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| TFT LCD MONITOR 17" USER'S MANUAL <h1>TU17VR</h1> - With Touch Screen (Optional) | | |

1. Introduction

With an LCD Panel Monitor using a TFT Color LCD, you can use TU17VR a substitution of general PC Monitor because it can receive the R.G.B input of PC VGA Signal. TU17VR has OSD Function in order to display the best quality of the screen according to VGA Cards' features. Besides, DVI, NTSC/PAL, S-Video Signals are available by option, and Touch Screen is also available by customer' s request, it can be usable simultaneously with PS/2 Mouse

Safety Precautions

The safety recommendations outlined in this section are to be read, understood and followed before operating the product. Keep this information in a safe place for future reference. Failure to comply with any of the following safety procedures could result in serious hazard.

- A. Do not operate product for any purposes other than its intended use.
- B. This product is intended for indoor use only.
- C. Do not operate product if power cord is damaged in any way.
- D. Do not insert object into openings.
- E. Do not immerse product in water or permit liquids to spill inside.
- F. Turn off power when attended or not in use unplug product before moving it or when it is not in use for an extended period of time.

Note : These specifications are subject to change for up-date without notification

2. Specifications

- Screen Size : 17.1" , 1280 x 1024 dots
- Active Area(mm) : 337.92 x 270.336
- Supporting Resolutions : Full display by zooming out on **VGA/SVGA/XGA/SXGA**
- Aspect Ratio : 4:3
- Max .Colors : 16,777,216 color
- Pixel Pitch (H x W) : 0.264 x 0.264 mm
- Luminance(cd/m²) : Typ. 250
- Contrast Ratio : Typ. 350 : 1
- Backlight Lifetime : Typ. 50,000 Hrs
- Viewing Angle : Horizontal ; Typ. 75°/75°
Vertical ; Typ. 65°/60°
- Response Time(ms) : Typ. 20
- Screen Adjustment : OSD (On Screen Display)
- Mount Type : Rack Mount
- Supporting Analog R.G.B signal (Analog VGA) input
- Supporting Digital signal (DVI : Digital Video Interface) input – (optional)
- Supporting Video signal (NTSC/PAL) input – (optional)
- Supporting Video signal (S-Video) input – (optional)
- Chassis Material : Steel
- RGB Input : 0.7Vpp ± 10%, 75 Ohms
- Input Rating : AC 100-240V @ 1.3-0.65A, 50/60Hz
- Ampere requirement : AC 100V @ 1.3A, AC 200V @ 0.65A, DC 12V @ 3.75A
- Power requirement : 45W
- Power Consumption : Max. 45W
- Power Saving Mode : Less than 3W
- Storage Temperature : -20 ~ 60°C
- Operating Temperature : 0 ~ 50
- Dimensions (W x H x D) : 483 x 354.8 x 80 mm
- Weight : 8.8 Kg
- Frequency : Hor. 15~60 KHz, Ver. 56~75 Hz

- Compatibility of Vertical Frequency

| PC | MODE | Vertical Frequency (Hz) |
|-----|---------------|-------------------------|
| IBM | 640 x 480 | 60 / 72 / 75 |
| | 800 x 600 | 56 / 60 / 72 / 75 |
| | 1024 x 768 | 60 / 70 / 75 |
| | 1280 x 1024 | 60 / 75 |
| | DOS 640 x 350 | 70 / 85 |
| | DOS 640 x 400 | 70 / 85 |
| | DOS 720 x 400 | 70 / 85 |

- Touch Screen - (Optional)

Touch Screen Type : Analog Resistive

5-Wire Type

Touch Screen Controller Interface : Serial (RS-232)

Touch Screen Drivers : MS-DOS, Windows 3.1/95/98/ME/NT/2000, Linux X Windows

3. OSD Functions

3.1 OSD KEY



* OSD Button : With pressing the button once, the OSD Screen is displayed. The button is used for closing Menu after adjusting each parameter value. The parameter values adjusted are automatically saved.

* SEL Button :The SEL button is used when selecting Menu or exiting from SUB Menu.

