

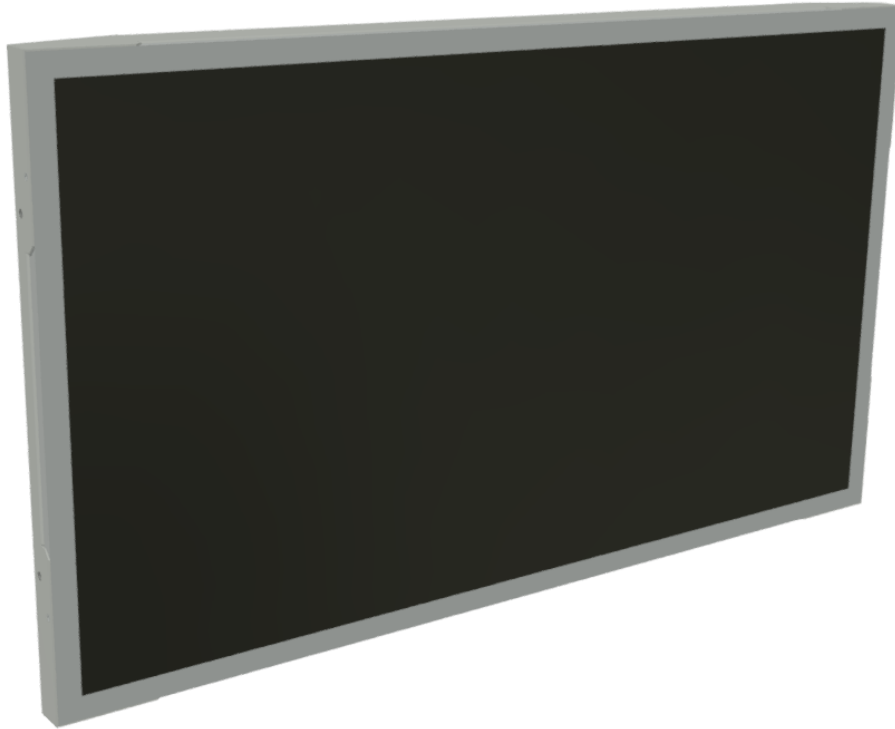


# 27" LCD Monitor

Model: 150TFT[X]2704[XX]

## Manual

Version 1.1 / January 2017



# SUZOHAPP

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## 1. Introduction

Congratulations with the purchase of your monitor. This LCD monitor is a color active matrix thin-film-transistor (TFT) liquid crystal (LCD) to provide superior display performance.

## 2. Safety

This monitor is only suitable for use in an interior environment where it's not sealed and not subject to dust, dirt, condensation (Pollution Degree 2) (IP20).

It is not allowed to connect appliances to the monitor which does not comply to SELV or Class II qualification.

Unplug the monitor from the power outlet before cleaning. Do not use alcohol (methyl, ethyl or isopropyl) or any strong dissolvent. Do not use thinner or benzene, abrasive cleaners or compressed air. To clean the monitor, use a cloth lightly damped with a mild detergent.

The slots located on the backside of the monitor case are for ventilation. Do not block or insert anything inside the ventilation slots.

It is important that your monitor remains dry. Do not pour liquid into or onto the monitor. If the monitor becomes wet do not attempt to repair it yourself.

If the liquid crystal materials leaks from the panel, it should be kept away from the eyes or mouth. In case of contact with hands, legs or clothes, it must be washed away thoroughly with soap.

**Warning: This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.**

## 3. Model descriptions

Part number	Description
150TFT2704	Monitor 27"
150TFTG2704	Monitor 27" Glass
150TFTS2704M	Monitor 27" Serial Touch
150TFTS2704MU	Monitor 27" USB Touch

Further models to be announced.

## 4. Monitor connection

1. Connect the 12V power supply to the monitor.
2. Connect one end of the video cable to the computer and the other to the monitor. Tighten by turning the two thumb screws clockwise to ensure proper grounding.
3. Press the power button on the rear panel to turn the monitor power on.

