

User Manual

Open Frame Touch Monitor

15.6 inch Full HD(1920x1080)

Capacitive Touch Screen



Model : XLT-1560-OpenFrame-AU1

Preliminary

Version JAN 2014

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Before Installation

It is very important to mount the equipment in a suitable surface.

Make sure the place has a good ventilation, is out of direct sunlight, away from sources of excessive dust, dirt, heat, water, moisture and vibration.

Unpacking

The equipment comes with the standard parts shown in package content. Check and make sure they are included and in good condition. If anything is missing, or damaged, contact the supplier immediately.

Caution

- To avoid the risk of electric shock, make sure your hands are dry before unplugging your monitor from or plugging your monitor into an electrical outlet.
- When you clean your monitor, do not press down on the Touch Screen and LCD. Pressing down on the screen can scratch or damage your display. Pressure damage is not covered under warranty.
- 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 touch screen, use window or glass cleaner. Put the cleaner on the rag and wipe the touch screen.

Technical Support and Assistance

- Visit the MCP website at <http://www.mc pia.com> where you can find the latest information about the product.

Document Feedback

- To assist us in making improvements to this manual, we would welcome comments and constructive criticism. Please send all such – in writing to : tech@mc pia.com

****This User manual is subject to change without notice.**

Introduction

The 15.6" XLT Open Frame monitor is a large format display integrated with projected capacitive touch. With ten touch points, interacting with the screen has never been easier. The monitor is Windows 7/8 or Android OS ready.

Specifications

- Touch Screen -

Item	Spec
Touch Screen Size	15.6 inch
Touch Type	Projected Capacitive with cover lens
Touch Structure	G + F + F , Film type
Touch Resolution (WxH)	1920(W) x 1080(H)
Outline Dimension (WxH)	306.83 x 216.24 mm
View Area (WxH)	345.23 x 194.54 mm
Transmittance / Haze	≥ 88% / < 3%
Cover Lens Material	Chemically Strengthened Glass , attached the protective film
Cover Surface Hardness	7H
Life Expectancy	Over 350 Million
Touch Controller	Board type controller
Interface	USB(HID) High-Speed USB 2.0
Finger Point	Multi-Touch 10 point
Touch Driver	Windows7/8(HID compliant) Android - support kernel source

- Display -

Item	Spec
LCD Panel Size	15.6inch (15.55") FULL HD 16:9
LCD Panel Brand	AUO (B156HW01 V.0)
LCD Backlight	WLED
LCD Resolution	1920 x 1080 max, FULL HD 1080p
LCD Display Mode	TN, Normally White, Transmissive
LCD Brightness	300 cd/m2 (Typ.)
Contrast Ratio	500:1
Support Color	262K
Viewing Angle	70°(R)/70°(L)/60°(H)/60°(V)

- System -

Item	Spec
Display Controller	Rear mounted
Video Inputs	VGA, DVI, HDMI
Audio Input	PC AUDIO IN
Audio Output	Ear-Phone Jack / Speaker connector
Control Button	Rear mounted
OSD Key Function	POWER,MENU,UP,DOWN,ENTER
OSD Language	8 Languages
Power supply	DC 12V
Weight	1.2kg
Dimension	396(W) x 238(H) mm

- Environment -

Item	Spec
Operating Temperature	0 ~ 50° C
Storage Temperature	-20 ~ 60° C
Humidity	Operating : 10 ~ 80% (non-condensing) Non-operating : 5 ~ 90% (non-condensing)

Applications

Application scenarios - self-service applications:

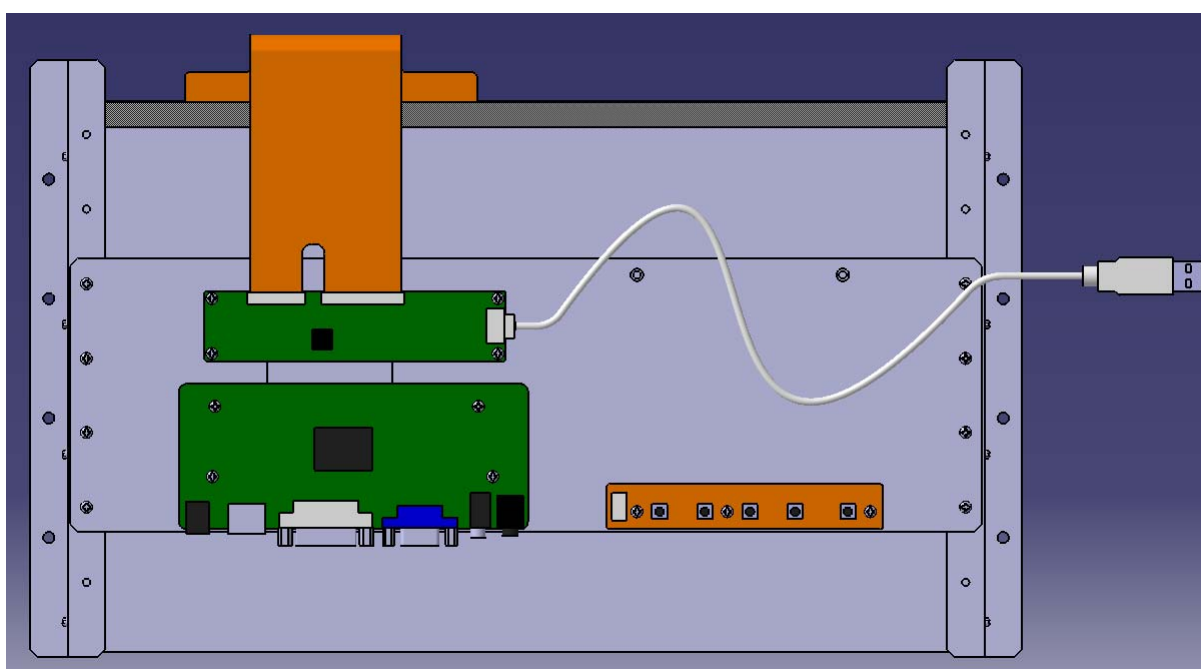
- KIOSK / POS machine
- Transportation and Ticketing machine
- Financial ATM
- Entertainment / Gaming / Slot machine
- HMI (Human-Machine Interface) equipment controller monitor

