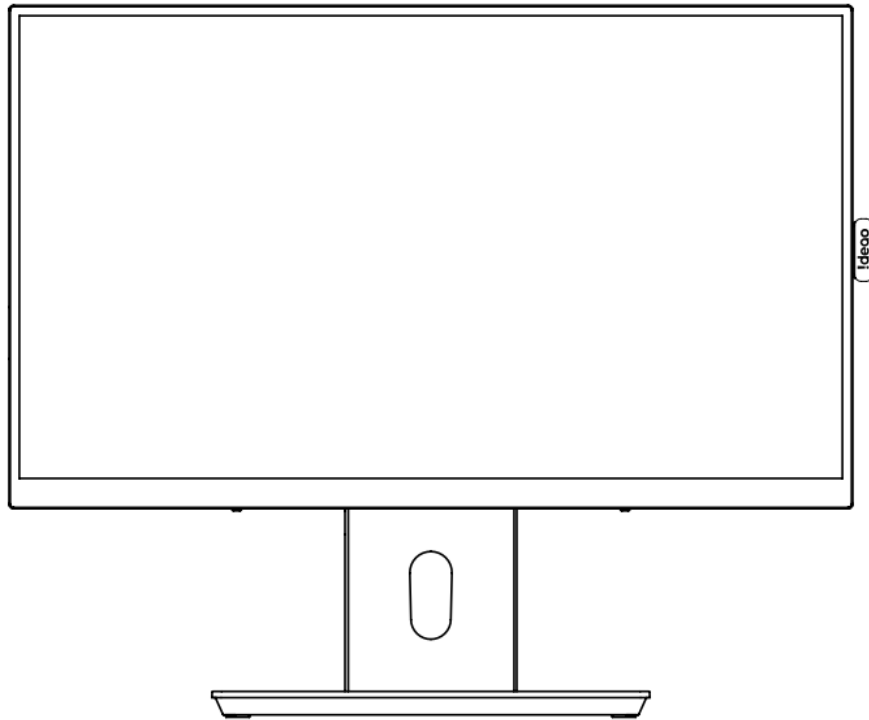**Manuals+** — User Manuals Simplified.

# Funtech innovation ideao-hub Interactive Touch Screen User Guide

**Contents**

Funtech innovation

**Funtech innovation ideao-hub Interactive Touch Screen**

Visit FTI webstie to download multi-language quick start guide **https://funtechinnovation.com/downloads/**

**Important Safety, Compliance and Warranty Information**
*Read Manual Before Product Use*

## POWER SUPPLY WARNING!

The power supply is for indoor use only. Only use the power supply included with your product. Do not attempt to repair or use a damaged power supply. Do not immerse the power supply in water or subject it to physical abuse. Inspect the power supply regularly for cable, plug, and casing damage.

## BATTERY WARNING!

Improperly replaced batteries may present a risk of leak or explosion and personal injury. Mistreated rechargeable batteries may present a risk of fire or chemical burn. Do not disassemble or expose to conducting materials, moisture, liquid, or heat above 54° C (130° F). Do not use or charge the battery if it appears to be leaking, discolored, deformed, or in any way abnormal. Do not leave your battery discharged or unused for extended periods. Do not short circuit. Your device may contain an internal, rechargeable battery that is not replaceable. Battery life varies with usage. Non-operational batteries should be discarded according to local laws. If no laws or regulations govern, dispose of your device in a waste bin for electronics. Keep batteries away from children.

**Safe Usage Guidelines for Products**

- Do not open or modify the product except for battery removal and replacement.
- Do not disassemble or attempt to service this product.
- This product is safe under normal and reasonably foreseeable misuse operating conditions.
- If product is operating improperly, contact the authorized reseller.
- Product must be returned to the authorized reseller for any service or repair.
- This is not a Children's Product and is not intended for use by children under 14 years old.

**FunTech Innovation Compliance.**

- For Product Safety, EMC, RF and Energy information, go to **www.funtechinnovation.com/compliance**
  Maintenance is not required for product compliance.
- This product complies with relevant legal requirements for Restriction of Hazardous Substances (RoHS) and management of waste electronic and electrical equipment (WEEE). For RoHS and WEEE information, go to **www.funtechinnovation.com/compliance**

## DISPOSAL

Batteries, electronic and electrical equipment should not be disposed of with household waste. Wherever possible, they should be segregated and brought to an appropriate collection point to enable recycling and avoid potential impacts on the environment and human health. For more information, contact your local authorities or place of purchase.

