

User Manual

IC-156P-AA2

Interactive Computer



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 A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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(A)/NMB-3(A)

For CE (EU)

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

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 A selon la partie 15 des règlements de la FCC. Ces limites sont établies pour assurer une protection raisonnable contre les parasites nuisant à un fonctionnement dans un environnement commercial. Ce matériel génère, utilise et peut émettre des ondes radio électriques, et lorsqu'il n'est pas installé et utilisé selon le manuel d'instructions, peut causer des parasites nuisant aux communications radio. L'utilisation de ce matériel dans une zone résidentielle est susceptible de causer des parasites auquel cas l'utilisateur est tenu de corriger le problème des parasites à ses propres frais.

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(A)

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

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.

Caution

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

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

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.

Mise en garde

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

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Chapter 1

Product Introduction

1.1 Overview

The IC-150P-AA2 series is a thinner 15.6” touch computer that offers a unique screw less design with expandability and flexibility, making expansion and accessory installation much easier. The versatility of IC-150P-AA2 series is an exceptional choice for applications in all business sectors, especially in the retail market.

1.2 Feature

- Support Rock chip RK3399 processor for A2 version and Intel J1900 processor for B1 version.
- Unique screw less design for better user experience.
- Patented I/O design for better wiring management while implementation.

1.3 Specifications

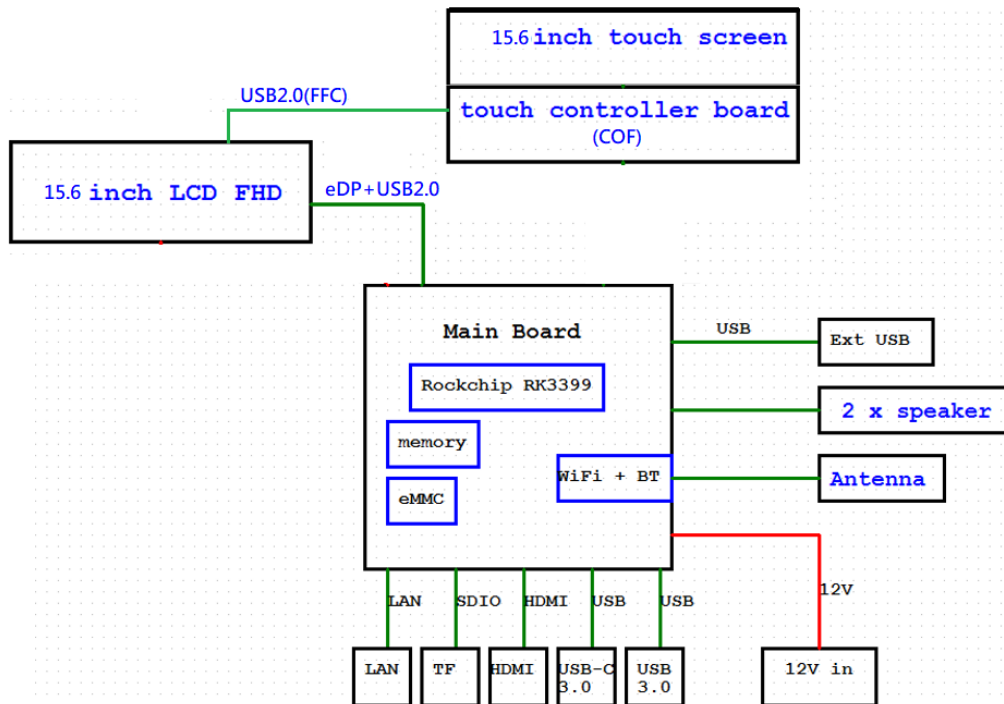
System (IC-150P-AA2)	
CPU	Rock chip RK3399, Dual-core Cortex-A72 up to 1.8GHz, Quad-core Cortex-A53 up to 1.4GHz
GPU	Mail-T860 MP4
DDR	4GB dual channel LPDDR4
Storage	32GB eMMC
Input Power	DC in 12V/4A 2PIN
Display	Internal eDP panel, resolution 1920x1080, 50khrs LED backlight
Touch	15.6-inch P-Cap touch sensor, supports 10 fingers touch function.
Audio	2 x speaker (2W x 2)
Network	Gigabit Ethernet Wi-Fi 802.11a/b/g/n/ac, 1T1R Bluetooth 4.0 (Support BLE)
External IO Ports	1 x LAN (Support 10/100/1000Mbps) 1 x TF slot (Support micro SDHC 2.0) 1 x HDMI (Support 4K@60Hz)

