User Manual

Version 2.0 2021/03

OF-170P-A1

Open Frame Touch Monitor

MicroTouch™

About This Document

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Compliance Information

For FCC (USA)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. 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.

For IC (Canada)

CAN ICES-3(B)/NMB-3(B)

For CE (EU)

The device complies with the EMC Directive 2014/30/EU and Low Voltage Directive 2014/35/EU

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Renseignements relatifs à la conformité

Pour la FCC (États-Unis).
Ce matériel a fait l'objet d'essais qui ont déterminé qu'il respectait les limites d'un appareil de classe B selon la partie 15 des règlements de la FCC. Ces limites sont établies pour assurer une protection raisonnable contre les parasites nuisant à une installation résidentielle. Ce matériel génère, utilise et peut émettre des ondes radio électriques, et lorsqu'il n'est pas installé et utilisé selon les instructions, peut causer des parasites nuisant aux communications radio. Il n'y a toutefois aucune garantie qu'il n'y aura pas de parasites dans une installation en particulier. Si ce matériel cause des parasites à la réception d'ondes radio ou de télévision, ce qui peut être déterminé en l'éteignant et en l'allumant, l'utilisateur est invité à essayer de corriger le problème des parasites par l'une ou l'autre des mesures suivantes :
• Réorienter ou déplacer l'antenne de réception.
• Augmenter la distance entre le matériel et la réception.
• Brancher le matériel dans une prise sur un autre circuit que celui où le récepteur est branché.
• Consulter le distributeur ou un technicien radio ou TV expérimenté pour des conseils.

L'appareil respecte la partie 15 des règlements de la FCC. Le fonctionnement doit respecter les deux conditions suivantes : 1) cet appareil ne doit pas causer de parasites et (2) cet appareil doit accepter tous les parasites reçus, notamment ceux pouvant causer un fonctionnement non voulu.

Pour Industrie Canada
Norme canadienne NMB-3(B)

Pour la CE (UE)
L'appareil respecte la directive 2014/30/UE relative à la compatibilité électromagnétique et la directive 2014/35/EU sur les limites de basse tension

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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 - The cable cover cannot be removed under normal use conditions.**

⚠ **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.

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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 – La gaine du câble ne doit pas être retirée en conditions normales d'utilisation.**
>
> ⚠ **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

Veuillez 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 nettoyants 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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Table of Contents

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Chapter 1

Product Introduction

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1.1 Overview

The OF-170P-A1 series is developed for finance industry or hospitality. The OF-170P-A1 is a 17.0 inches touch display which uses the last touch technology.

1.2 Feature

- Support 75mm and 100mm VESA mount
- 1280 x 1024 resolution
- Touch type: Projected Capacitive
- Touch point: 10 points

1.3 Specifications

LCD Touch Panel	
Size	17.0" TFT LCD
Brightness	215 cd/m^2 (P-CAP)
Number of Pixels	1280 (H) × 1024 (V)
Touch Type	P-CAP/ 10 points
Environment	
Certificate	CE、FCC
Compliance	IP65 Front Bezel
Operating Temperature	0°C ~ 40°C
Storage Temperature	-20°C ~ 60°C
Operating Humidity	20% ~ 80% RH, non-condensing
Mounting	VESA 100 mm x 100 mm, 75 mm x 75 mm
Dimension (W x H x D)	394.0 mm x 330.0 mm x 57.1 mm
Net Weight	4.8 kg
Gross Weight	7.0 kg

! *CAUTION!*

Risk of explosion if battery is replaced by an incorrect type.
*Dispose of used batteries according to the instruction.*