## FCC Statement

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,
2. this device must accept any interference received, including interference that may cause undesired operation.

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.

**Warning:** Where shielded interface cables or accessories have been provided with the product or specified additional components or accessories elsewhere defined to be used with the installation of the product, they must be used in order to ensure compliance with FCC. Changes or modifications to product not expressly approved by Fun Technology Innovation Inc, could void your right to use or operate your product by the FCC.

## IC statement:

CAN ICES003 (B) / NMB003 Class (B)
This device complies with Industry Canada license exempt RSS standard(s) Operation is subject to the following two conditions:

1. this device may not cause interference,
2. this device must accept any interference, including interference that may cause undesired operation of the device. Cordless (Radio Transmitter) products: Section A. RSS310 (27 MHz transmitters and receivers): This

Category II radio communication device complies with Industry Canada Standard RSS310. Section B. RSS210 (2.4 GHz transmitters or transceivers): This Category I radio communication device complies with RSS210 of Industry Canada.

## FunTech Innovation's Limited Hardware

### Product Warranty – A Summary

- FunTech Innovation warrants that its hardware product shall be free from defects in materials and workmanship for the length of time identified on your product package beginning from the date of original retail purchase. See for specific warranty information about your product and procedures to act on a warranty claim.
- FunTech Innovation's entire liability and your exclusive remedy for any breach of warranty shall be, at FunTech Innovation's option, to repair or replace a functional equivalent of the product, or to refund the price paid, it the hardware is returned to the point of purchase or such other place as FunTech Innovation may direct along with a receipt. Warranty protections are in addition to rights provided under local consumer laws and may vary among countries. See the full warranty information to know your consumer rights and the additional protections provided by this product warranty.

## Safety Instruction

For your safety, please read the following instruction before you use the product. Serious injury or property damage may be caused by improper operations. Do not try to repair the product on your own.

### WARNING

- Disconnect the product from power supply immediately if major failures occur. Major failures include the following:
    - Smoke, peculiar smell or abnormal sound is discharged from the product.
    - No image or sound is displayed, or the image error occurs.
- In the preceding scenarios, do not continue to use the product. Disconnect power supply immediately and contact professional staff for troubleshooting.
- Do not drop liquid, metal or anything combustible into the product.
    - If any liquid or metal is dropped into the product, power off the product and disconnect power supply, then contact professional staff for solutions.
    - Pay attention to children when they are close to the product.
- Put the product on a stable surface. An unstable surface includes and does not limited to an inclined plane, a shaky stand, desk or platform, which might cause turnover and damage.
- Do not open the cover or change the product on your own. High voltage components are installed in the product. When you open the cover, high voltage, electric shock, or other dangerous situations may occur. If inspection, adjustment, or maintenance is required, contact the local distributor for help.
- Use the specified power supply.
    - To prevent the product from being damaged, do not use any types of power cables other than the one provided with the product.
    - Use a three-wire socket and ensure that it is properly grounded.

