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<b>TFT LCD Monitor</b>		<b>USER'S MANUAL</b>
<h1>6.4" TFT LCD Monitor</h1> <h2>Model No : TV06VP / TV06VP-T</h2> <p>- with Touch Screen (Optional)</p>		

## 1. Introduction

TV06VP is TFT 6.4" Monitor with Analog RGB input. Also it is easy to install it even small space, designed mainly for the industrial field.

This is widely applied to public information system, industrial machinery, building automation, and production line monitoring system, etc. Also, there is OSD function for adjusting display quality like CRTs.

Touch screen can be equipped by option if you want it instead of mouse. (Model No : TV06VP-T)

## 2. 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 : The socket-outlet shall be installed near the equipment and shall be easily accessible.

### 3. Specifications

- Screen Size : 6.4", 640 x 480 dots
- Active Area(mm) : 130.6 (H) x 97.9 (V)
- Supporting Resolutions : Full display by zooming out on **VGA**
- Driver Element : a-SI TFT active matrix
- Pixel Arrangement : RGB vertical stripe
- Display Mode : Normally white
- Surface treatment : Haze 13, Anti-glare & Hard – Coating (3H)
- Resolution : 640 x 480 dots
- Aspect Ratio : 4:3
- Max .Colors : 262,114 color
- Pixel Pitch (H x W) : 0.204 x 0.204 mm
- Luminance(cd/§ ) : Typ. 250
- Contrast Ratio : Min. 300 : 1
- Backlight Lifetime : Min. 20,000 Hrs
- Viewing Angle : Typ. Horizontal ; 45°/45°, Vertical ; 15°/35°
- Response Time(ms) : Typ. 15/30
- Screen Adjustment : OSD (On Screen Display) include Auto Adjustment compliant
- Mount Type : Panel Mount & Wall Mount & Stand Type & VESA Standard ARM Mount
- Supporting Analog R.G.B signal (Analog VGA) input
- Chassis Material : Front – Aluminum, Rear – Steel
- RGB Input : 0.7Vpp; 40%, 75 Ohms
- Input Rating : DC 12V @ 1.25A
- Ampere requirement : AC 100V @ 0.45A, AC 200V @ 0.23A, DC 12V @ 1.25A
- Power requirement : 15W
- Power Consumption : Max. 15W
- Power Saving Mode : Less than 3W
- Storage Temperature : -20 ~ 60°C
- Operating Temperature : 0 ~ 50°C
- Storage Humidity : 5 ~ 90% RH (no condensation)
- Operating Humidity : 20 ~ 90% RH (no condensation)
- Operating Altitude : 10,000 Feet
- Dimensions (W x H x D) : 213.5 x 165.5 x 45 mm
- Weight : Net ; 1.6 kg, Gross ; 3.8 kg
- Refresh Rate : Max. 640 x 480 @ 75 Hz (60 Hz for optimal display)
- Main Frequency : Max. 28 MHz
- Horizontal Frequency : 31.5 ~ 37.5 KHz

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

- Compatibility of Vertical Frequency

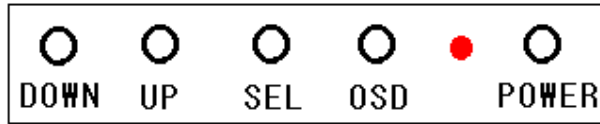
PC	MODE	Vertical Frequency (Hz)
IBM Compatibles	640 x 480	60 / 72 / 75
	DOS 640 x 350	70
	DOS 640 x 400	70

### **Touch Screen Specifications (Optional)**

- Touch Screen Type : Analog Resistive 4-Wire Type
- Touch Screen Controller Interface : Serial (RS-232)
- Touch Screen Drivers : MS-DOS, Windows 3.1/95/98/ME/NT/2000, Linux X Window
- Drift compensation for fluctuations in the temperature and humidity
- Antiglare scratch resistant finish
- Gloved or Ungloved finger or Stylus activation
- Chemically strengthened glass backing panel
- Optically bonded buffer layer
- Transmittance : Typ. > 80 %
- Durability : Point Activation Typ. 1,000,000  
Gouge Hardness 3H or More

## 4. OSD Function

### 4.1 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.

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

### 4.2 OSD Items

The following OSD Screen is shown with pressing OSD Button.