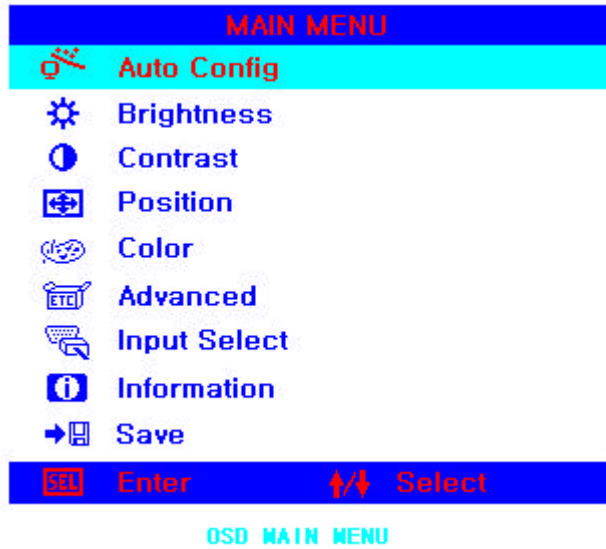
* RIGHT,LEFT Button


- UP/RIGHT :Used for moving BAR position to the rightside from Main Menu or increasing parameter value from SUB Menu.

- DOWN/LEFT :Used for moving BAR position to the leftside from Main Menu or decreasing parameter value from SUB Menu.

3.2 OSD Items

* The following OSD screen is shown with pressing OSD button.




 **Auto Config** : Automatic adjustment for sharpening screen image.



With selecting “ YES ” ,the text “ Auto Adjusting ” is displayed with black screen on the LCD.



 **Brightness** : Adjusts the black level of the backlight.



Contrast : Adjusts the contrast ratio of the image.



Position : Adjusts the screen position,ADC lock and phase.



- Horz. Position : Adjusts the screen position horizontally.



- Vertical Position : Adjusts the screen position vertically.



- Clock : Adjusts the value of clock per line.



- Phase : Adjusts ADC Sample pixel Clock



 **Color** : Adjusts the gain of each RGB



- Red : Adjusts the gain of Red.



- Green : Adjusts the gain of Green.



- Blue : Adjusts the gain of Blue.



 **Advanced**



- Factory Preset :Initializes setting values.



- DOS/GFX :Selects DOS Mode only.



- ON : 640 x 400 - OFF : 720 x 400

- OSD Time : Selects OSD time out.



- OSD H-Position : Adjusts OSD position horizontally.



- OSD V-Position : Adjusts OSD position vertically.



i Information : Indicates display information about the system.



Save : The adjusted parameter value is saved.




Input Select : Selects the mode the display.(optional)




- Analog : Analog R.G.B Input Select
- Digital : DVI(Digital Video Interface) Input Select
- Video : NTSC/PAL Video input Select
- S-Video : S-Video Input Select

* Video Menu : Adjusts and saves the parameter value related with video function from Video Menu.




 **Video Brightness** : Adjusts the black level of the backlight.




 **Video Contrast** : Adjusts the contrast ratio of the video image.




 **Hue** : Adjusts the combination of the Hue.




 **Saturation** : Adjusts the saturation of the screen.



 **H-Position** : Adjusts the screen position horizontally.



 **V-Position** : Adjusts the screen position vertically.



3.3 Warning Message

No Sync Mode : If there is not Analog RGB or Video input signal,the message “ No Sync ” is displayed.



Input Not Supported Mode : In case of detecting the mode that cannot be supported by LCD,the below message is displayed on black screen.In order to remove the phenomenon,it should be switched into the mode that can be supported by LCD.



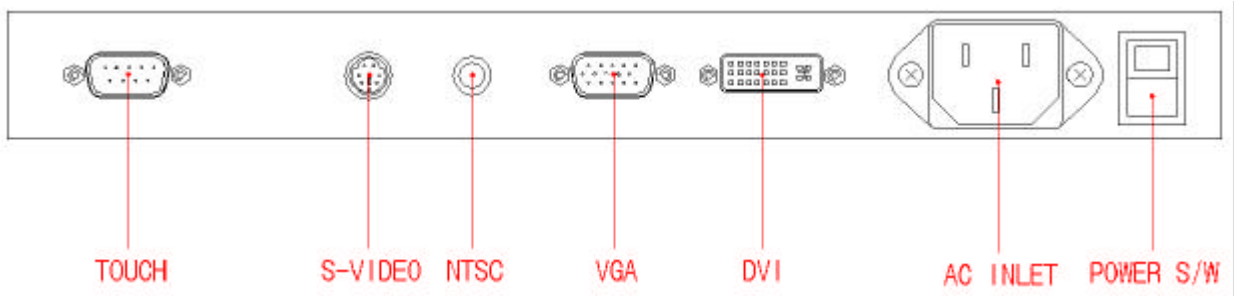
Input Not Supported

* Note : Please note that the OSD Menu is subjected to change without notice to improve its system.