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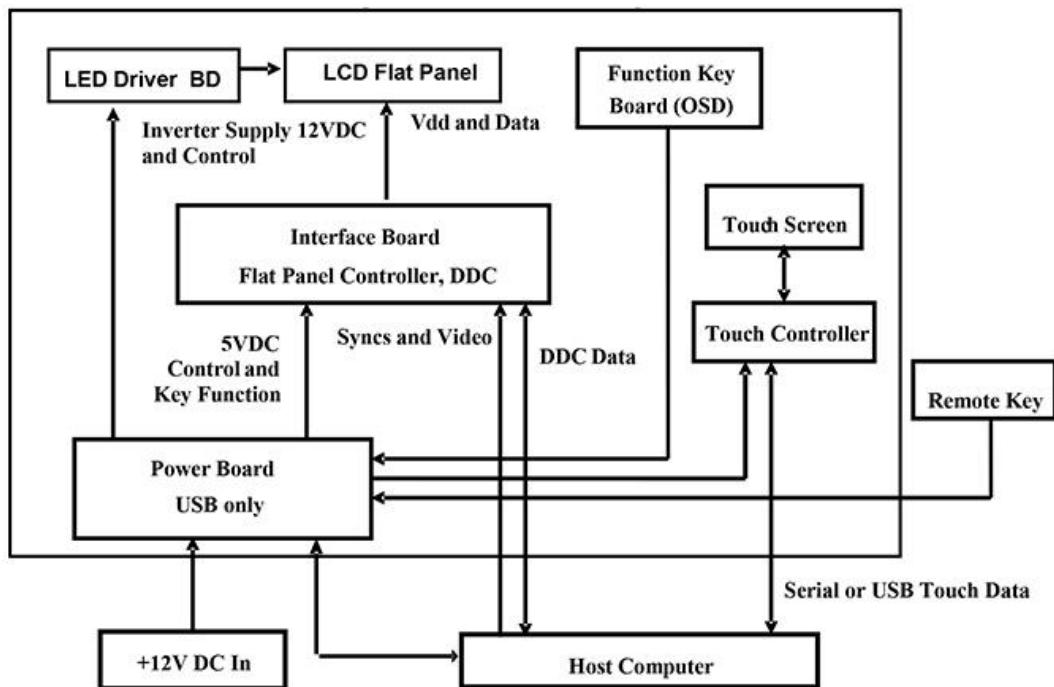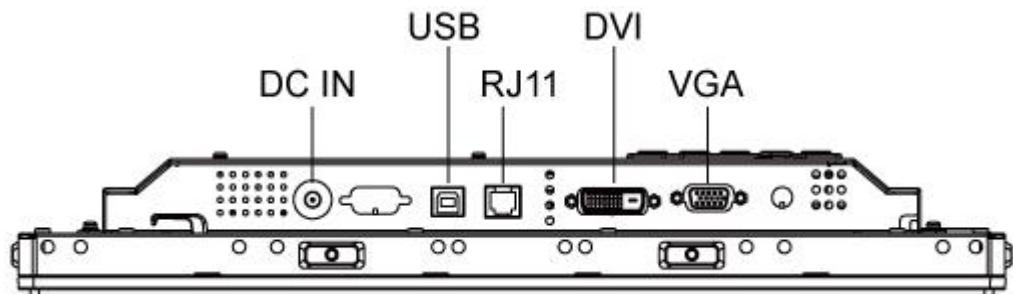
⚠ ***MISE EN GARDE!***

Risque d'explosion si la batterie est remplacée par un type incorrect.
Jetez les piles usages conformément aux instructions.

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1.4 Block Diagram

MicroTouch™
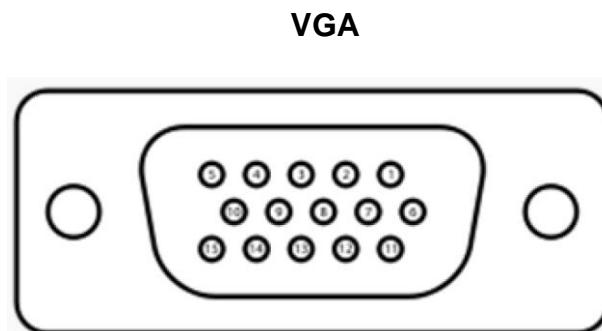
## 1.5 Interface Connectors

1.5.1 Power Connector
The DC input power via 2.1mm DC jack. All DC power cables must be latching.
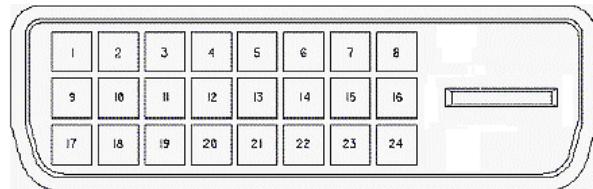
1.5.2 Video Signal Connector

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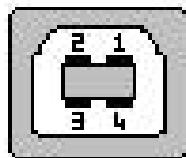
Pin	Signal	Pin	Signal
1	RED	9	+5V
2	GREEN	10	GND
3	BLUE	11	NC
4	NC	12	SDA
5	GND	13	HSYNC
6	RED_RTN	14	VSYNC
7	GREEN_RTN	15	SCL
8	BLUE_RTN		