OSD Main Menu

 Brightness : Adjusts the black level of the backlight.



- Contrast : Adjusts the contrast ratio of the image. ( 0 to 255 )



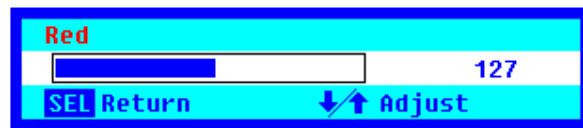
- Color : Adjusts the gain of each RGB.



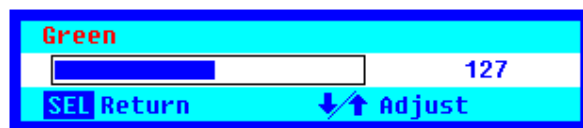
- Color Temperature : Adjusts the value of White Balance.



- Red : Adjusts the gain of Red.



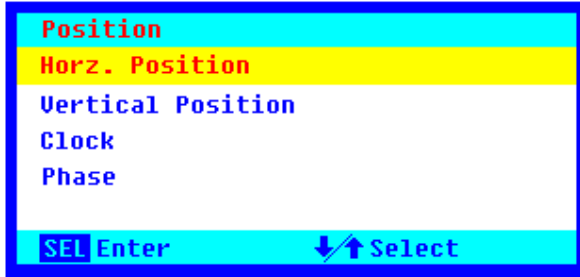
- Green : Adjusts the gain of Green.



- Blue : Adjusts the gain of Blue.



- Position : Adjusts the screen position, ADC clock and phase.



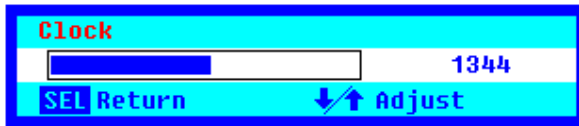
- Horz. Position : Adjusts the screen position horizontally.



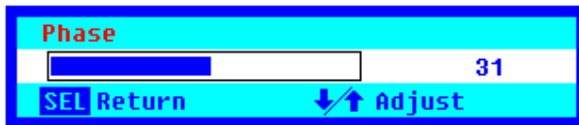
- Vertical Position : Adjusts the screen position vertically.



- Vertical Clock : Adjusts the value of clock per Line.



- Phase : Adjusts ADC sample pixel clock.





Auto Adjust : Automatically adjusts the screen position, phase clock and RGB gain for sharpening the image.



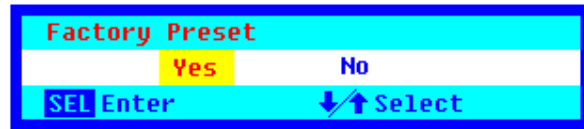
- Geometry : Automatically sets the screen position, phase and clock to be the best.
- Color Balance : Automatically sets the gain of RGB to be the best.



Advanced



- Factory Preset : Initializing Setting Value



- DOS/GFX : Selects Dos Mode (only DOS)




- OSD Time : Selects OSD Time out.  
15sec / 30sec / 45sec / 60sec.




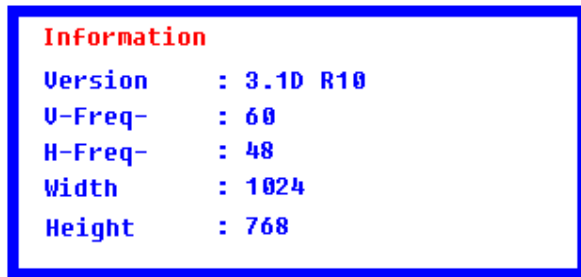
- OSD Position : Adjusts OSD position horizontally or vertically by manual.




-  Language : Selects the language on OSD.



-  Information : Indicates the information of display about the system.



-  Cancel : Restores the adjusted parameter value to the previous value and close the OSD Menu.

### 4.3 Warning Messages

DPMS POWER SAVING MODE : If there is not RGB Input Signal, the message will be shown for 12 seconds.



