

User Manual

OF-120P-A1

Open Frame Touch Monitor



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FCC/ IC Statement

This device complies with Part 15 of the FCC Rules and Canadian ICES-003/NMB-003 regulation. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Warning:

This device generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer's instruction manual, may cause harmful interference with radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case you will be required to correct the interference at your own expense.

Usage Notice

-  **Warning - To prevent the risk of fire or shock hazards, and do not expose the product to moisture.**
-  **Warning - Please do not open or disassemble the product as this may cause electric shock.**
-  **Warning - Power cord shall be connected to a socket-outlet with earthing connection.**
-  **Warning - Stability Hazard. The touch monitor may fall, causing serious personal injury or death. To prevent injury, this touch monitor must be securely attached to the wall in accordance with the installation instructions.**

Precautions

Please follow all warnings, precautions and maintenance as recommended in this user's manual to maximize the life of your unit.

Do :

- Turn off the product before cleaning.
- Use a soft cloth moistened with mild detergent to clean the product housing.
- Use only the qualified power adapter that comes with your device.
- Disconnect the power plug from AC outlet if the product is not going to be used for an extended period of time.

Don't :

- Do not use abrasive cleaners, waxes or solvents for your cleaning.
- Do not operate the product under the following conditions:
 - Extremely hot, cold or humid environment.
 - Areas susceptible to excessive dust and dirt.
 - Near any appliance generating a strong magnetic field.

Avis d'utilisation



Mise en garde — Pour prévenir les risques d'incendie ou d'électrocution, ne pas exposer le produit à l'humidité.



Mise en garde — Prière de ne pas ouvrir ou démonter le produit, car cela pourrait entraîner l'électrocution.



Mise en garde — Le cordon d'alimentation doit être branché à une prise pourvue d'une mise à la terre.



Mise en garde — Risque de renversement. Le moniteur tactile peut se renverser et causer de graves blessures corporelles, voire la mort. Pour prévenir les blessures, ce moniteur tactile doit être solidement fixé au mur selon les instructions d'installation.

Précautions

Veillez suivre toutes les mises en garde, précautions et entretiens recommandés dans ce manuel d'utilisation pour maximiser la durée de vie de votre unité.

À faire :

- Éteindre l'appareil avant de le nettoyer.
- Utiliser un chiffon humidifié par une solution savonneuse pour nettoyer le boîtier du produit.
- Utiliser uniquement l'adaptateur d'alimentation prescrit pour votre appareil.
- Débrancher l'appareil lorsqu'il n'est pas utilisé pendant une période prolongée.

À éviter :

- Ne pas utiliser de nettoyeurs abrasifs, de cires ou de solvants pour le nettoyage
- Ne jamais utiliser l'appareil dans les conditions suivantes :
 - des conditions environnementales extrêmes (chaud, froid ou humidité)
 - des endroits remplis de poussières et de saletés.
 - à proximité d'appareils produisant un fort champ magnétique.

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Chapter 1

Product Introduction

1.1 Overview

The OF-120P-A1 series is a 12" touchscreen monitor that builds to withstand commercial grade open frame monitor, with stylish thin cable management bracket and versatile design OF-120P-A1 is an exceptional choice for applications for all business sectors and well suited for point-of-sales, point-of-information, point-of-service and interactive signage.