## 5. Monitor specifications

### Panel

Manufacturer	Part No.
AUO	M270HVN02-0

### Absolute Maximum Ratings

Item	Unit	Min	Typical	Max	Remarks
Rated Ambient Temperature	°c	0	-	50	
Storage Temperature	°c	-30	-	60	
Relative Humidity	%	10	-	90	
Altitude	M	-	-	2000	
Pollution	Degree		2		Not sealed, not subject to dust, dirt, condensation

### Input characteristic

Description	Signal	Unit	Min	Typical	Max	Remarks
Power in (12Vdc)						
	Input	VDC	11.4	12	12,6	
	Consumption	A	1.8	2.6	3.0	
RGB Input						
	Analog RGB	VPP	0	0.7	-	
	Sync	VDC	0	5	5.5	
	H Frequency	KHz	31		80	Depends on Mode
	V Frequency	Hz	55	75	76	Depends on Mode
DVI-D Input						
	DATA/CLK	VPP	450	500	900	Differential +/-

### Signal Input (Analog RGB, TMDS(DVI))

Item	Description	Resolution
Supported Resolution	XGA	1024X768
	WXGA	1280X768
	WXGA	1366X768
	SXGA	1280X1024
	WSXGA+	1680X1050
	UXGA	1600X1200
	HD	1920X1080

### Display Characteristics

Item	Units	Min
Screen Diagonal	mm	685.65 (27")
Active Area	mm	597.6 (H) x 336.15 (V)
Pixels H x V	Degree	1920 (x3) x 1080
Viewing Angle	Degree	178 Hor. & Vert.
Contrast Ratio		3000

## 6. Operation

**Color LED:** This LED shows the state of the controller.

- Green is the “normal state”.
- Red is the “Off mode”. (Can’t find Sync. signals)
- Amber is the “DPMS mode” (*Display Power Management Signaling*).

**PC Settings:** The PC needs to be set to an appropriate graphics mode that has the same resolution as the LCD panel to have clear screen image. The vertical refresh rate should be set to one of 56~75Hz, non-interlaced signal.

**LCD display System Settings:** The OSD (On Screen Display) provides certain functions to have clear image and others. This board supports 5 buttons OSD operation as a standard. The control functions defined on OSD operation are as below.

**PC Graphics Output:** Signal quality is very important. If there is noise or instability in the PC graphics output, it may result in visible noise on the display. Refer to the graphic modes table in specification section for supported modes. Non-interlaced & interlaced video input is acceptable.

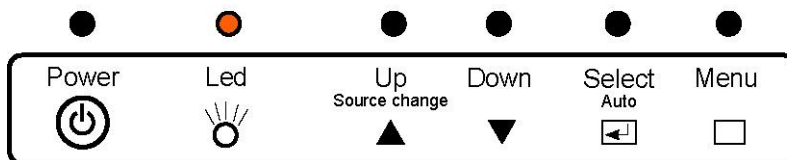
**VGA cable:** Plug the VGA cable to the connector on the backside of the monitor.

**DVI-D Cable:** Plug the DVI-D Cable (not included) to the connector on the backside of the monitor.

**Power supply:** Plug the 12V power supply (not included) to the connector on the backside of the monitor (separate power supply 150-0072).

**Power on:** Switch on the monitor by using the on/off switch on the OSD control buttons.

**PC Setting:** The controller has been designed to take a very wide range of input signals. However, to optimize the PC’s graphic performance, we recommend choosing 60Hz vertical refresh rate. This will not cause screen flicker.



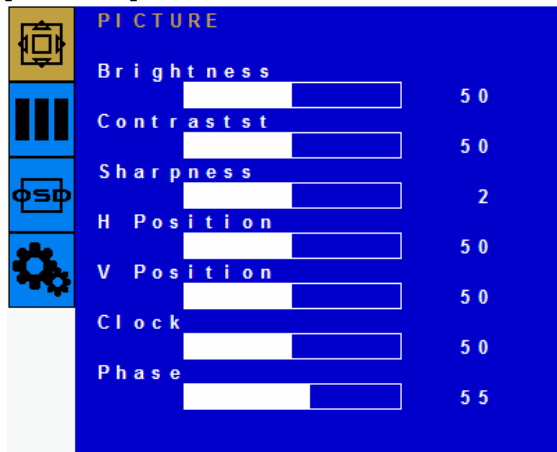
The chosen OSD settings will be stored in memory. The OSD menu can be cleared from the screen by moving the selection bar to the EXIT MENU icon pressing the SEL button. The OSD menu will automatically be cleared from the screen after a few second of non-use.

