	640 x 480	720 x 400
 Function	Reset		
 OSD Menu	Exit		
 Misc			
 Exit			

3-4-5 Misc

Signal Source :

Adjust the signal out-port.

Mode Select :








Select the display resolution.

Reset :

Reset the factory default settings.

Exit :

Back to main menu.

 Realtek	1280 x 1024 Hz
 Color	
 Picture	
 Function	
 OSD Menu	
 Misc	
 Exit	Exit

Exit :
Exit the OSD Menu

4. Specifications (17")

Item	Specification
Panel Type	AU 17-inch TFT LCD
Viewable Size Image	17-inch
Active Display Area (mm)	337.920 (H) x 270.336 (V)
Pixel Pitch (mm)	0.264 (H) x 0.264 (V)
Number of Pixels	1280 x 1024
Contrast Ratio	450 : 1
Display Color	16.2M colors
Brightness (cd/m ²)	260 cd/m ²
Viewing Angle	-70 ~ +70 (H) ; -70 ~ +70 (V)
Synchronization Range Horizontal / Vertical	31.5 ~ 68 KHz / 56 ~ 75 Hz
Recommended Resolution	1280 x 1024 @60Hz, 75Hz
Signal Connector	15 PIN D-Sub
Power Source	AC100 ~ 240V, Universal +/- 10%
Power Consumption	33 Watt Typical, Normal operation
Power Management	VESA DPMS Compliant
Plug & Play	VESA DDC 1/2B
Optional Touch Screen	Resistive, Capacitive

*Specifications are subject to change without notice**

The LCD Products listed on this document are not suitable for use in aerospace, submarine, nuclear reactor control systems or life support systems. If customers intend to use these LCD products for this type of mission critical applications they should contact our sales department for further input.

Suitable applications include, but are not limited to, the following: Computer and Office equipment, Communications equipment, Test and Measurement equipment, Machine tools, Industrial robots, Audio and Visual equipment.

5. Cleaning the Monitor

1. Make sure the monitor is turned off.
2. Never spray or pour any liquid directly onto the screen or case.
3. Wipe the screen with a clean, soft, lint-free cloth. This removes dust and other particles.
4. The display area is highly prone to be scratched. Do not use ketone-type material (ex. Acetone), Ethyl alcohol, toluene, ethyl acid or Methyl chloride to clean the panel. It may permanently damage the panel and void the warranty.
5. If it is still not clean enough, apply a small amount of non-ammonia, non-alcohol based glass cleaner onto a clean, soft, lint-free cloth, and wipe the screen.
6. Don't use water or oil directly on the monitor. If droplets are allowed to dry on the monitor, permanent staining or discoloration may occur.

6. Disclaimer

We do not recommend using any ammonia or alcohol-based cleaners on the monitor screen or case. Some chemical cleaners have been reported to damage the screen and/or case of the monitor. TTX will not be liable for damage resulting from the use of any ammonia or alcohol-based cleaner.

7. Trouble shooting

If your monitor fails to operate correctly, consult the following chart for possible solution before calling for repairs:

Condition	Check Point
1. The picture does not appear	<ul style="list-style-type: none"> ● Check if the signal cable is firmly seated in the socket. ● Check if the Power is ON at the computer ● Check if the brightness control is at the appropriate position, not at the Maximum .
2. The screen is not synchronized	<ul style="list-style-type: none"> ● Check if the signal cable is firmly seated in the socket. ● Check if the output level matches the input level of your computer. ● Make sure the signal timings of the computer system are within the specification of the monitor. ● If your computer was working with a CRT monitor, you should check the current signal timing and turn off your computer before you connect the VGA Cable to this monitor.
3. The position of the screen is not in the center	<ul style="list-style-type: none"> ● Adjust the H-position, and V-position, or Perform the Auto adjustment.
4. The screen is too bright (too dark).	<ul style="list-style-type: none"> ● Check if the brightness or contrast control is at the appropriate position, not at the Maximum (Minimum).
5. The screen is shaking or waving	<ul style="list-style-type: none"> ● Press "+" (the Auto - adjustment control) to adjust. Moving all the objects, which emit a magnetic field, such as motor or transformer, away from the monitor. Check if the specific voltage is applied. ● Check if the signal timing of the computer system is within the specification of monitor.

If you are unable to correct the fault by using this chart, stop using your monitor and contact your distributor or dealer for further assistance.

8. Appendix A:

Compatible modes:

The display has been designed to be compatible with a variety of computers. The Table below describes the display timing of the compatible modes.

8-1 Video Input Format

Input mode	Resolution	Zoom to 640X480	Zoom to 800X600	Zoom to 1024X768
XGA	1024x768	Scale down	Scale down	1:1
SVGA	800x600	Scale down	1:1	Scale up
VGA	640x480	1:1	Scale up	Scale up
DOS(TEXT)	640x400	Scale up	Scale up	Scale up
DOS(EGA)	640x350	Scale up	Scale up	Scale up
TEXT	720x400	640X400 mode	Scale up	Scale up
NTSC	720x(240x2)	De-interlaced	De-interlaced	De-interlaced
PAL	720x(288x2)	De-interlaced	De-interlaced	De-interlaced

8-2 Composite Video Input; Y/C Video input (S-Video)

Video Format	Resolution	Frequency	Country Support
NTSC-M	525X60	3.58MHZ	U.S., Japan, may others
PAL	625X50	4.43MHZ	China, Europe, may others

9. Appendix B:

Separate RGB Video Signal (VGA) Input Timing

Input Timing Range: H : 30-80KHz; V : 50-75Hz

Mode	Resolution	H-Freq.(KHz)	V-Freq.(Hz)
Model 1	640x350	31.47	70
Model 2	640x400	31.47	70
Model 3	640x480	31.47	60
Model 4	640x480	37.86	72
Model 5	640x480	37.5	75
Model 6	700x400	31.47	70
Model 7	800 x 600		
Model 8	1024 x 768		
Model 9	1280 x 1024		
Model 10	1400 x 1050		