1.2 Feature

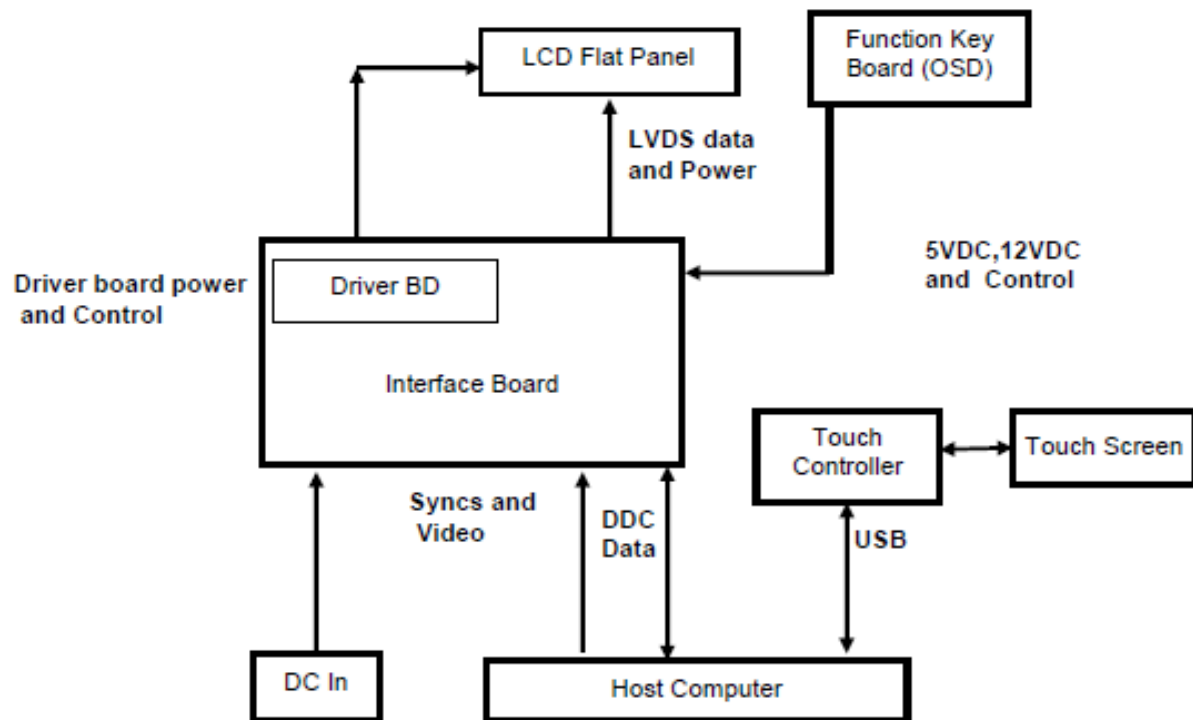
- Cable management bracket design for easy organize cable.

1.3 Specifications

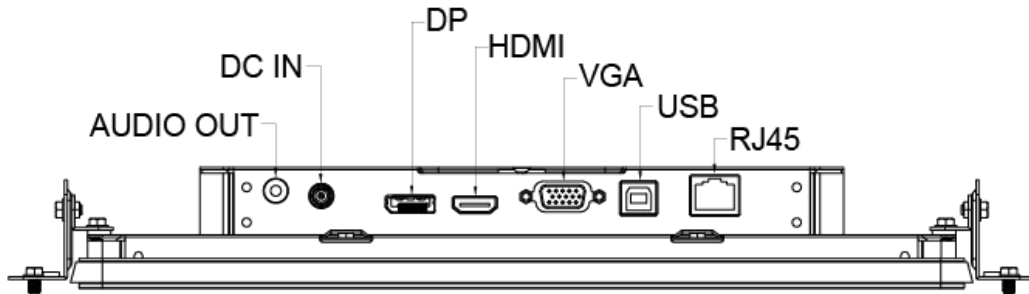
LCD Touch Panel	
Size	12" TFT LCD
Model	OF-120P-A1
Brightness	Non-touch screen Typical 500 cd/m ² min. 400cd/m ²
	P-CAP Typical 450 cd/m ² min. 340cd/m ²
Number of Pixels	1024(H) x 768(V)
Touch Type	P-CAP/10 points
Environment	
Compliance	IP65(only front bezel)
Operating Temperature	0°C ~ 40°C
Non-Operating Temperature	20°C ~60°C
Storage Temperature	-20°C ~60°C
Operating Humidity	20% ~ 80% RH, non-condensing
Mounting	100x100 mm (75x75mm by VESA Bracket)

Dimension (W x H x D)	308.31x268.9x47.3mm
Net Weight	2.3 kg
Gross Weight	4.1 kg

1.4 Block Diagram



1.5 Interface Connectors



1.5.1 Video Signal Connector

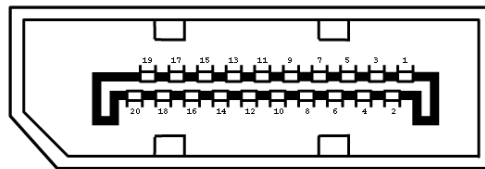
VGA

The diagram shows a top-down view of a VGA connector. It is a D-shaped connector with 15 pins arranged in three rows of five. There are two circular mounting holes on either side of the pin array.

The video signal input via D-type 15-pin female connector.
Connector Pin Assignment:

Pin	Signal
1	RED
2	GREEN
3	BLUE
4	NC
5	GND
6	RED_RTN
7	GREEN_RTN
8	BLUE_RTN
9	+ 5V
10	GND
11	NC
12	SDA
13	HSYNC
14	VSYNC
15	SCL

Display Port (1.2a)

