Manuals+ — User Manuals Simplified.

MicroTouch IC-156P-AW3 All -In-One Touch Computer User Guide

Contents

MicroTouch

MicroTouch IC-156P-AW3 All -In-One Touch Computer

About This Document

No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language or computer language, in any form or by any means, including, but not limited to, electronic, magnetic, optical, chemical, manual, or otherwise without prior written permission of MICRO TOUCH. The information in this document is subject to change without notice. MICRO TOUCH makes no representations or warranties with respect to the contents herein, and specifically disclaims any implied warranties of merchantability or fitness for a particular purpose. MICRO TOUCH reserves the right to revise this publication and to make changes from time to time in the content hereof without the obligation of MICRO TOUCH to notify any person of such revisions or changes. Windows is a registered trademark of Microsoft, Inc. Other brand or product names are trademarks of their respective holders.

Compliance Information

For FCC (USA)

This equipment has been tested and fund to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. There 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

Disposal Information

Waste Electrical and Electronic Equipment This symbol on the product indicates that, under the European Directive 2012/19/EU governing waste from electrical and electronic equipment, this product must not be disposed of with other municipal waste. Please dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. To prevent possible harm to the

environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources. For more information about recycling of this product, please contact your local city office or your municipal waste disposal service.

- **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 earth 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 are 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.

Overview

The IC-156P-AW3 is a thin 15.6" touch computer that offers a unique design with expandability and flexibility, making expansion and accessory installation easy. The versatility of IC-156P-AW3 is an exceptional choice for applications in all business sectors, especially in the retail market.

Feature

- Intel I3-7100U processor.
- Sleek design for a better user experience.
- Patented I/O design for better wiring management while implementation.

Specifications

System	
CPU	Intel I3-7100U Processor, 3MB Cache, up to 2.4 GHz
GPU	Intel HD Graphics 620
DDR	2 x SO-DIMM, DDR4, Support up to 32GB/64bits, 2133MT/s
Storage	1 x M.2 2280 (SATA III & NVME)
Input Power	DC in 24V/5A 4PIN
Display	Dual channel LVDS, resolution up to 1920x1080P60
Touch	ZCC (EETI 80W60 controller) /TPK (EETI 80H84 controller) 15.6-inch P-Cap touch sensor, supports 10 fingers touch function.
Audio	2 x speaker (2W x 2)
Network	Gigabit Ethernet (Intel i219LM) Optional m.2 2230 module: Intel AC 3168, Wi-Fi 802.11a/b/g/n/ac 1T1R, Bluetooth 4.2 (Support BLE)

|	
External IO Ports	1 x Power button 1 x USB Type-C (USB3CM:1x USB 3.1 gen1 with Display ALT Mode and PD 2.0, support 5V@3A / **12V@2.5A** output, Maximum 30W.) 1 x MiniDP (4K@60HZ) 2 x USB2.0 Type-A, 2 x USB3.0 Type-A 1 x LAN (Support 10/100/1000Mbps) 1 x DB9 (RS232, pin9 with NA/5V/12V support that select by BIOS) 1 x 24V DC In
Internal IO Ports (inside plastic cover)	3 x connector (5V/0.5A)
OS version	Windows 10
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 (non-touch screen)	Typical 450 cd/m2; Min. 360 cd/m2
Brightness (P-CAP with ZCC)	Typical 382 cd/m2; Min. 306 cd/m2
Brightness (P-CAP with TPK)	Typical 387 cd/m2; Min. 313 cd/m2
Number of Pixels	1920 (H) × 1080 (V)/ 60Hz
Tilt Angle	8°~68°
Environment	
Certificate	CE FCC LVD UKCA
Mounting	VESA 100 mm x 100 mm
Dimension (W x H x D)	System Only 369.1 mm x 223.7 mm x 35.2 mm System with Stand Module 369.1 mm x 291.6 mm x 169.4 mm

Net Weight	System Only 2.01 Kg System with Stand Module 4.01 Kg
Gross Weight	System Only 3.01 Kg System with Stand Module 6.01 Kg