Product Overview

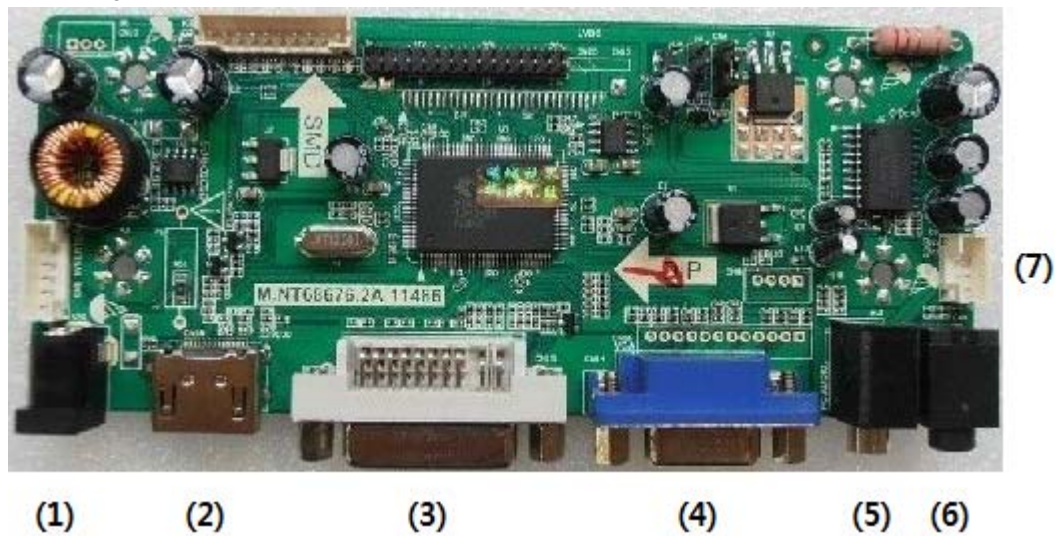
Front View



Back View

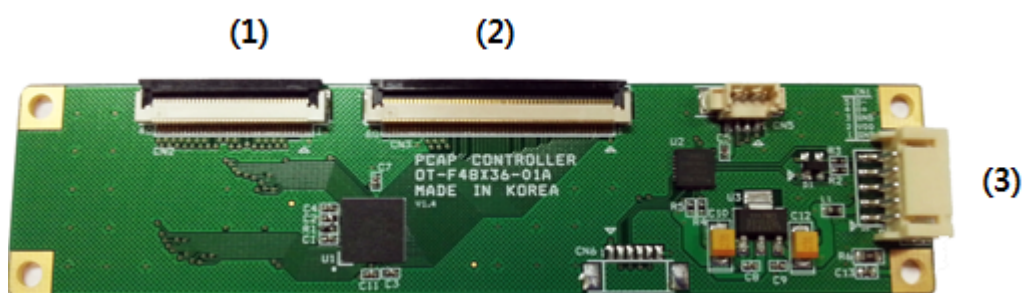


Display Controller Description



Label	Description
1	DC power Input
2	HDMI Input
3	DVI Input
4	VGA Input
5	Audio Input
6	Headphone Jack
7	Speaker connector , 2×1W(8Ω)

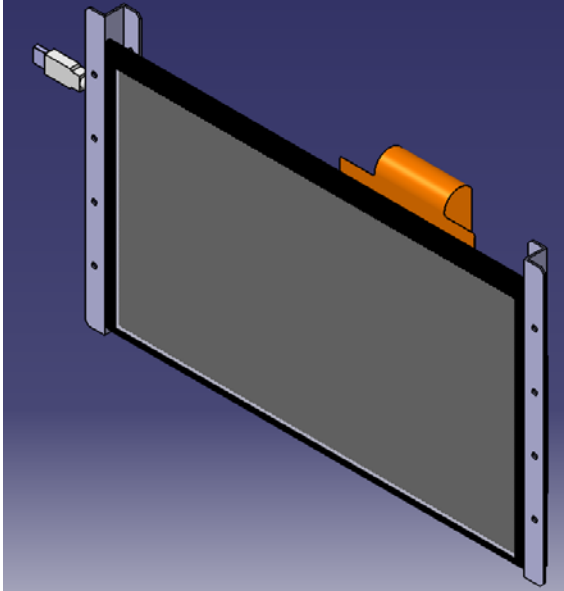
Touch Controller Description



Label	Description
1	Touch Screen FPC Connector 40pin
2	Touch Screen FPC Connector 60pin
3	USB Interface Connector