- Pull out the power plug from the socket if the product is not used for a long period.
- Clean the dust and metal on the power plug regularly.
    - Fire or electric shock may be caused if the product is powered on, when you are cleaning.
    - Pull out the power plug before cleaning it with a dried cloth.
- Power output port is 5V/1A for USB Type-A 3.0 port, 5V/0.5A for USB Type-A 2.0, 5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/3.25A for USB Type-C.
- Do not put items on the top of the product.
    - Do not put items, such as a container for liquid (a vase, flowerpot, cosmetics or liquid medicine) on the top of the product.
    - If any water or liquid is spilled on the product, a short circuit may occur and cause fire or electric shock.
    - Do not walk on the product.
- Do not install the product in an improper place.
    - Do not install the product in humid places, such as the bathroom, the shower room, near windows, or outdoor environments that experience rain, snow or other harsh weather. Avoid installation near hot spring vapor. The preceding environments may cause faults in the product or electric shock under extreme conditions.
    - Do not put exposed fire source, such as an ignited candle, on the product.
- Pull out the power plug during thunderstorms.
    - Do not touch the product during a lighting storm to avoid electric shock.
    - Install or place components that supply high enough voltage to cause personal injury out of the reach of children.
- Do not touch the power cable with wet hands.
- Do not install the product in high temperature environments.
    - Do not install the product near a heat source, such as a radiator, a heat reservoir, a stove or other heating products.
    - Do not expose the product to direct sunlight, which may cause high temperatures and subsequent faults in the product.
- For transport.
    - Pack the product for transport or maintenance by using the cartons and cushioning material provided with the product.
    - Vertically move the product during transport. The screen or other components are easily broken if the product is moved by an improper way.
    - Before you move the product, disconnect all external connections and separate all toppling preventing products. Move the product carefully to prevent it from being hit or squeezed, especially the screen, which may cause injury if broken.
- Do not cover or block up any vents on the product.
    - Any overheated components may cause fire, damage the product, and shorten the service life.
    - Do not lay the product down where the venting surface will be covered.
    - Do not install the product on a carpet or cloth.
    - Do not use a cloth such as table cloth to cover the product.
- Keep away from the product when you use a radio.
- The product complies with the international EMI standard to pervent radio interference. However, interference may still exists and causes noise in the radio. If noise occurs in the radio, try the following solutions.

- Adjust the direction of the radio antenna to avoid the interference from the product.
- Keep the radio away from the product.
- Glass lens is broken or falls off.
  - In case of glass lens breakage, keep all personnel away from the hub to ensure safety.
  - Do not perform any installation or disassembly when the glass lens is broken or falls off.
- Use the battery correctly.
  - Galvanic corrosion, electric leakage, and even fire may be caused by improper battery usage.
  - It is recommended to use the designated type of battery and install the battery by correct electrodes (positive and negative).
  - Do not install and use new battery with a used one.
  - Do not expose the battery to overheated environments such as sunlight and firing.
  - Dispose of the used battery based on your local regulations.
- Do not damage the power cable.
  - Do not damage, change, twist, bend, or forcibly drag the power cable.
  - Do not put weights (such as the product itself) on the power cable.
  - Do not forcibly drag the cable when you pull out the power plug. If the power cable is damaged, please contact the local distributor to repair or replace it.
  - The power cable in the accessory box is for this product only. Do not use it on other products.
- Additional advice:
  - Use the product in an environment with comfortable lighting. It is harmful to your eyes to watch in a too bright or too dark environment.
  - Relax your eyes after a period of time for watching.
  - Keep sufficient distance from the product to protect your eyes and prevent eyestrain.
  - Adjust the volume to an appropriate level, especially at night.
  - Use amplifier equipment as the audio input source with caution. If you must use amplifier equipment, the input power should not exceed the maximum of speaker power. Otherwise, the speaker can become overpowered and damaged.
- About USB ports.
- A side USB 3.0 port and rear USB 2.0 ports switch connections based on signal sources. (USB Type C or other signal connection + USB Type B). Please do not change signal sources while the signal source is reading the data from the external source connected to the Hub's USB port. Otherwise, the data or the external memory may get damaged.

Ideao Hub is a versatile 24" QHD interactive touch monitor to revolutionize the way you collaborate. With a simply plug of a cable, you can easily transform your PC to a giant touch screen, take notes on your document with full Windows Ink compatibility, extend connectivity with 10 I/O ports, and enjoy the smoothest touch and write experience with Ideao Hub. Unleash your creativity!

**Package contents**
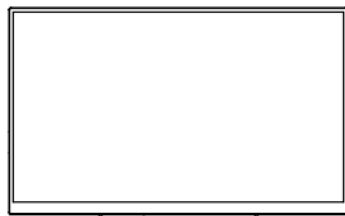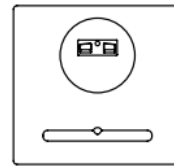
| | | |
|---|---|---|
| Monitor | Stand Neck | Stand Base |