Block Diagram
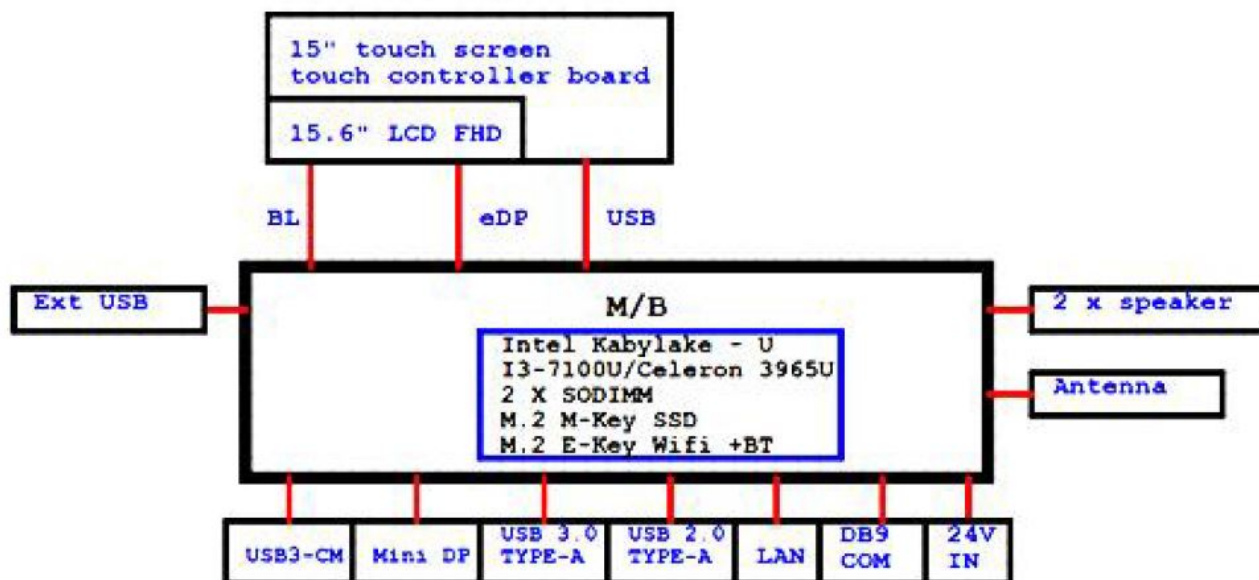
Interface Connectors
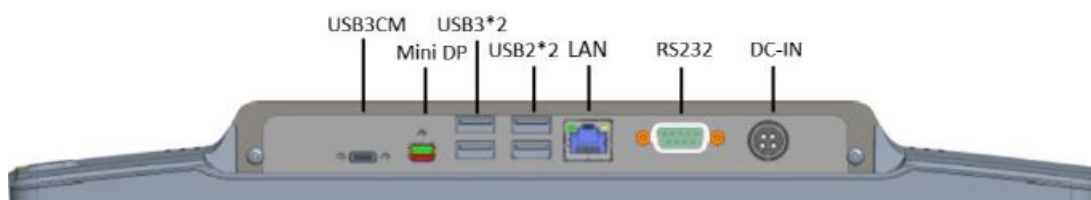
24V DC In
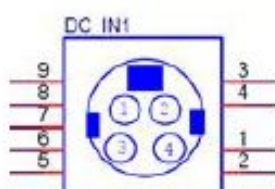
	Pin #	Signal Name	Pin #	Signal Name
	1	GND	2	GND
	3	24V	4	24V

RJ45 for LAN
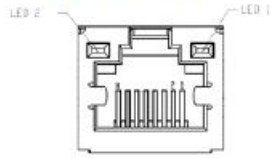
Pin #	Signal Name			Pin #	Signal Name
1	TP1+			2	TP1-
3	TP2+			4	TP3-
5	TP3+			6	TP2-
7	TP4+			8	TP4-
LED	Function			Color	
LED1	Speed	1000		Orange	
		100		Green	
		10		Non	
LED2	Active			Yellow	

USB-C
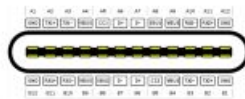
Pin #	Signal Name	Pin #	Signal Name
A1	GND	B12	GND
A2	SSTXp1	B11	SSRXp1
A3	SSTXn1	B10	SSRXn1
A4	VBUS	B9	VBUS
A5	CC1	B8	SBU2

	A6	Dp1	B7	Dn2
	A7	Dn1	B6	Dp2
	A8	SBU1	B5	CC2
	A9	VBUS	B4	VBUS
	A10	SSRXn2	B3	SSTXn2
	A11	SSRXp2	B2	SSTXp2
	A12	GND	B1	GND
	Note			
	USB3CM: Support DP ALT mode and 5V@3A / 12V@3A output;			

USB 3.0 Dual

USB 3.0 Dual
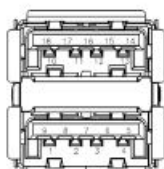
USB 3.0 Dual	Pin #	Signal Name	Pin #	Signal Name
	1	USB5V	10	USB5V
	2	D-	11	D-
	3	D+	12	D+
	4	GND	13	GND
	5	StdA_SSRX-	14	StdA_SSRX-
	6	StdA_SSRX+	15	StdA_SSRX+
	7	GND_DRAIN	16	GND_DRAIN
	8	StdA_SSTX-	17	StdA_SSTX-
	9	StdA_SSTX+	18	StdA_SSTX+
	Note			
	Every on USB3.0 Power current provide 0.9A (Regular)			

