

HiFive Series



User Manual
Version 2.0

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Safety Information



Before you Proceed:

- Read the safety notices and the User Manual carefully before using the product.
 - Keep the box and packaging in case the product needs to be shipped in the future.
 - Follow the product and warning label instructions.
 - Any changes or modifications that do not follow the instructions in this manual will void this product's warranty.
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Power Supply Safety Notes:

- To avoid electric shocks, disconnect the power cord from the electrical outlet before relocating the system.
- Make sure the voltage of the power outlet conforms within voltage range of the terminal. Failure to comply may cause the electric shock or damage to the terminal. If you are not sure of the electricity voltage that you are using, consult your local electricity company.
- To avoid fire or electric shocks, do not overload electric power outlets.
- Protect the power cord from being walked on or pinched particularly at plug, convenience receptacles, and the point where they exit from the apparatus.

Operating Instructions

- Keep this manual for future reference.
- Keep this equipment from moisture and dust.
- Place the equipment on a stable surface before setting it up.

- If there is any of the following situation arise, notify a qualified service technician immediately:
 - ◇ The power cord or plug is damaged.
 - ◇ Liquid has been spilled on to the equipment.
 - ◇ The equipment has been dropped and damaged.
 - ◇ The equipment does not function normally.
- Do not block any ventilation openings to prevent the equipment from overheat.
- Do not leave the equipment in a non air-conditioned environment where the storage temperature may go above 70°C (158°F), as this can cause damage to the equipment.

Maintenance

- Gently wipe screen with a clean soft hair lens brush, or a lint-free cloth.
- Do not apply pressure to the screen while cleaning.
- Do not spray any liquid directly onto the screen or the casing of the terminal.
- Chemical cleaners have been reported to cause damage on the screen of the terminal.

Warning and Attention

- The technical descriptions and specifications of the equipment are subject to change without notice.
- For safety reasons, wear gloves when assembling the product.
- Risk of explosion if battery is replaced by an incorrect type.
- Dispose of used batteries according to the instructions.

Patent

Patent pending.

CE Statement

- A Class III equipment with an enclosure made of HB material and using a non-special connector for the A.C./D.C. input has to have a marking stating the following: “Use only power supplies listed in the user instructions” or “For applicable power supplies see user instructions”. This statement shall also be in the user-instructions.
- If product with laser module, the class of laser should be mentioned. The warning as attachment.

Federal Communications (FCC Statement)

This device complies with FCC Rules Part 15. Operation is subject to the following two conditions:

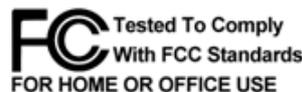
- This device may not cause harmful interference.
- This device must accept any interference received including interference that may cause undesirable operation.

This equipment has been tested and found to comply within the limit of a Class A 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 manufacturer's 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 switching the equipment on and off, the user is encouraged to try to correct the interference by one or more of the following measures:

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

Warning

The use of shielded cables for connection of the monitor to the graphics card is required to assure compliance with FCC regulations. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.



CB/LVD Statement

- A Class III equipment with an enclosure made of HB material and using a non-special connector for the A.C./D.C. input has to have a marking stating the following: “Use only power supplies listed in the user instructions” or “For applicable power supplies see user instructions”. This statement shall also be in the user-instructions.
- If product with laser module, the class of laser should be mentioned. The warning as attachment.

CCC Statement

此為A級產品，在生活環境中，該產品可能會造成無綫電干擾。在這種情況下，可能需要用戶對干擾採取切實可行的措施。

BSMI Statement

- 接螢幕與顯示卡所使用的防磁纜線必須確實遵守FCC規範。未獲廠商明確同意而擅自變更或修改本裝置，可能導致使用者的使用權限失效，而無法繼續操作本設備。
- 警告使用者：這是甲類的資訊產品，在居住的環境中使用時，可能成射頻干擾，在這種情況使用者會被要求採取某些適當的對策。

RoHS Statement

Directive for Restriction of Hazardous Substances in Electrical and Electronic Equipment.

WEEE Notice

The WEEE logo (shown at the left) on the product or on its box indicates that this product must not be disposed of or dumped with your other household waste. You are liable to dispose of all your electronic or electrical waste equipment by relocating over to the specified collection point for recycling of such hazardous waste. Isolated collection and proper recovery of your electronic and electrical waste equipment at the time of disposal will allow us to help conserving natural resources. Moreover, proper recycling of the electronic and electrical waste equipment will ensure safety of human health and environment. For more information about electronic and electrical waste equipment disposal, recovery, and collection points, please contact your local city center, household waste disposal service, shop from where you purchased the equipment, or manufacturer of the equipment.



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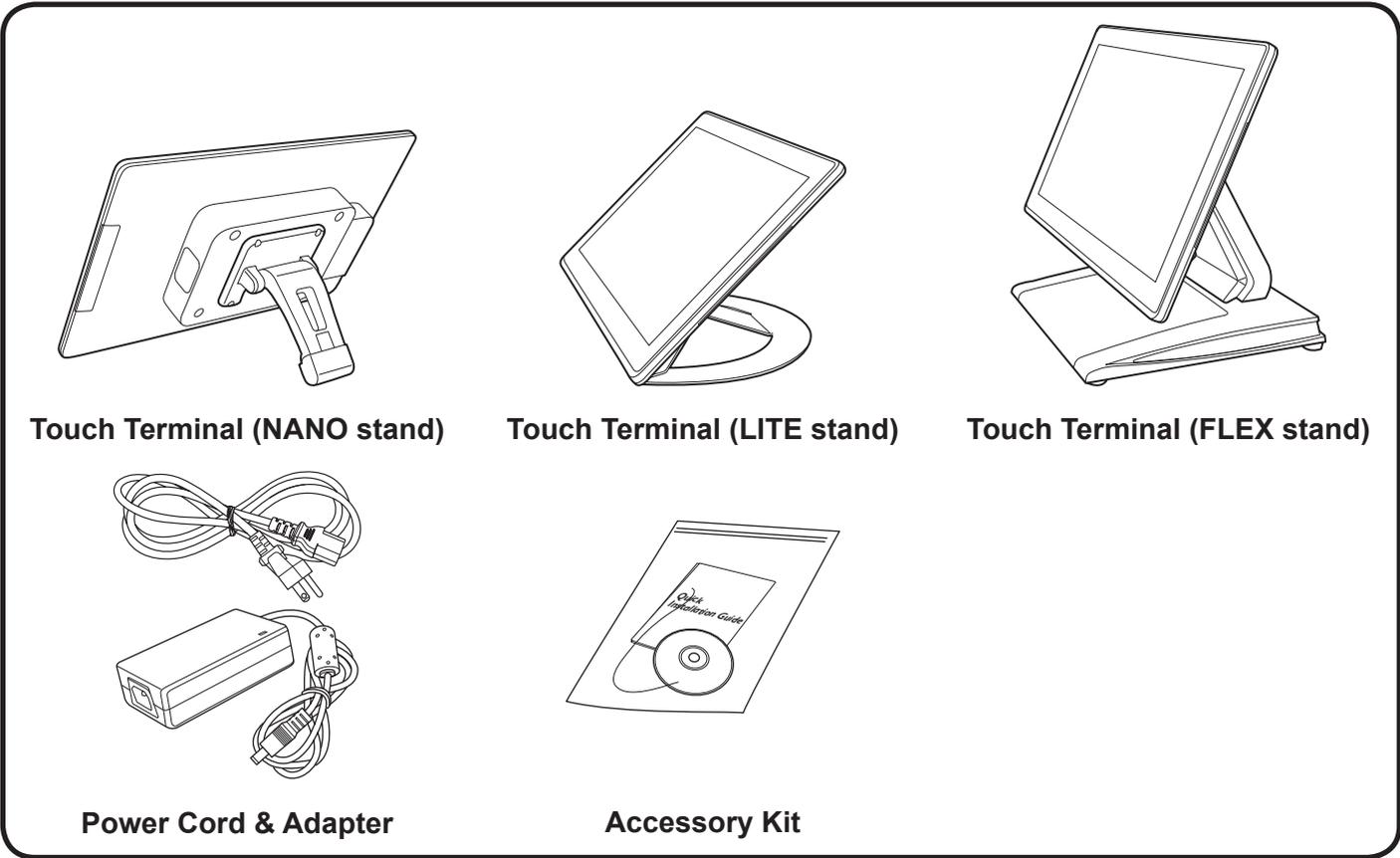
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Introduction

Congratulations on your purchase of this Touch Terminal. Your easy-to-use POS terminal is designed to help you enhance your business flexibility by offering superior customer experience.

Package Contents

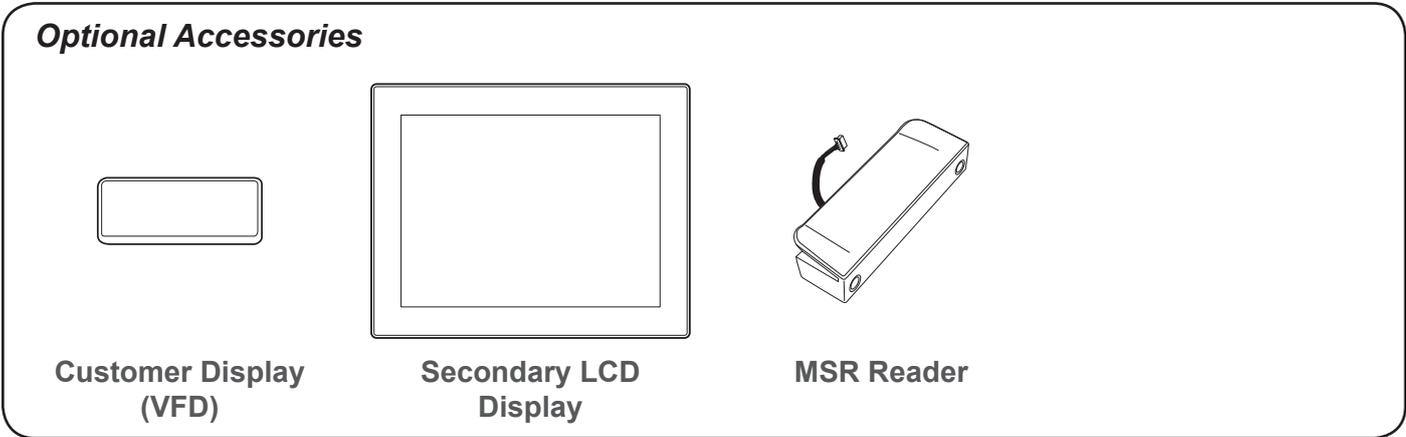
Before setting up your Touch Terminal, check that the package contains the following items. If any of the items is missing or damaged, contact your vendor immediately.



Touch Terminal (NANO stand) Touch Terminal (LITE stand) Touch Terminal (FLEX stand)

Power Cord & Adapter Accessory Kit

Optional Accessories



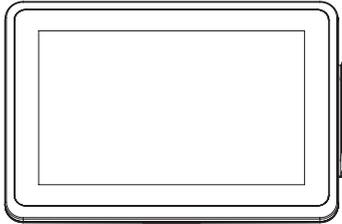
Customer Display (VFD) Secondary LCD Display MSR Reader

Overview of HiFive Series

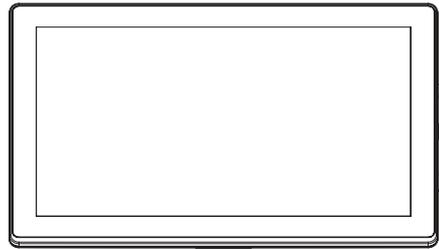
The figures in this section illustrate the components (including input and output ports) located at the front and rear of your Touch Terminal.

Front View

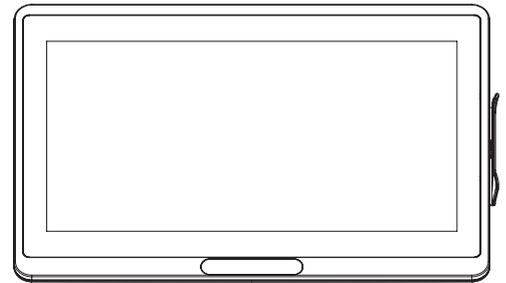
NANO Stand Type / Wall Mounting Type



H-610

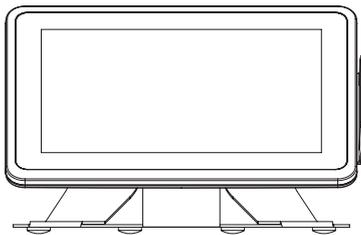


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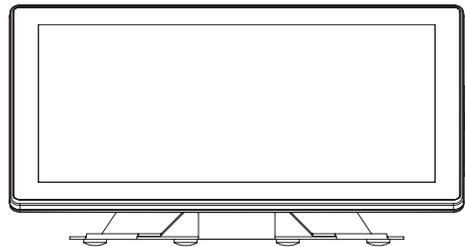


H-615

LITE Stand Type

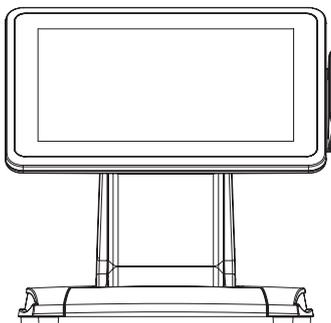


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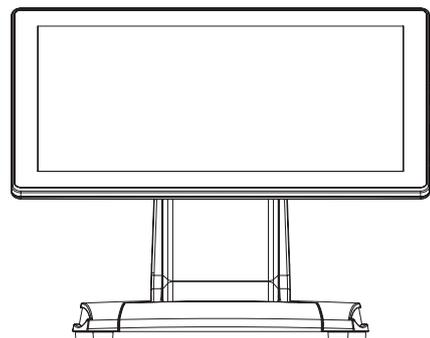


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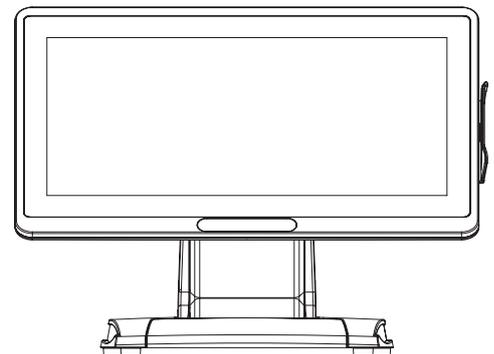
FLEX Stand Type



H-610



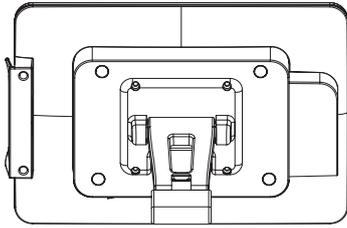
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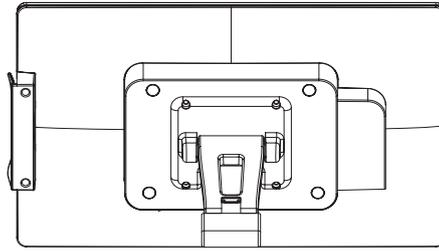
H-615

Rear View

NANO Stand Type

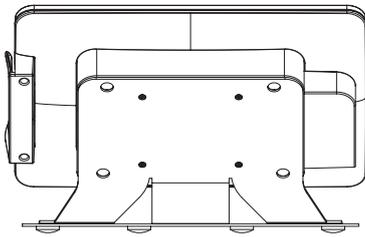


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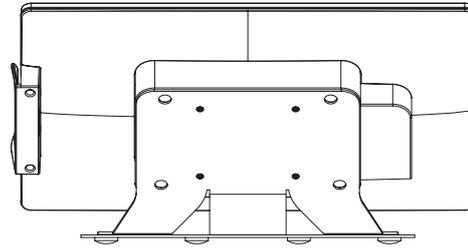