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DVI

Pin	Signal	Pin	Signal
1	TMDS Data 2-	13	TMDS 3+
2	TMDS Data 2+	14	+5V DDC Power
3	TMDS Data 2/4 Shield	15	Gnd (+5, Analog V/H Sync)
4	TMDS 4-	16	Hot Plug Detect
5	TMDS 4+	17	TMDS Data 0-
6	DDC Clock	18	TMDS Data 0+
7	DDC Data	19	TMDS Data 0/5 Shield
8	No Connection	20	TMDS Data 5-
9	TMDS Data 1-	21	TMDS Data 5+
10	TMDS Data 1+	22	TMDS Clock Shield
11	TMDS Data 1/3 Shield	23	TMDS Clock+
12	TMDS 3-	24	TMDS Clock-C1

USB 2.0
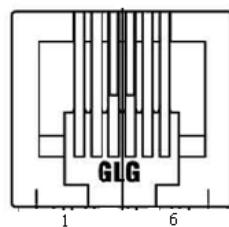
Pin	Signal
1	USB5V
2	D-
3	D+
4	GND
Note	
Every on USB2.0 Power current provide 1A(Regular)	
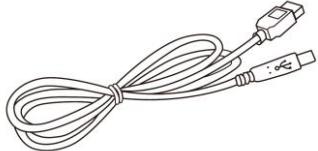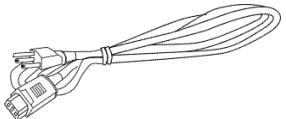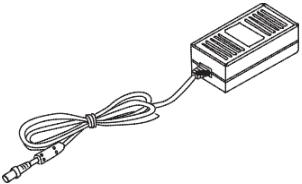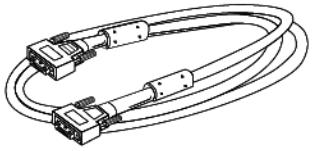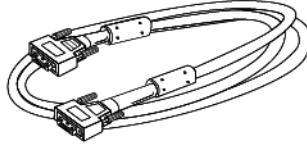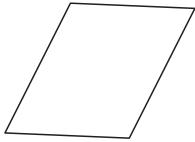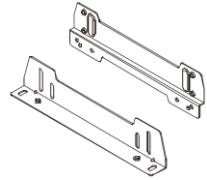
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RJ11 Connector (Remote Key)

Pin	Signal
1	MENU
2	UP
3	DOWN
4	SELECT
5	POWER
6	GND

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1.6 Package Overview

LCD Display	USB Cable(A to B)	Power Cord
DC Power Supply	VGA cable	DVI cable
User Manual QR-code sheet	Bracket screws	Side brackets

⚠ *__Warning!__*

__This product is intended to be supplied by a Listed Power Adapter or DC power source, rated 12Vdc, 3A minimum, Tma = 40 degree C minimum, and the altitude of operation = 3048m minimum. If it needs further assistance with purchasing the power source, please contact to MicroTouch for further information.__

⚠ *__Mise en garde!__*

__Cet appareil est destiné à être alimenté par un adaptateur secteur homologué ou une source d'alimentation CC, d'une tension nominale de 12Vdc, 3A minimum, Tma = 40 degrés C minimum et l'altitude de l'utilisation = 3048m minimum. Pour d'autres conseils pour l'installation de la source d'alimentation, communiquer avec MicroTouch pour de plus amples renseignements.__