## 7. OSD MENU

The chosen OSD settings will be stored in memory. The OSD menu can be cleared from the screen by pressing the **MENU** button otherwise it will be automatically cleared after a few seconds of non-use.

### OSD Main Menu

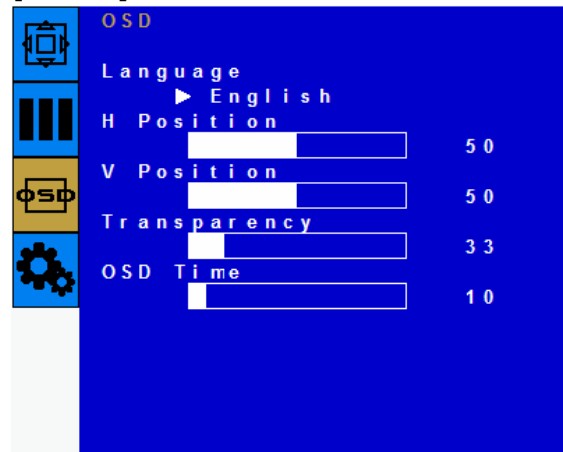
#### [PICTURE]



PICTURE

- Brightness 50
- Contrast 50
- Sharpness 2
- H Position 50
- V Position 50
- Clock 50
- Phase 55

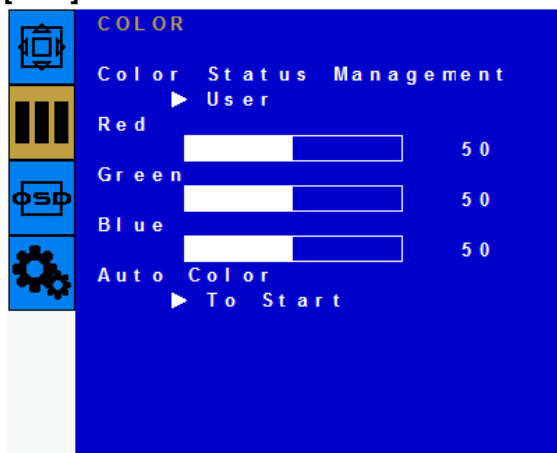
#### [COLOR]



OSD

- Language ▶ English
- H Position 50
- V Position 50
- Transparency 33
- OSD Time 10

#### [OSD]



COLOR

- Color Status Management ▶ User
- Red 50
- Green 50
- Blue 50
- Auto Color ▶ To Start