Packing List

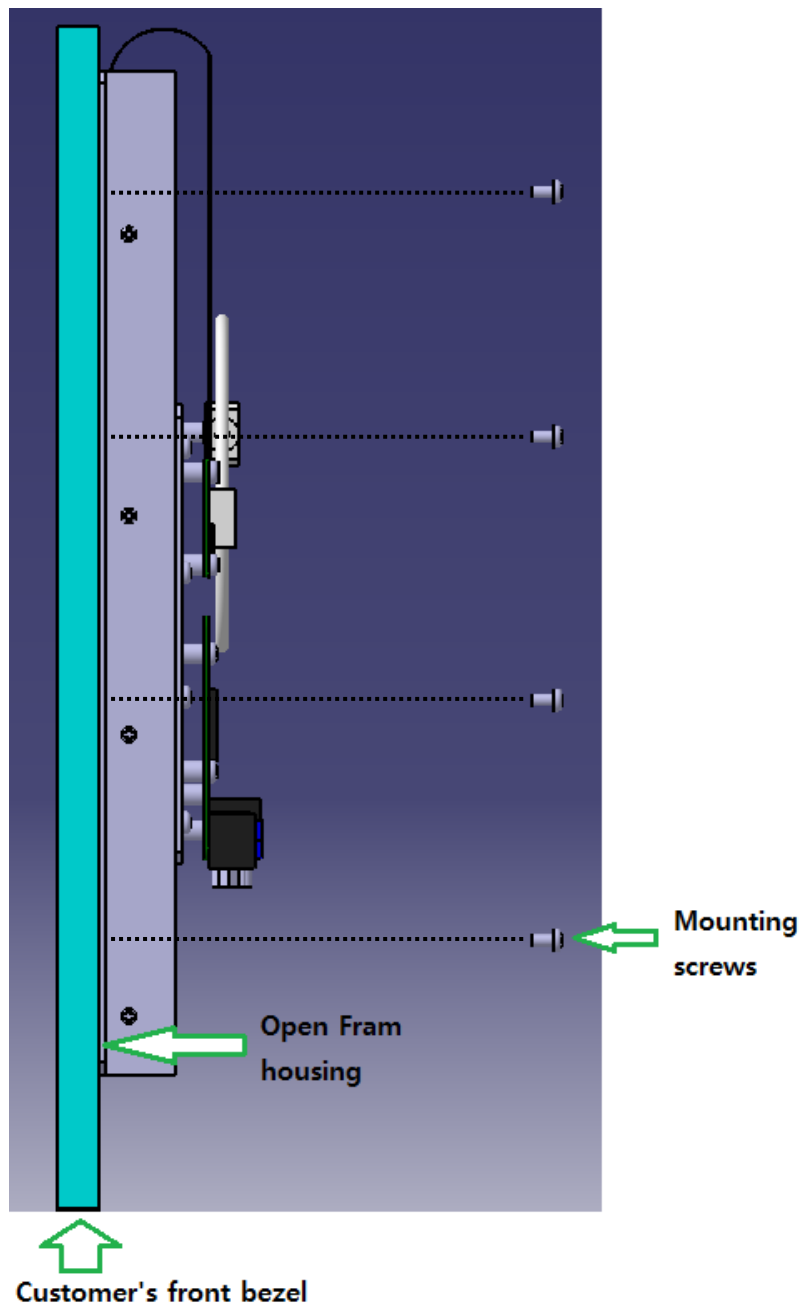
Your monitor ships with the components shown below.

	15.6" Open Frame Touch Monitor
	1 x USB Cable(for touch) 1.5 meter
	1 x DC12V/3.33A Power Adapter
	1 x Power Cord (Type of power cord included will depend on the where the LCD monitor is to be shipped)

Note : Not included video cables(HDMI , DVI, VGA)