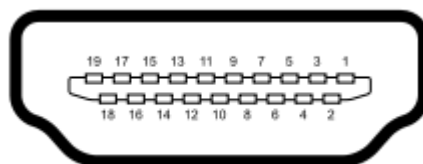


Not available for

OF-120P-A1110P01001


Pin	Signal	Pin	Signal
1	ML_Lane 0(p) Data0 +	11	Signal ground
2	Signal ground	12	ML_Lane 3(n) Data3 -
3	ML_Lane 0(n) Data0 -	13	Signal ground
4	ML_Lane 1(p) Data1 +	14	Signal ground
5	Signal ground	15	AUX_CH(p) AUX + Signal for Auxiliary Channel
6	ML_Lane 1(n) Data1 -	16	Signal ground
7	ML_Lane 2(p) Data2 +	17	AUX_CH(n) AUX - Signal for Auxiliary Channel
8	Signal ground	18	Hot Plug
9	ML_Lane 2(n) Data 2 -	19	DP_PWR Return
10	ML_Lane 3(p) Data3 +	20	DP_PWR

HDMI 1.3 (Compatible with HDMI 1.4)



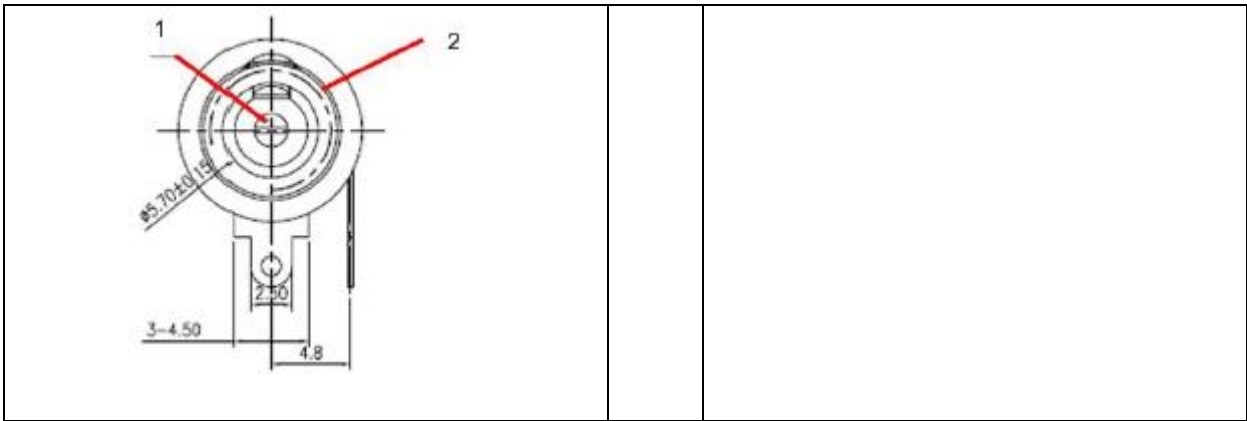
Pin	Signal	Pin	Signal
1	TMDS Data2+	11	TMDS Clock Shield
2	TMDS Data2 Shield	12	TMDS Clock-
3	TMDS Data2-	13	CEC
4	TMDS Data1+	14	Reserved (N.C. on device)
5	TMDS Data1 Shield	15	SCL
6	TMDS Data1-	16	SDA
7	TMDS Data0+	17	DDC/CEC Ground
8	TMDS Data0 Shield	18	+5V Power
9	TMDS Data0-	19	Hot Plug Detect
10	TMDS Clock+		

1.5.2 USB Connector

	Pin	Signal
	1	VCC
	2	D-
	3	D+
	4	GND

1.5.3 DC Jack

	Pin	Signal
	1	+12v
	2	GND



1.5.4 RJ45 (Remote OSD key)

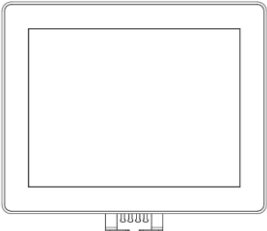
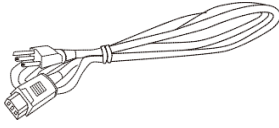
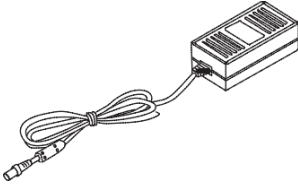
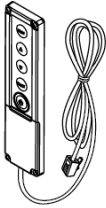
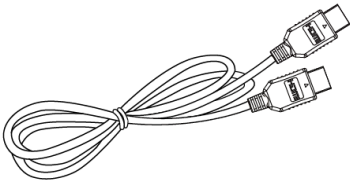
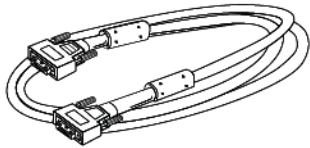
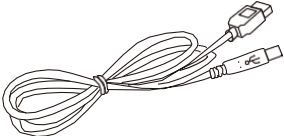
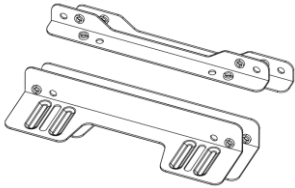