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LITE Stand Type

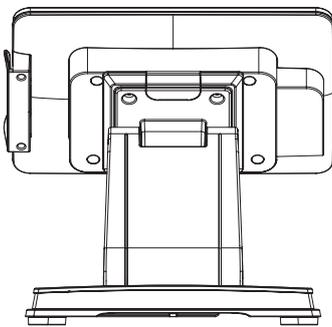


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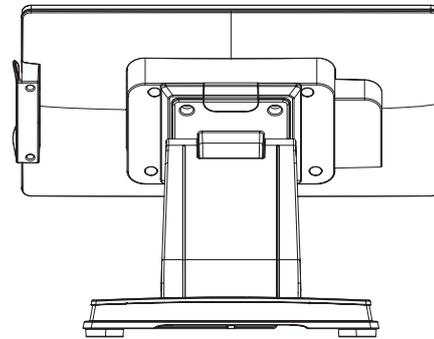


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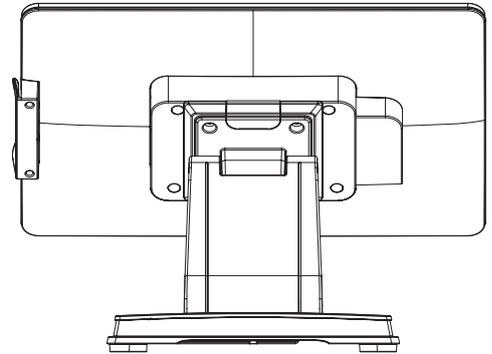
FLEX Stand Type



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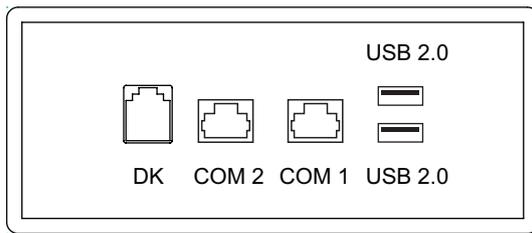


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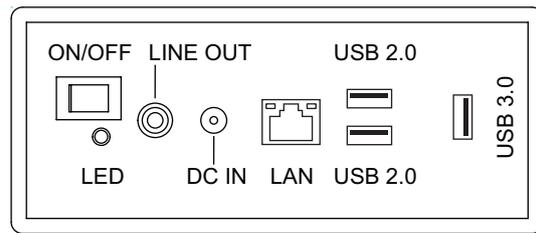


H-615

I/O Ports



Side



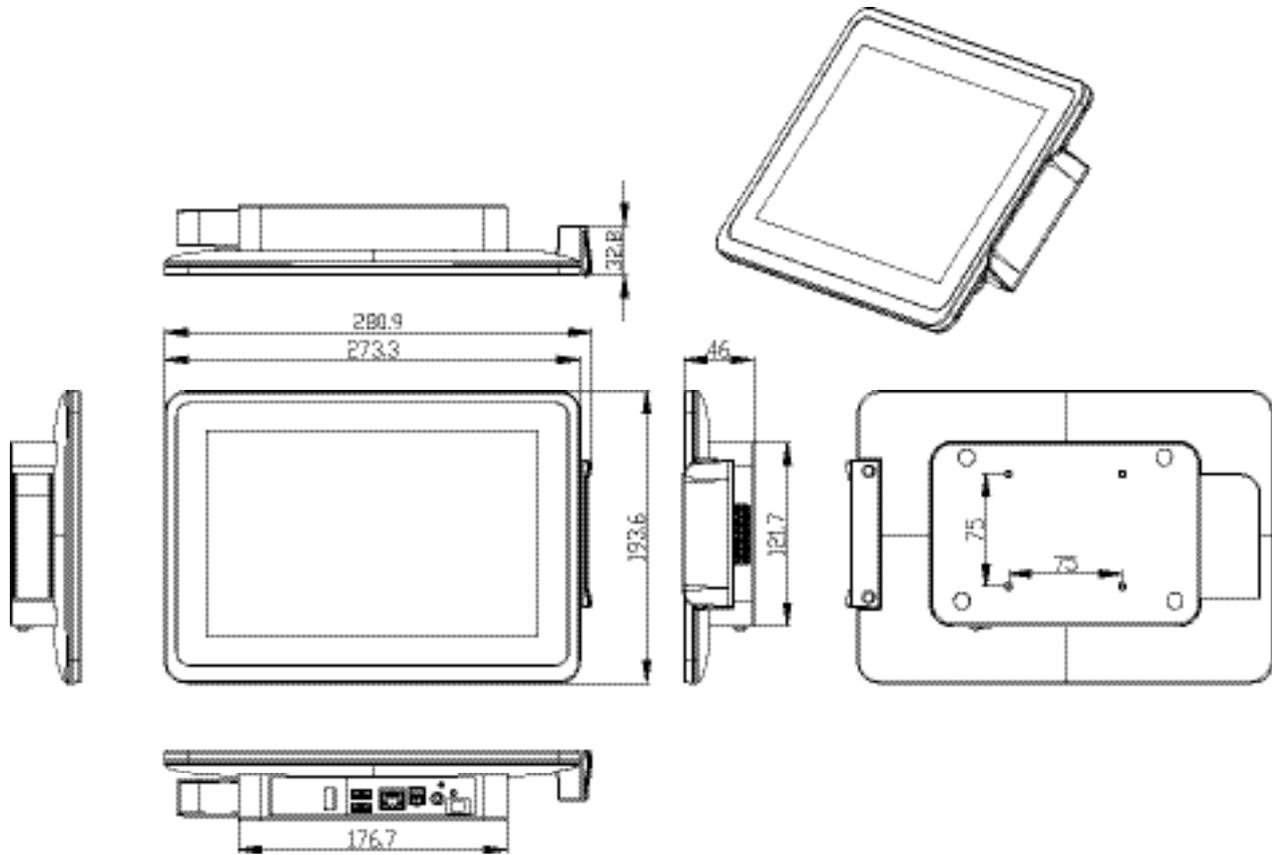
Bottom

Item	Description
DK port	Cash Drawer output
COM 1/2 ports	COM connectors
USB2.0 ports	USB2.0 connectors
Line Out port	Audio line output connector
DC IN jack	24V DC power input
LAN port	Gigabit LAN connector
USB3.0 ports	USB3.0 connectors