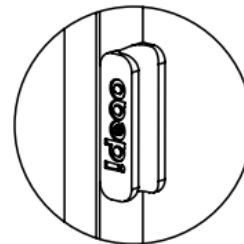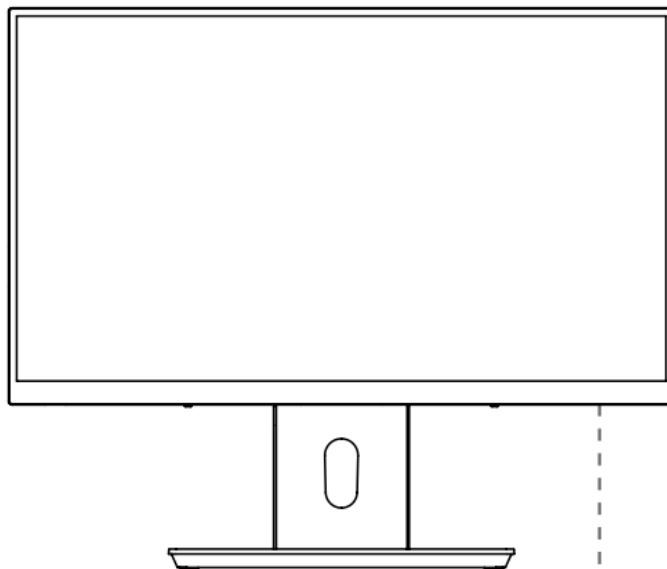| | | | |
|---|---|---|---|
| USB Cable (Type-C to Type-C) | USB Cable (USB 3.0 A to B) | Neck Screws x4 Screwdriver x1 | Pen Holder |

| | | |
|---|---|---|
| Power Cables | AC/DC Adapter | Quick Start Guide |
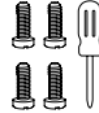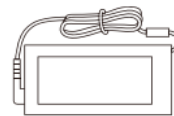
## Overview