USB 2.0 Dual

USB 2.0 Dual
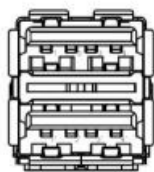
USB 2.0 Dual	Pin #	Signal Name	Pin #	Signal Name
	1	USB5V	1	USB5V
	2	D-	2	D-
	3	D+	3	D+
	4	GND	4	GND
	Note			
	Every on USB2.0 Power current provide 0.5A (Regular)			

Mini DP

Mini DP
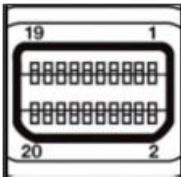
	Pin #	Signal Name	Pin #	Signal Name
i	1	GND	2	Hot Plug Detect
	3	ML_Lane 0 (p)	4	CONFIG1
	5	ML_Lane 0 (n)	6	CONFIG2
	7	GND	8	GND
	9	ML_Lane 1 (p)	10	ML_Lane 3 (p)
	11	ML_Lane 1 (n)	12	ML_Lane 3 (n)
	13	GND	14	GND
	15	ML_Lane 2 (p)	16	AUX_CH (p)
	17	ML_Lane 2 (n)	18	AUX_CH (n)
	19	GND	20	DP_PWR

DB9 for RS232

DB9 for RS232
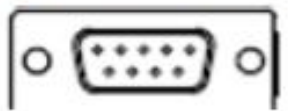
DB9 for RS232	Pin #	Signal Name	Pin #	Signal Name
	1	DCD	2	SIN
	3	SOUT	4	DTR
	5	GND	6	DSR
	7	RTS	8	CTS
	9	0V / 5V/ 12V Max. current=1A		

Package Overview

Touch Computer

Power Cord
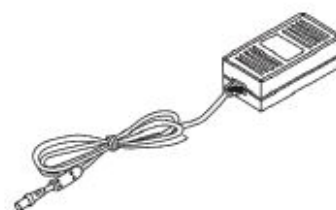
DC Power Supply

Screw
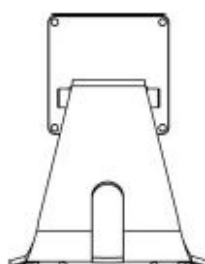
Stand Module
(Optional)

Warning!

This product is intended to be supplied by a UL Listed Power Adapter, rated 24Vdc, 5A minimum. (complied with LPS or PS2) Tma = 40 degrees C minimum, and the altitude of operation = 3048m minimum. If it needs further assistance with purchasing the power source, please contact to TES for further information.

About VESA Mount

The IC-156P-AW3 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 IC-156P-AW2 may be wall-mounted in the horizontal position (output connector facing down) or vertical position (output connector facing left or right).
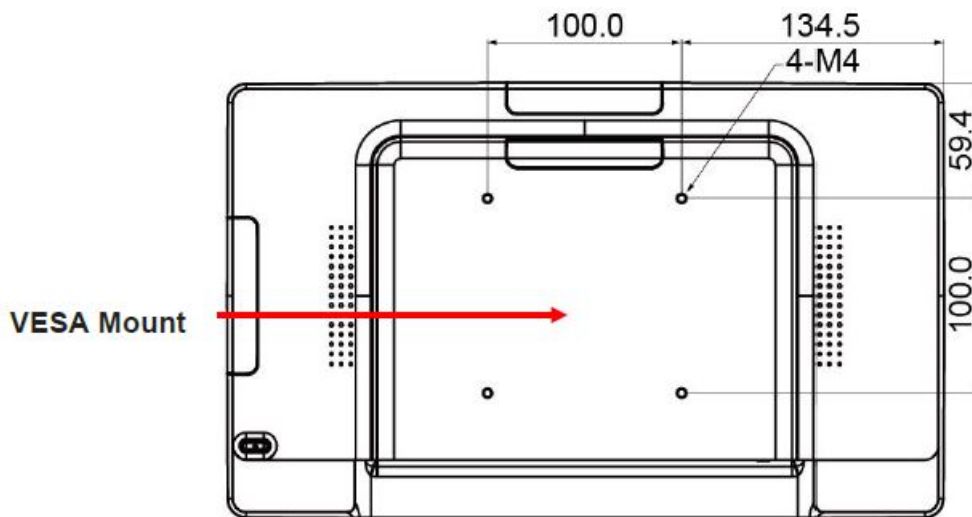
Warning!
Please select the TES original screws! The distance between the back cover surface and the bottom of the screw hole is 8 mm. Please use four M4 / 8 mm screws diameter with the proper length to mount your monitor.