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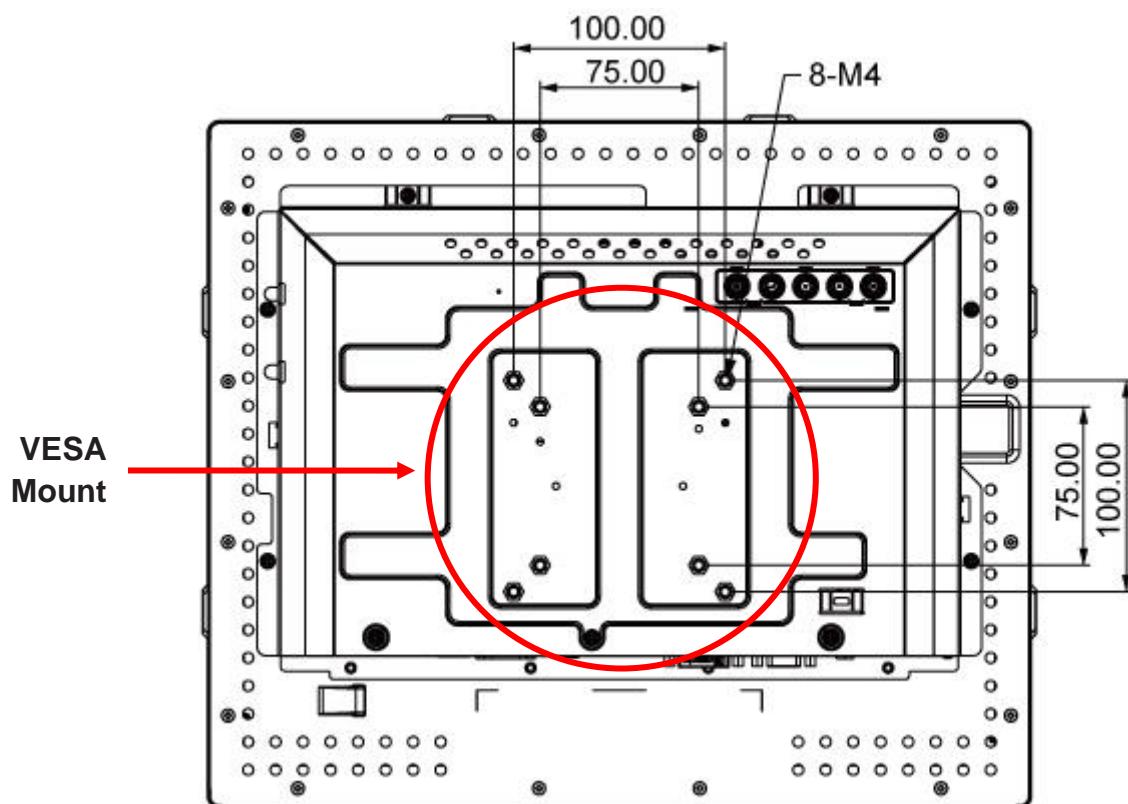
Chapter 2

Product Installation

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2.1 About VESA Mount

The OF-170P-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 proper length to mount your monitor.__

__Note: The mounting stand must be able to support at least 17.6 lbs (8 Kg).__

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⚠ ***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 quatre M4 de diamètre avec la longueur appropriée pour monter votre moniteur.

Remarque : Le support de montage doit pouvoir supporter un poids d'au moins 17.6 lb (8 Kg).