Rear Mounting Solution

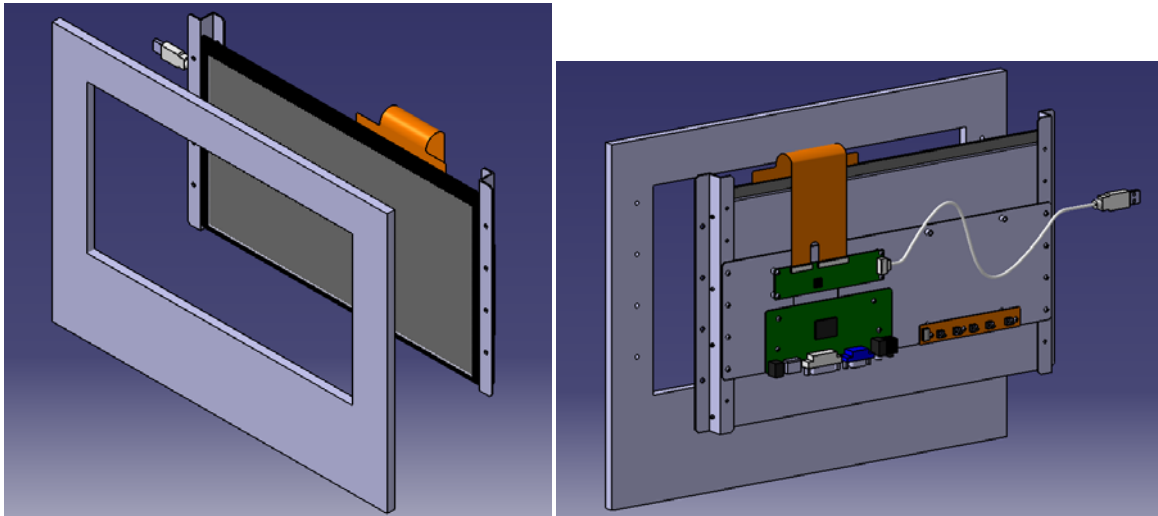
Rear mounting solution is a collection of different kinds of mounting methods that can help you to know how to mount your product correctly and rapidly. Mounting solution can also guide you to fine the product that really fit your needs.



Installation Step & Application

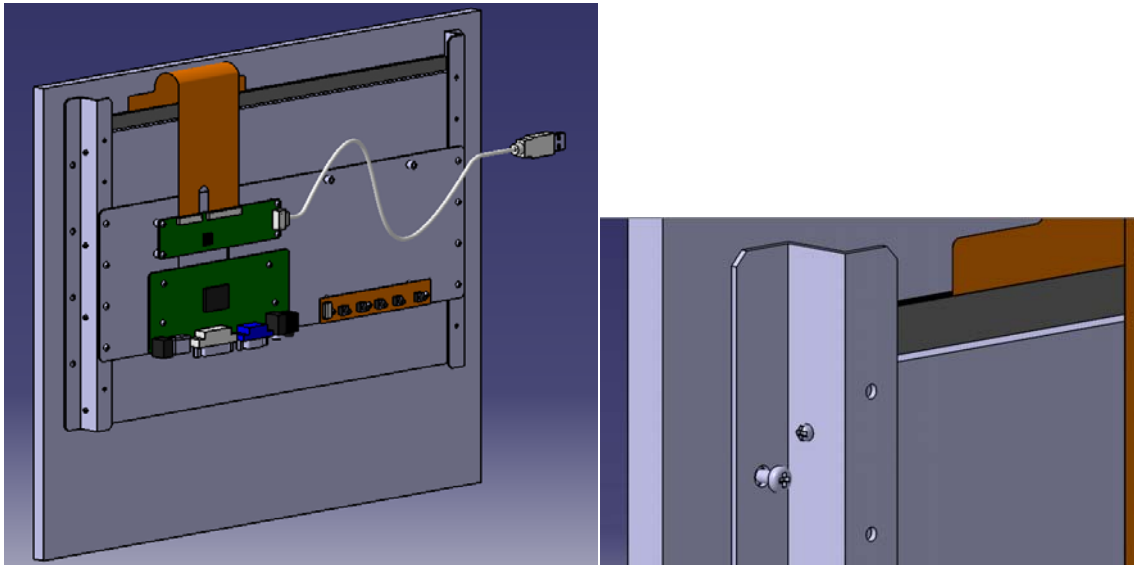
This monitor can be mounted to the wall with 8 screws and two pairs of brackets. Mounting method that mounts products from the rear and secured by bracket on left and right sides. They are widely used when there is a safety consideration, for example, ATMs.

Step1. Put Monitor on the fixture(Wall, panel.....) from the rear.