Not Supported Video : The below flickering OSD Screen appears in case an unsuitable mode is applied, which can not be normally supported by LCD. In order to remove the phenomenon, it should be switched into the mode that can be supported by LCD.

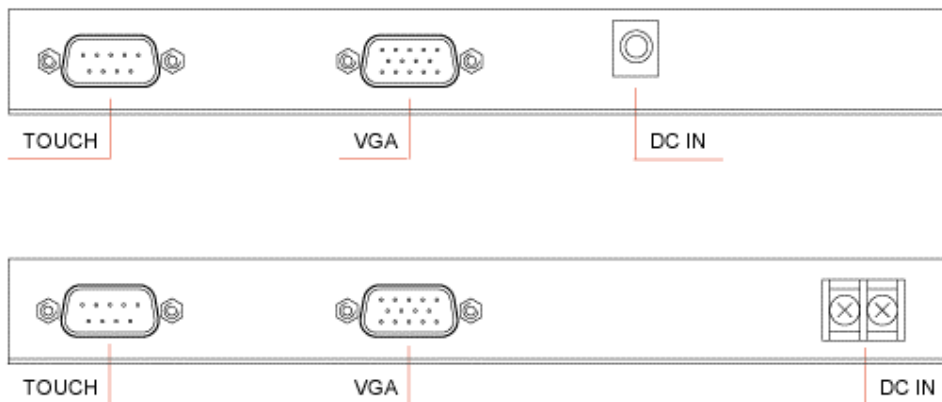


Out Of Range : In case of detecting the mode that cannot be totally supported by LCD, the below message is displayed on Black screen. In order to remove the phenomenon, it should be switched into the mode that can be supported by LCD.



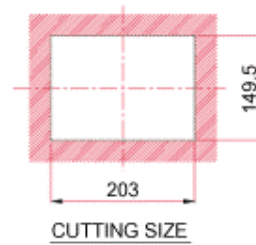
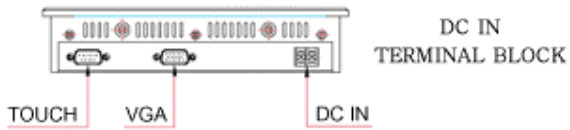
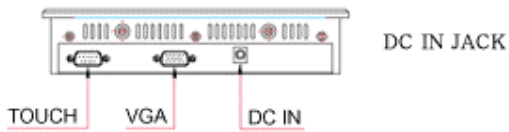
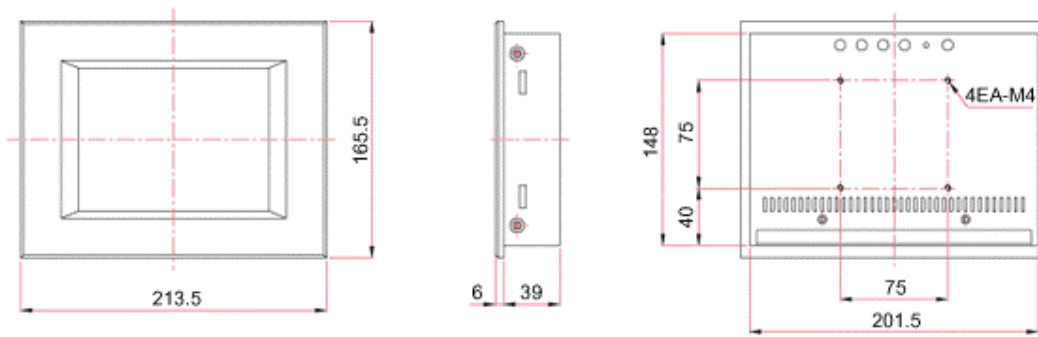
\* Note : The OSD Menu is subject to change without notice to improve its system.

## 5. Connectors



Touch, DC Terminal is optional

## 6. Dimensions



## 7. Packing List

LCD Monitor 1 pc  
LCD Monitor Manual 1 pc  
AC Adapter 1 pc  
VGA Cable 1 pc  
Fixing Bracket 4 pcs  
Touch Cable (Optional)  
Touch Screen Install Diskette (Optional)