**1** Pen Holder

**2** LED Indicator

**③** Speakers

**④** Power Button

**⑤** Kensington Security Slot™

**a**

**b**

**c**

**d**

**e**

**f**

**g**

**h**

**i**

**j**
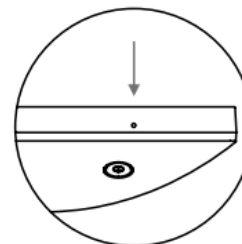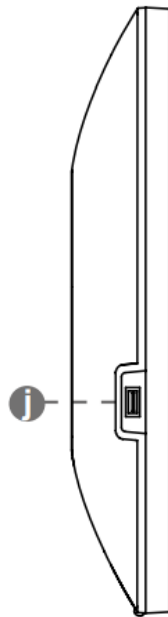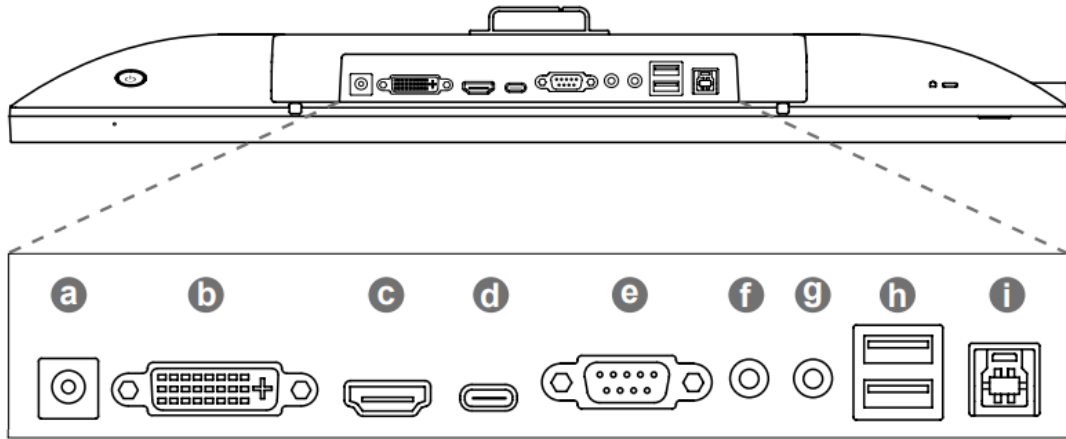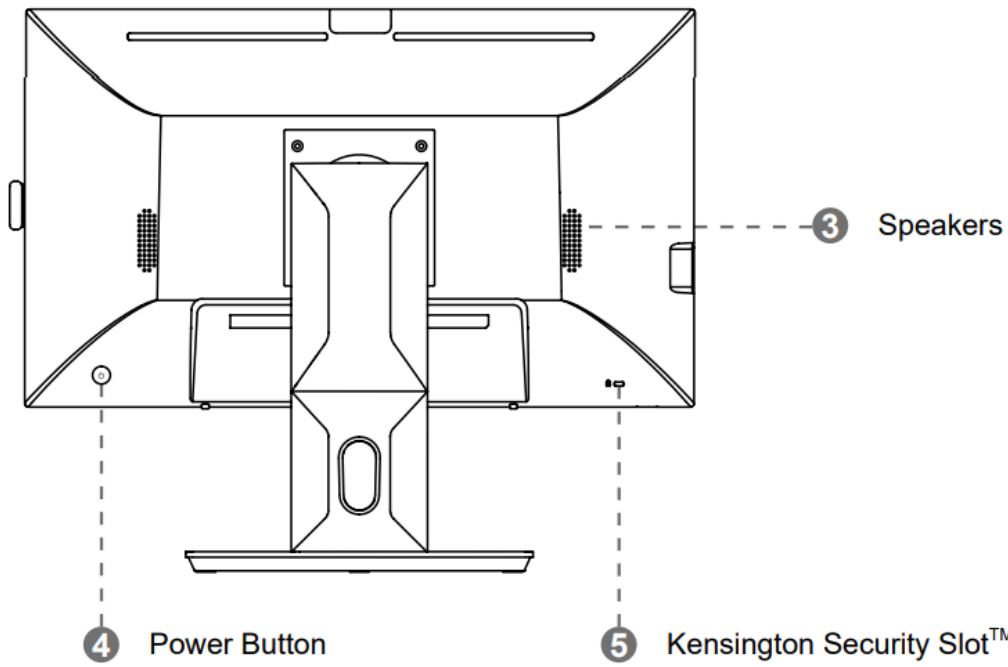
| | | |
|---|---|---|
| **a** | DC IN | Connects to the power adapter. |
| **b** | DVI-D | Connects to a source device using a DVI-D cable. |
| **c** | HDMI | Connects to a source device using a HDMI cable. |
| **d** | USB Type C | Connects to a source device using a USB Type-C cable for video, audio, touch, and power supply. |
| **e** | VGA (D-SUB) | Connects to a video source device using a VGA cable. |
| **f** | AUDIO IN | Connects to an audio input device, used with VGA device. |

| | | |
|---|---|---|
| g | AUDIO OUT | Connects to an audio output device such as headphones. |
| h | USB-A 2.0 | Connect to a USB device, such as memory drive, mouse, keyboard, and speakerphone. |
| i | USB-B | Connects to a PC to use the touch function. |
| j | USB-A 3.0 | Connect to a USB device, such as memory drive, mouse, keyboard, and speakerphone. |

## Installing the Stand

1.



⚠ Place the monitor on the foam to protect its surface.

Foam

⑦ Monitor          ⑧ VESA Mount 100X100mm

2.

**9** Stand Neck

Neck screws *4 (M4X10mm) **10**

M4 Philips screwdriver

Foam

3.

**11** Stand Base

**12** Base Screw

4.