	1 x USB3.0 Type-C specification V1.1 / OTG (5Vdc / 1A) 1 x USB-A 3.0 1 x 12V DC-in 1 x Power button
Internal IO Ports (inside plastic cover)	2 x connector (5V/0.5A)
OS Version	Android 9.0
Operation Temp.	0°C~40°C
Storage Temp.	-20°C to 60°C
Operation Humidity	20~80%, Non-Condensing
Storage Humidity	10~90%, Non-Condensing
LCD Touch Panel	
Size	15.6" TFT LCD
Brightness	450 nits (No Touch), 405 nits (P-CAP)
Number of Pixels	1920 (H) × 1080 (V)/ 60Hz
Tilt Angle	8°~68°
Environment	
Certificate	CE、FCC、LVD
Mounting	VESA 100 mm x 100 mm
Dimension (W x H x D)	System Only <ul style="list-style-type: none"> • IC-156P-AA2: 369.1 mm x 223.7 mm x 27.2 mm System with Stand Module <ul style="list-style-type: none"> • IC-156P-AA2: 369.1 mm x 290.5 mm x 169.4 mm
Net Weight	System Only <ul style="list-style-type: none"> • IC-156P-AA2: 1.805 Kg System with Stand Module <ul style="list-style-type: none"> • IC-156P-AA2: 3.805 Kg
Gross Weight	System Only

	<ul style="list-style-type: none">• IC-156P-AA2: 2.8 Kg System with Stand Module <ul style="list-style-type: none">• IC-156P-AA2: 5.78 Kg
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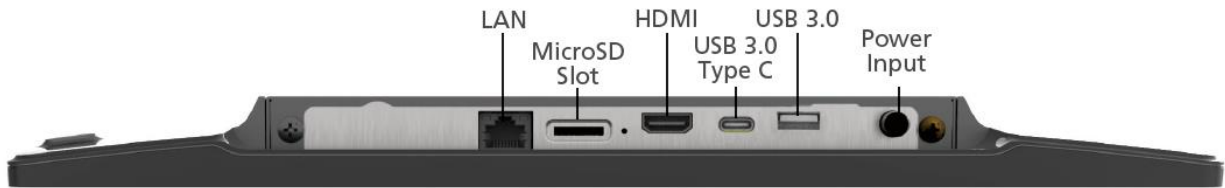
1.4 Block Diagram

1.4.1 IC-156P-AA2

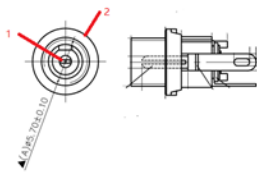


1.5 Interface Connectors

1.5.1 IC-156P-AA2

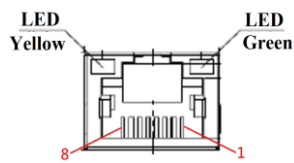


12V DC in



Pin #	Signal Name	Pin #	Signal Name
1	12V	2	GND

RJ45 for LAN



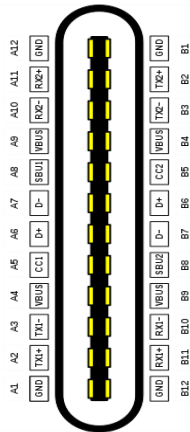
Pin #	Signal Name	Pin #	Signal Name
1	TP1+	2	TP1-
3	TP2+	4	TP3-
5	TP3+	6	TP2-
7	TP4+	8	TP4-
LED	Function	Color	
Left	Active	Yellow (Blink)	
Right	10M/100M/1000M	Green	

USB3.0



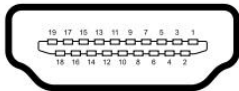
Pin #	Signal Name	Pin #	Signal Name
1	USB5V	2	D-
3	D+	4	GND
5	SSRX-	6	SSRX+
7	GND_DRAIN	8	SSTX-
9	SSTX+		

USB-C



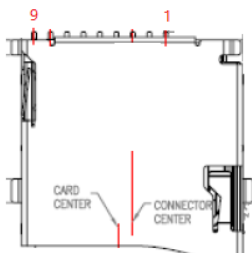
Pin #	Signal Name	Pin #	Signal Name
A1	GND	B12	GND
A2	SSTXp1	B11	SSRXp1
A3	SSTXn1	B10	SSRXn1
A4	VBUS	B9	VBUS
A5	CC1	B8	SBU2
A6	Dp1	B7	Dn2
A7	Dn	B6	Dp2
A8	SBU1	B5	CC2
A9	VBUS	B4	VBUS
A10	SSRXn2	B3	SSTXn2
A11	SSRXp2	B2	SSTXp2
A12	GND	B1	GND

HDMI



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

TF card

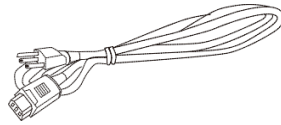


Pin #	Signal Name	Pin #	Signal Name
1	DAT2	2	DAT3
3	CMD	4	VCC
5	CLK	6	GND
7	DAT0	8	DAT1
9	CD		

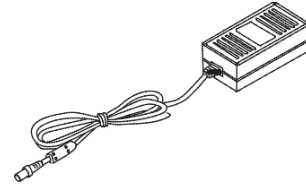
1.6 Package Overview



Touch Computer



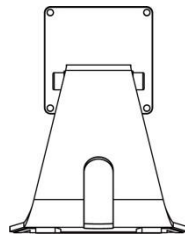
Power Cord



DC Power Supply



Screw



Stand Module
(Optional)

Warning!

This product is intended to be supplied by a UL Listed Power Adapter, rated 12Vdc, 5A minimum. (complied with LPS or PS2) 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 conçu avec une alimentation de courant CA, d'une tension nominale de 12Vdc, 5A minimum. (conforme au LPS ou PS2) 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.

