



24" LCD Monitor

Model: 150TFT[X]2414[XX]

Manual

Version 1.0 / February 2019



Antonie van Leeuwenhoekstraat 9
3261 LT Oud Beijerland
The Netherlands

Phone : +31(0)186-643333

Fax : +31(0)186-643322

Email : info@suzohapp.nl

Web : eu.suzohapp.com

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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 | Included cable(s) |
|--------------|---|-------------------|
| 150TFTG2414 | Monitor 24" with 4mm tempered glass | VGA |
| 150TFTS2414M | Monitor 24" with 3M touch screen serial | VGA + Serial |

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. Connect one end of either the touch screen cable to the computer and the other end to the monitor.
4. Press the power button on the rear panel to turn the monitor power on.

5. Monitor specifications

Panel

| Manufacturer | Part No. |
|--------------|-------------|
| AUO | M240UAN01.0 |

Absolute Maximum Ratings

| Item | Unit | Min | Typical | Max | Remarks |
|-----------------------|------|-----|---------|-----|---------|
| Operating Temperature | °C | 0 | - | 50 | |
| Storage Temperature | °C | -20 | - | 60 | |
| Operation Humidity | % | 10 | - | 90 | |
| Storage Humidity | % | 10 | - | 90 | |

Input characteristics

| Description | Signal | Unit | Min | Typical | Max | Remarks |
|------------------|-------------|------|------|---------|------|------------------|
| Power in (12Vdc) | | | | | | |
| | Input | 1VDC | 11.4 | 12 | 12,6 | |
| RGB Input | | | | | | |
| | Analog RGB | VPP | 0 | 0.7 | - | |
| | Sync | VDC | 0 | 5 | 5.5 | |
| | H Frequency | KHz | 31 | 64 | 80 | Depends on Mode |
| | V Frequency | Hz | 55 | 75 | 76 | Depends on Mode |
| DVI-D Input | | | | | | |
| | DATA/CLK | VPP | 450 | 500 | 900 | Differential +/- |

Display Characteristics

| Item | Unit | Specifications |
|-----------------|--------|-----------------------|
| Screen Diagonal | [inch] | 24 |
| Active Area | [mm] | 518.4 (H) x 324.0 (V) |
| Pixels | | 1920 x 1200 |
| RoHS Compliance | | RoHS Compliance |

Optical Characteristics

| Item | Unit | Conditions | Min. | Typ. | Max |
|-----------------|----------|----------------------|------|------|-----|
| White Luminance | [cd/m2] | Center 1 Point | 240 | 300 | - |
| Contrast Ratio | C/R | | 600 | 1000 | |
| Response Time | [msec] | Gray To Gray | - | 14 | - |
| Viewing Angle | [degree] | Horizontal (CR = 10) | 150 | 178 | - |
| | [degree] | Vertical (CR = 10) | 140 | 178 | - |

Signal Input (Analog RGB, TMDS(DVI))

| Item | Description | Resolution |
|-----------------------|-------------|------------|
| Supported Resolutions | VGA | 640x480 |
| | SVGA | 800x600 |
| | XGA | 1024X768 |
| | WXGA | 1280X768 |
| | WXGA | 1360X768 |
| | SXGA | 1280X1024 |
| | WSXGA+ | 1680X1050 |
| | WUXGA | 1920X1200 |

6. Operation

Color LED: This LED shows the state of controller.
 Green is the “normal state”.
 Red is the “Off mode”. (Can’t find Sync. signals)
 Blink 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 with the LCD panel to have clear screen image. And 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 this 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.

(If installed) USB cable: Plug the USB cable to the connector on the backside of the monitor.

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

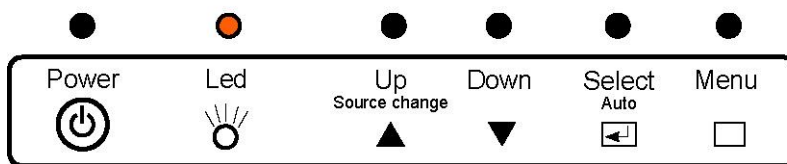
DVI-D Cable*: Plug the DVI-D Cable to the connector on the backside of the monitor.

Power supply: Plug the 12V power supply (Not included) to the connector on the backside of the monitor.

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.

OSD Control Board: The OSD (On Screen Display) provides certain functions to have clear image and others. This board supports 4 buttons OSD operation as a standard. The control functions defined on OSD operation are as below.



The chosen OSD settings will be stored in memory. The OSD menu can be cleared from the screen from the screen by moving the selection bar to the EXIT MENU icon pressing the SEL button otherwise it will be automatically cleared 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 | <input type="text" value="80"/> |
| Contrast | <input type="text" value="80"/> |
| Sharpness | <input type="text" value="80"/> |

[COLOR]

| COLOR | |
|-------------------------|---------------------------------|
| Color Status Management | ► NORMAL |
| Red | <input type="text" value="80"/> |
| Green | <input type="text" value="80"/> |
| Blue | <input type="text" value="80"/> |
| Auto Color | ► To Start |

[SCREEN]

| SCREEN | |
|----------------|---------------------------------|
| Auto Configure | ► To Start |
| H Position | <input type="text" value="80"/> |
| V Position | <input type="text" value="80"/> |
| Clock | <input type="text" value="80"/> |
| Phase | <input type="text" value="80"/> |