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2.2 About Wall Mount
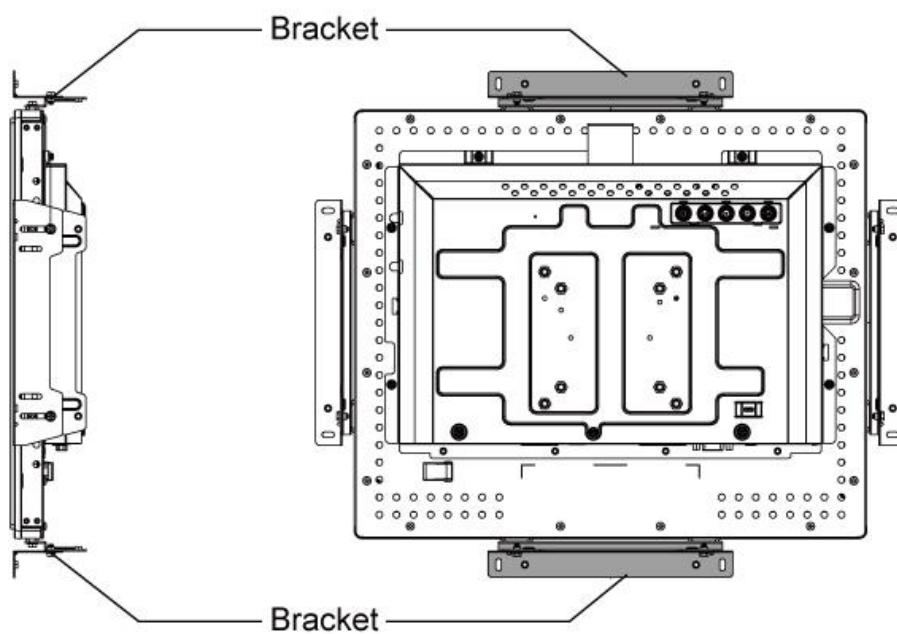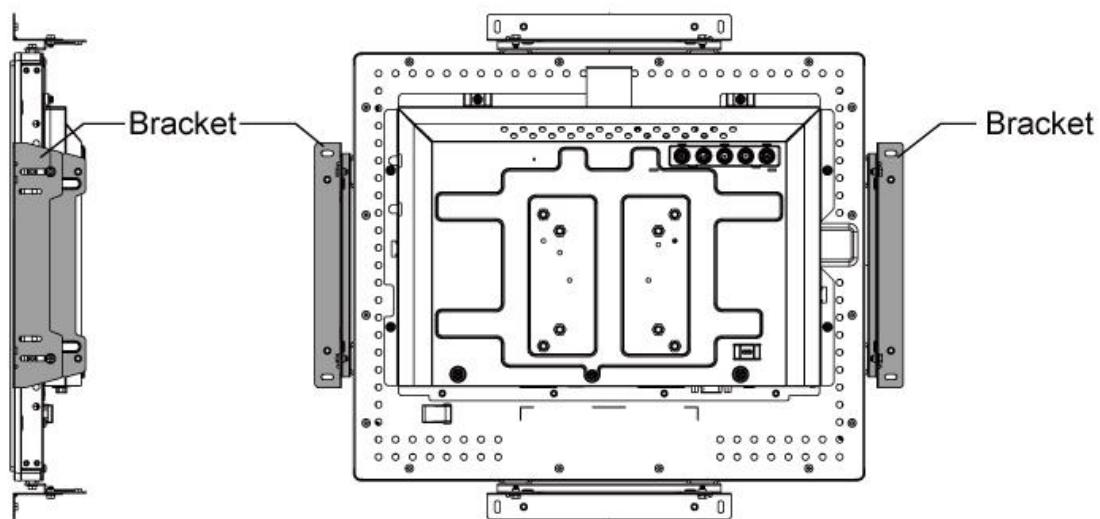
The OF-170P-A1 series support wall mount, and this monitor can be mounted to the wooden or concrete wall with 8 screws and four brackets on the opposites.

2.2.1 Attaching the side Brackets

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
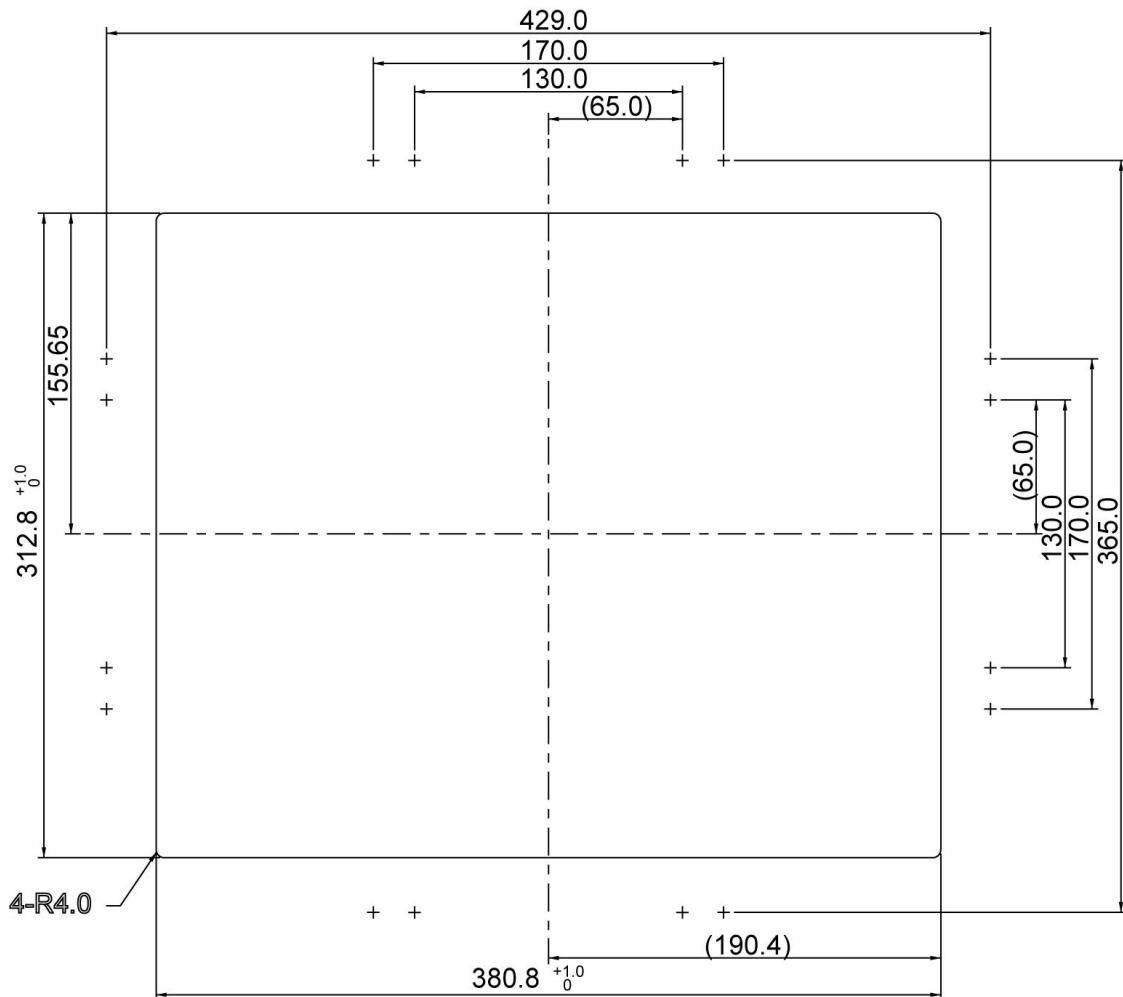
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2.2.2 Customer panel material