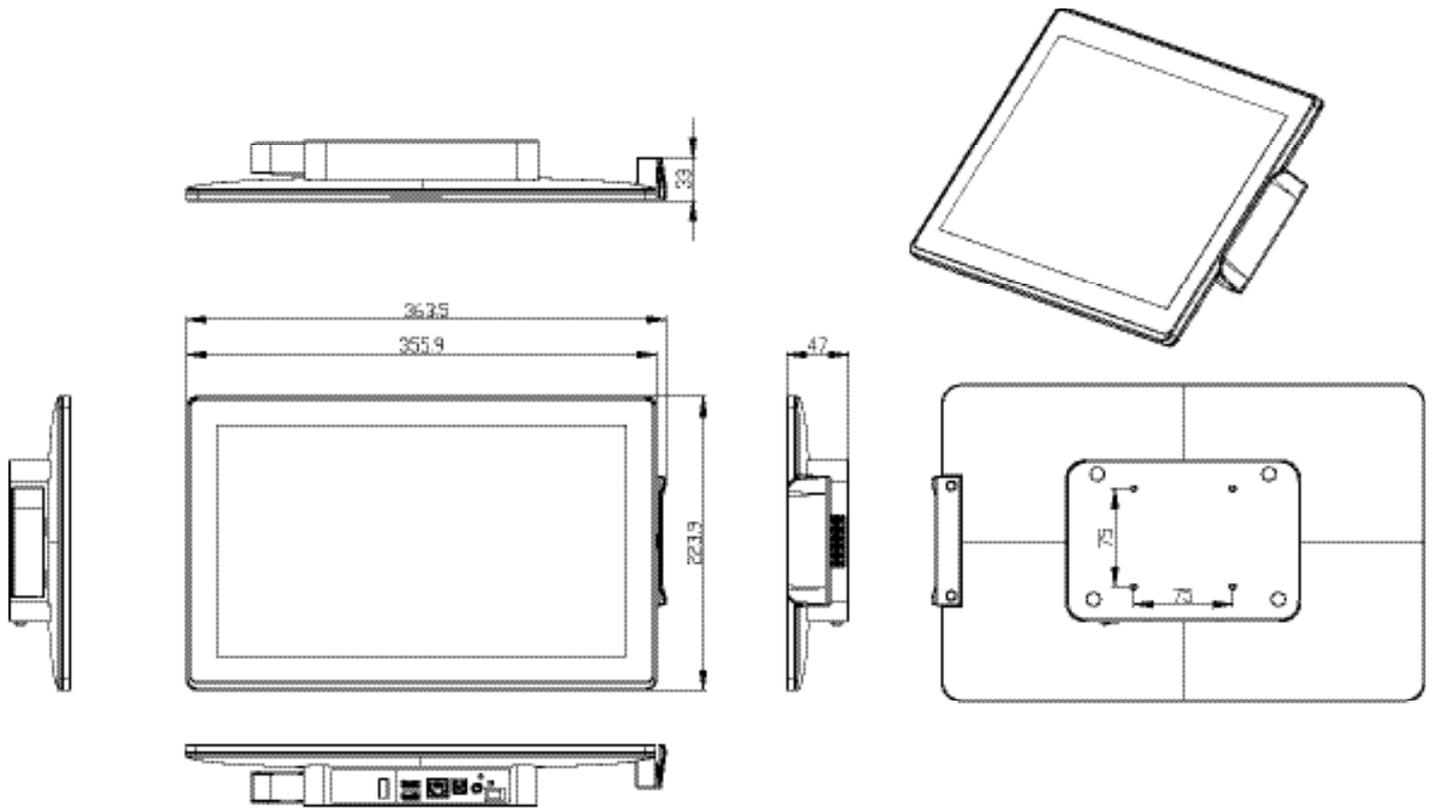
Physical Dimensions

VESA Mount

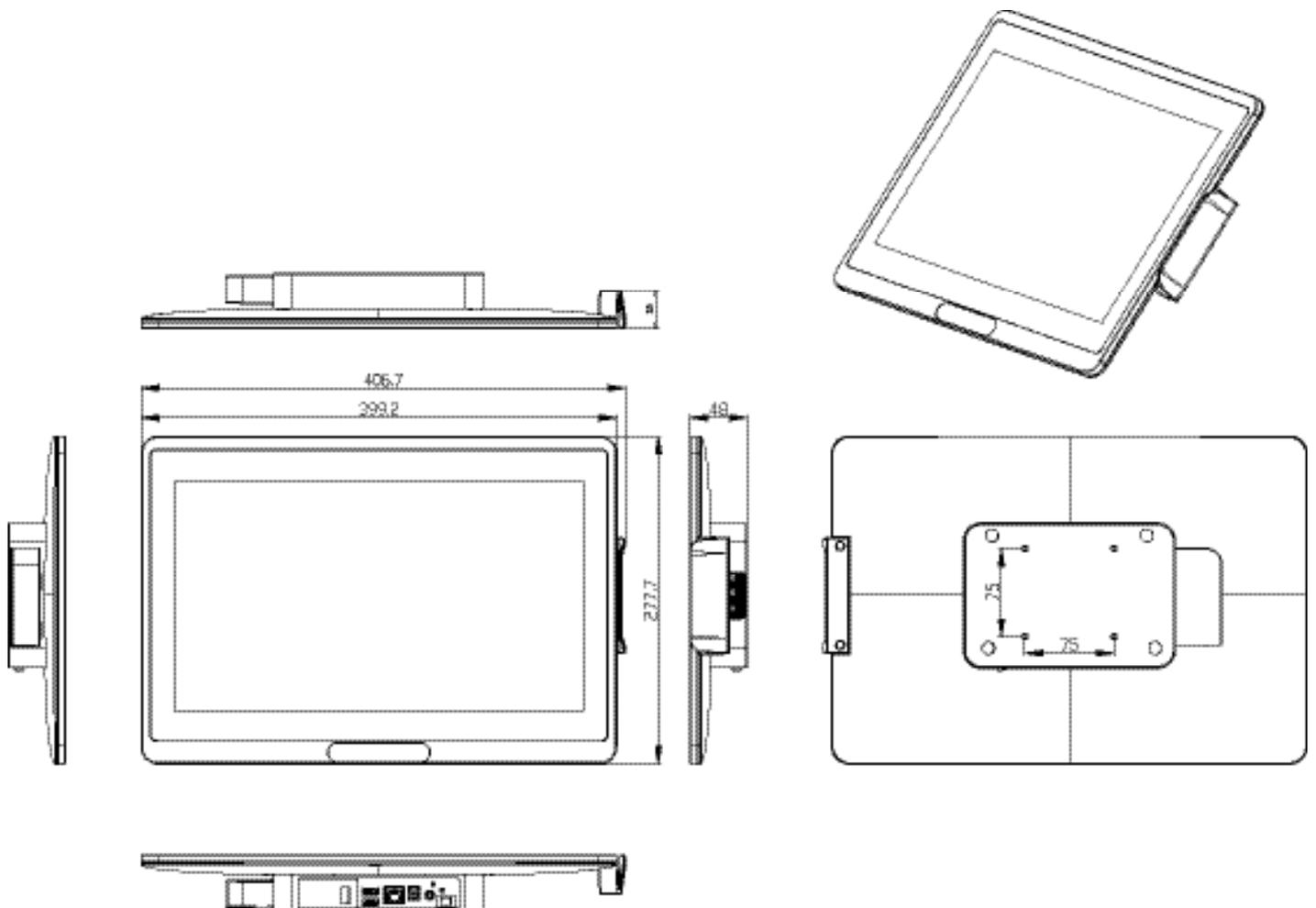
H-610



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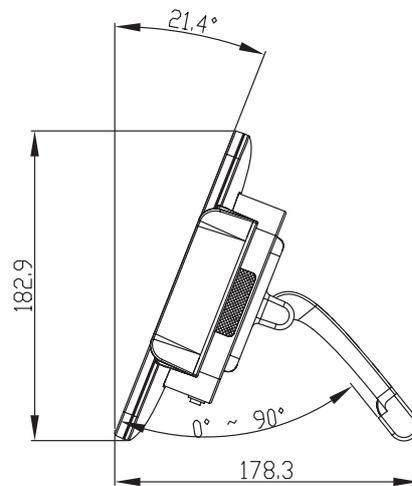
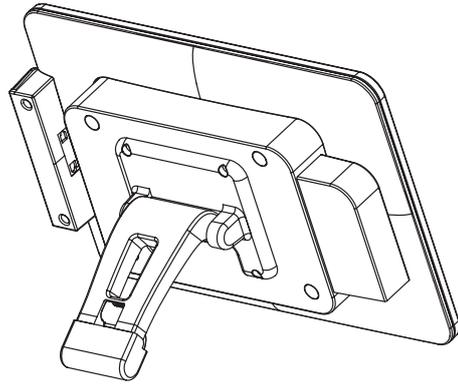
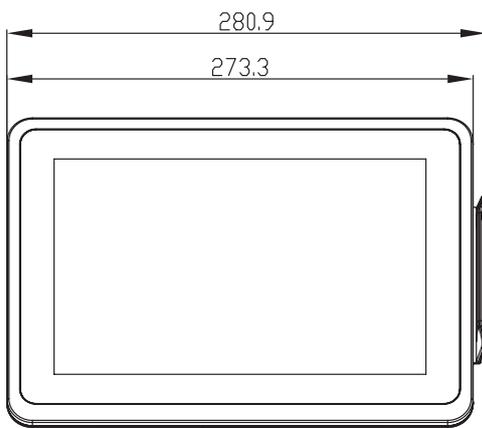
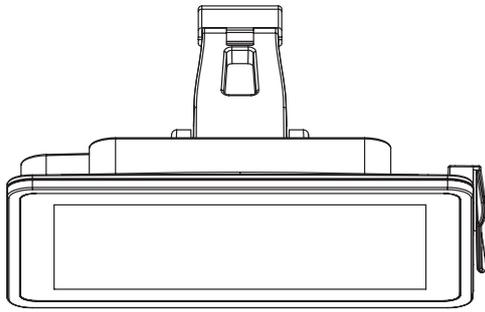
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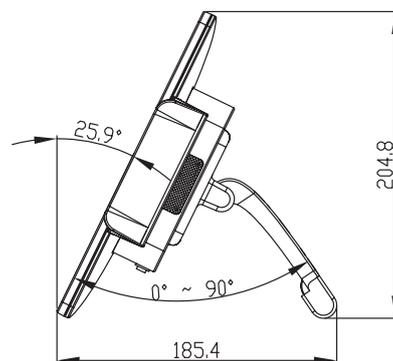
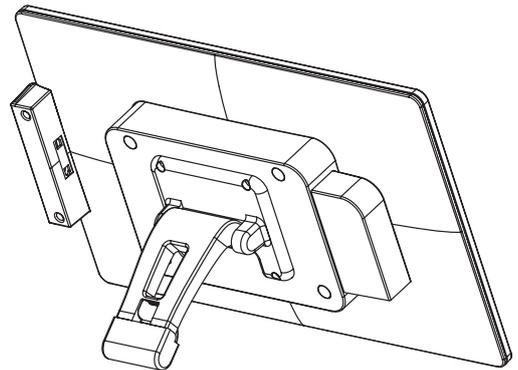
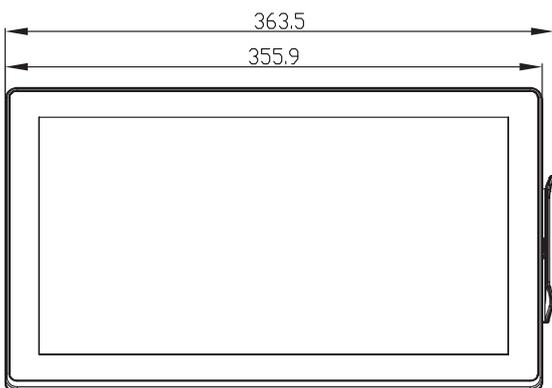
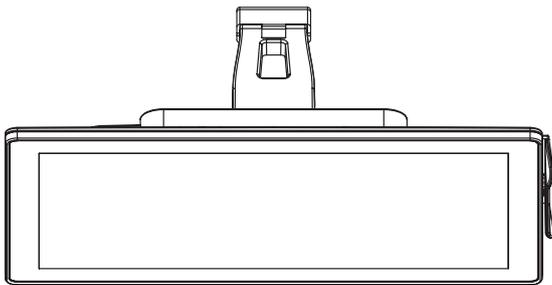
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Standard Display

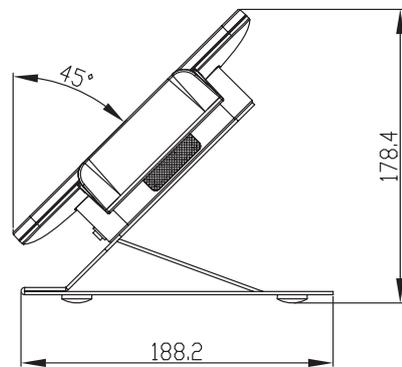
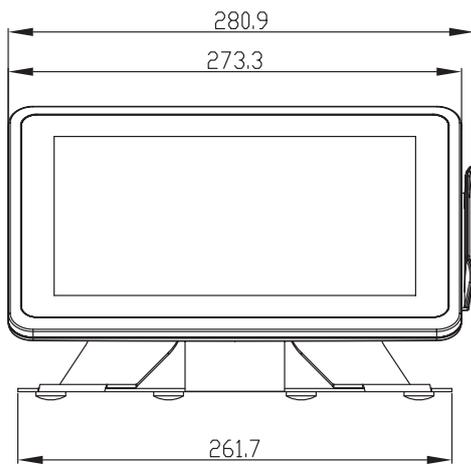
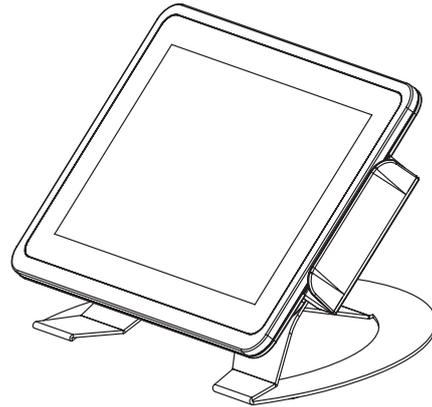
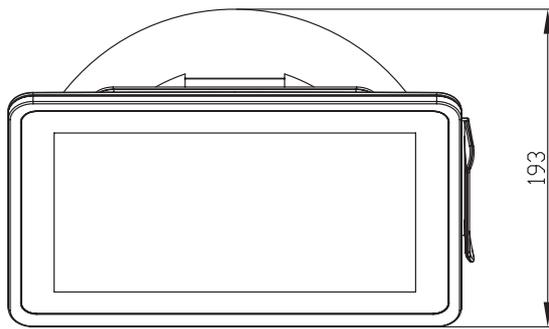
NANO Stand Type (H-610)



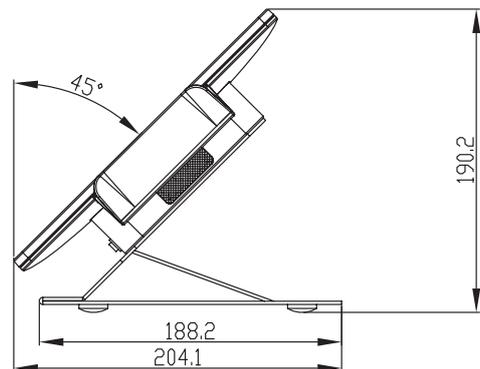
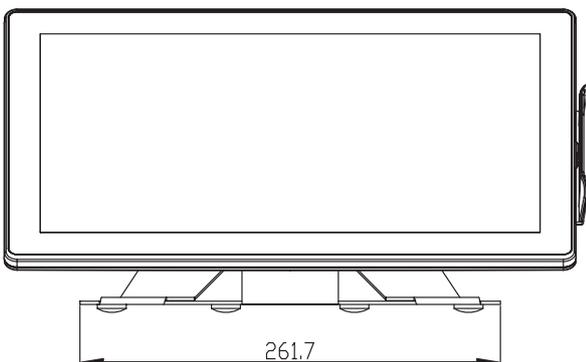
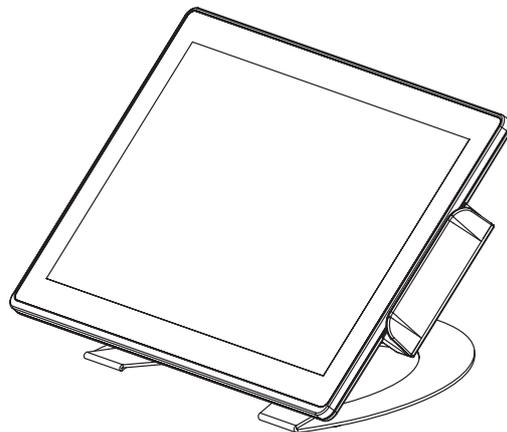
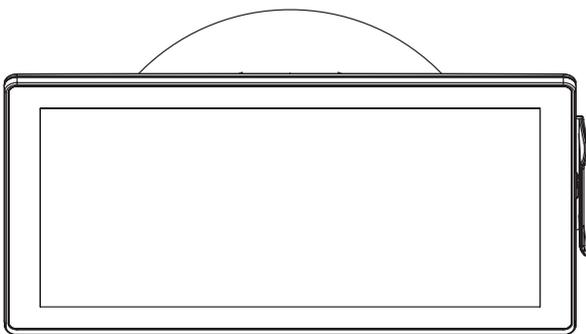
NANO Stand Type (H-614)



LITE Stand Type (H-610)

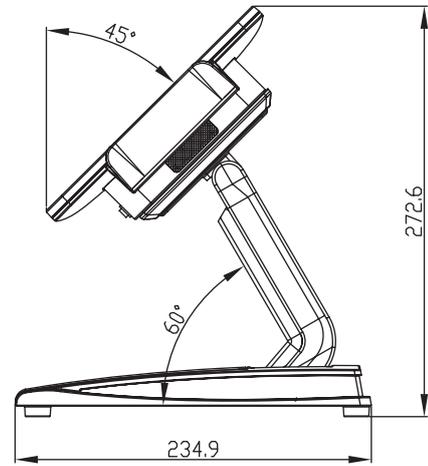
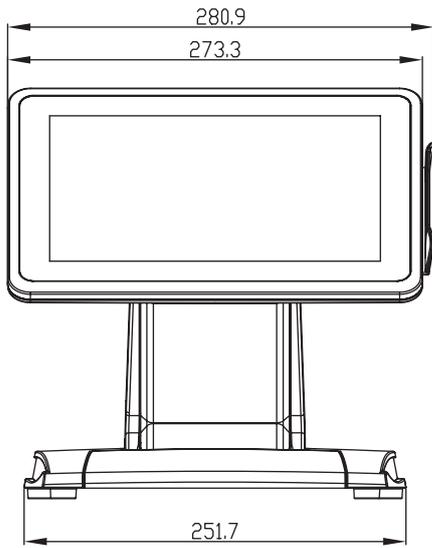
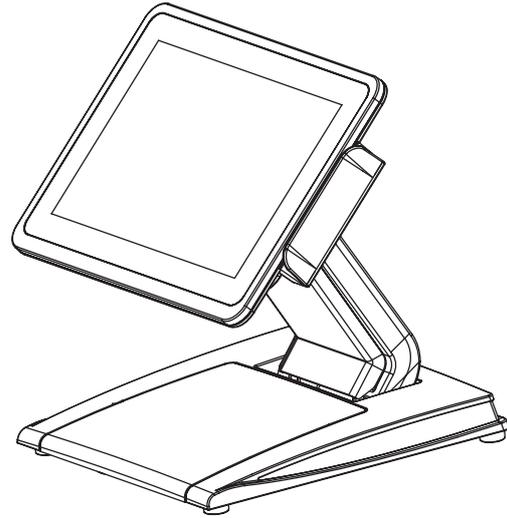
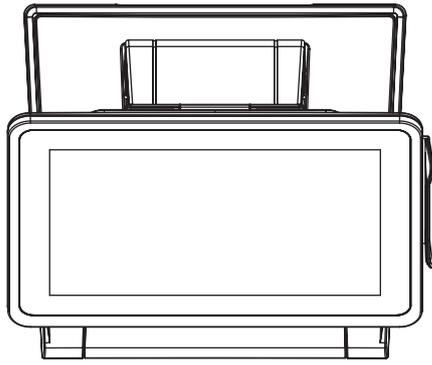


LITE Stand Type (H-614)

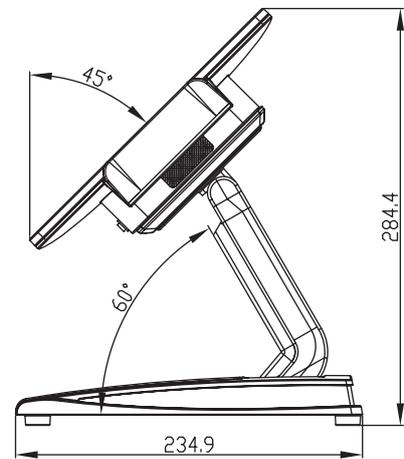
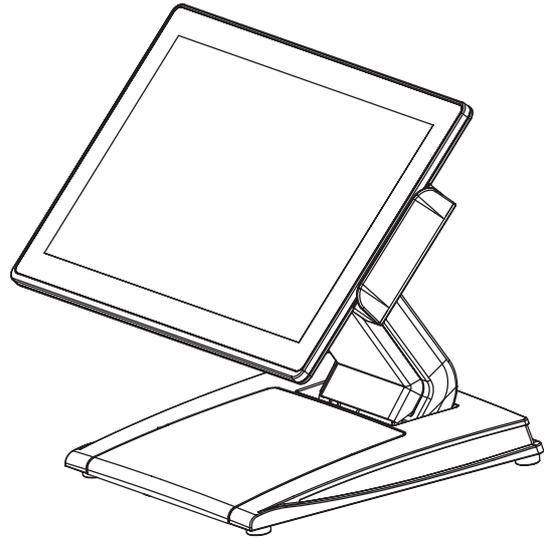
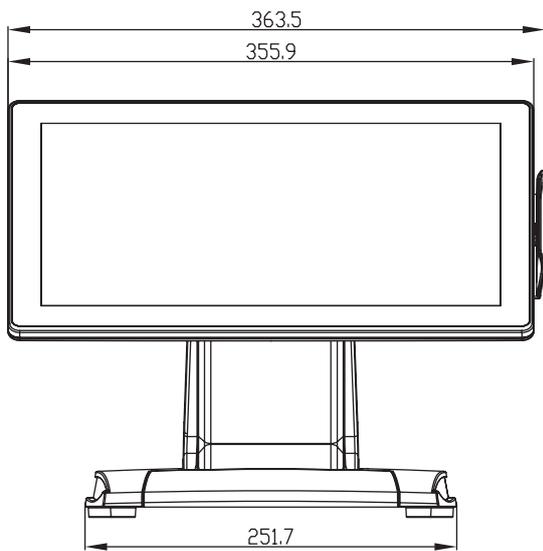
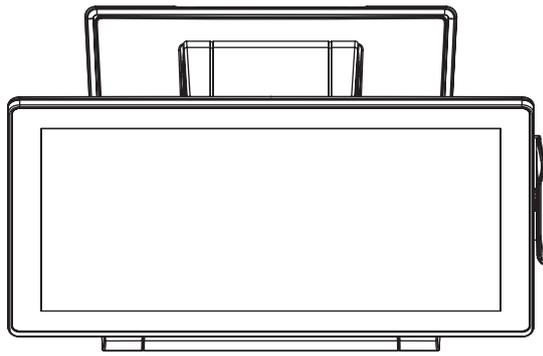


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FLEX Stand Type (H-610)

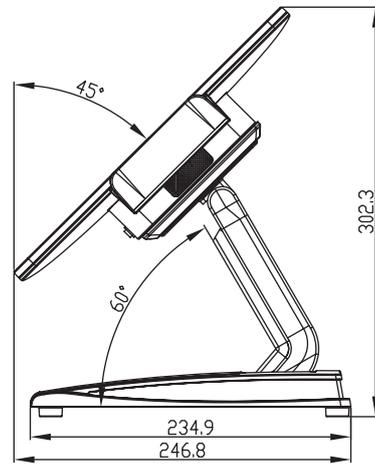
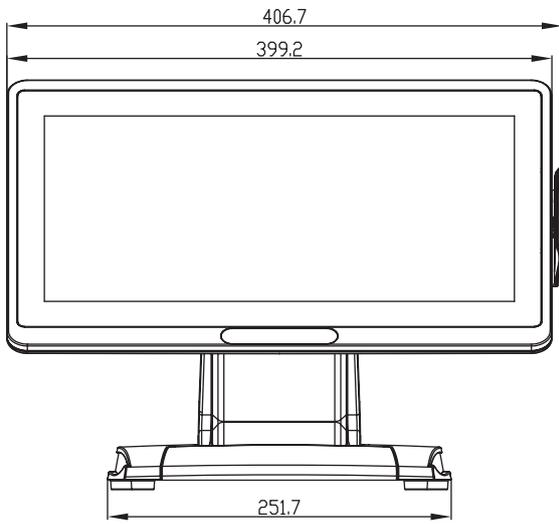
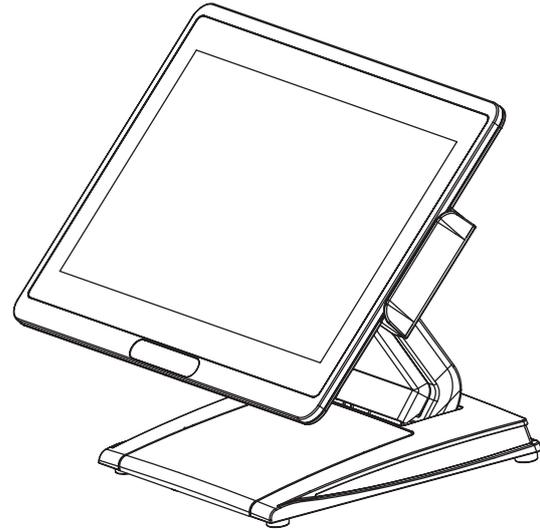
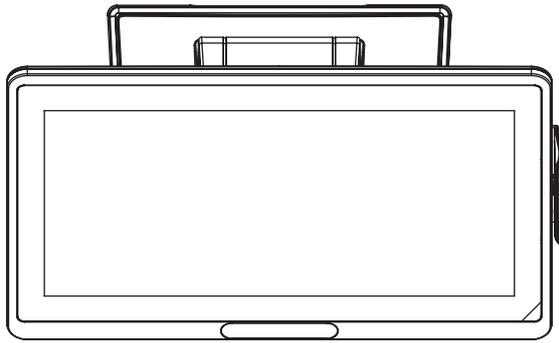