3.4 How to set up the best display

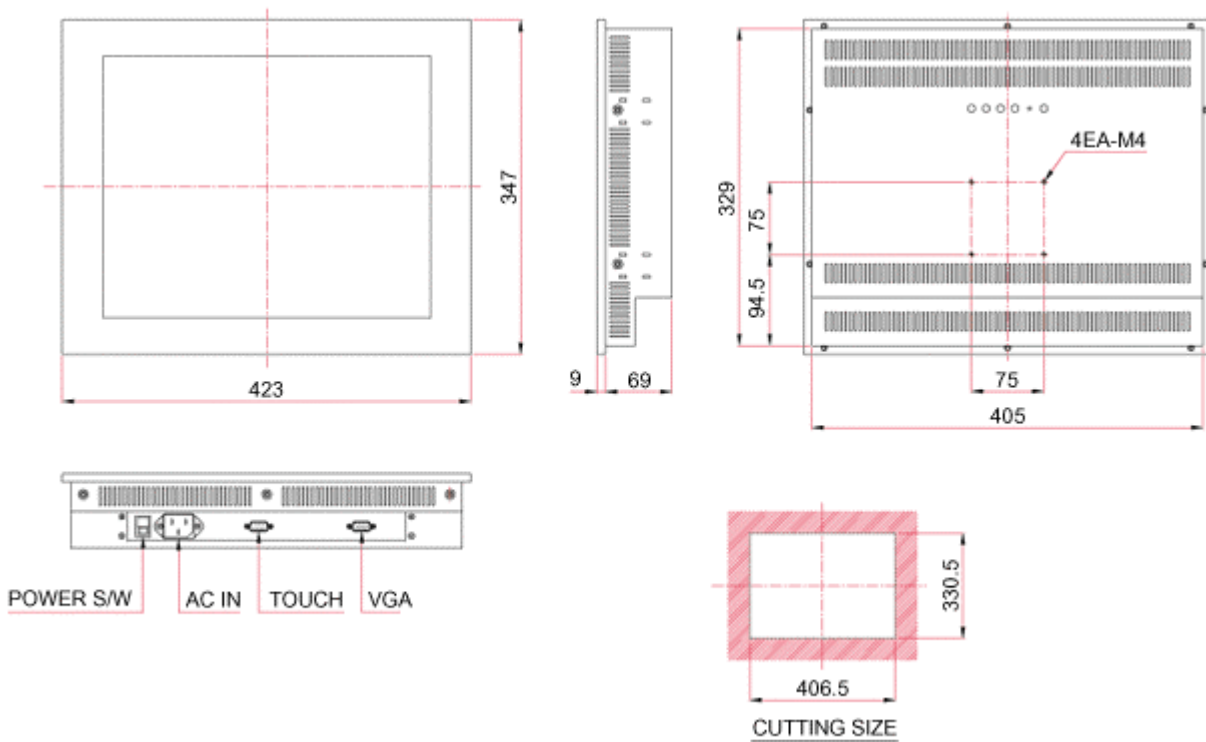
- The center of the screen and the best images will be set automatically by executing Auto Config function in OSD Menu from Full Graphic Screen.
- In case of not being satisfied with Auto Config, shut down the screen with clicking START ICON. Then press the OSD Menu button.
- The SUB Menu will be shown with selecting position by using DOWN/LEFT and UP/RIGHT keys from the OSD Menu.
- Adjusts the screen to fit with LCD viewing area by selecting H-POSITION and V-POSITION in SUB Menu.
- Remove the Vertical Bar of the screen by selecting CLOCK.
- Adjusts the screen to be the best by selecting PHASE.
- After completion of the adjustment, close the OSD screen first and select “ NO ” from SHUT DOWN screen, and then check the display quality.

4. Connectors



Touch, S-Video, NTSC/PAL, DVI is Optional

5. Dimensions



Appendix

1. Packing List

- LCD Monitor
- LCD Monitor Manual
- AC Power Inlet Cable
- VGA Cable
- Touch Cable (Optional)
- Touch Screen Install Diskette (Optional)
- Touch Screen User' s Manual (Optional)