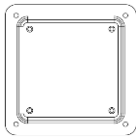
<p>Diagram of an RJ45 connector. A red arrow points to the first pin, labeled "Pin 1".</p>	Pin	Signal
	1	POWER
	2	SELECT
	3	DOWN
	4	UP
	5	MENU
	6	GROUND
	7	NC
8	NC	

1.5.5 PHONE Jack(Audio-Out)

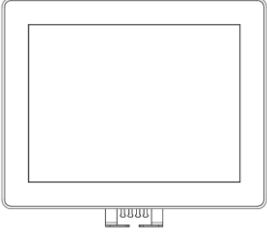
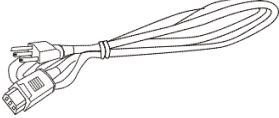
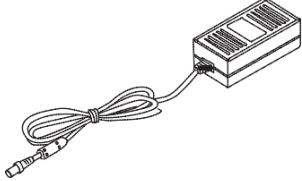
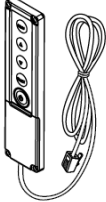
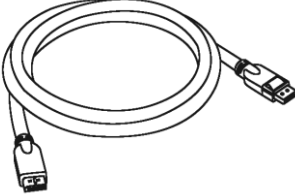
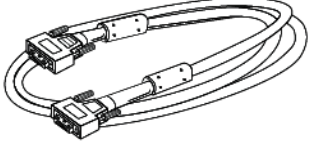
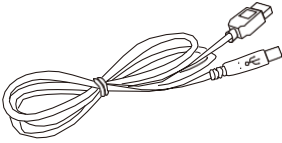
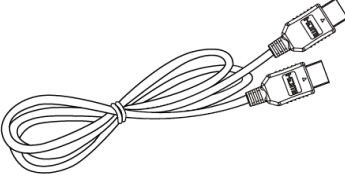
<p>Diagram of a phone jack connector. Labels indicate "Left", "Right", and "Ground" sections. A note says "Insert cord correctly".</p>	Pin	Signal
	1	Left
	2	Right
3	GND	

1.6 Package Overview

OF-120P-A1

		
<p>LCD Display</p>	<p>Power Cord</p>	<p>DC Power Supply</p>
		
<p>OSD Key pad</p>	<p>HDMI cable</p>	<p>VGA cable</p>
		
<p>USB cable (A to B)</p>	<p>Brackets</p>	<p>Screw</p>
		
<p>VESA Mount Bracket</p>		

OF-120P-A1

		
<p>LCD Display</p>	<p>Power Cord</p>	<p>DC Power Supply</p>
		
<p>OSD Key pad</p>	<p>DP cable</p>	<p>VGA cable</p>
		
<p>USB cable (A to B)</p>	<p>HDMI cable</p>	



Mise en garde!

Ce produit est destiné à être alimenté par un adaptateur secteur homologué ou une source d'alimentation CC, de 12 V CC, 1,5 A minimum, 40 degrés C minimum (pour les constructions A et B) ou 60 degrés C minimum (pour les constructions C), et l'altitude de fonctionnement = 3048m minimum. S'il a besoin d'une assistance supplémentaire Lors de l'achat de la source d'alimentation, veuillez contacter MicroTouch pour plus d'informations.

Construction	A (OF-120P-A1)
LCD Panel type	A
I/O ports	HDMI/VGA
Tma	40 degree C minimum

*Tma=40 degree C minimum (for Construction A)