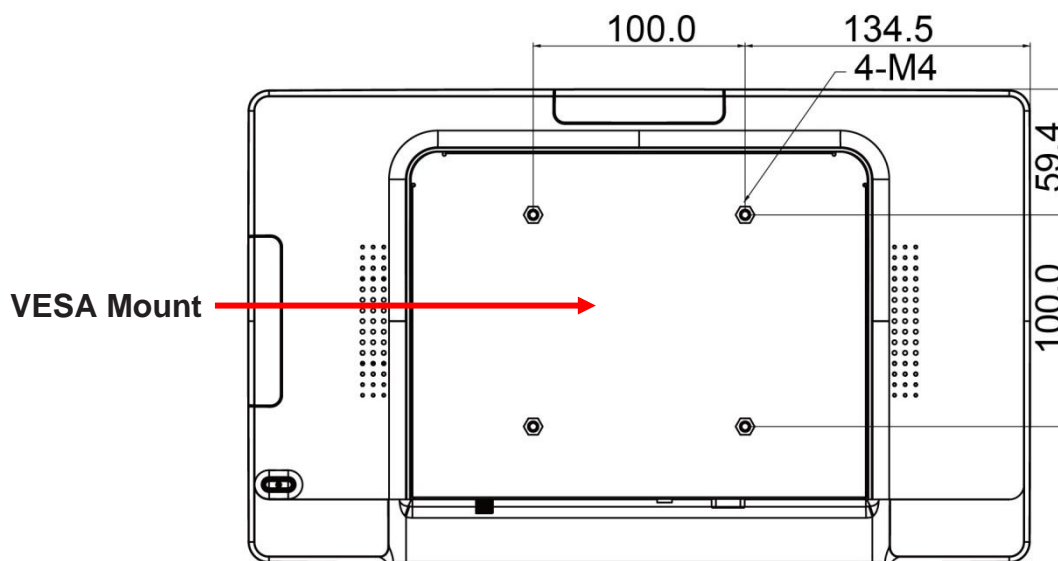
Chapter 2

Product Installation

2.1 About VESA Mount

The IEC-15 series conform to the “VESA Flat Display Mounting Interface Standard” which defines a physical mounting interface for touch computer, and corresponding with the standards of touch computer mounting devices, such as wall-mounted. The VESA mount is located on the back of this unit.

The equipment is only for wall mounting for horizontal (output connector facing down) and vertical mounting orientations (output connector facing left or right) when EUT without base. The equipment with base used for horizontal (output connector facing down) and panel facing up position.



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 / 8 mm screws diameter with proper length to mount your monitor.*

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



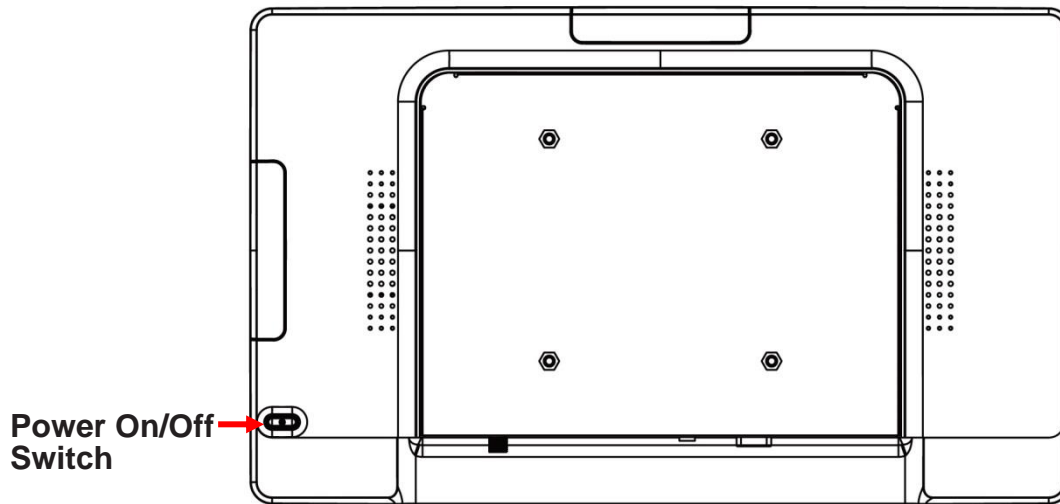
Mise en garde!

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 quatre vis M4 de 8 mm de diamètre pour le montage de votre moniteur.

Remarque : Le support de montage doit pouvoir supporter un poids d'au moins 7,67 lb (3,48 kg).

2.2 Power On / Off Switch



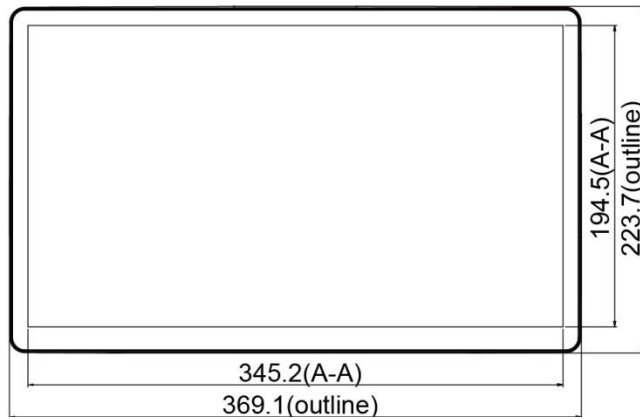
IC-156P-AA2

Function	Description
Power on	Press the power button 2 sec
Sleep	Press the power button to enter sleep mode, and press again to resume from sleep
Power off	Press the power button 2 sec and click power off.