A. Wooden wall: Ø4.5mm thru holes for M4 screws w/nuts, or no thru holes, screws for wood4mm.
B. Sheet metal: concealed head threaded studs M4 w/nuts.

⚠ **_Warning!_**
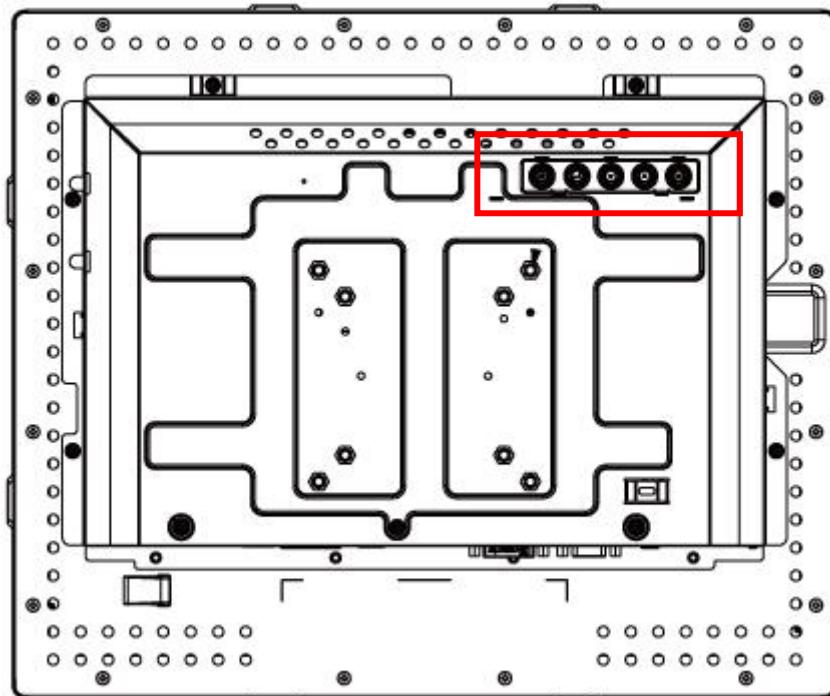
This apparatus is intended to be supported by a Listed Wall Mount Bracket'' or the equivalent.

⚠ **_Mise en garde!_**

Cet appareil est conçu pour être supporté par un support de montage mural homologué ''ou l'équivalent.

2.3 On-Screen Display

| OSD / Key	Menu off status	Menu on status
☰	Menu appear	Menu disappear/ return to main item
▲	Brightness	Main item select up/ Adjust up
▼	Contrast	Main item select down/ Adjust down
↵	Enter/Select sub-item function	
⏻	Power On/Off	

1. Press the "MENU" button to pop up the "on-screen menu" and press "Up" or "Down" button to select among the six functions in the main menu.
2. Choose the adjustment items by pressing the "Enter " 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:

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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
    Press and keep pressing "Select" key for 5 seconds, will change to another one input source.
    Please note:
    When choosing VGA, only VGA signal can wake up monitor. When choosing DVI, only DVI can wake up the monitor.