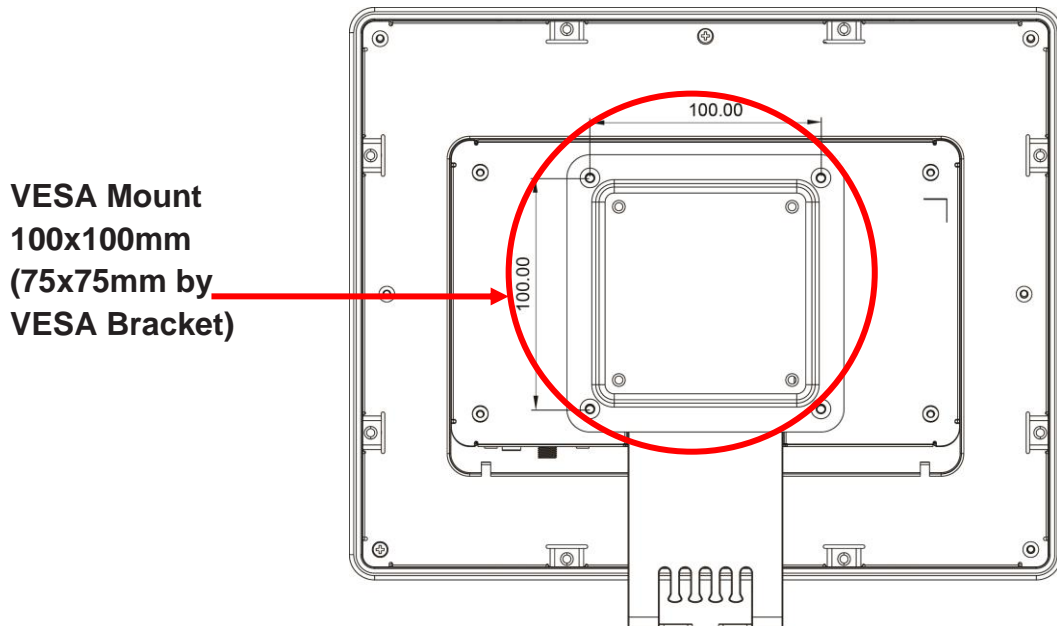
*Tma= 40 degrés C minimum (pour la construction A)

Chapter 2

Product Installation

2.1 About VESA Mount (OF-120P-A1)

The OF-120P-A1 series conform to the “VESA Flat Display Mounting Interface Standard” which defines a physical mounting interface for touch monitor and corresponding with the standards of touch monitor mounting devices. The VESA mount is located on the back of this unit.



Warning!

Please select the MicroTouch original screws!

The distance between the back cover surface and the bottom of the screw hole is 8 mm. Please use four M4 screws diameter with 8-10mm proper length to mount your monitor.

Note: The mounting stand must be able to support at least 7.67 lbs (3.48 Kg).

Mise en garde!

Sélectionner les vis d'origine de MicroTouch!

La distance entre la surface du couvercle arrière et le bas de l'orifice de la vis est de 8 mm. Utiliser les vis M4 de 8-10 diamètre pour le montage de votre moniteur.

Remarque : Le support de montage doit pouvoir supporter un poids d'au moins 7.67 lb (3,48kg).

2.2 About Wall Mount

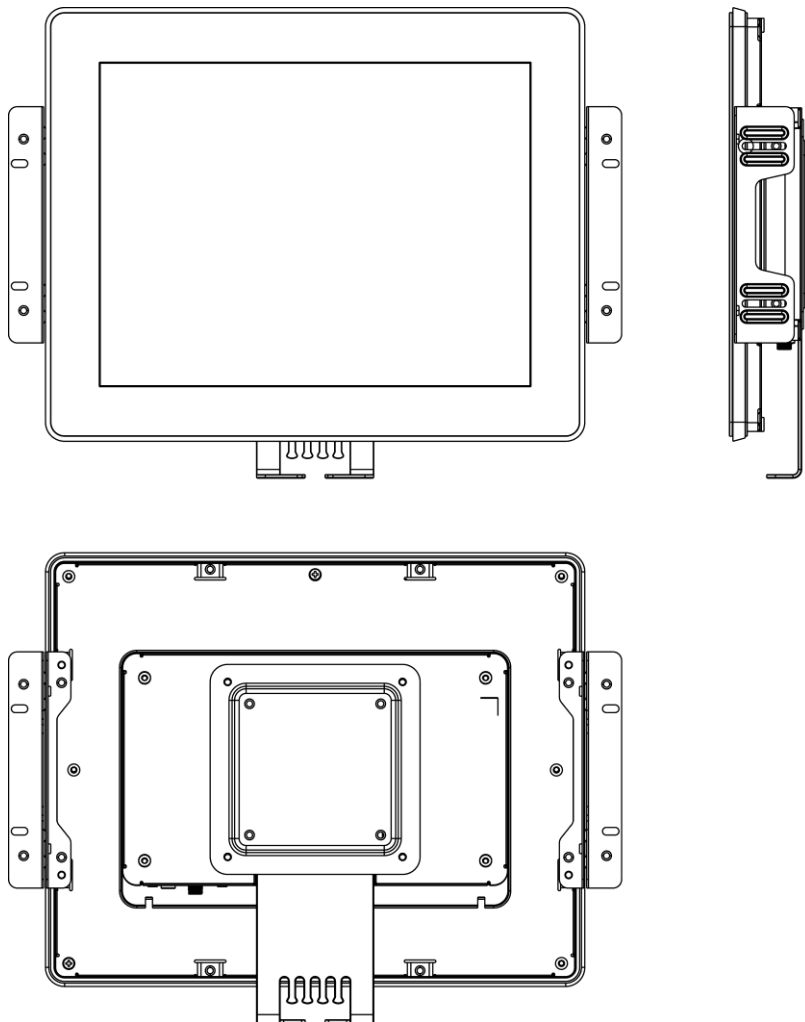
The OF-120P-A1 series support wall mount and this monitor can be mounted to the wooden or concrete wall with 8xM4 screws diameter with 6mm length and two bracket set on the opposites.