(13) Pen holder

(14) Ideao Pen (Optional)
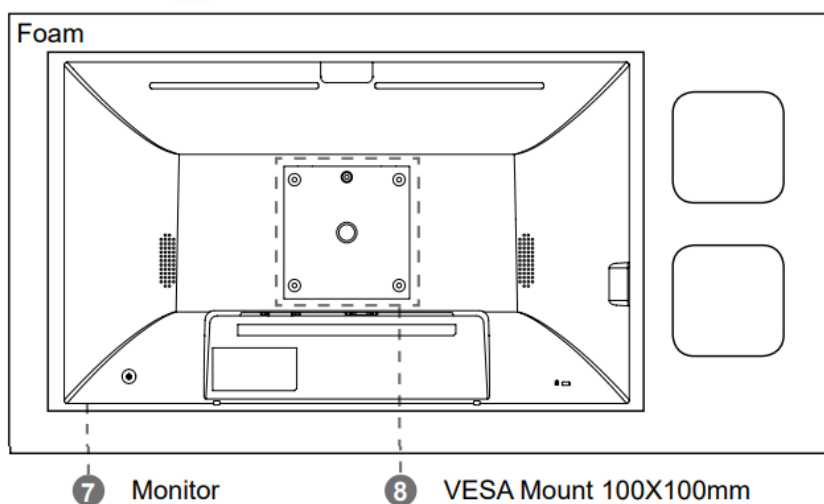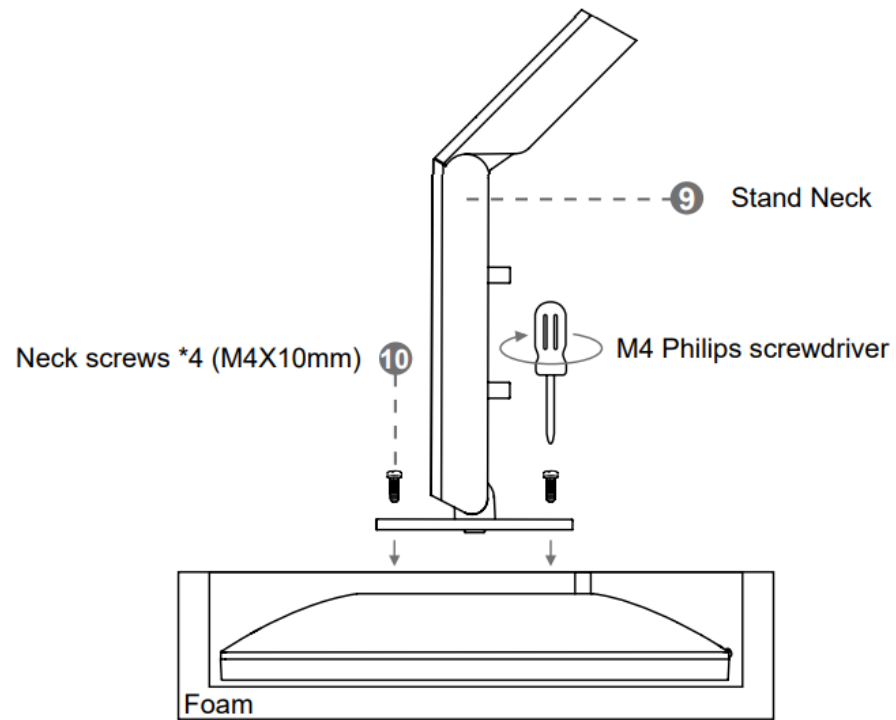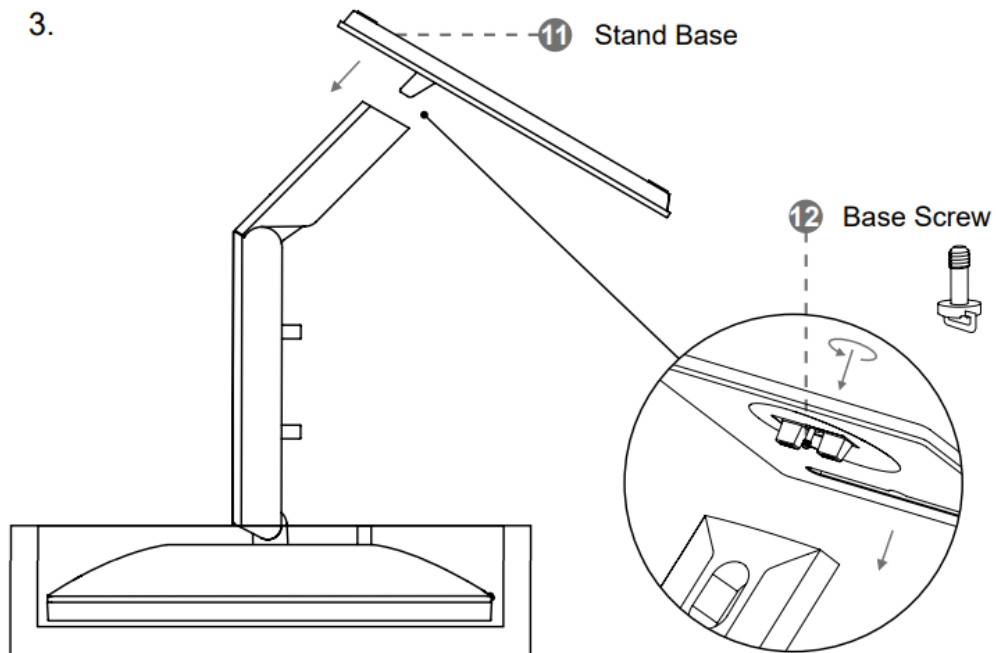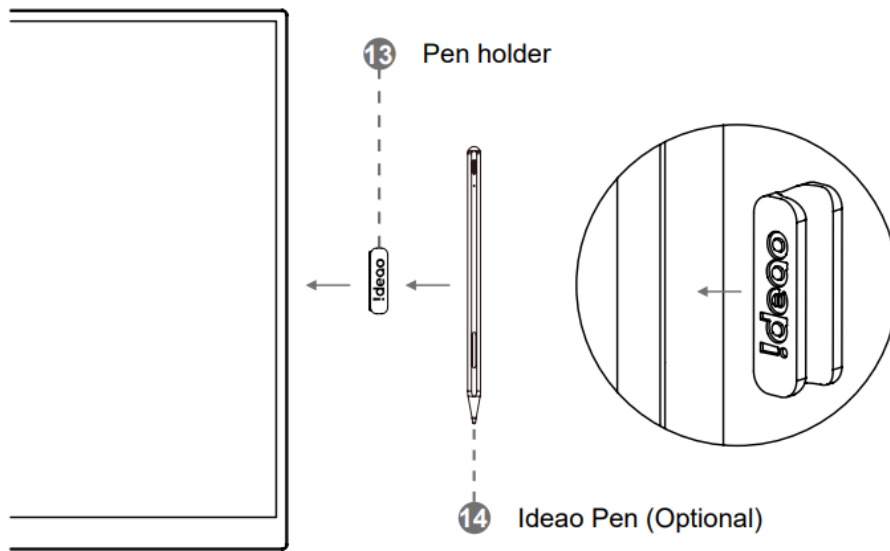
## Connecting the Ideao Hub