FLEX Stand Type (H-614)



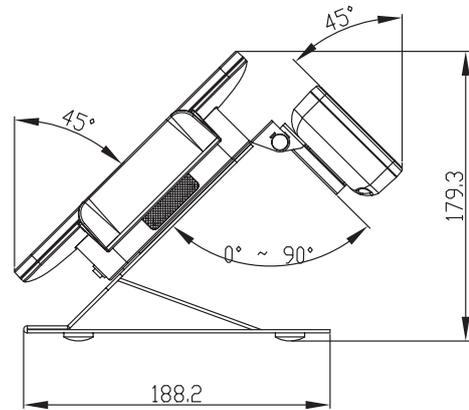
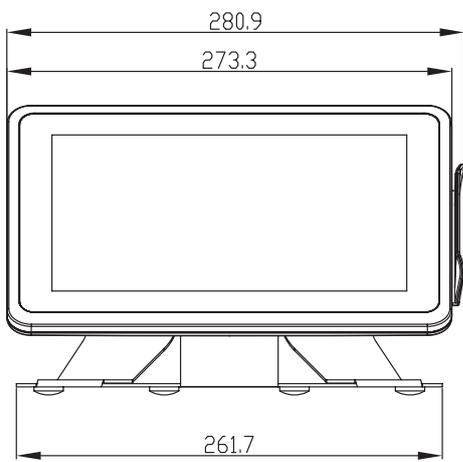
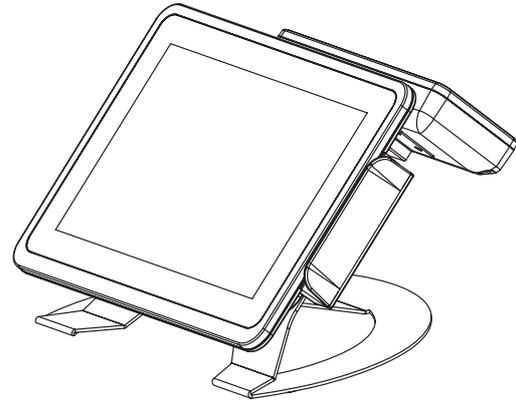
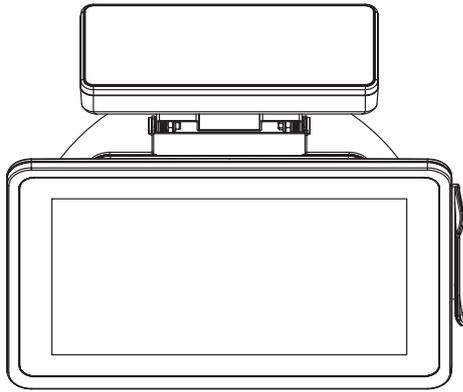
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FLEX Stand Type (H-615)



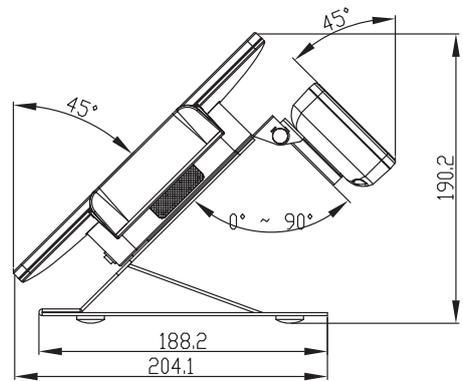
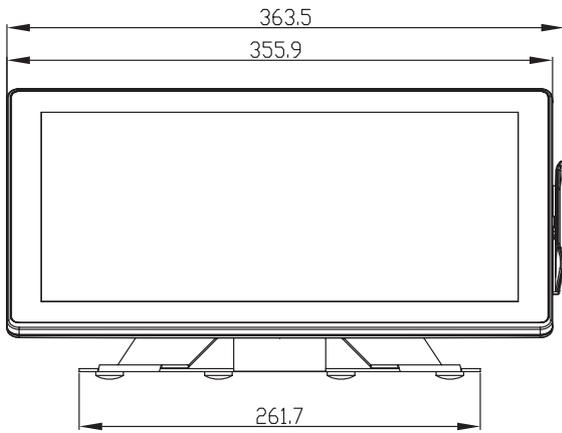
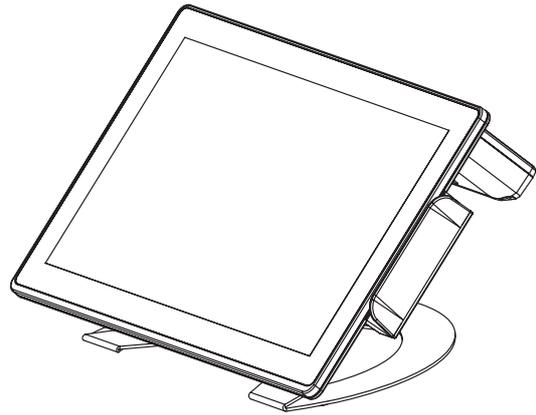
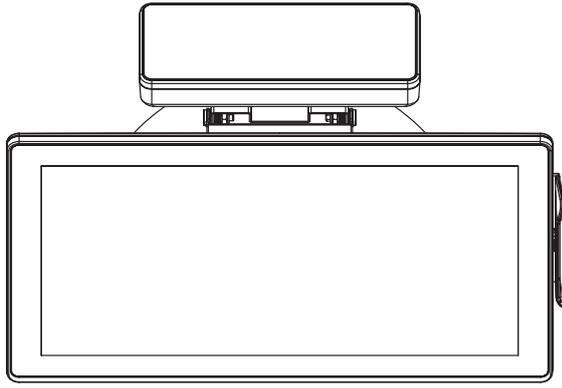
VFD Customer Display

LITE Stand Type (H-610)

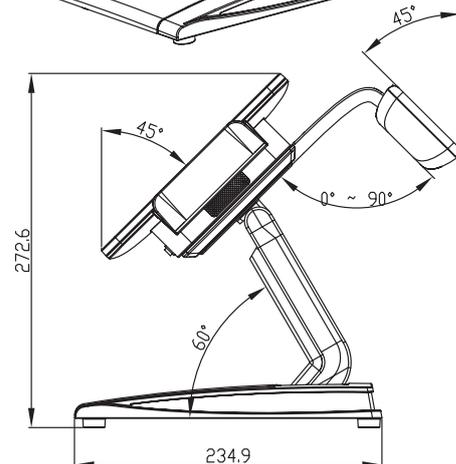
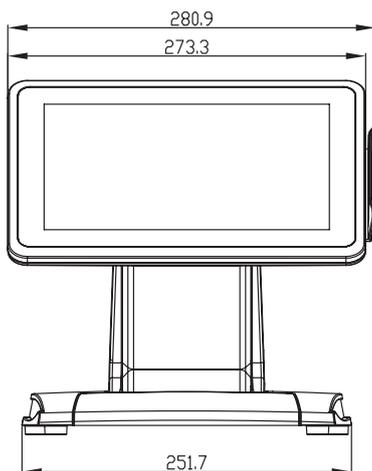
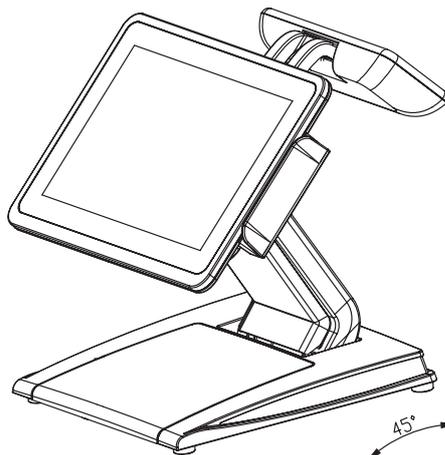
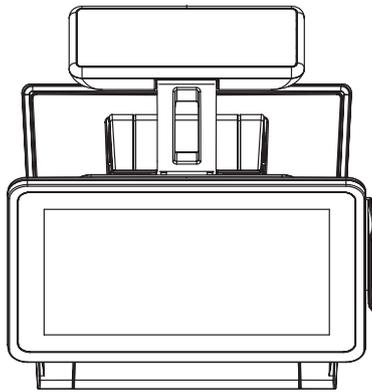


INTRODUCTION

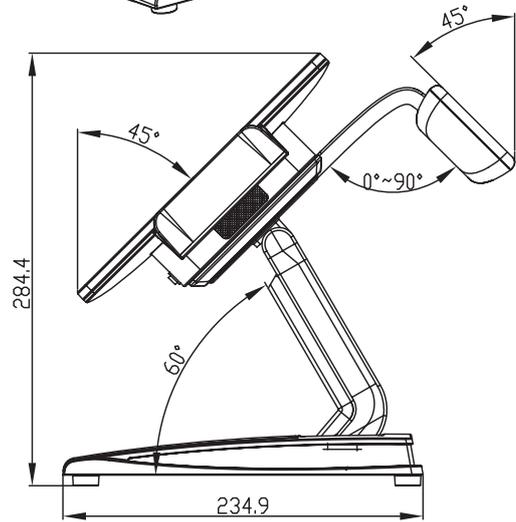
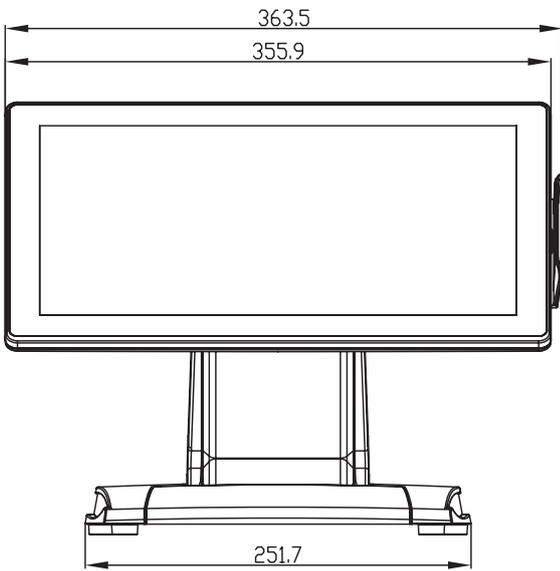
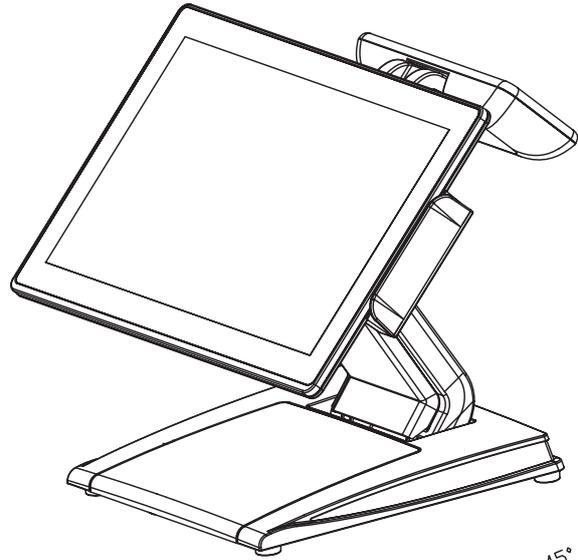
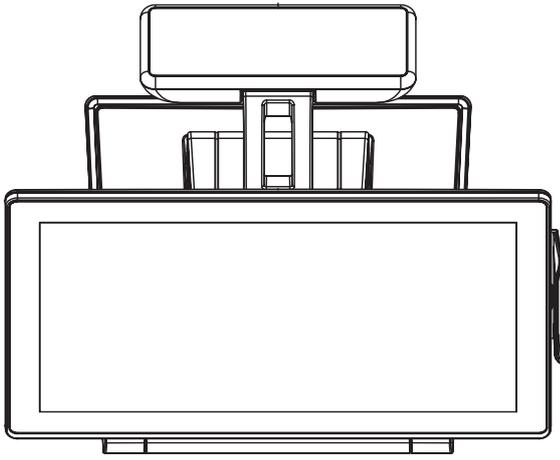
LITE Stand Type (H-614)



FLEX Stand Type (H-610)

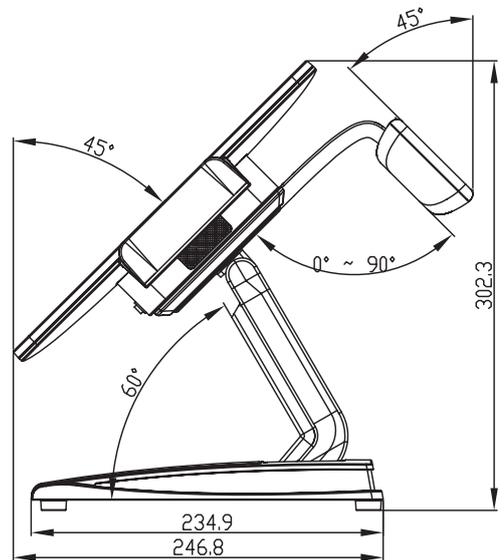
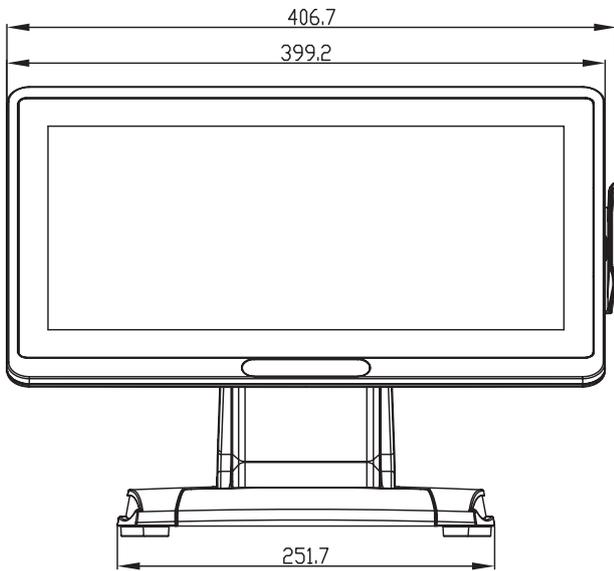
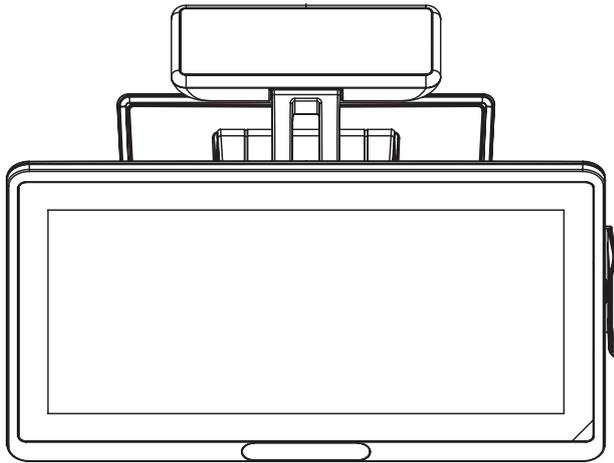