2.2.1 Landscape

Depending on your mounting scheme, alternately, you may use the side brackets to mount your displays onto your wall or device.

Find a suitable location for attaching side brackets.

- A. The left and right sides
- B. The Top and bottom sides





Warning!

This apparatus is intended to be supported by a Listed Wall Mount Bracket" or the equivalent.

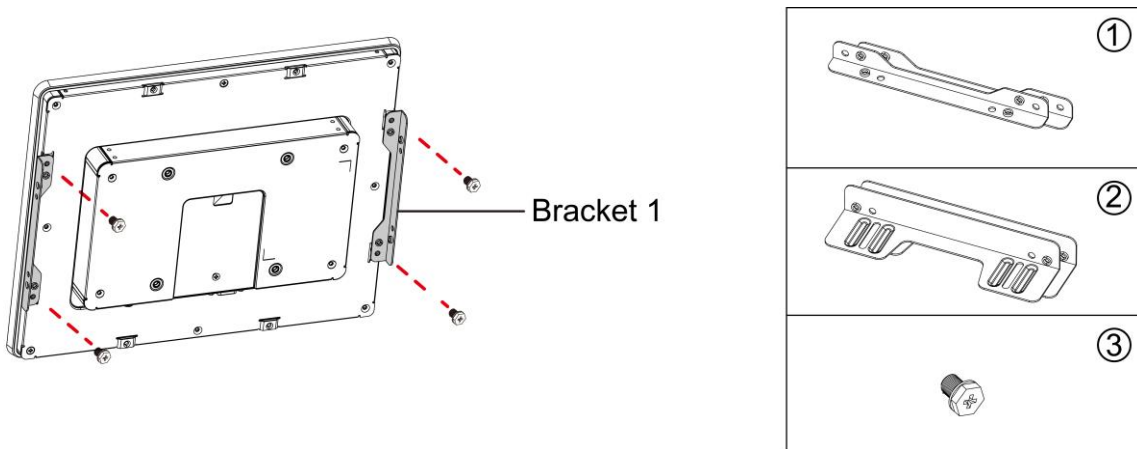


Mise en garde!

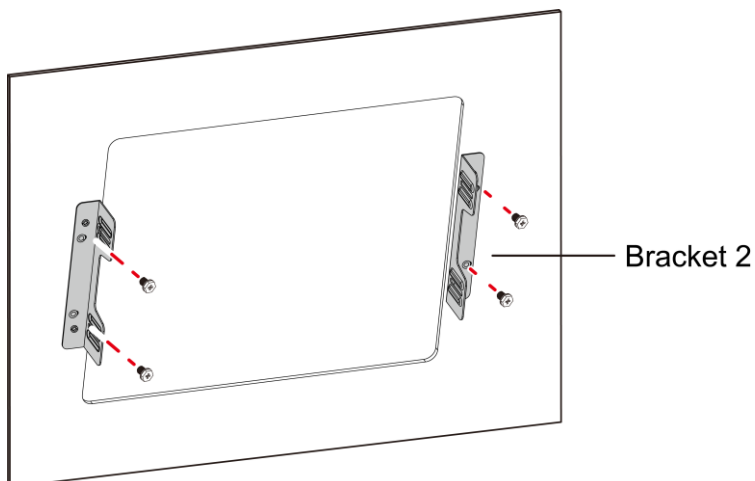
Cet appareil est conçu pour être supporté par un support de fixation mural répertorié "ou l'équivalent.

2.2.2 Face Up

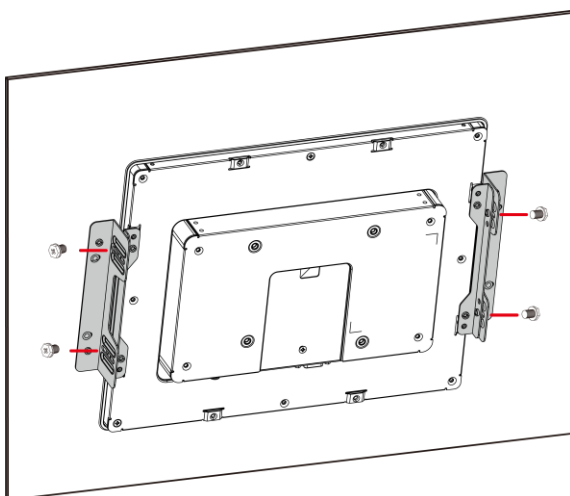
Step1: Attach Bracket 1 to Assembly OF-120P-A1 with included screws.