#### [SETUP]



SETUP

- Source ▶ RGB
- Factory Reset ▶ To Start
- Aspect ▶ Off
- Set ID ▶ Off

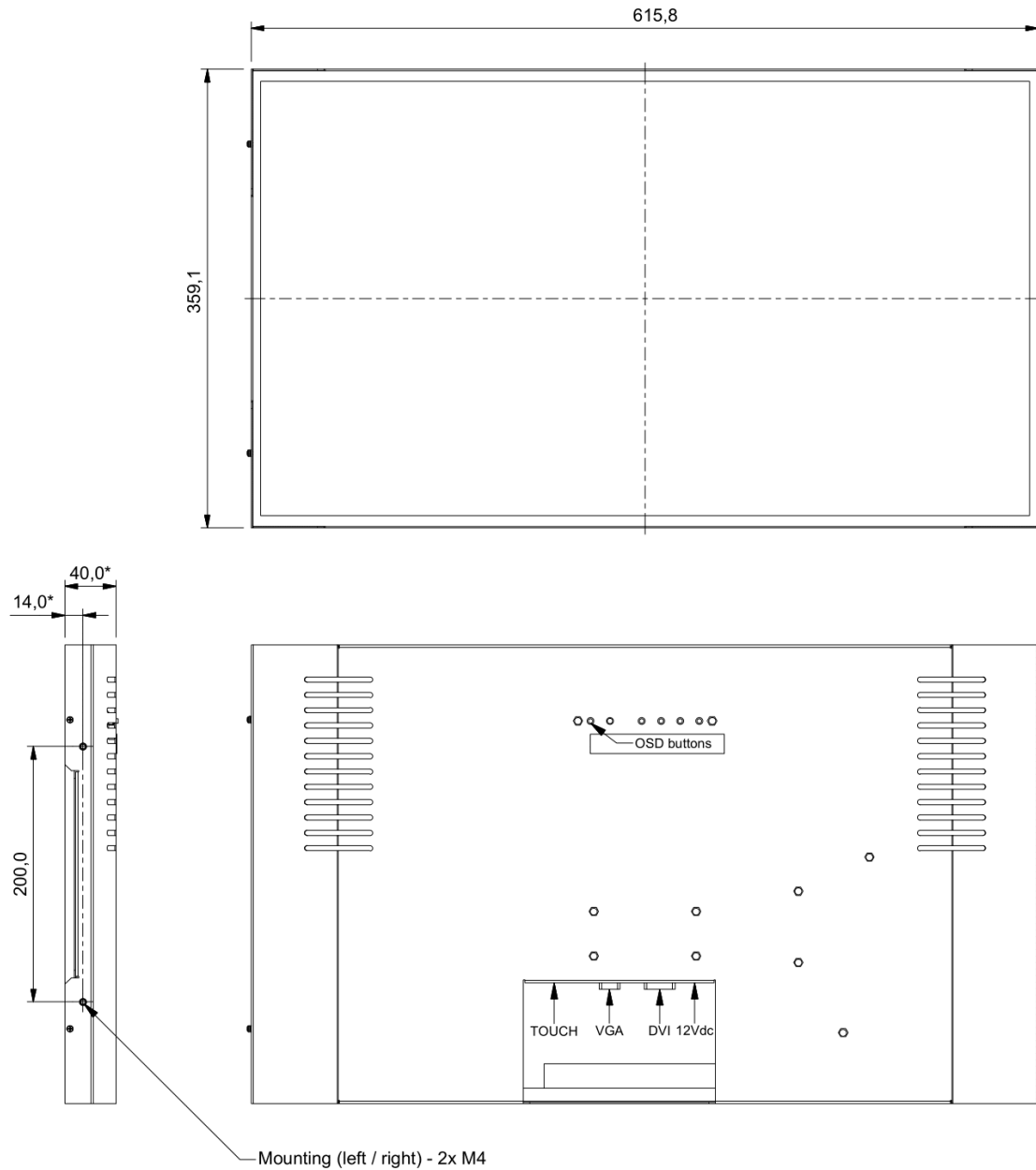
1280x1024 60Hz

### OSD GUI Control Table

MAIN	SUB MENU	CONTROL	
Picture	Brightness	50(0~100)	
	Contrast	50(0~100)	
	Sharpness	2( 0 ~ 4)	
	H Position	50(0~100)	PC ONLY
	V Position	50(0~100)	
	Clock	50(0~100)	
	Phase	30(0~100)	
Color	Color Status Management	User(User, Warm, Normal, Cool)	
	Red	50(0~100)	PC ONLY
	Green	50(0~100)	
	Blue	50(0~100)	
	Auto Color	To Start	
OSD	Language	English(English, Deutsh, Francais, Italiano, Espanol, Korean)	
	H Position	50(0~100)	
	V Position	50(0~100)	
	Transparency	33 (0~100)	
	OSD Time	10(3~30)	
SETUP	Source	RGB, DVI, AUTO	
	Factory reset	To Start	
	Aspect	Off(On/Off)	
	Set ID(option)	Off(On/Off)	

## 8. Mounting instructions




This monitor can be mounted with four M4 mount holes, two on the left and two on the right side. Place the monitor into the machine. Place the M4 screws on both sides of the monitor. Tighten the nuts until the monitor is firmly secured to the machine.



\* Dimension with glass / touch: + 5mm



## 9. Accessories

Part number	Description	
150-0072	Power supply input 100/240V output 12V 5A	
22-0012-4	Power cable Euro lead 1.80M	
149-0112-11	VGA cable 1.80m	
149-0121	DVI-D Cable 2 mtr 18+1	