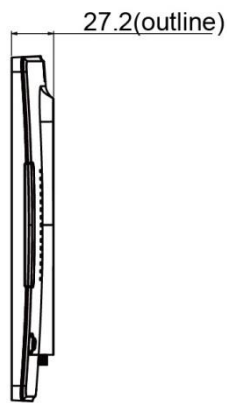
2.3 Dimension

2.3.1 IC-156P-AA2 (System Only)

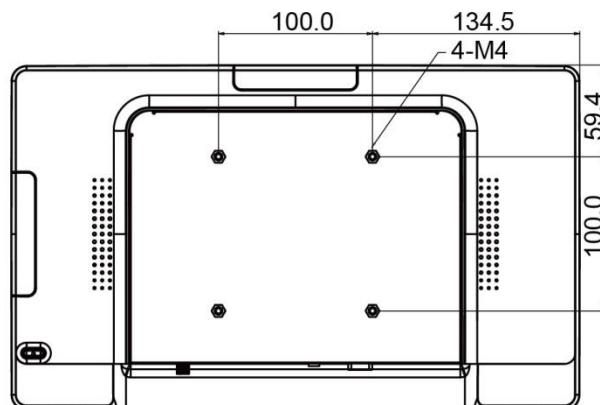
Front View



Side View



Rear View

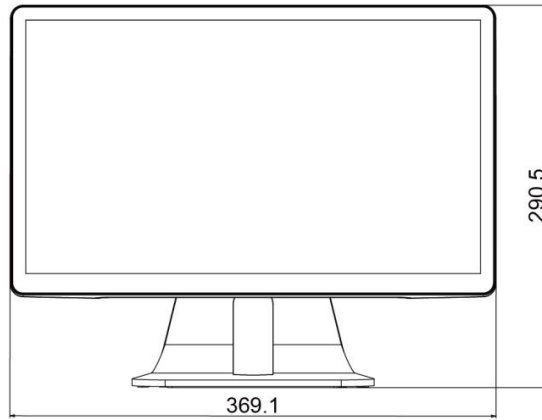


Bottom View

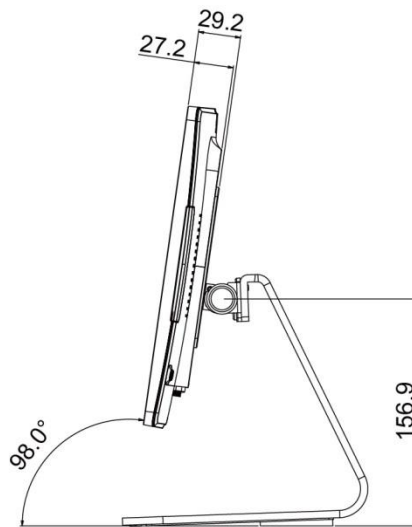


2.3.2 IC-156P-AA2 (System with Stand Module)

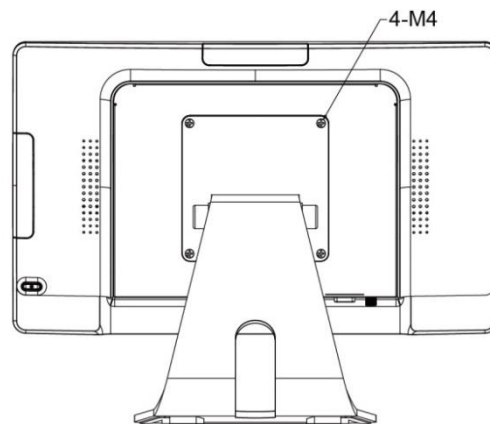
Front View



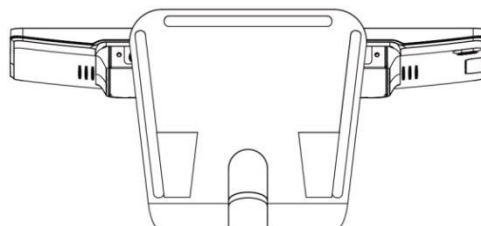
Side View



Rear View



Bottom View

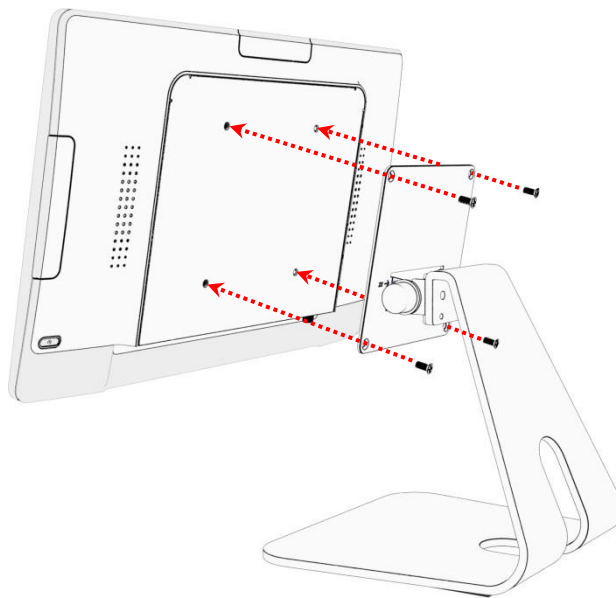


2.4 Optional Accessory Installation

Note: Please install/ dismantle the product when the computer system is in the shutdown state.