Power On / Off Switch
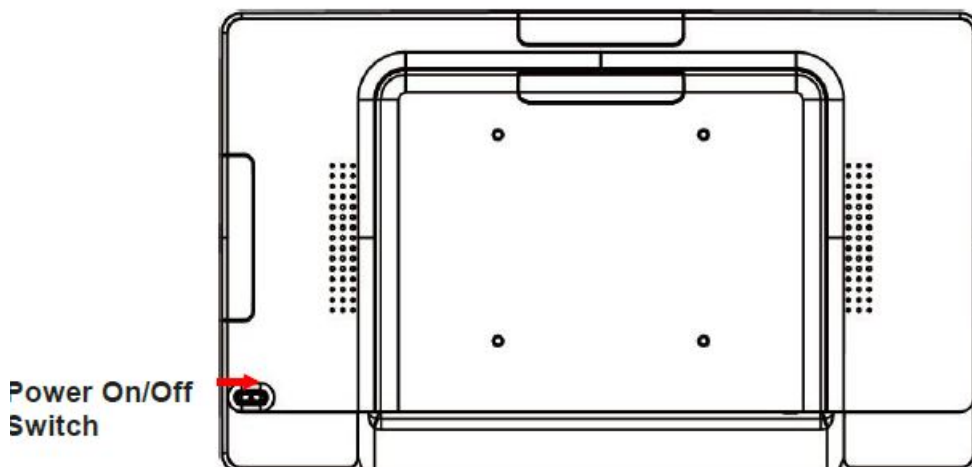
Function	Description
Power on	Press the power button.
Sleep	With OS settings, sleep or shut down choose one.
Power off	
Force power off	Press the power button 4 sec.

Dimension
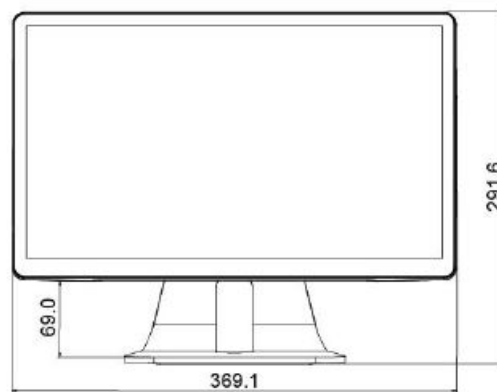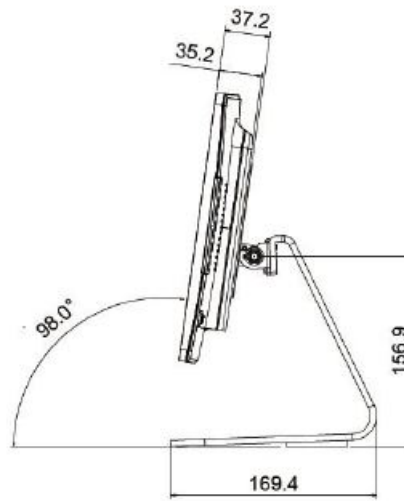
System Only Front View
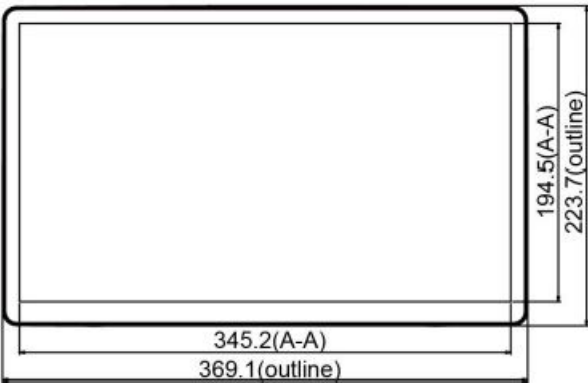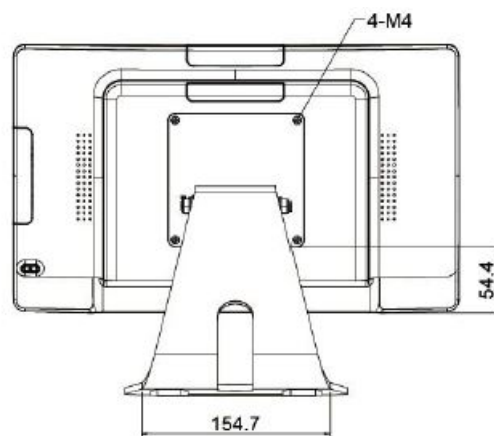