FLEX Stand Type (H-614)



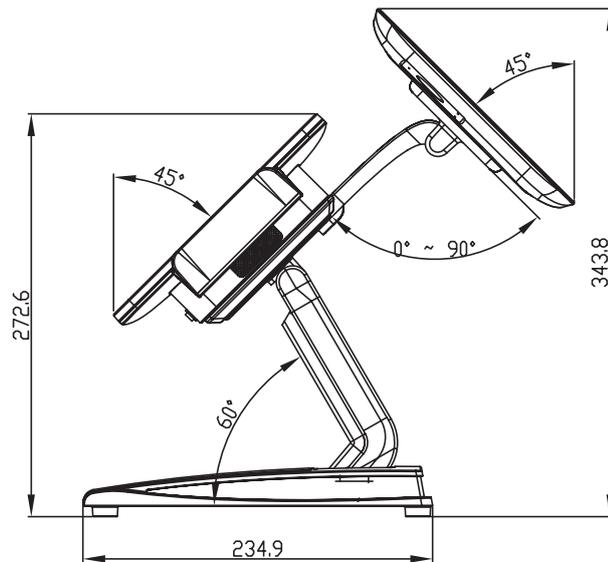
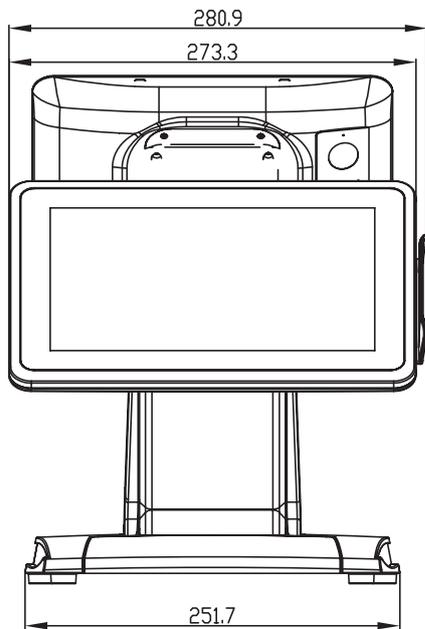
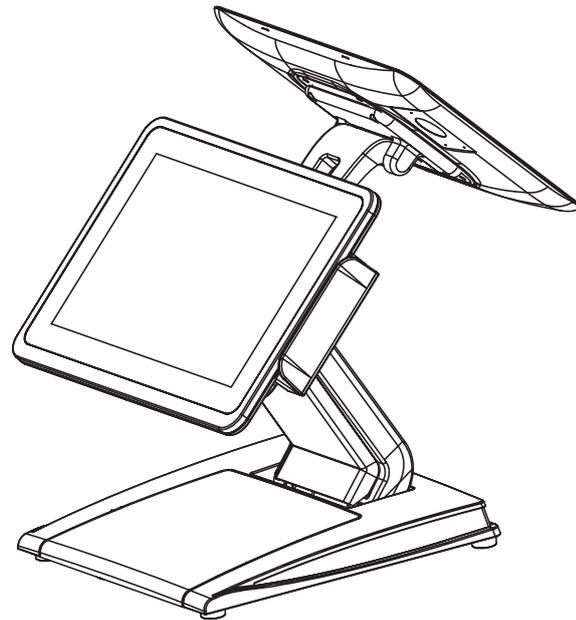
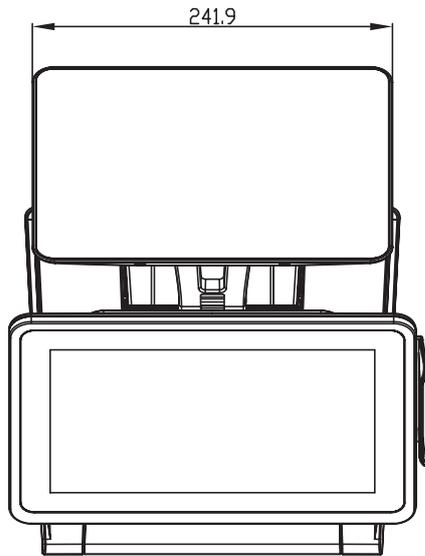
INTRODUCTION

FLEX Stand Type (H-615)



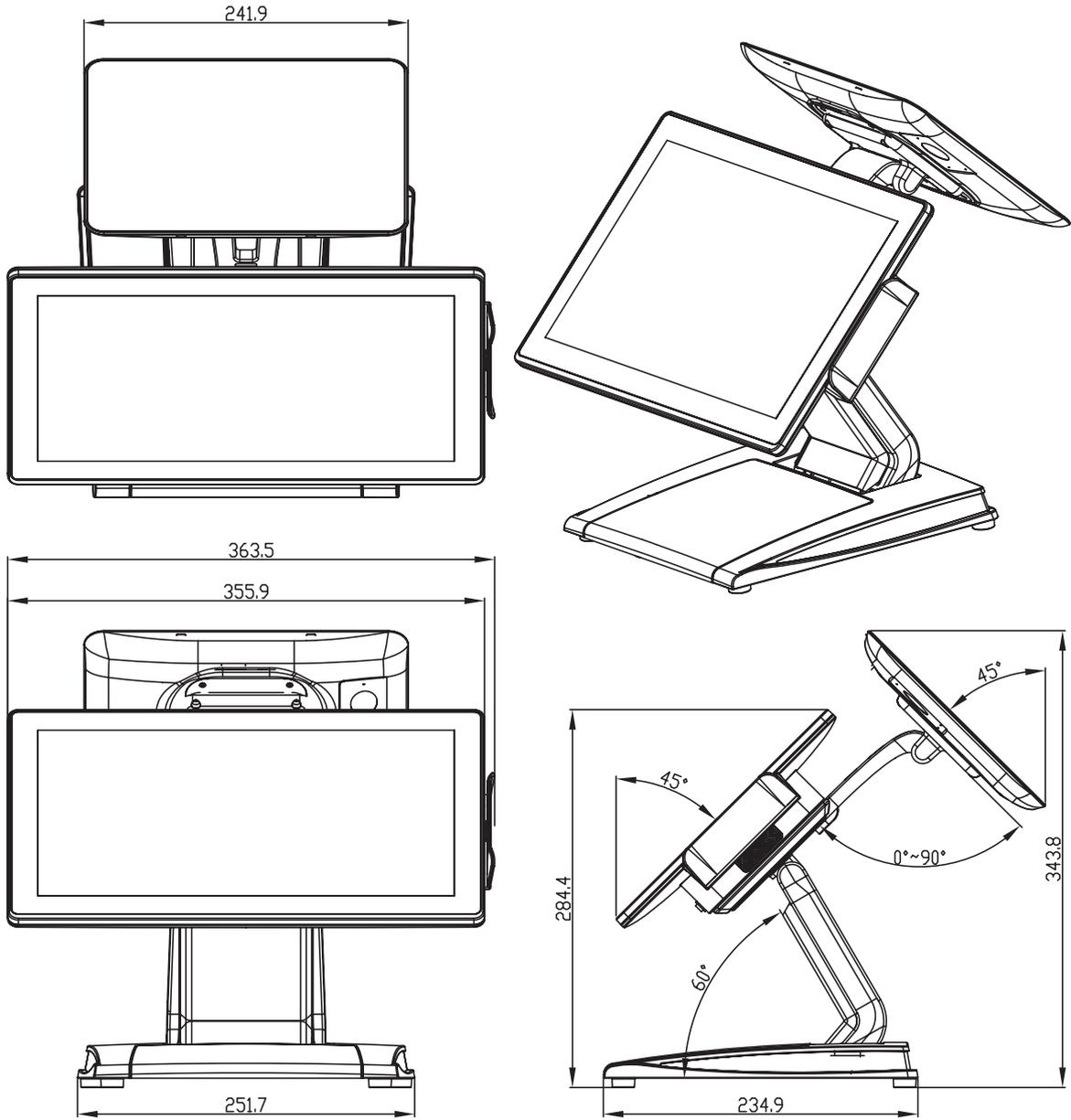
Secondary LCD Display

FLEX Stand Type (H-610)

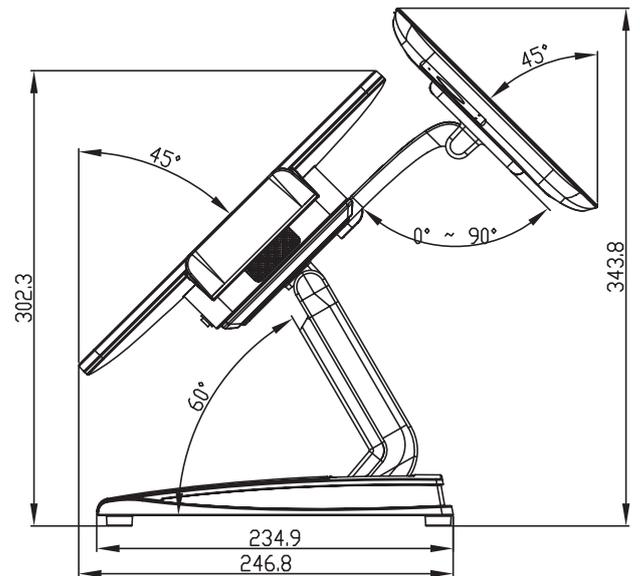
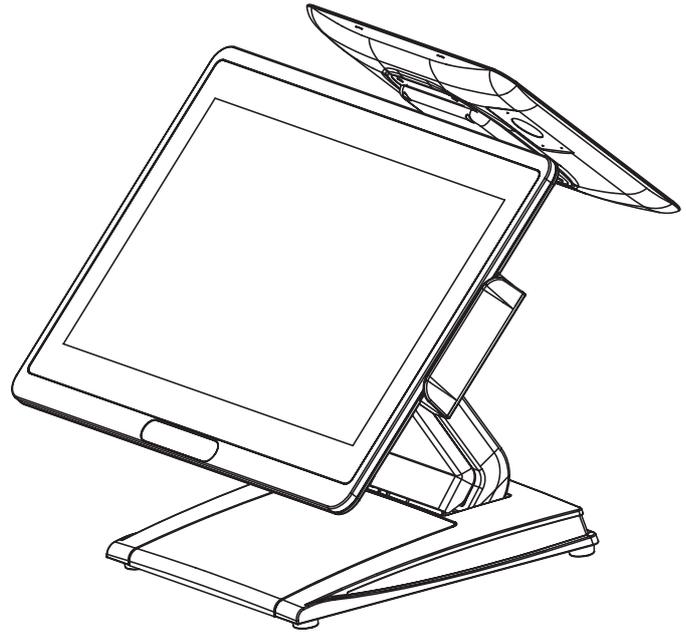
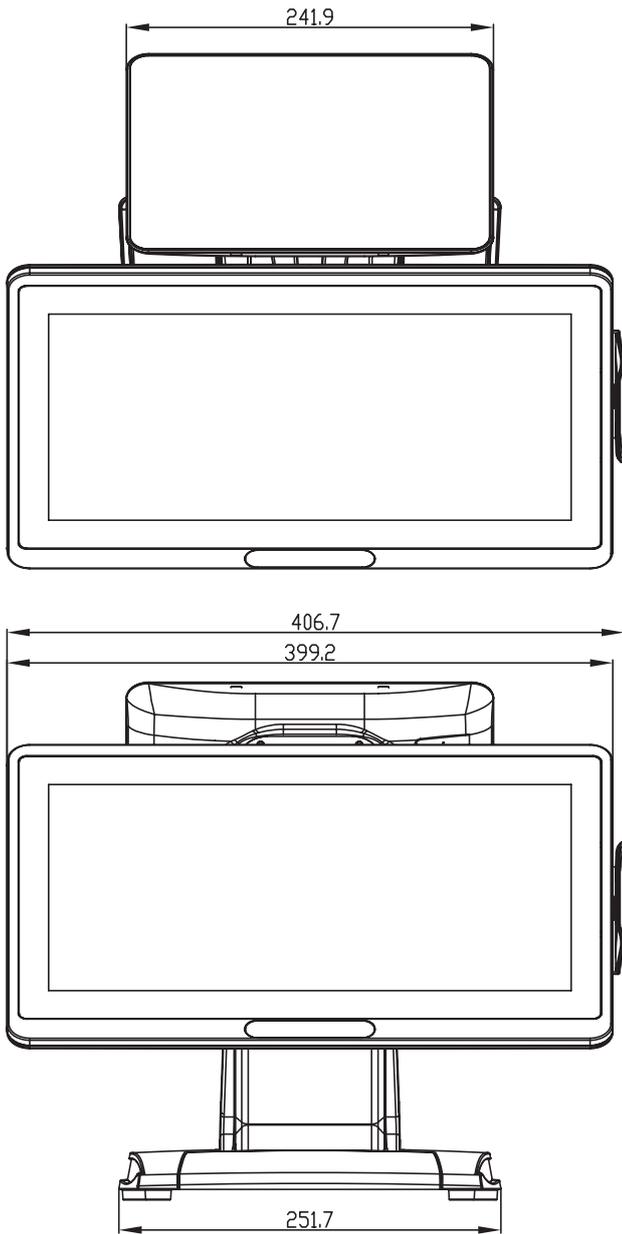


INTRODUCTION

FLEX Stand Type (H-614)



FLEX Stand Type (H-615)



Specifications

Touch Terminal Specifications

Model number	HiFive Series		
	H-610	H-614	H-615
LCD & Touch Panel			
LCD Panel	10.1" LED-backlit display	14.0" LED-backlit display	15.6" LED-backlit display
Resolution	1280 x 800 (LVDS)	1366 x 768 (EDP)	1366 x 768 (EDP)
Brightness	350 cd/m ²	220 cd/m ²	220 cd/m ²
Touch Panel	Flat Projected Capacitive Touch (USB)		
System Configuration			
CPU	Intel® Celeron® J1900 2.0GHz/2.4GHz (burst) (Quad-core)		
Chipset	SoC		
Main Memory	204Pin DDR3L RAM*1 slot, 4GB(default), max. 8GB		
Graphic Memory	Shared memory up to 1696 MB Intel DVM T		
Storage	1 x M.2 Socket(2280 Size / S-ATA II) 64GB(default)~256GB		
I/O Ports			
M/B	U5A-J1900		
USB2.0	4		
USB3.0	1		
RJ50 COM	2 (DC 5V/12V select by Jumper)		
Gigabit Ethernet	1		
Line out	1		
RJ12 cash drawer	1 (24V Default / Dual cash drawer support / OPOS Driver support)		
DC12V Power in	1		
Powering System			
Power Supply	External DC power adapter. AC100 to 240V full range.		
	VESA/NANO/Lite: DC12V / 60W / DC Jack		
Power Button	1 x System on/off trigger		
Physical Condition			
Dimension (L x W x D)	194 x 274 x 46mm	242 x 366 x 47mm	400 x 278 x 47mm
Safety & Environment			
Product Certification	CE/FCC/CB	CE/FCC	
Operation Temperature	0°C to 40°C		
Storage Temperature	0°C to 60°C		

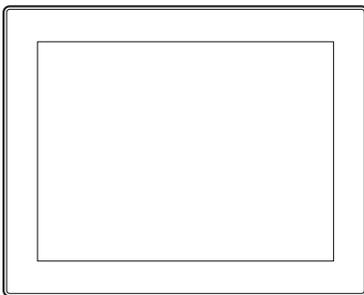
Model number	HiFive Series		
	H-610	H-614	H-615
O/S Compatibility	Windows 7 / POSReady 7 / Window 8.1 Industry / Windows 10 / Linux Kernel 3.0 or above		

NOTE:

Specifications are subject to change without notice.