2.4.1 Install the Stand Module

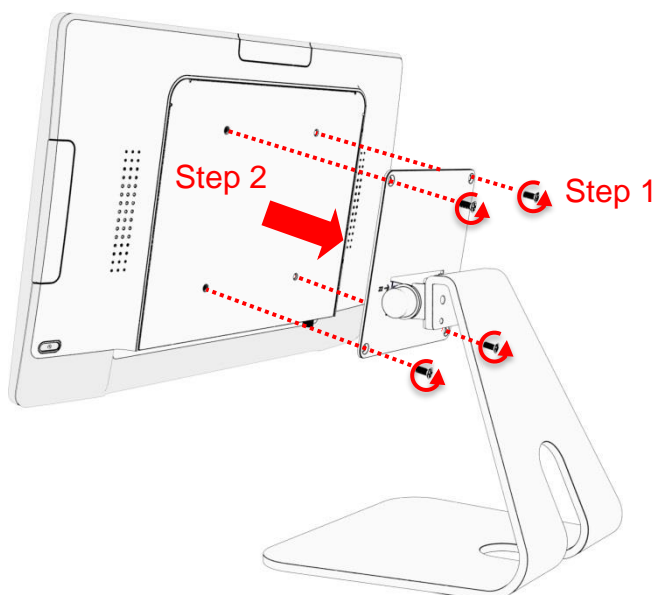
Place stand module on back of touch computer and align the screw holes. Install the four M4 screws to fasten the stand module.



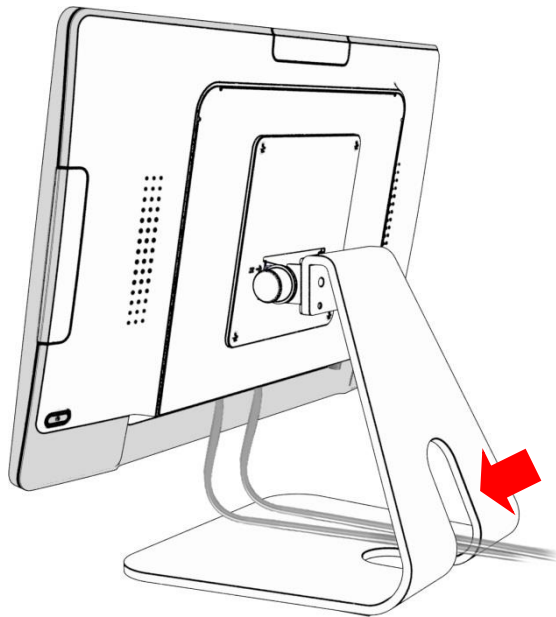
2.4.2 Dismantle the Stand Module

Step 1: Loosen the screws

Step 2: Pull it to out from touch computer and remove stand module.