Side View
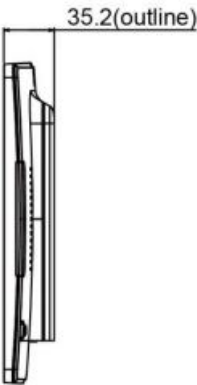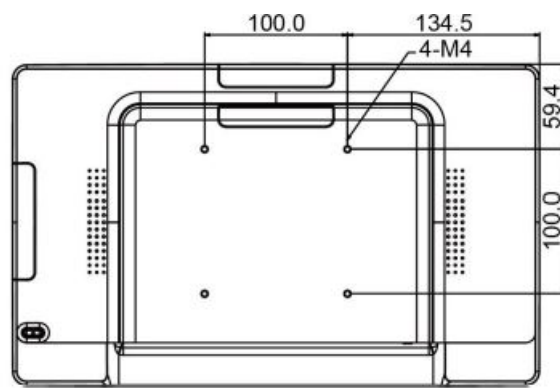
Rear View
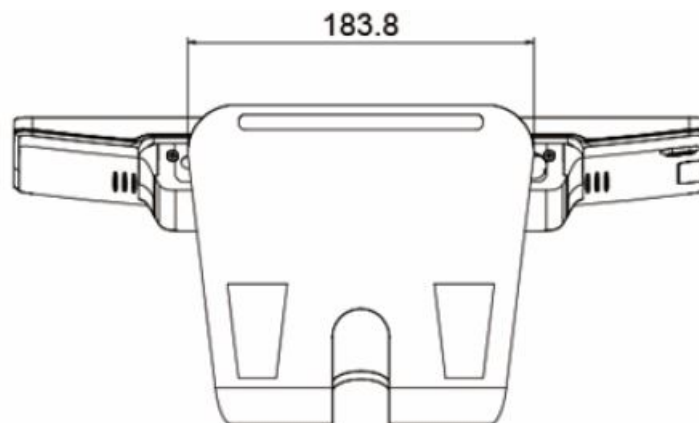
Bottom View

System with Stand
Front View

Side View

Rear View

Bottom View
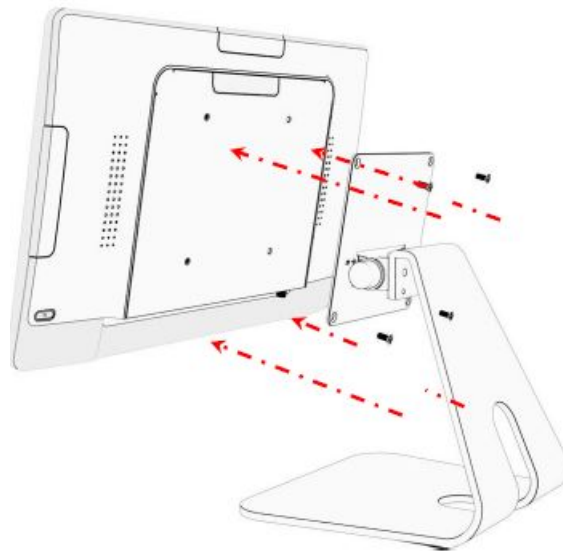

Optional Accessory Installation

Note: Please install the accessories when the touch computer is in a powered-off state

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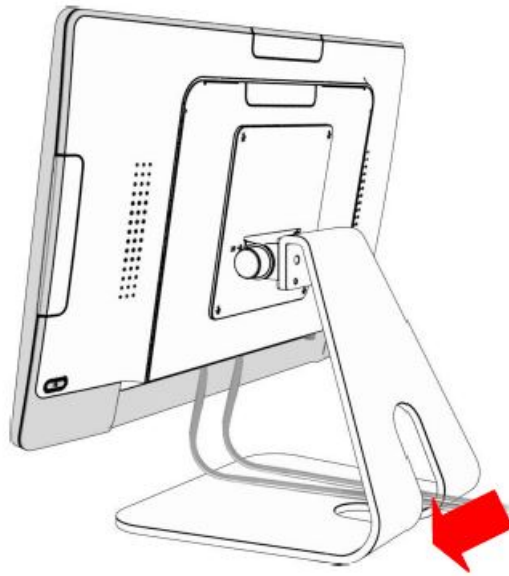
Dismantle the Stand