11. Factory mode:
    In power off status and plug signal cable, press the "Plus" and "Minus" key at the same time press "Power" key on into factory mode.

12. Burn-in mode:
    In power off status and pull out signal cable, press the "Menu" and "Plus" key at the same time press "Power" key on into Burin-in mode.

13. Work time:
    In factory mode, displays monitor the work time counting in hours.

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2.3.1 OSD Function Description

ITEM	CONTENT
Contrast	The monitor luminance level control.
Brightness	The monitor backlight level control.
Auto Adjust	Fine-tune the image to full screen automatically.
Left/Right	Moving screen image horizontal position to left or right.
Up/Down	Moving screen image vertical position to up or down.
Horizontal size	The screen image horizontal dot clock adjustment.
Fine	The screen image pixel phase adjustment.
OSD Left/Right	Moving OSD menu horizontal position to left or right.
OSD Up/Down	Moving OSD menu vertical position to up or down.
OSD Time out	OSD auto-disappear time selection.
OSD Language	OSD menu language selection. (English, French, Japanese, Deutsch, Spanish, Italian, Traditional Chinese and Simplified Chinese)
Factory Reset	Factory default value restored.
RGB	Color temperature selection. (9300K, 6500K, 5500K, 7500K, User)
Input Select	Select Input function. (Auto, VGA,DVI)

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2.3.2 Timing Table Chart

Mode	Resolution	H-Freq. (KHz)	Band Width (MHz)	Polarity H	V
1	720x400 70Hz	31.47	28.322	−	+
2	VGA 640x480 60Hz	31.47	25.175	−	−
3	MAC 640x480 66Hz	35	30.24	−	−
4	640x480 72Hz	37.86	31.5	−	−
5	640X480 75Hz	37.5	31.5	−	−
6	800x600 56Hz	35.16	36	+	+
7	800x600 60Hz	37.88	40	+	+
8	800x600 72Hz	48.077	50	+	+
9	800x600 75Hz	46.875	49.5	+	+
10	832x624 (74.55Hz)	49.722	57.28	−	−
11	1024x768 (60.0 Hz)	48.363	65	−	−
12	1024x768 (70.0 Hz)	56.476	75	−	−
13	1024x768 (75.0 Hz)	60.02	78.75	+	+
14	SXGA 1280x1024 60Hz	64	108	+	+
15	SXGA 1280x1024 75Hz	80	135	+	+
16	SXGA 1152x864 75Hz	67.5	108	+	+
17	SXGA 1280x960 60Hz	60	108	+	+