2.4.3 Install the Cables



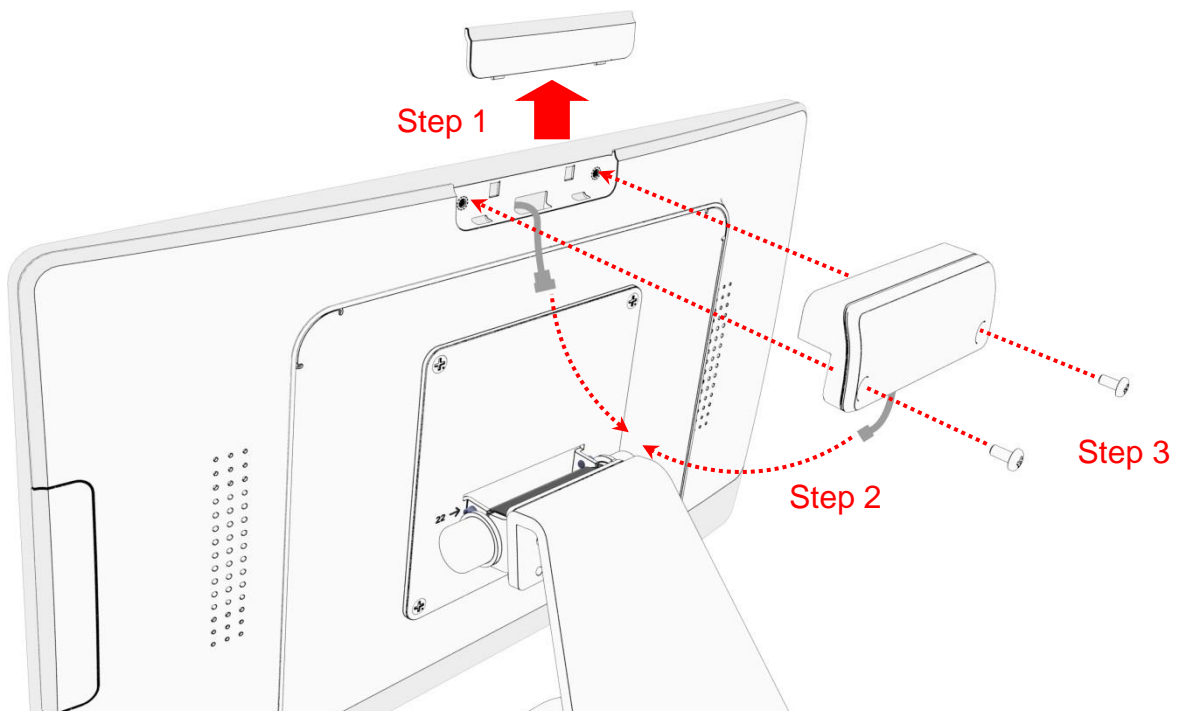
2.4.4 Install the Camera Module

Camera Module max. 19g

Step 1: Remove the side cover.

Step 2: Connect the camera module cable to the touch computer.

Step 3: Install the two M3 screws to fasten the camera module.

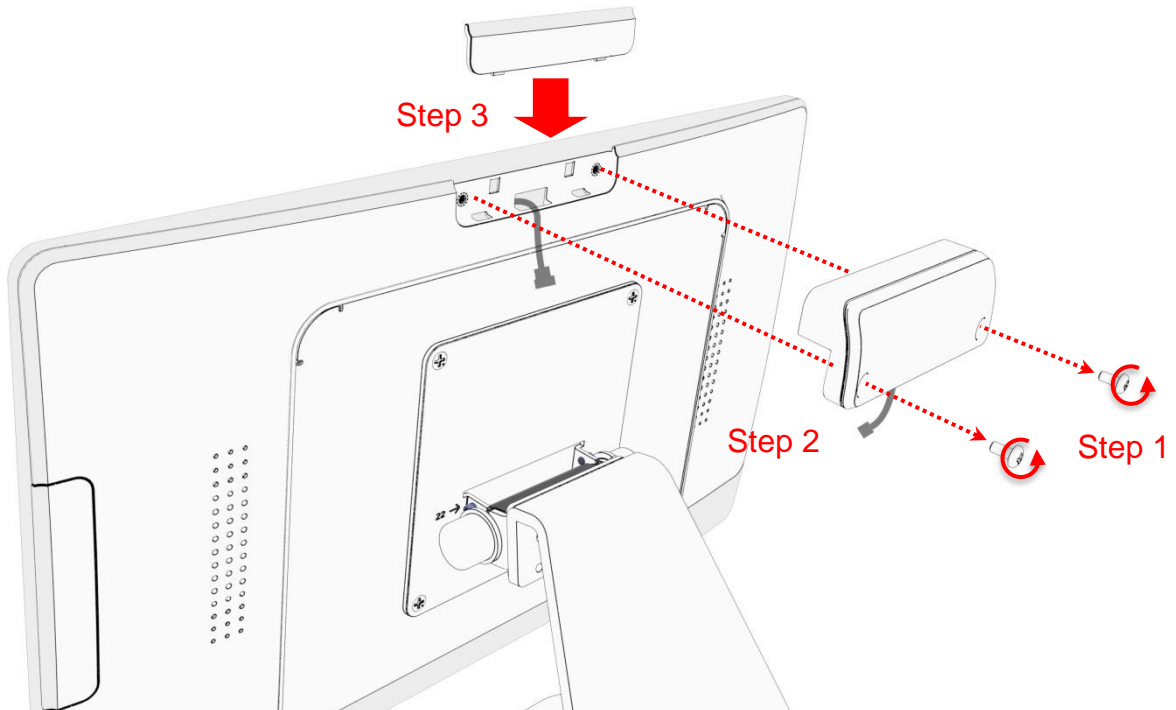


2.4.5 Dismantle the Camera Module

Step 1: Loosen the screws.

Step 2: Remove the camera module cable from the touch computer.

Step 3: To assemble the side cover.