Plug the power supply into the power outlet fully and plug the power connector into the side of the product. Ensure the power is in the range of 100V to 240V with frequency at 50Hz/60Hz ± 5%.

- The power current must be grounded.
- Do not remove the ground prong / grounded contact.
- For Japanese version, only the Type B power code is included in the box. This power cord support up to 100V

  and can be used in Japan only. For other countries, please use the corresponding power cord.



Type F
Grounded contact

Type G
Ground prong

Type B
Ground prong

Type I
Grounded prong

Type M
Ground prong

Type O
Ground prong
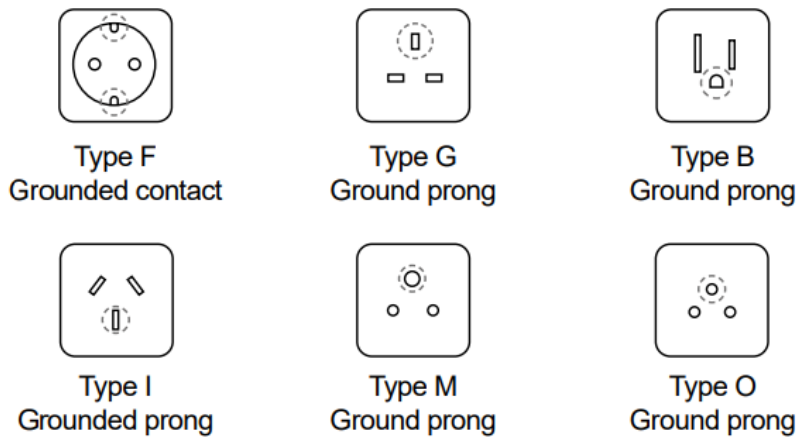
## Connecting to a PC or Laptop

Connect your PC or laptop to the Ideao Hub using a USB Type-C, HDMI/DVI, or VGA cable. Connecting ports may differ in different products.