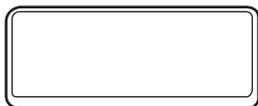
Peripherals Specifications

Secondary LCD Display



Model no.	KEKLC-3318A
LCD Panel	10.1" LED backlight
Touch	10.1" / PCT / 4:3 / USB (optional)
Resolution	1024 x 768
Aspect Ratio	4:3
Viewing Angle	85° (H) / 85° (V)
Response Time	25ms
Contrast Ratio	500:1
Brightness	350 nits
Interface	USB 2.0 (2 ports) or USB 3.0 (1 port)
Power Supply	DC 5V/1A 2-port USB Power Cable

Vacuum Fluorescent Display (VFD)

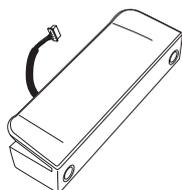


Model no.	KMOTK-0091A
Display Method	Vacuum Fluorescent Display (VFD)
Brightness	500-1000 cd/m ²
Number of Characters	40 (20 columns x 2 lines)
Character Size	6.75 (H) x 3.75 (W) mm
Character Format	5 x 7 dot matrix, cursor
Character Type	95 Alphanumeric, 32 International characters
Dot Size	0.55 (W) X 0.75 (H) mm
Viewing Angle	Max. 90°
Horizontal Rotation	Max. 355°
Interface	RS232

NOTE:

Pre-setting the output voltage of COM port is needed. Please refer to page 32/33 about the COM port jumper setting.

Single Identification Reader



MSR Reader

Model no.	IE-10L
MSR	ISO Track 1/2/3 single/dual/ triple tracks of magnetic card, support ANSI/ ISO Standards 7810, 7811 1/5, 7812 & 7813. USB HID Keyboard mode interface.

Preparing For the Installation

Before you start installing Touch Terminal, read the following instructions.

- HiFive Series do not support PCI slot.
- Do not insert or remove any device or component from the HiFive Series while the power is turned on.
- If using HiFive Series in a dusty environment, clean the Touch Terminal regularly.
- Only USB devices are Hot Swap capable. Be sure to turn off the power of the touch terminal and the device before making any connection or disconnection.
- The spill proof design of HiFive Series conforms to IP65 standard (Front panel only).
- A bug may be found when installing Windows 2000 from a USB CDROM. When this occurs, please go to the Microsoft website at <http://support.microsoft.com/kb/838921> and find the solution.
- Always seek the help of authorized service personnel in disassembling the terminal. The manufacturer will not be held responsible in the event of damage caused by an unauthorized person.
- Before installation or disassembling of the terminal, ensure that the power is turned off. Otherwise, electric shock may occur and may void the warranty.
- For systems preloaded with WEPOS/POSReady/Windows Embedded on the HDD (O/S pre-installed as an option), the manufacturer provides an optional recovery DVD with the preloaded operating system delivered with the Touch Terminal. The System Integrator shall take care of software restoration after an OS recovery. A manufacturer-supplied USB interface COMBO drive will be required for such action. Other brands of COMBO drive may require a specific driver different from what is supported in the recovery DVD. **Please use the recovery DVD for rescue operation only. Using it otherwise may wipe out whatever is stored in the HDD.** All upgrade device drivers needed for manual installation are available in the subfolder “\drivers” in the OS recovered HDD. Then follow the instructions from your system integrator for software recovery.
- For SoC limitation, the G-615S is required to install at least one DDR3 memory module before booting up the operating system. Be sure to install it in the DDR3 channel 1 socket.

System Default Settings

The following is the information on default settings for Touch Terminal serial ports.

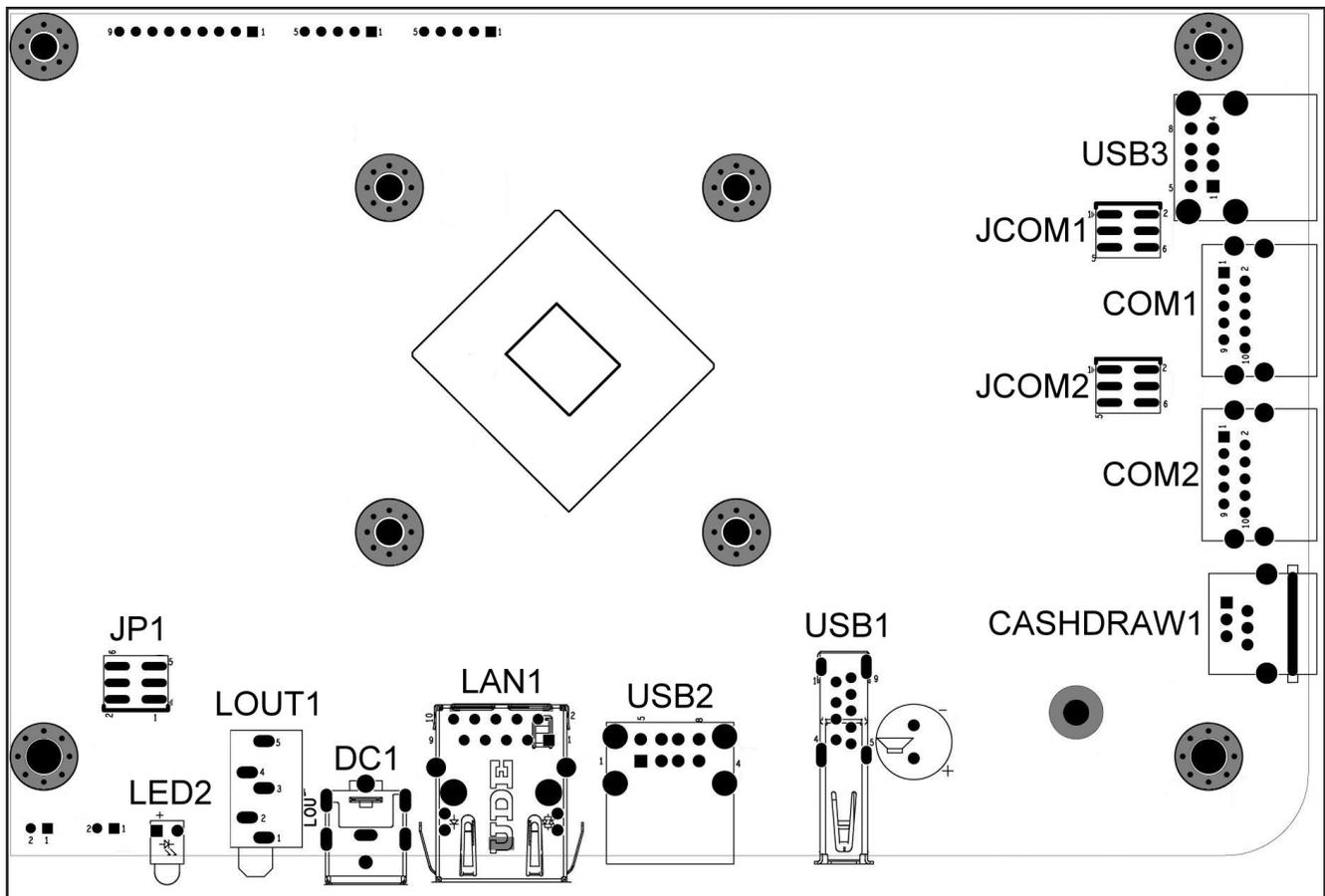
U-615

COM1	COM2	COM3	COM4
3F8	2F8	3E8	2E8
IRQ4	IRQ3	IRQ5	IRQ10

Main Board Jumper Setting and Connector Definition

U-615

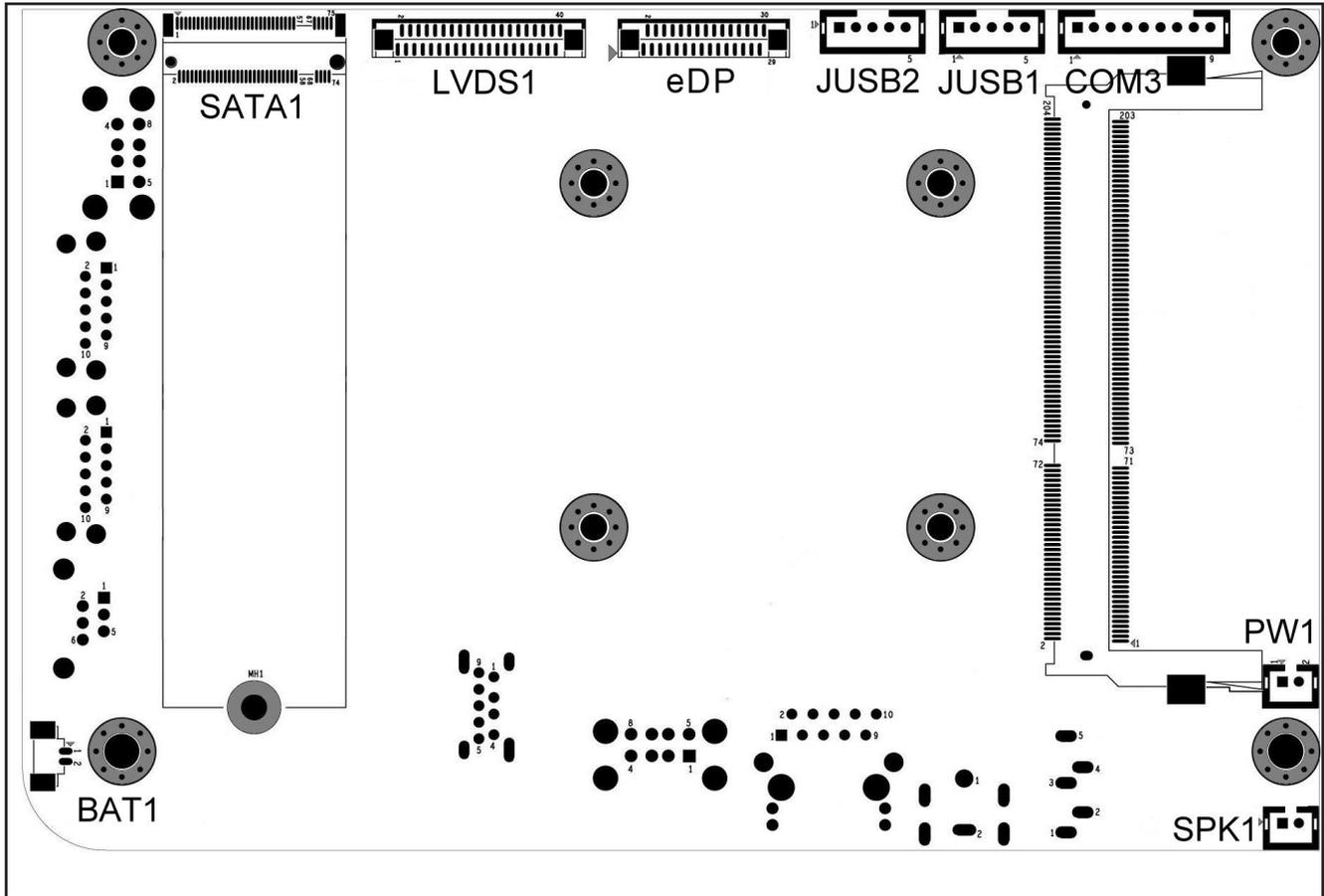
Top View



Connector/Jumper	Description
LED2	Power status light
LOUT1	Audio line output connector
DC1	12V DC power input
LAN1	LAN connector (RJ45)
USB2	USB2.0 x2 connector
USB1	USB3.0 x1 connector
CASHDRAW1	Cash Drawer output (RJ12)
COM1	COM1 connector (RJ50)
COM2	COM2 connector (RJ50)
USB3	USB2.0 x2 connector
JP1	BIOS flash by maintenance

PREPARING FOR THE INSTALLATION

Bottom View

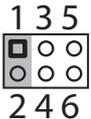


Connector/Jumper	Description
PW1	Power button connector
SPK1	Speaker connector
COM3	COM3 connector for RS-232 POS input device (JST2.0 1x9)
JUSB1	USB port for POS input device
JUSB2	USB port for USB Touch
EDP1	eDP LED Panel
LVDS1	LVDS LED Panel
SATA1	M.2 M-key SATA type
BAT1	RTC battery connector

JCOM1: COM1 D-SUB PIN9 VOLTAGE SELECT

	1-2=0V 3-4=+5V 5-6=+12V	Default = 0V
--	-------------------------------	--------------

JCOM2: COM2 D-SUB PIN9 VOLTAGE SELECT

	1-2=0V 3-4=+5V 5-6=+12V	Default = 0V
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Voltage Output Definition

U-615

Connector with Voltage Output	Location	Power Support
COM 1 for extension interface (9 th PIN of DB-9)	Main Board	DC5V/DC12V Select by jumper
COM 2 for extension interface (9 th PIN of DB-9)	Main Board	DC5V/DC12V Select by jumper
COM 3 for extension interface (9 th PIN of DB-9)	Main Board	DC5V
Standard USB2.0 Ports	Main Board	DC5V / 500mA

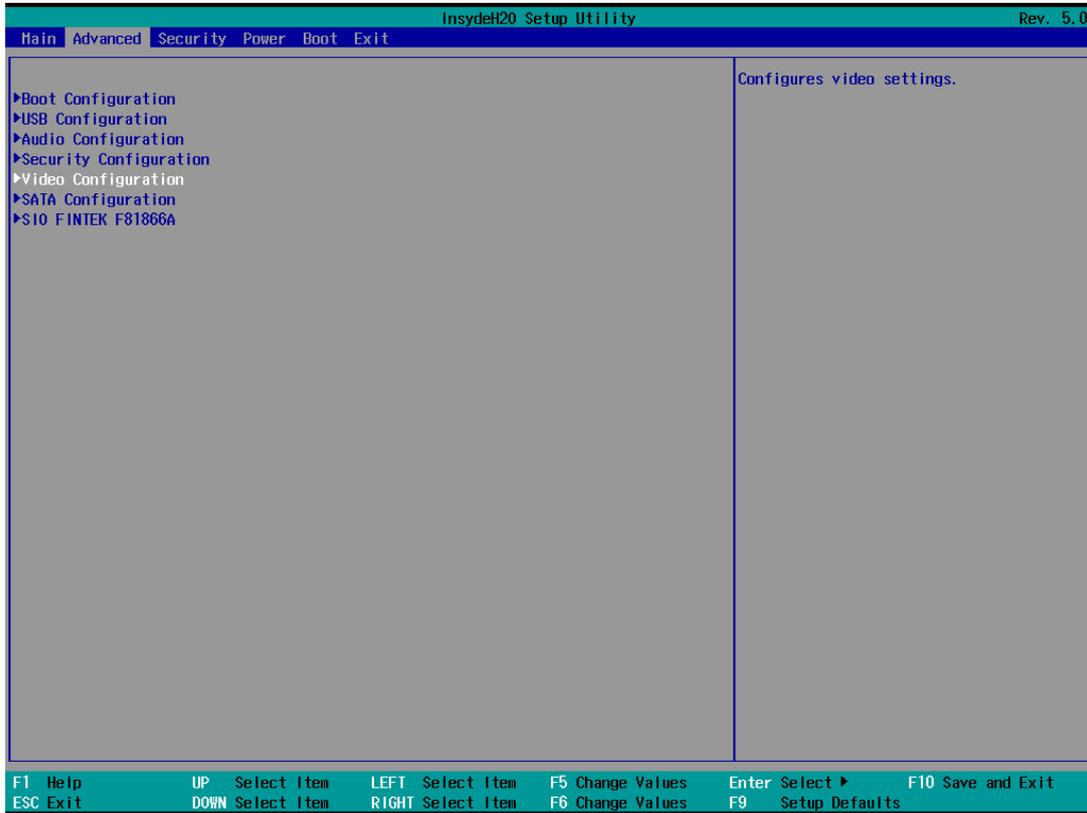
NOTE:

- COM1 and COM2 maximum output is 5V/3A or 12V/2A.
- COM3 maximum output is 5V/1A.