[OSD]

| OSD | |
|--------------|---------------------------------|
| Language | ► English |
| H Position | <input type="text" value="80"/> |
| V Position | <input type="text" value="80"/> |
| Transparency | <input type="text" value="80"/> |
| OSD Time | <input type="text" value="10"/> |

[SETUP]

| SETUP | |
|--------------------------------|------------|
| Source | ► RGB |
| Factory reset | ► To Start |
| Aspect | ► Off |
| 1024x768 60 Hz Version 1.05 | |

OSD GUI Control Table

| MAIN | SUB MENU | CONTROL | |
|---------|-------------------------|--|---------|
| Picture | Brightness | 50(0~100) | |
| | Contrast | 50(0~100) | |
| | Sharpness | 2(0 ~ 4) | |
| 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 | |
| Screen | Auto Configure | To Start | |
| | H Position | 50(0~100) | PC ONLY |
| | V Position | 50(0~100) | |
| | Clock | 50(0~100) | |
| | Phase | 30(0~100) | |
| OSD | Language | English(English, Deutsch, 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) | |

8. Driver software touch screen (optional 150TFTS2414XX)

3M Touch Systems provides driver software that allows your touch monitor to work with your computer. Drivers are located on "3M Touch Systems" web site for the following operating systems:

- Windows
- Linux
- Mac OSX

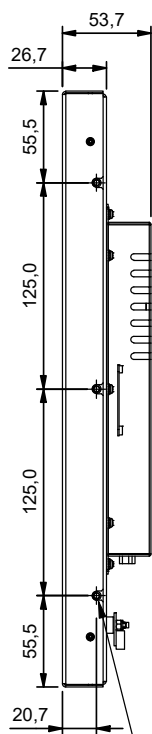
The latest versions of drivers and driver information for other operating systems are available on the "3M Touch Systems" web site at:

http://solutions.3m.com/wps/portal/3M/en_US/TouchSystems/TouchScreen/

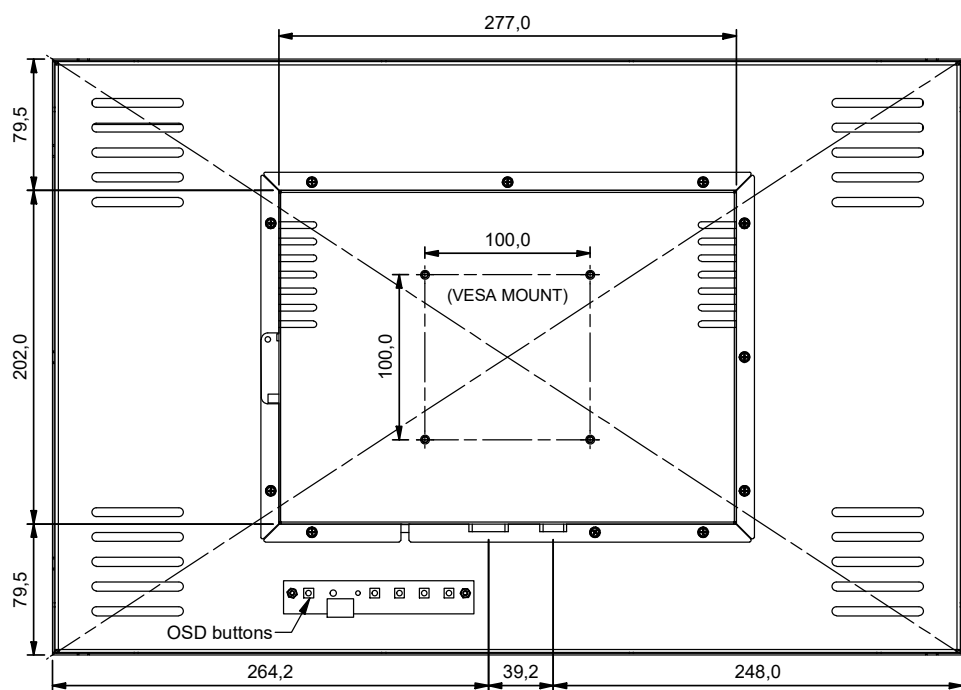
Your monitor is Plug-and-Play compliant. Information on the video capabilities of your monitor is sent to your video display adapter when Windows starts. If Windows detects your monitor, follow the instructions on the screen to install a generic Plug-and-Play monitor.

Depending upon whether you connected the USB communication cable, you should install only the USB driver.

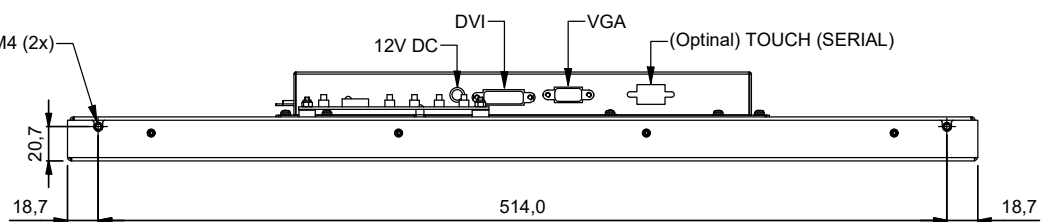
9. Mounting instructions






MOUNTING M4 (3x)



MOUNTING M4 (2x)



10. 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 |  |
| 149-0111-2 | Serial cable 2m |  |
| 98-0003-2727-4 | 24 " Touch screen (without controller) |  |