Customer's fixture Cut-out dimension and mounting hole base on drawing

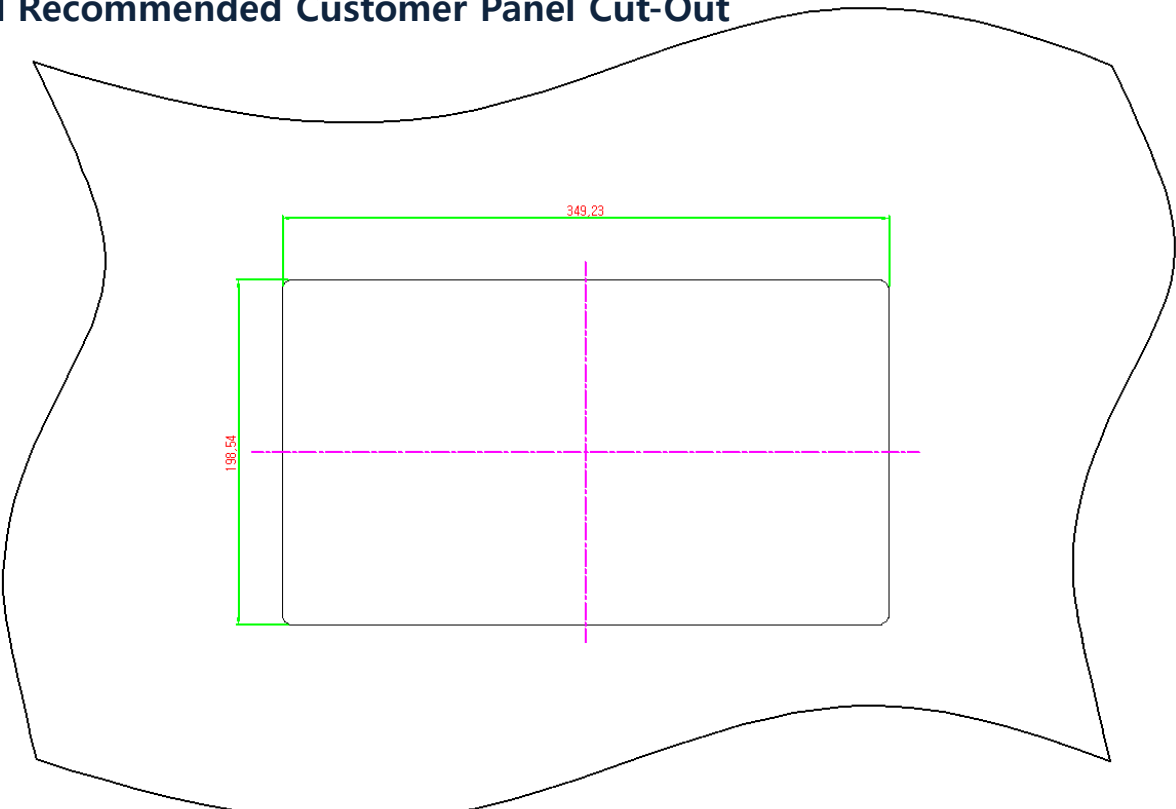
Step 2. Fasten with M4 screw from the front of customer's fixture.



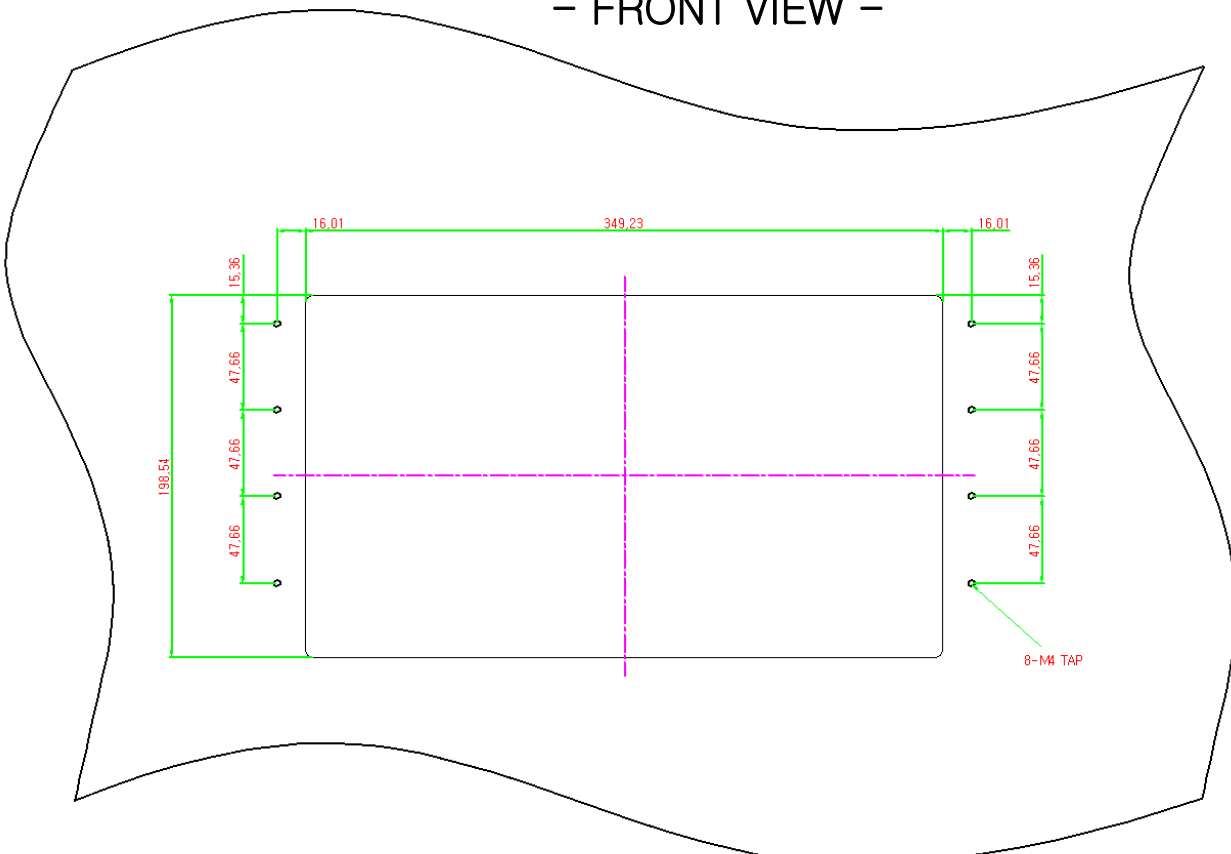
****The length of screws depends on the thickness of customer's fixture**