2.3.3 EDID Data

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.
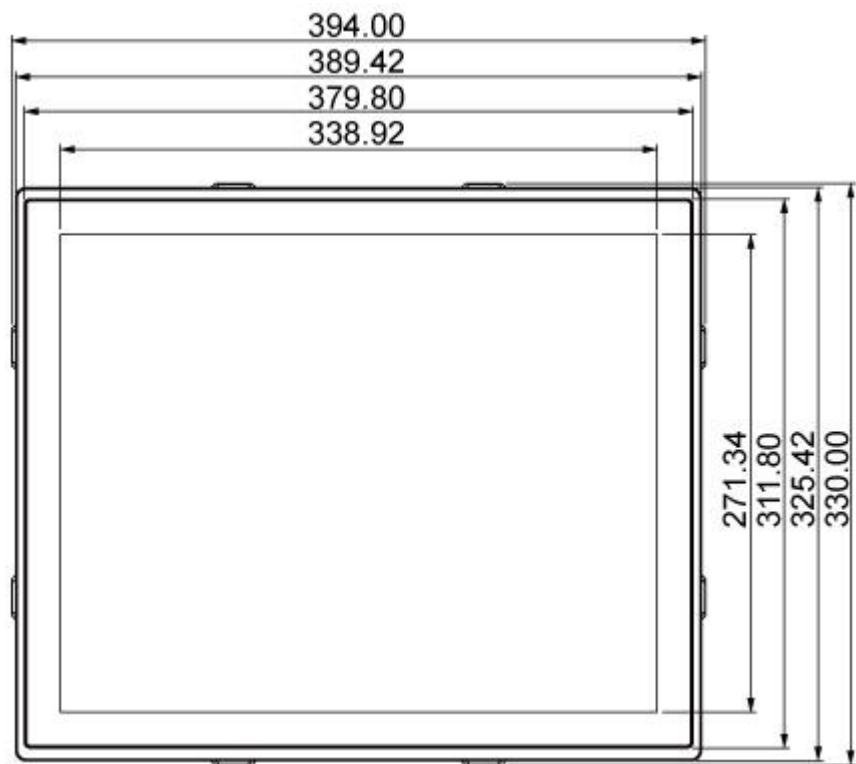
```
Monitor
Model name............... OF-170P-A1
Manufacturer............. STD
Plug and Play ID........ STD3082
```
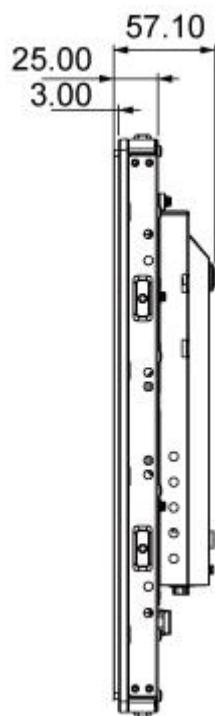
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2.4 Dimension
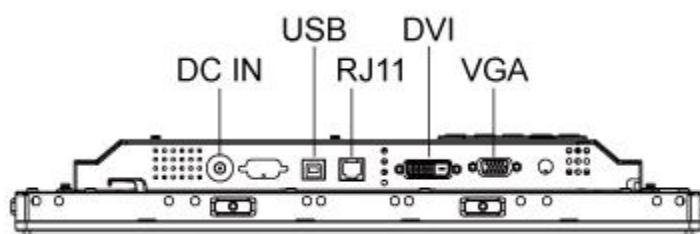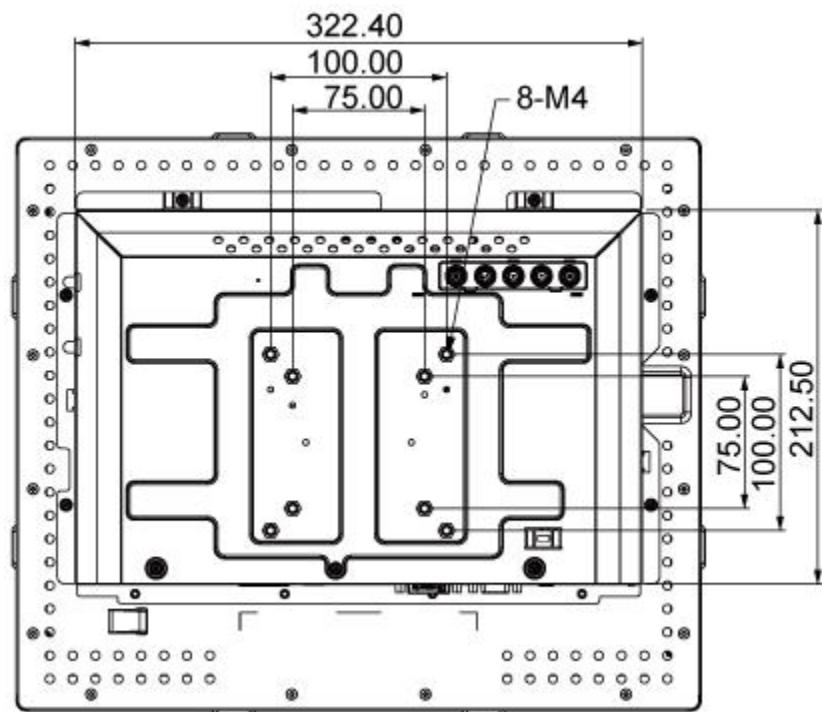
2.4.1 Front View

2.4.2 Side View

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2.4.3 Rear View

Appendix

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Declaration of the Presence Condition of the Restricted Substances Marking

設備名稱：觸控螢幕　　　　　　　　　　　　型號（型式）：OF-170P-A1
Equipment name：Touch LCD Monitor　　　Type designation (Type) ：OF-170P-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	○	○	○	○	○	○

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.。

Note 2： 〝○〞indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.

Note 3：The 〝-〞indicates that the restricted substance corresponds to the exemption.

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