Step 1: Loosen the screws
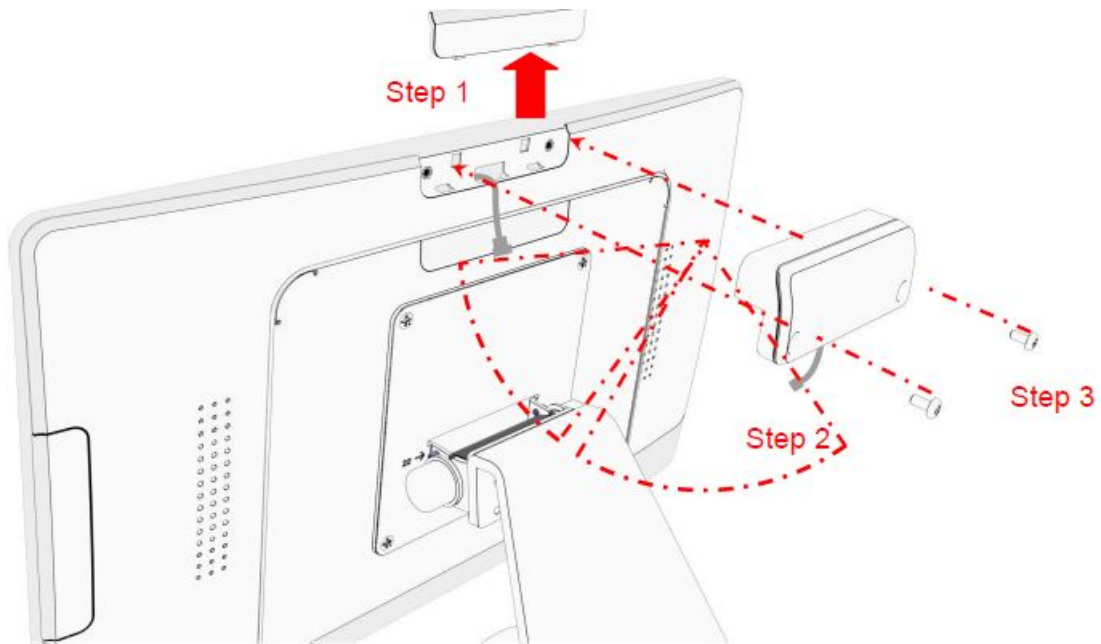**Step 2:** Pull it out from touch computer and remove the stand module.
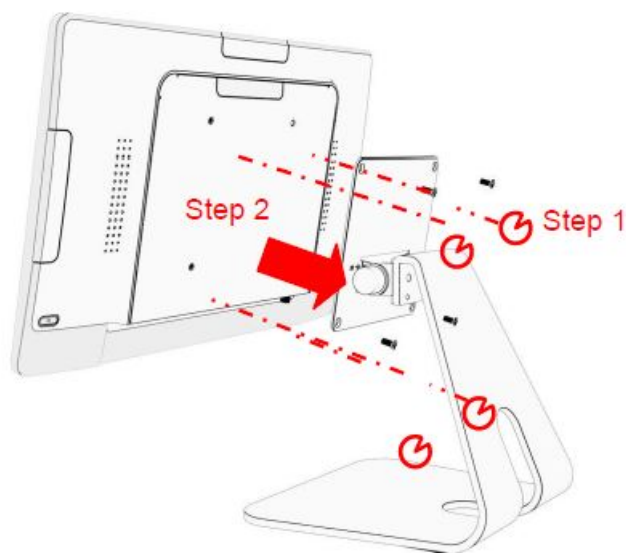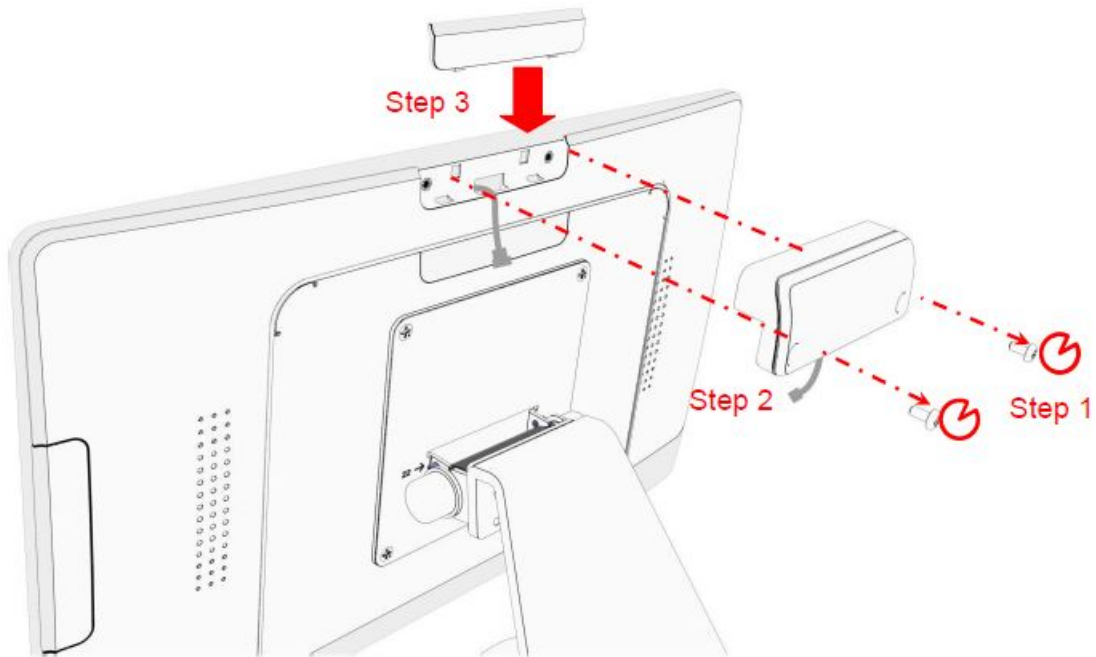