Recommended Customer Panel Cut-Out

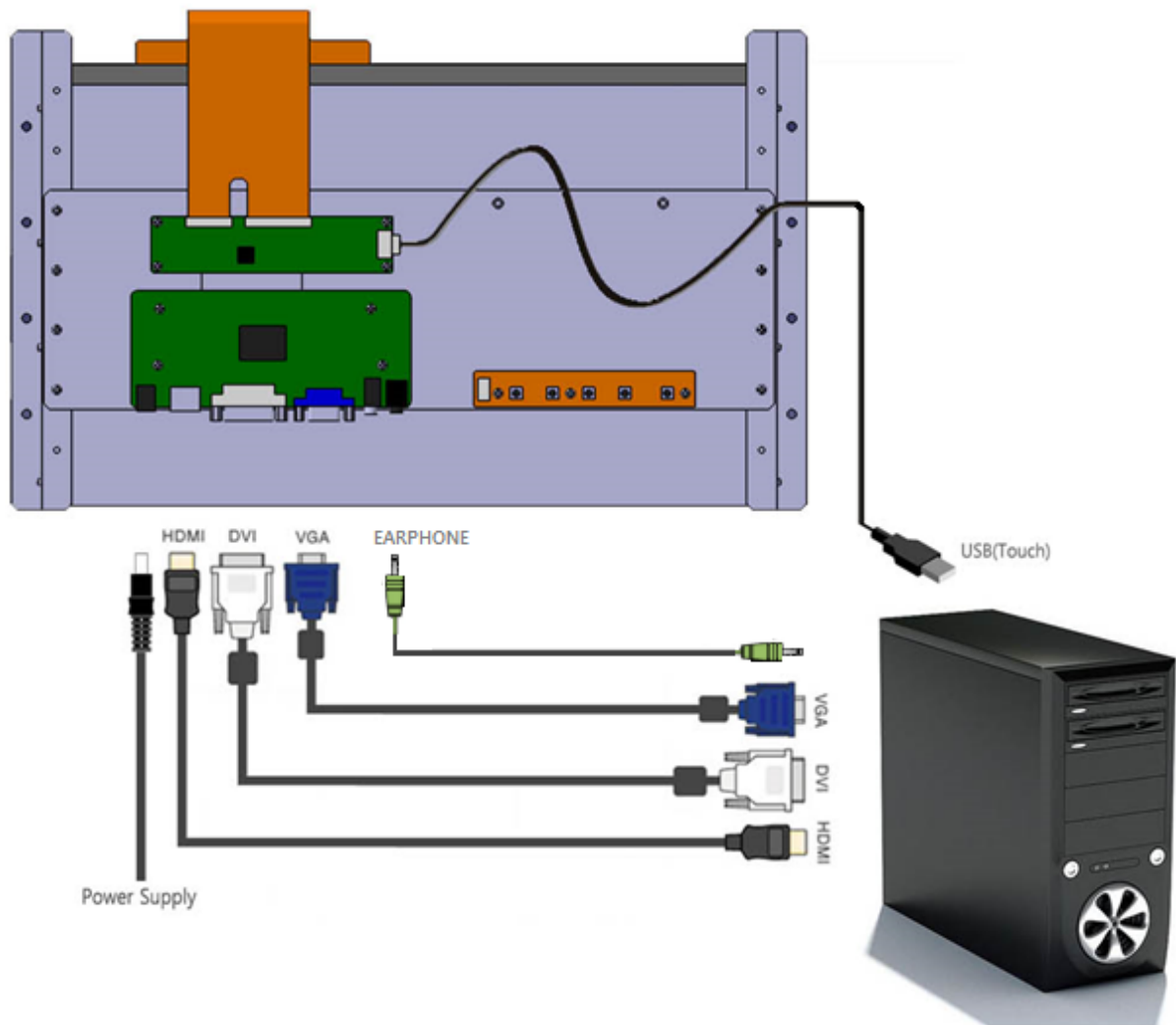


– FRONT VIEW –



– BACK VIEW –

Connecting the Display



To setup this display, please refer to the following figure and procedures.

1. Be sure all equipment is turned off.
2. Connect either VGA, DVI or HDMI Video Source from the monitor to the computer.
3. Connect the computer to the monitor with USB(for Touch) cable.
4. Connect the AC Adapter to the monitor and Power Cable to the AC Adapter first and then connect to the power supply.
5. Turn on your monitor and computer

Note :

To ensure the LCD display works well with your computer, please configure the display mode of your graphics card to make it less than or equal 1920 x 1080 resolution and make sure the timing of the display mode is compatible with the LCD display.

Attach power and video cables as needed and insure cables are not pinched or pulled tight by other devices mounted above or below the display.