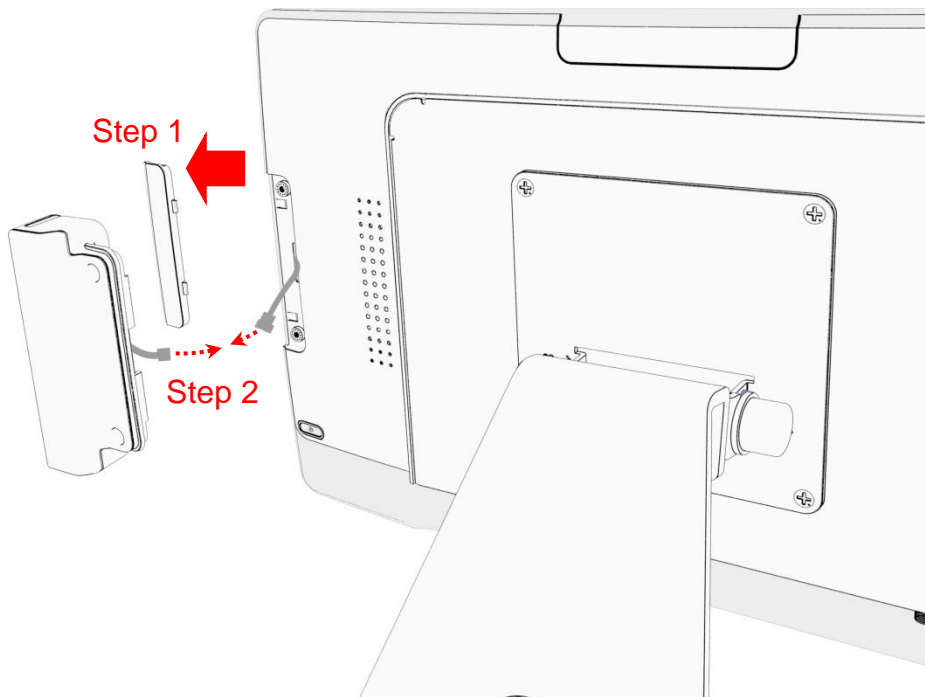


2.4.6 Install the MSR Module

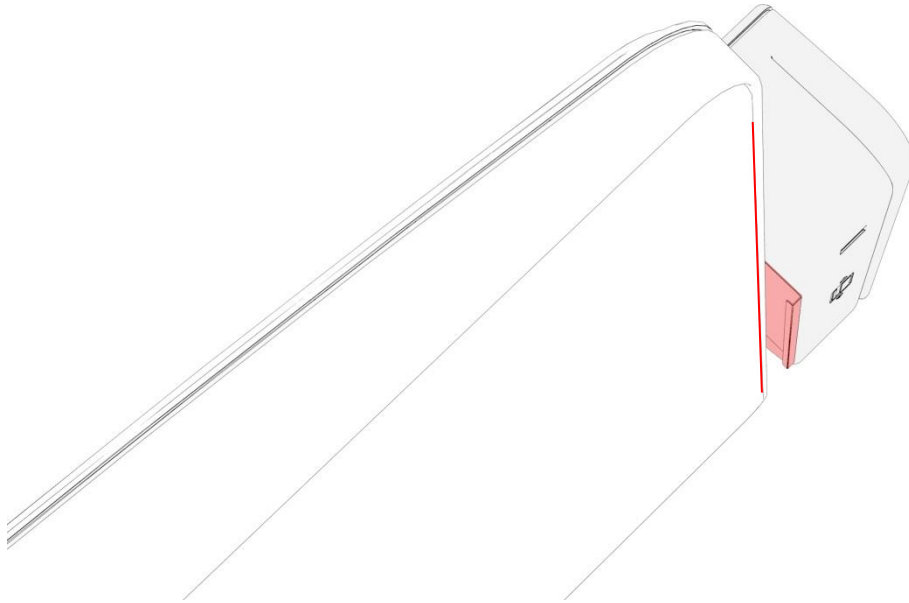
MSR Module max. 62g.

Step 1: Remove the side cover.

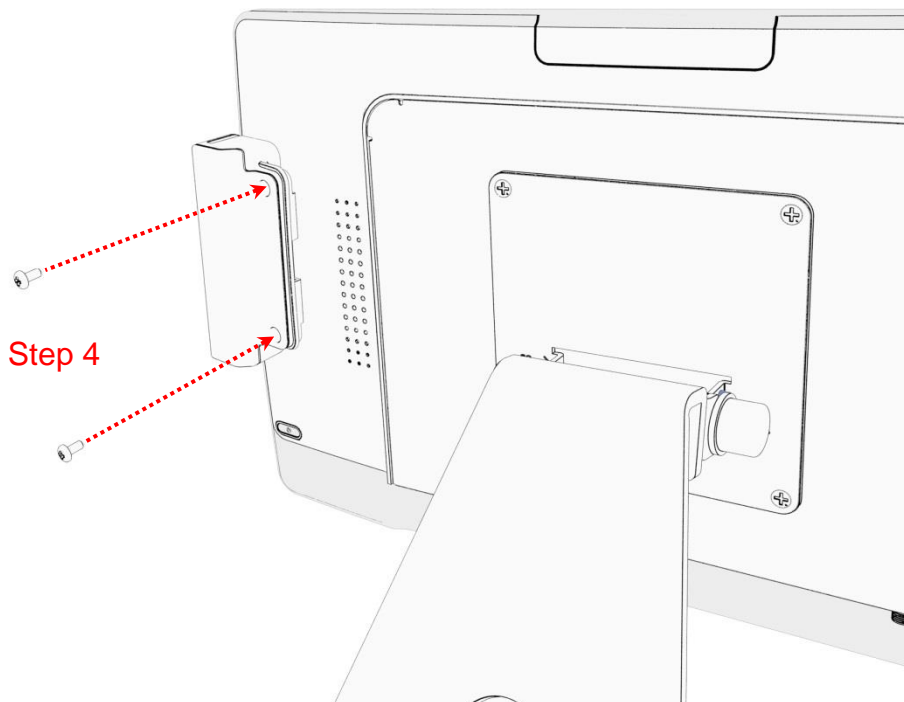
Step 2: Connect the MSR module cable to the touch computer.