Step2: Attach Bracket 2 on customer's cabinet with screws.



Step3: Attach Step1 to Step2 with included screws.



2.3 On-Screen Display

The OF-120P-A1 series provide RJ45 port for connecting with OSD remote key. And the following is OSD key function table:

Key \ Fun	Menu off status	Menu on status
MENU	Menu appear	Menu disappear/ return to main item
UP	Brightness	Main item select up/ Adjust up
DOWN	Contrast	Main item select down/ Adjust down
SELECT	Source Select	Enter/Select sub-item function
Power	Power On/Off	

Enable/Disable

1. Press the "MENU" button to pop up the "on-screen menu" and press "Up" or "Down" button to select among the four functions in the main menu.
2. Choose the adjustment items by pressing the "SELECT" button.
3. Adjust the value of the adjustment items by pressing the "Up" or "Down" button.
4. With the OSD menu on screen, press "Menu" button to return main menu or exit OSD.
5. The OSD menu will automatically close, if you have left it idle for a pre-set time.
6. To Lock / Unlock the OSD / Power menu buttons, press "Menu" and "Minus" at the same time to select.

OSD / Power the Lock / Unlock function.

Please note:

- a. When the OSD Lock function is selected, this indicates that all the buttons except "power" button are now disabled.
 - b. When the Power Lock function is selected, this indicates that the power key is disabled; user can not to turn off the monitor by "Power" key.
7. To disable the touch function, press "Menu" and "Enter" Key, at the same time.
 8. To enable the touch function, press "Menu" and "Enter" Key, at the same time for five seconds.
 9. Press the power key button, there will be an OSD window pop up to ask if it should be going off. If press the power key in five seconds, the monitor power will be off. If don't press the power key in five seconds, the OSD window will be gone and return to the normal status instead.
 10. Direct input select function.
 - a. Normal: Press and keep pressing "Select" key for 3 seconds, will change to pop up "source select" OSD.
 - b. Sleep status:
Press and keep pressing "Select" key for 1 seconds, will change to pop up "source select" OSD.

11. Factory mode: Press the "MENU" button to pop up the "on-screen menu" and select "Option" icon in "Factory" item, key in password "3","3","3","3" into factory mode.
12. Burn-in mode: In Factory mode to select "Burn In" item into Burin-in mode (unplug signal cable or do not enter the signal source).
13. Work time: In factory mode, displays monitor the work time counting in hours.

2.3.1 OSD Function Description

ITEM	CONTENT	Default
Contrast	The monitor luminance level control.	50
Brightness	The monitor backlight level control.	OF-120P-A1: 100
H-Positon	Moving screen image horizontal position to left or right.	NA
V-Positon	Moving screen image vertical position to up or down.	NA
Phase	The screen image horizontal dot clock adjustment.	NA
Clock	The screen image pixel phase adjustment.	NA
Auto Adjust	Fine-tune the image to full screen automatically.	NA
Color Temp	Color temperature selection.(9300K, 6500K, 5500K, 7500K, User)	USER
Sharpness	Adjust the screen sharpness.	50
OSD Timeout	OSD auto-disappear time selection.	15
OSD Positon	Moving OSD menu position.	User
OSD H-Positon	Moving OSD menu horizontal position to left or right.	50
OSD V-Positon	Moving OSD menu vertical position to up or down.	50
Touch Switch	Touch switch select. (Normal, Glove, Through-Glass)	Normal
Touch OSD	Adjust the operation of OSD function by touch function.	Always need 1st action by pressed key of remote OSD key.
Reset	Factory default value restored.	NA
OSD Language	OSD menu language selection. (English, French, Deutsch, Italian, Spanish, Japanese, Traditional Chinese and Simplified Chinese)	English
Source Select	OF-120P-A11 Select Input function.(Auto, VGA,HDMI)	Auto
Display port	Display current resolution related information.	NA
Factory	Factory mode related adjustment items.	NA

****When using the monitor for the first time, perform the “reset” function. Return the monitor to the default value.***

2.3.2 Timing Table Chart

Mode	Resolution	H-Freq. (KHz)	Band Width (MHz)	Polarity	
				H	V
1	640x480 60 Hz	31.47	25.175	-	-
2	800x600 60 Hz	37.88	40	+	+
3	1024x768 60 Hz	48.363	65	-	-