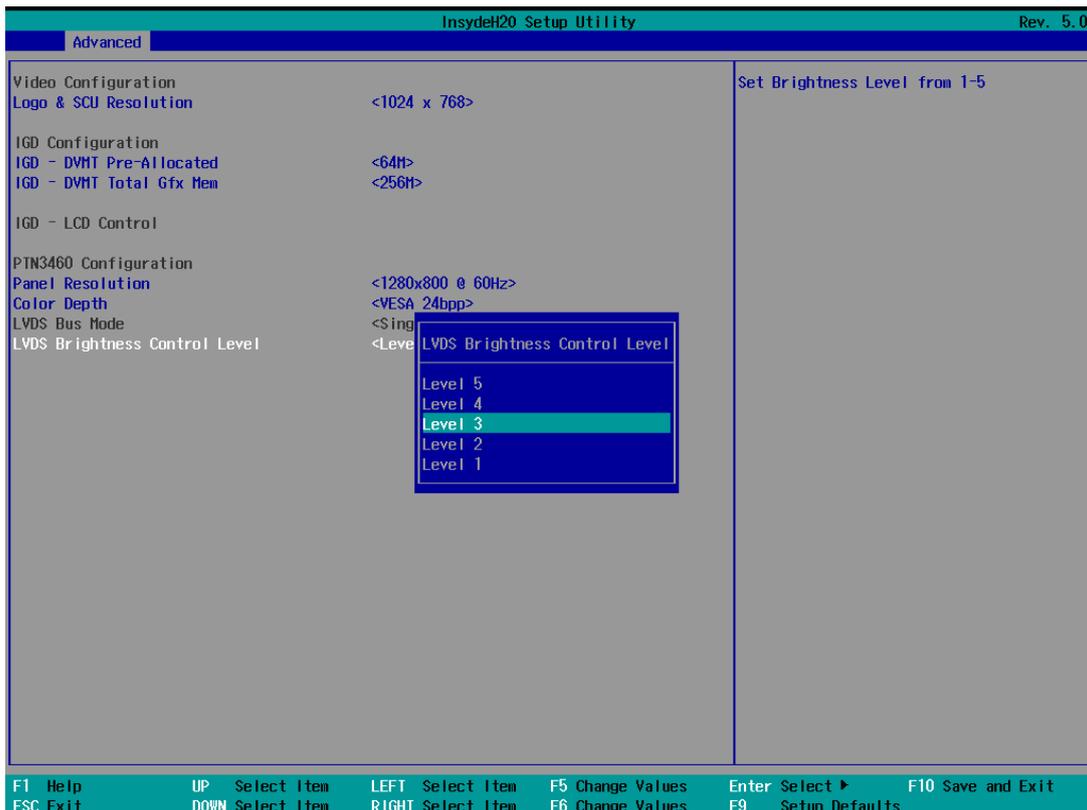
Setting the LCD Brightness

U-615 LVDS Panel

1. When the system boots up, press **F2** to enter the *BIOS Setup Utility*. Select the **Advanced** tab, then select **Video Configuration**.

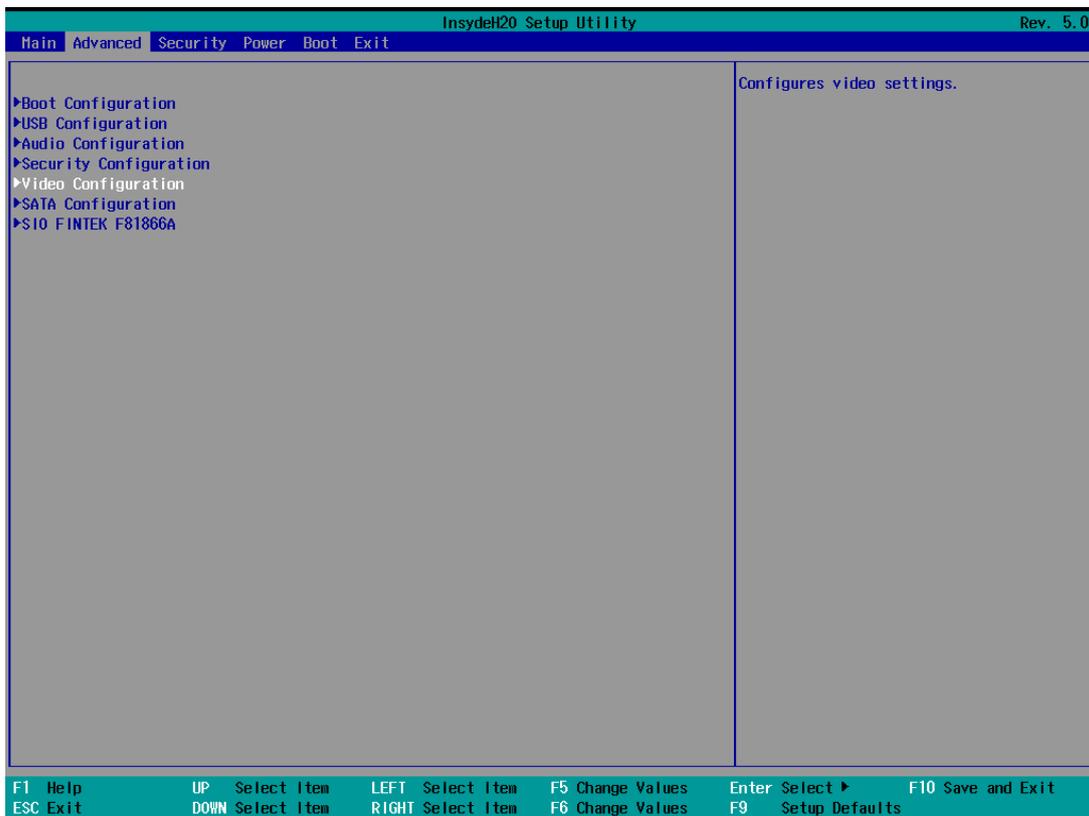


2. Select **LVDS Brightness Control Level** and set the desired LCD brightness level setting.

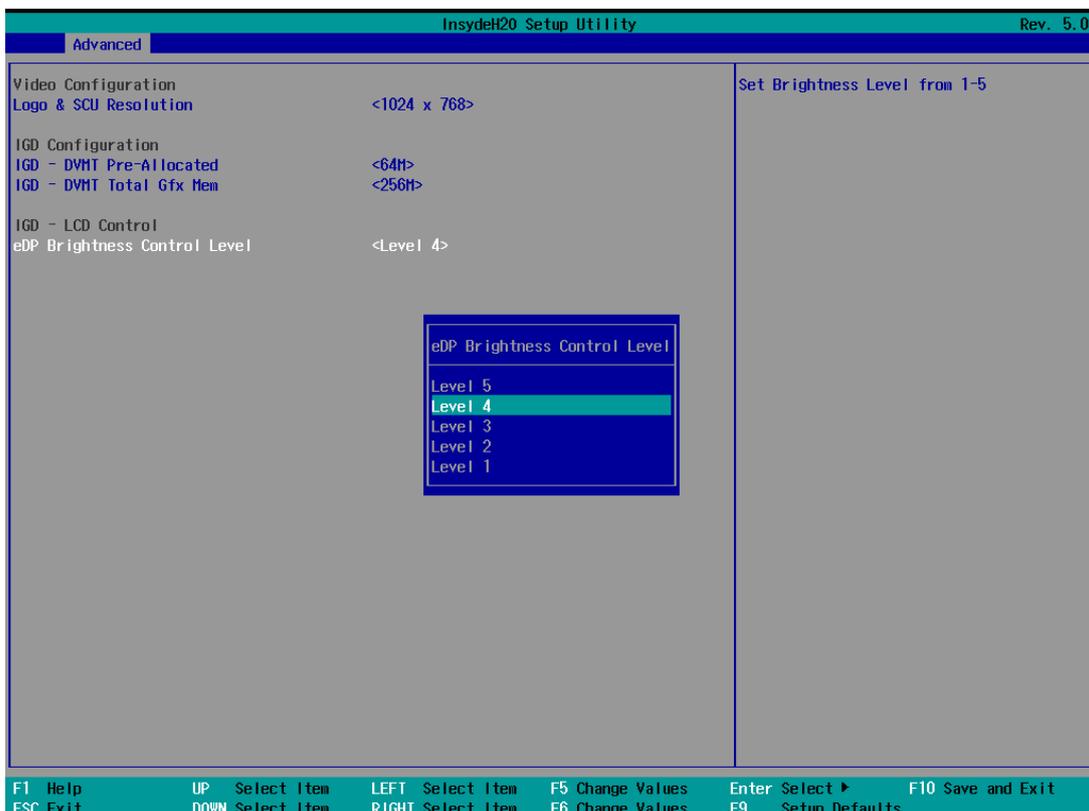


U-615 eDP Panel

1. When the system boots up, press **F2** to enter the *BIOS Setup Utility*. Select the **Advanced** tab, then select **Video Configuration**.



2. Select **eDP Brightness Control Level** and set the desired LCD brightness level setting.



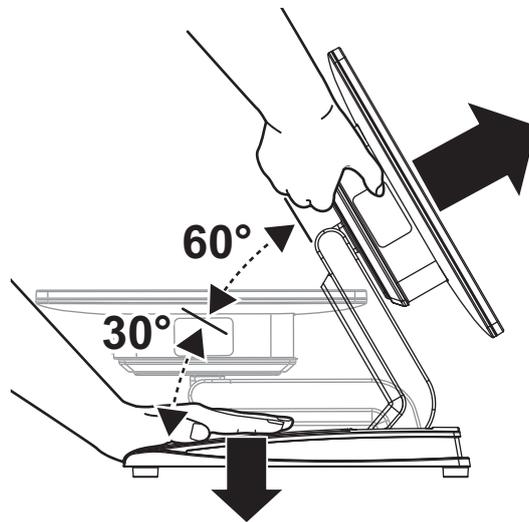
Hardware Installation

Adjusting the System Stand (FLEX Type)

CAUTION:

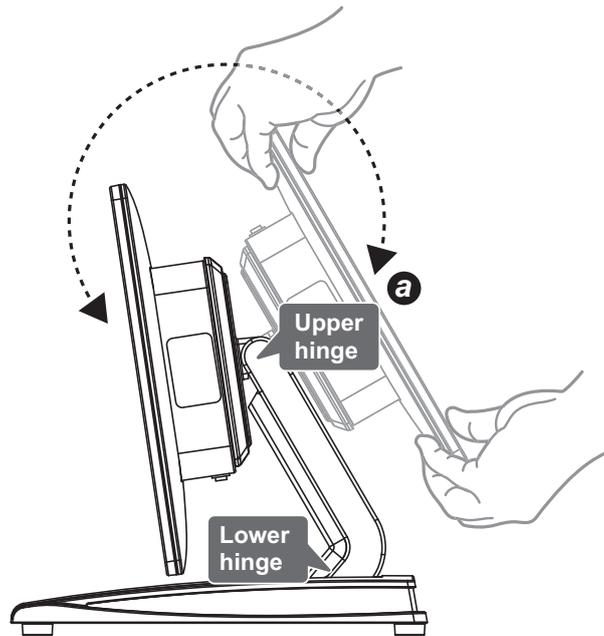
Never open the unit unless it is in the lowest horizontal position. Otherwise, system components may be damaged.

1. Place the Touch Terminal on a stable surface and carefully lift the LCD panel.
2. Support the stand firmly with one hand while pushing the back of the LCD panel backwards with the other hand.

**NOTE:**

- *Carefully tilt the unit backwards, some force is required.*
- *Lift the head to the 1st detent where the screen will lock in the 30-degree position. Then the 2nd detent will lock in 60-degree position.*

3. Flip the LCD panel around to face outward.

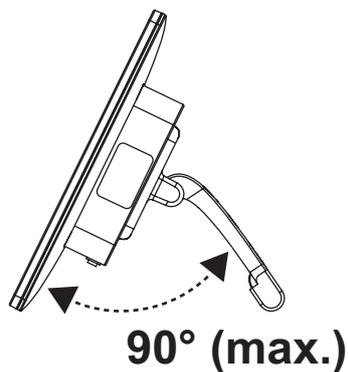


NOTE:

- *Because the stand joints are tight, you might need to exert some force to maneuver the Terminal.*
- *Make sure always rotate around the head to the position "a" before adjusting the upper hinge.*

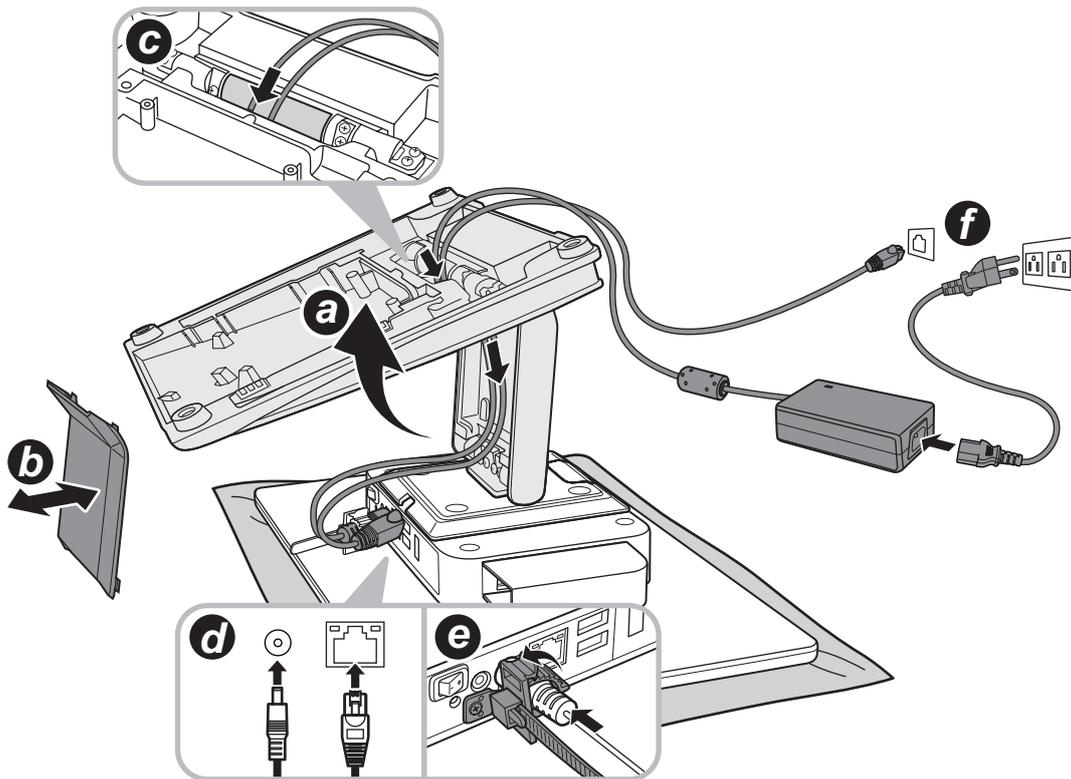
Adjusting the System Stand (NANO Type)

Extend the kickstand and place the Touch Terminal on the stable surface.



Installing the Power Cord, Power Adapter, and Network Cable

1. Place the Touch Terminal on a soft and flat surface, with the LCD panel facing down. Then push the stand upwards **(a)** for easy access to the cable compartment cover.
2. Remove the cable compartment cover **(b)**.
3. Route the power adapter and the network cable through the cable compartment. **(c)**
4. Connect the network cable to the LAN port. Then connect the power adapter to the DC IN jack. **(d)**
5. Use the cable clip to secure the power adapter in place. **(e)**
6. Align and install the cable compartment cover. **(b)**
7. Connect the power adapter to the power cord. Then plug the other end of the power cord to an electrical outlet. **(f)**
8. Connect the network cable to connect to a hub or switch. **(f)**



Installing the Customer Display (Optional)

WARNING:

Be sure to turn off the power of the Touch Terminal before making any connection or disconnection.