Install the Cables

Install the Camera Module
Camera Module weight 19g

- Step 1: Remove the side cover.
- Step 2: Connect the camera module cable to the touch computer.
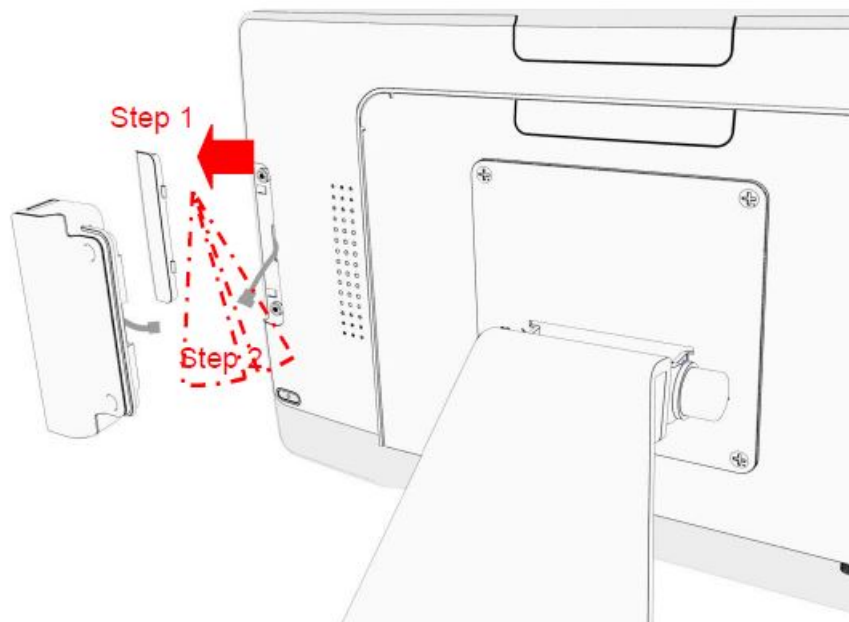- Step 3: Install the two M3 screws to fasten the camera module.

Remove the Camera

- Step 1: Loosen the screws.
- Step 2: Remove the camera module cable from the touch computer.
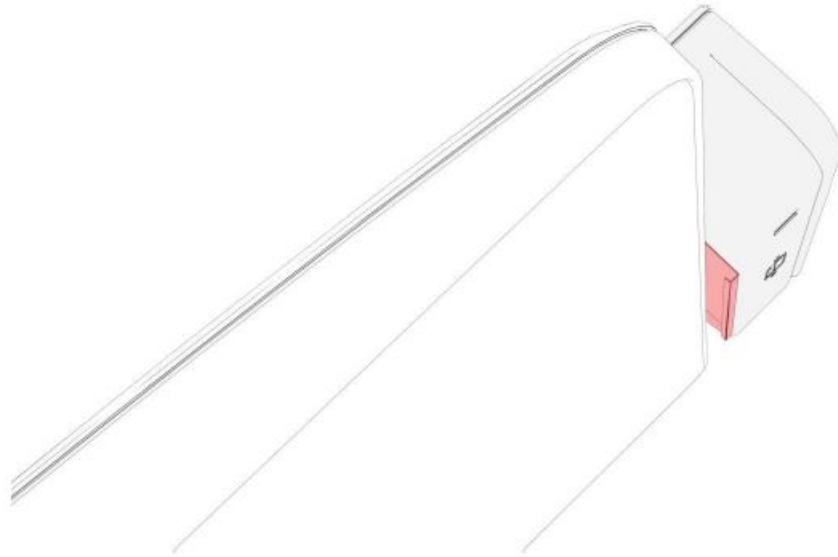- Step 3: Replace the side cover.

Install the MSR Module
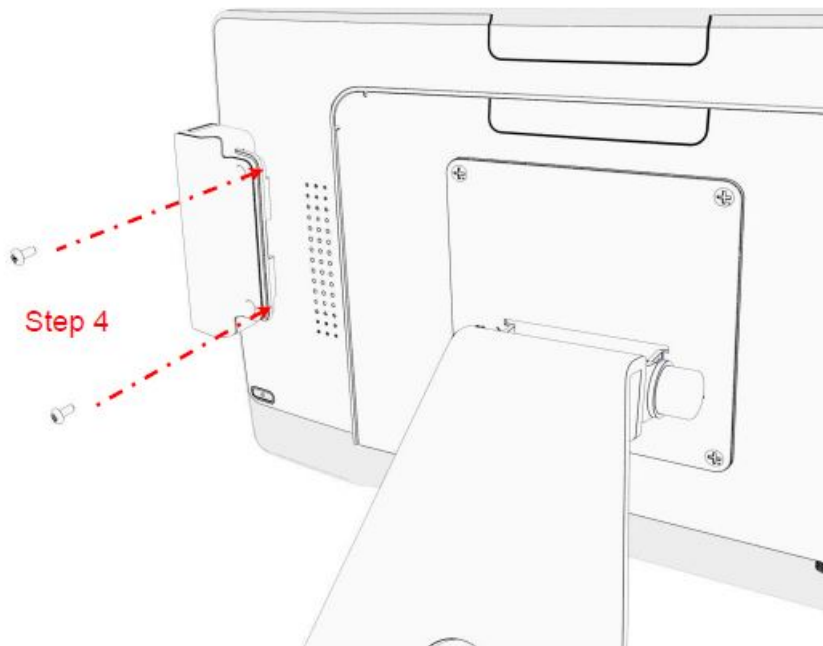MSR Module weight 62g.