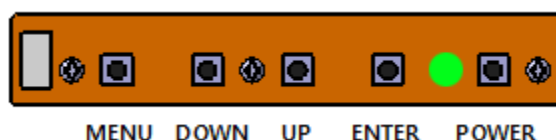
Insure that the air space behind the display is adequately ventilated.

User Control

Your monitor will not likely require adjustment. However, variations in video output and application may require adjustments to your monitor to optimize the quality of the display. For best performance, your monitor should be operating in native resolution, 1920 x 1080 at 60 Hz. Use the Display control panel in Windows to choose 1920 x 1080 resolution

OSD(On-Screen Display) Functions

The OSD of the monitor was selected to illustrate examples below:

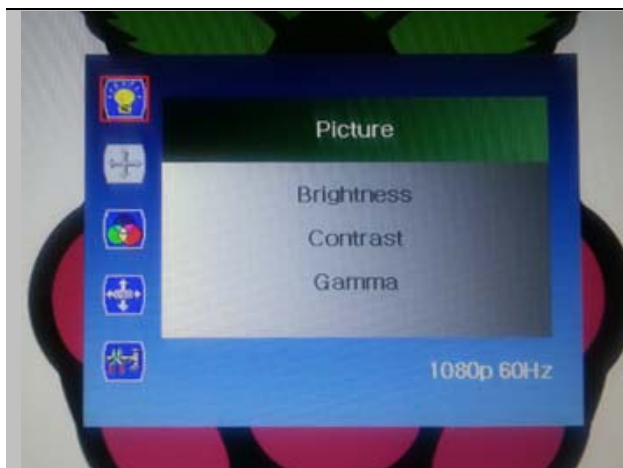


Buttons		Description
Menu/Exit		Display/exits the On Screen Display (OSD) menus.
Value Up/Down		Move the selector to the previous option
		Increase/Decrease the gauge value of the selected option
Select		Selects the adjustment items from the OSD menus.
Power		Power ON or OFF (with LED indicator)
LED Function		
Monitor	ON	Green
Monitor	STANDBY	Orange
Monitor	OFF	Red

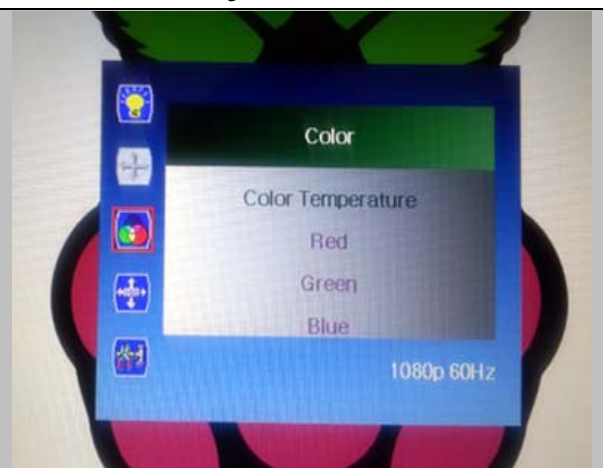
To Display and Select the OSD Functions:

1. Press the Menu key to activate the OSD menu.
2. Use or to move through the menu. Press the Select key, the parameter will be highlighted when selected.
3. To quit the OSD screen at any time during the operation, press the Menu key. If no keys are pressed for a short time period, the OSD automatically disappears.