2.3.3 EDID Data

DP/HDMI

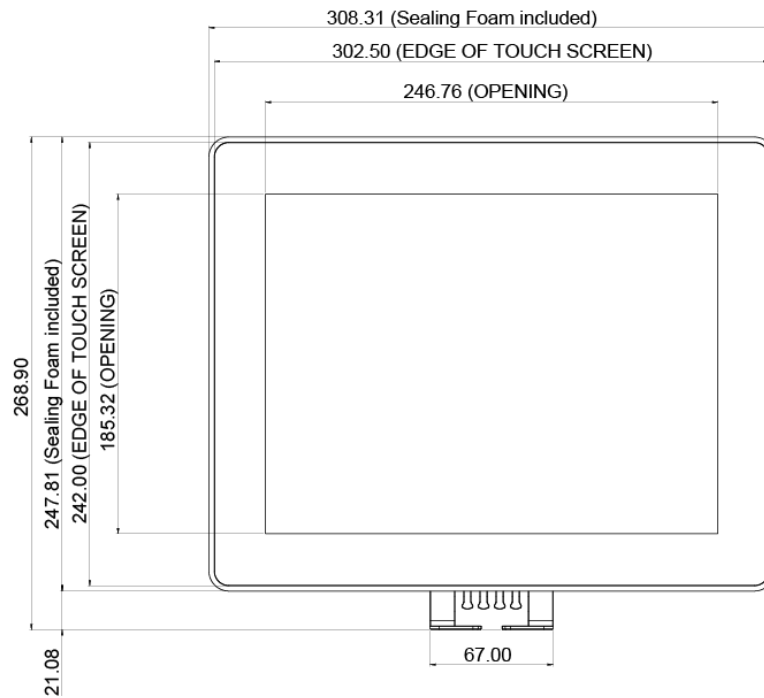
The monitor assembly shall provide a display communications channel that conforms to VESA DDC2B hardware requirements. This configuration shall contain the 256-byte EDID file as specified by VESA EDID Standard.

VGA

The monitor assembly shall provide a display communications channel that conforms to VESA DDC2B hardware requirements. This configuration shall contain the 128-byte EDID file as specified by VESA EDID Standard.

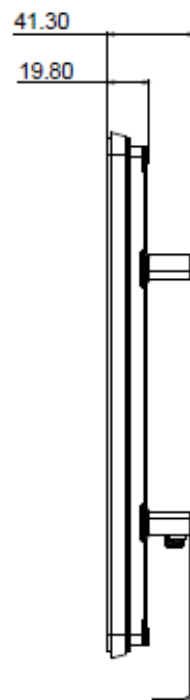
2.4 Dimension

2.4.1 Front View



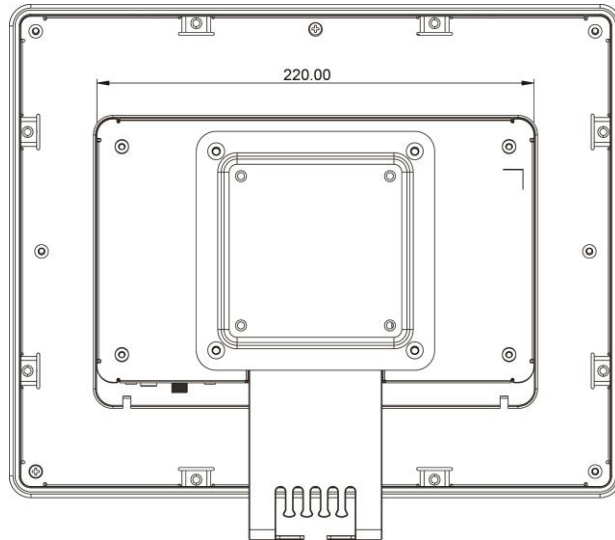
2.4.2 Side View

OF-120P-A1



2.4.3 Rear View

OF-120P-A1



Appendix

Declaration of the Presence Condition of the Restricted Substances Marking

設備名稱：觸控螢幕 Equipment name : Touch LCD Monitor		型號（型式）：OF-120P-A1 Type designation (Type) : OF-120P-A1				
單元 Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr ⁺⁶)	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
塑膠零件 Plastic Parts	○	○	○	○	○	○
金屬零件 Metal Parts	-	○	○	○	○	○
線纜和電纜組件 Cable component	-	○	○	○	○	○
薄膜液晶面板 LCD Panel	-	○	○	○	○	○
觸控式螢幕面板 Touch Panel	-	○	○	○	○	○
電路板 PCBA	-	○	○	○	○	○
軟體(光碟..等) Software	○	○	○	○	○	○
<p>Note 1 : “Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition. °</p> <p>Note 2 : “○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.</p> <p>Note 3 : The “-” indicates that the restricted substance corresponds to the exemption.</p>						