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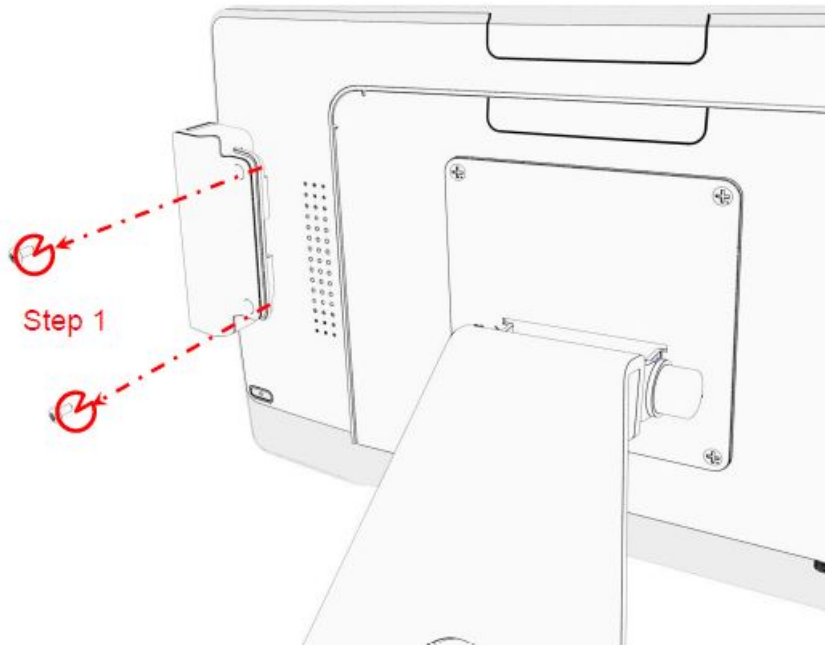
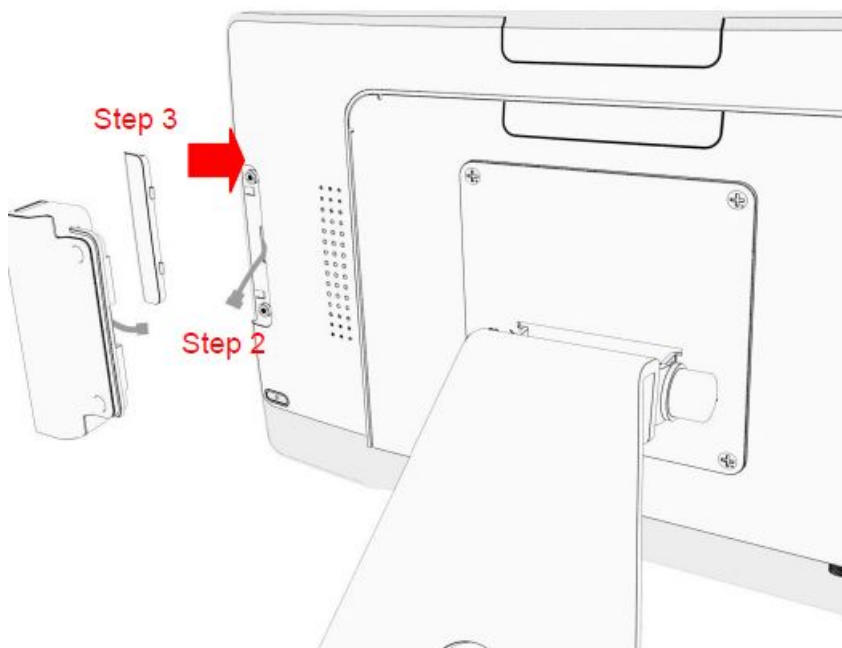- Step 4: Install the two M3 screws to fasten the MSR module.

Remove 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.

**Declaration of the Presence Condition of the Restricted Substances Marking **

IC-156P-AW3

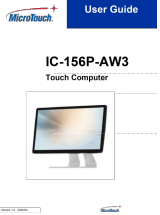Equipment name: Touch Computer   Type designation (Type): IC-156P-AW3

	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium (Cr+6)	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
Plastic Parts	○	○	○	○	○	○
Metal Parts		○	○	○	○	○
Cable component		○	○	○	○	○
LCD Panel		○	○	○	○	○
Touch Panel		○	○	○	○	○
PCBA		○	○	○	○	○
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.

Documents / Resources

MicroTouch IC-156P-AW3 All -In-One Touch Computer [pdf] User Guide
IC-156P-AW3, All -In-One Touch Computer, IC-156P-AW3 All -In-One Touch Computer

Manuals+,