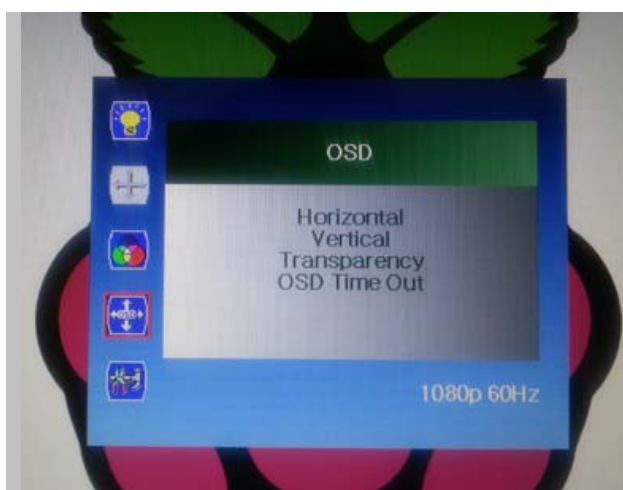
Picture Control



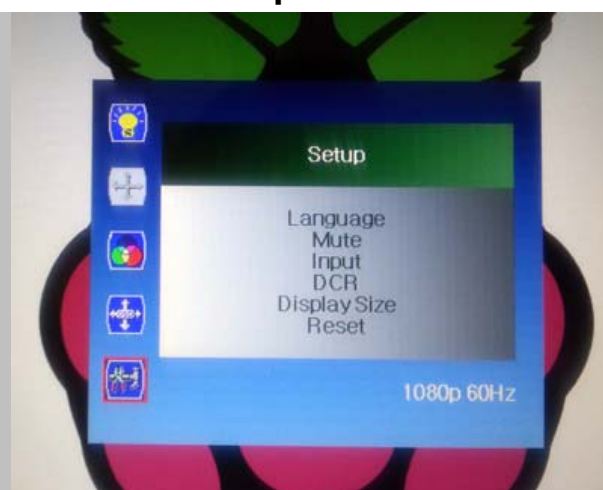
Color Adjustment Control



OSD Menu



Setup Menu



Touch Screen Driver

Windows7,8 USB Compatibility

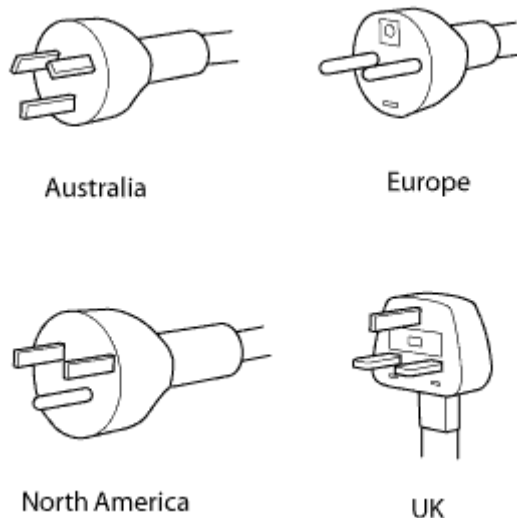
MCP multi-touch technology works seamlessly with the Windows7,8 operating system. The Multi-Touch supports USB HID for direct communication. The Multi-Touch leverages all the multi-touch functionality that is native to Windows7,8. Plug the display in to a system running Windows7,8 and you'll quickly enter the world of true multi-touch functionality. The Multi-Touch is compatible with Windows7,8 with no additional software.

Support Android USB driver

We will support our customers by connecting to the variety Android board. For more information, it is listed on our Webpage.

AC POWER Adaptor

Capacitive touch is very sensitive to system noise. To eliminate the effect of the system noise, the most effective way is to use a three pole connectors AC Adaptor as figure below. Please use the power cord provided with this display in accordance with the table below. For all other cases, please use a power cord that matches the AC voltage of the power outlet and has been approved by and complies with the safety standard of your articular country.





Troubleshooting

- **The monitor does not respond after you turn on the system.**
 - Make sure that the monitor is turned on.
Turn off the power and check the monitor's power cord, AC adapter, and signal cable for proper connection.
- **Appear the "No Input the Signal"**
 - Check the connecting of the video cable between the monitor and the computer.
- **The characters on the screen are too dim or too bright**
 - Choose fit color temperature, use "AUTO COLOUR ADJUST or manually adjust" RGB ADJUSTMENT, refer to the Control section.
- If the front LED is blinking amber, check the status of the OFF MODE.
- **Power Button does not respond**
 - Unplug the power cord of the monitor from the AC outlet to turn off and reset the monitor. Check the Vacation Switch on the rear side of the monitor
- Check the signal cable connector for bent or pushed-in pins.

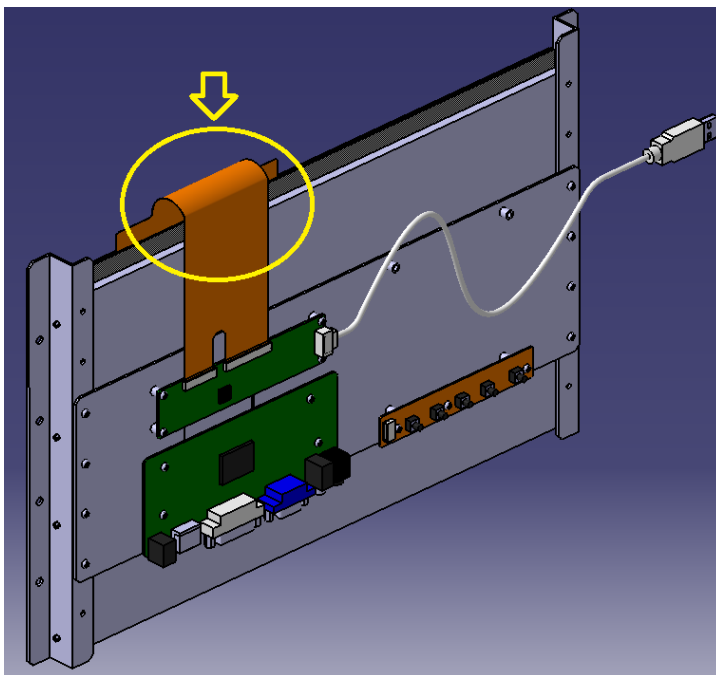
Recommended use

- **Setting the Maximum Resolution**

Set the timing mode on your computer. Recommended resolution and refresh rate is 1920 x 1080 @ 60Hz. If you do not see 1920 x 1080 as an option, you may need to update your graphics driver.

- **Caution for Touch Screen FPC**

- Touch Screen FPC is very sensitive. Be careful not to damage this part.



- **DO NOT OPEN THE MONITOR.**

- There are no user serviceable parts inside and opening or removing covers may expose you to dangerous shock hazards or other risks.
- The power supply cord you use must have been approved by and comply with the safety standards of your country.
- Do not use monitor in high temperature, humid, dusty, or oily areas.