Step 3: The metal bracket hook into the gap between cover glass and bezel.

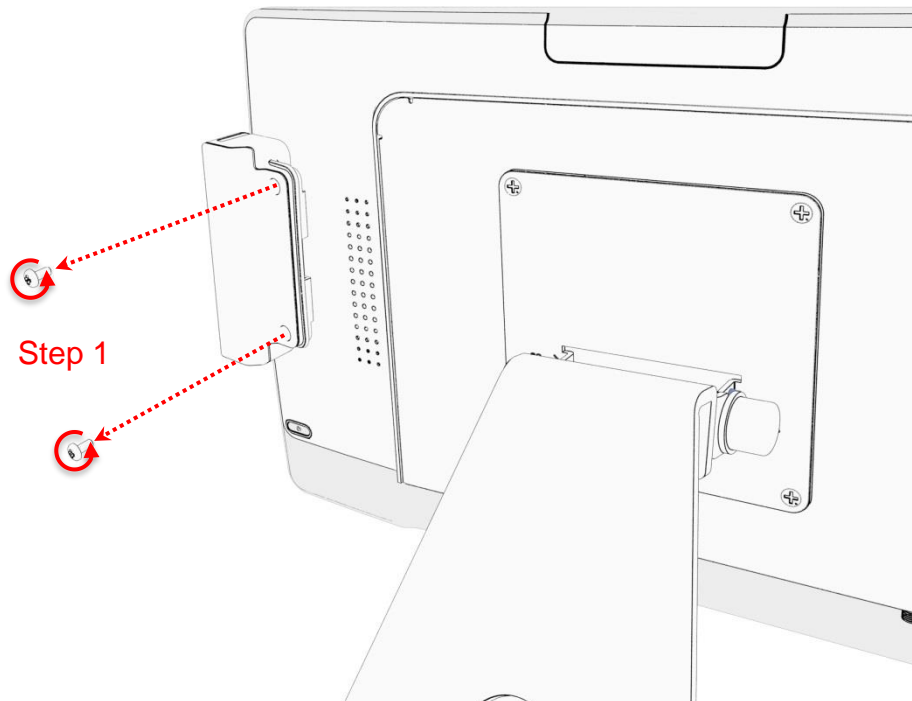


Step 4: Install the two M3 screws to fasten the MSR module.

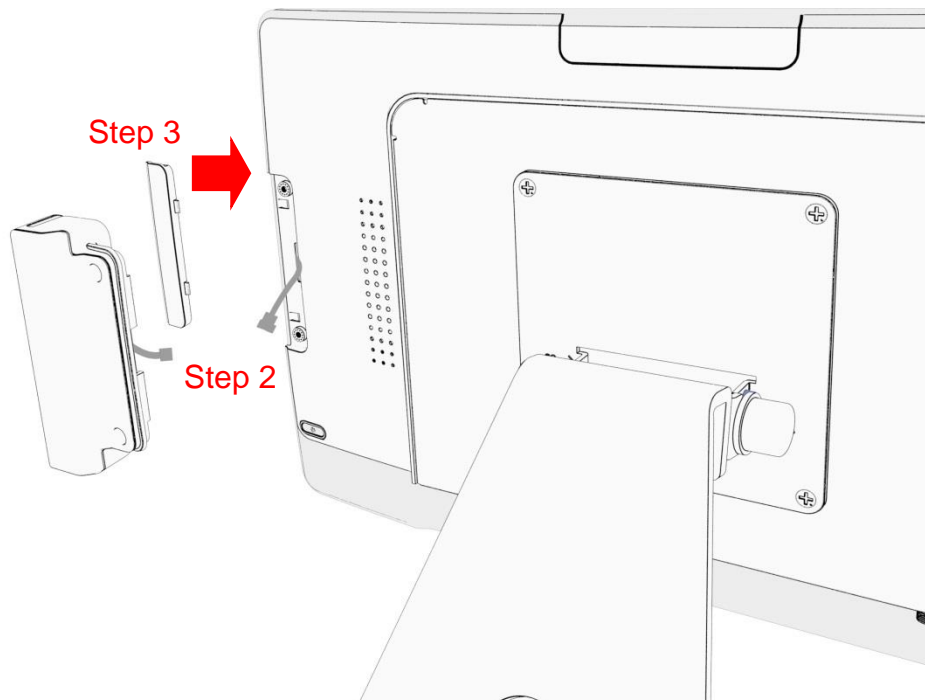


2.4.7 Dismantle the MSR Module

Step 1: Loosen the screws.



Step 2: Remove the MSR module cable from the touch computer.
Step 3: To assemble the side cover.



Appendix

Declaration of the Presence Condition of the Restricted Substances Marking

設備名稱：觸控電腦 Equipment name: Touch Computer		型號（型式）：IC-150P-AA2 Type designation (Type): IC-150P-AA2				
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	—	○	○	○	○	○
液晶面板 LCD Panel	—	○	○	○	○	○
觸控式螢幕面板 Touch Panel	—	○	○	○	○	○
電路板總成 PCBA	—	○	○	○	○	○
軟體(光碟片等) 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>						