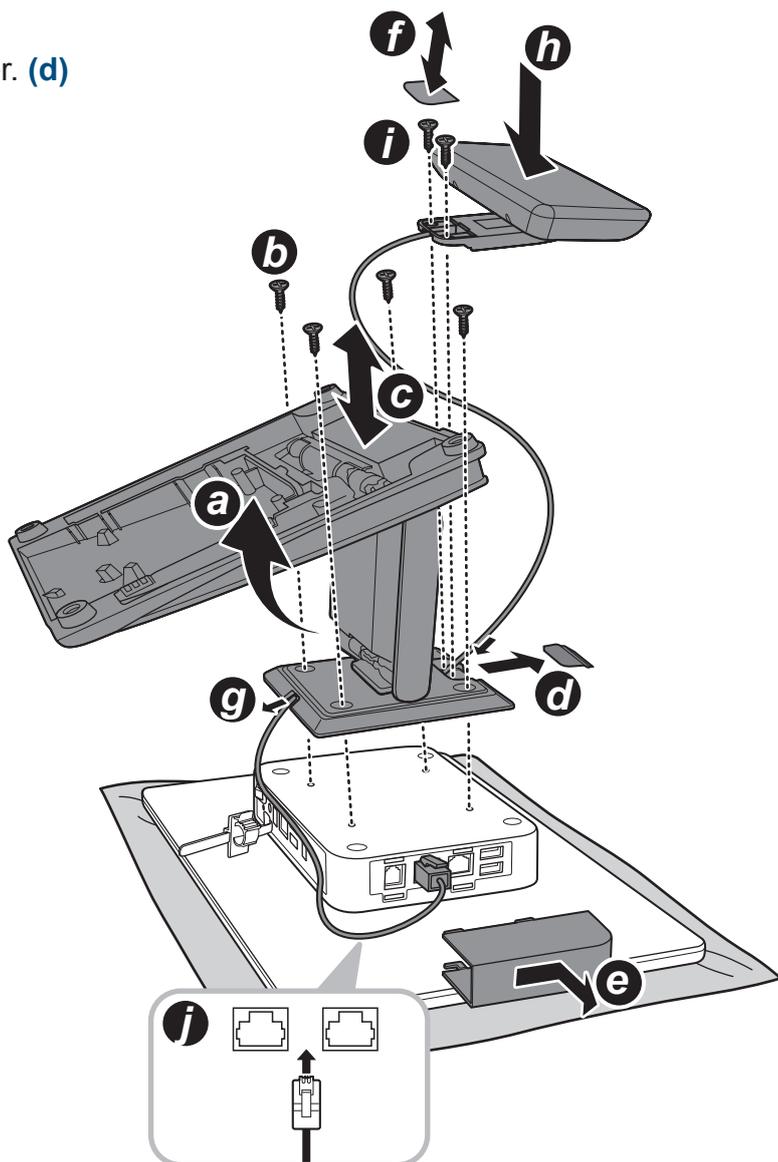
To configure the COM port voltage setting to +5V, refer to "Main Board Jumper Setting and Connector Definition" on page 31 ~ 33.

NOTE:

The customer display can only be installed on the Touch Terminal that is equipped with FLEX or LITE stand type.

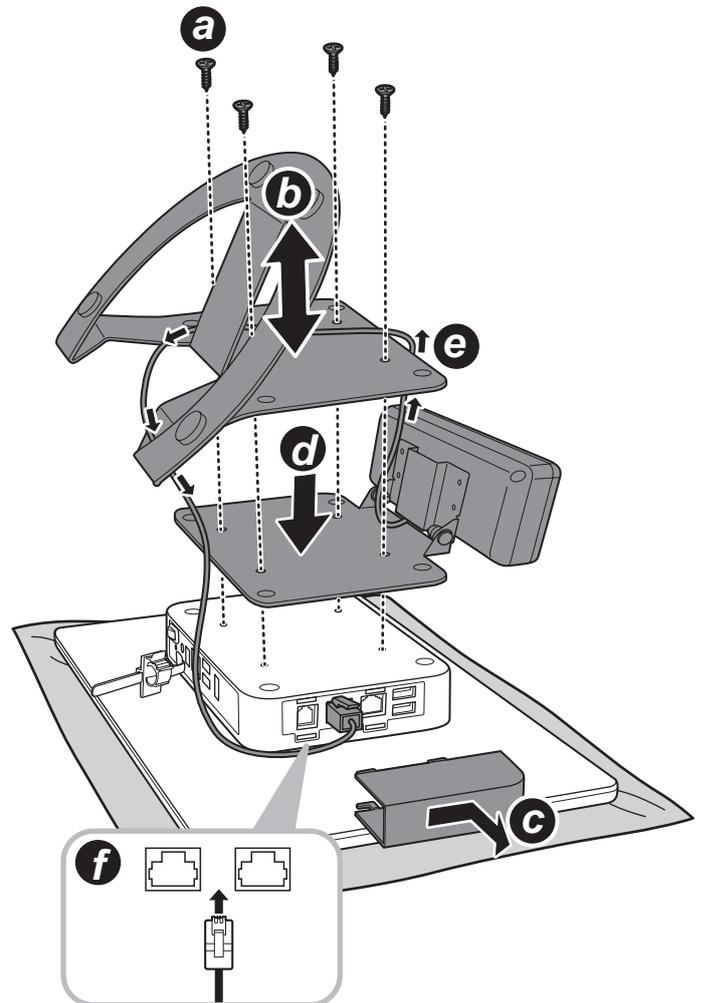
FLEX Stand Type

1. Place the Touch Terminal on a soft and flat surface, with the LCD panel facing down. Then push the stand upwards to access the screws securing the stand to the Touch Terminal. **(a)**
2. Remove the four screws securing the stand to the Touch Terminal. **(b)**
3. Remove the stand. **(c)**
4. Remove the VESA compartment cover. **(d)**
5. Remove the I/O port cover. **(e)**
6. Detach the customer display compartment cover from the customer display. **(f)**
7. Route the customer display cable through the cable compartment on the stand. **(g)**
8. Install the stand **(c)** and secure the stand to the Touch Terminal with the four screws **(b)**.
9. Align and install the customer display into its slot on the stand. **(h)**
10. Secure the customer display to the Touch Terminal using the two screws. **(i)**
11. Align and install the customer display compartment cover. **(f)**
12. Connect the customer display cable to one of the COM ports on the Touch Terminal. **(j)**
13. Replace the I/O port cover.



LITE Stand Type

1. Place the Touch Terminal on a soft and flat surface, with the LCD panel facing down.
2. Remove the four screws securing the stand to the Touch Terminal. **(a)**
3. Remove the stand. **(b)**
4. Detach the I/O port cover. **(c)**
5. Align and place the customer display on the rear of the Touch Terminal. **(d)**
6. Place the stand on the top of the customer display bracket. **(b)**
7. Route the customer display cable as shown in the illustration. **(e)**
8. Connect the customer display cable to one of the COM ports on the Touch Terminal. **(f)**
9. Replace the I/O port cover.
10. Secure the stand and customer display bracket to the Touch Terminal with the four screws. **(a)**

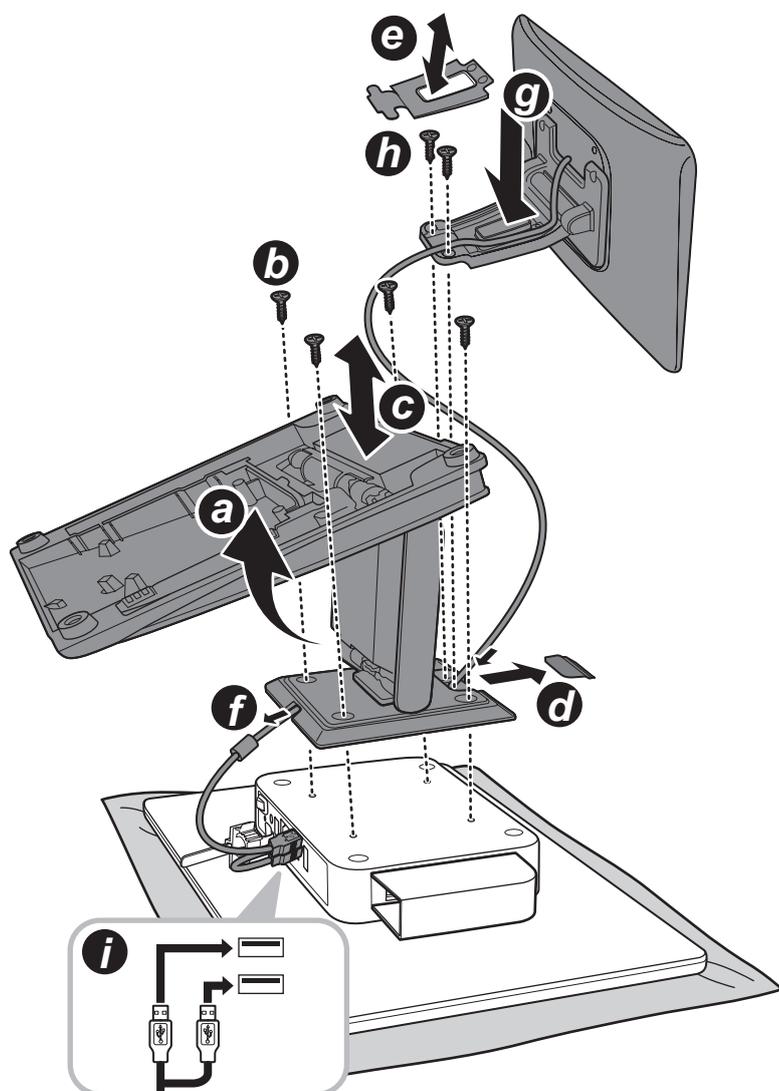


Installing the Secondary LCD Display (Optional)

WARNING:

Be sure to turn off the power of the Touch Terminal before making any connection or disconnection.

1. Place the Touch Terminal on a soft and flat surface, with the LCD panel facing down. Then push the stand upwards to access the screws securing the stand to the Touch Terminal. **(a)**
2. Remove the four screws securing the stand to the Touch Terminal. **(b)**
3. Remove the stand. **(c)**
4. Remove the VESA compartment cover. **(d)**
5. Deattach the cable compartment cover from the secondary LCD display. **(e)**
6. Route the secondary LCD display USB Y-cable through the cable guides on the stand as illustrated. **(f)**
7. Install the stand **(c)** and secure the stand to the Touch Terminal with the four screws **(b)**.
8. Align and install the secondary LCD display into its slot on the stand. **(g)**
9. Secure the secondary LCD display to the Touch Terminal with the two screws. **(h)**
10. Align and install the cable compartment cover. **(e)**
11. Connect the secondary LCD display USB Y-cable to the USB ports on Touch Terminal. **(i)**



NOTE:

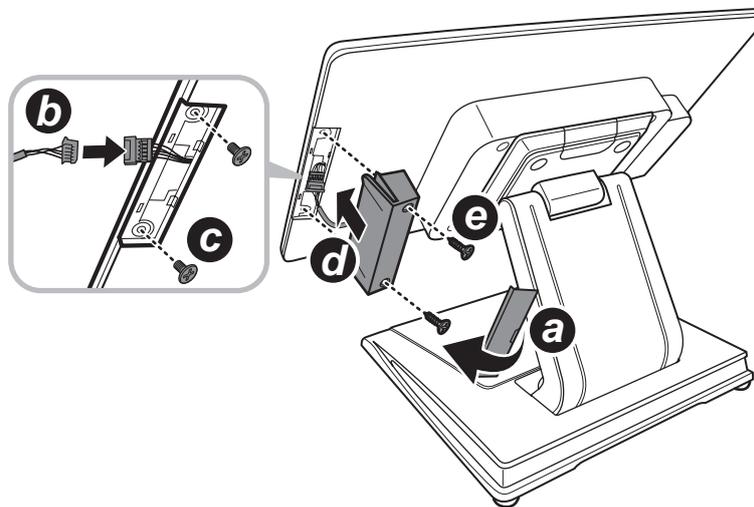
The secondary LCD display can only be installed on the Touch Terminal that is equipped with FLEX stand type.

Installing the Magnetic Stripe Reader (MSR) (Optional)

WARNING:

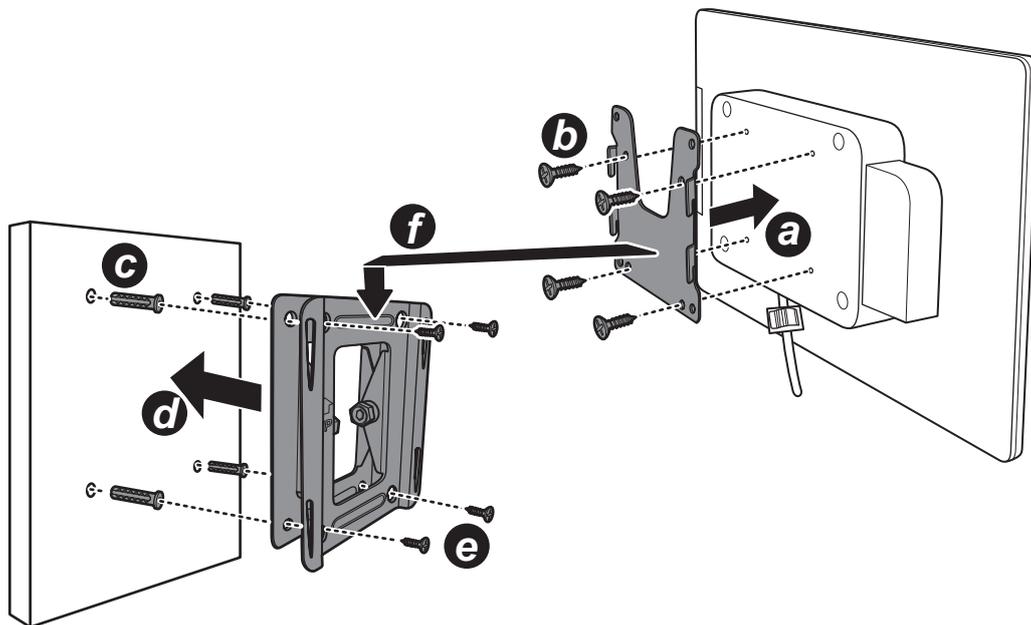
Be sure to turn off the power of the Touch Terminal before making any connection or disconnection.

1. Remove the MSR module compartment cover. **(a)**
2. Firmly connect the MSR connector into the slot inside the compartment. **(b)**
3. Remove the two screws from the compartment. **(c)**
4. Align and install the MSR module onto its compartment. **(d)**
5. Secure the MSR module to the Touch Terminal with the two screws. **(e)**



Installing the VESA Mount (Optional)

1. Align and install the mount bracket on the back of the Touch Terminal. **(a)**
2. Secure the mount bracket to the Touch Terminal with the four screws. **(b)**
3. Drill four small holes on the mounting location and insert the plastic washers into the holes. **(c)**
4. Align by the screw holes and then install the wall bracket on the wall. **(d)**
5. Secure the wall bracket to the wall with the four supplied screws. **(e)**
6. Align and hook the Touch Terminal to the wall bracket, and then push down to secure it into place. **(f)**



Frequently Asked Questions (FAQ)

Question 1: How do I clear CMOS?

U-615

Answer: To clear CMOS, do the following:

1. Turn off the power and pull out the power cord.
2. Remove the battery from the **BAT1** connector about 15 seconds and then restore.
3. Switch on the power again. First trigger is pre-boot for CMOS backfill. Second trigger is normal booting.
4. Press **F2** to enter the CMOS setting and load the optimized defaults.
5. Save the changes and reboot the system.