**Connecting the devices using a USB Type-C cable**

1. USB Type-C port with video, audio touch and power (Alternate mode with DisplayPort 1.2, Power Delivery up

   to 65 W)
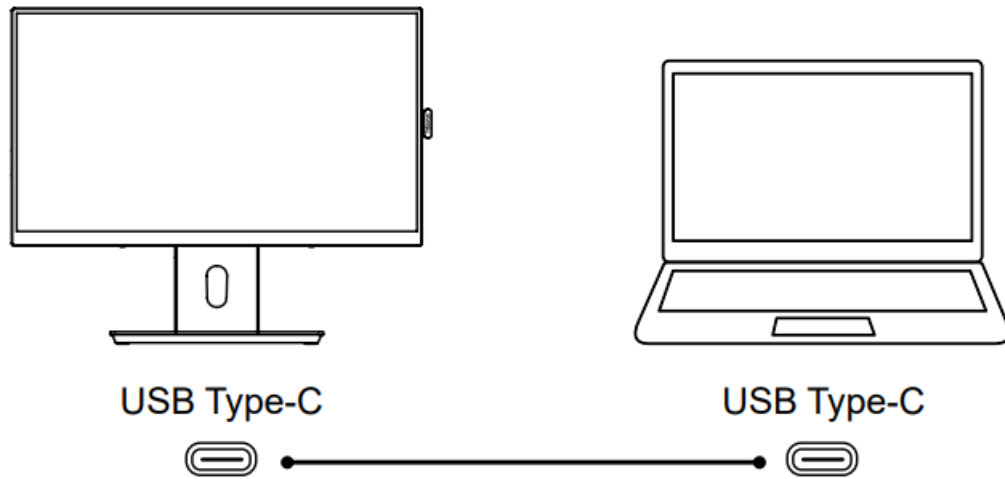
Please ensure your computer USB Type-C end supports DP Alt-mode, in order to display properly. For more information, please check table in P.18.

**Connecting the devices using a HDMI cable**

1. Connect your PC or Laptop to the Ideao Hub using a HDMI Cable.
2. To use the touch function, connect USB Type-B on the Ideao Hub to a USB-A port on the PC or laptop using the USB cable.
   *HDMI cable is not included in the package.
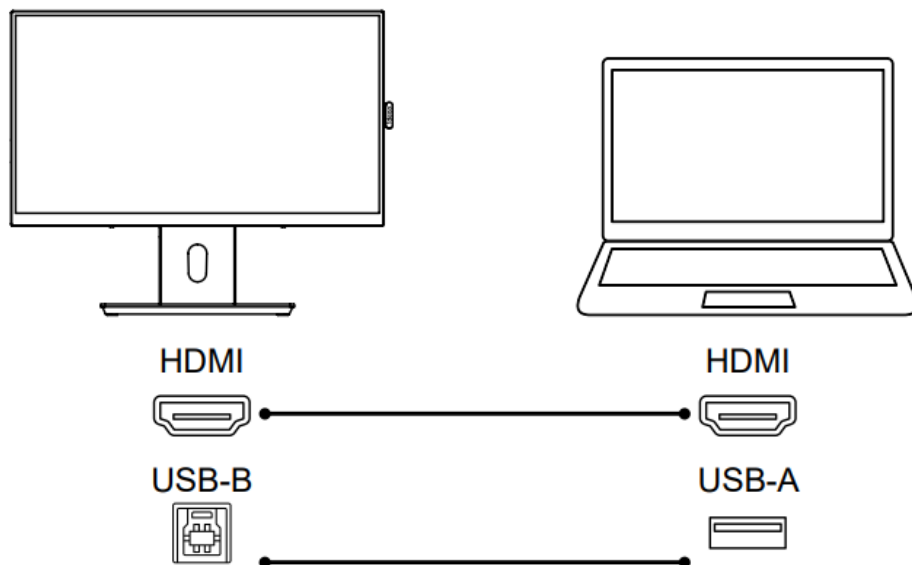


**Connecting the devices using a DVI or VGA cable**

1. Connect your PC or Laptop to the Ideao Hub using a DVI or VGA Cable for video source.
2. Connect Audio In on the Ideao Hub to an Audio Out on the PC or laptop using an audio cable for audio source.
3. To use the touch function, connect USB Type-B on the Ideao Hub to a USB-A port on the PC or laptop using the USB cable.
   *DVI, VGA, and Audio cables are not included in the package

DVI / VGA

DVI / VGA

USB-B

USB-A

Audio In

Audio Out
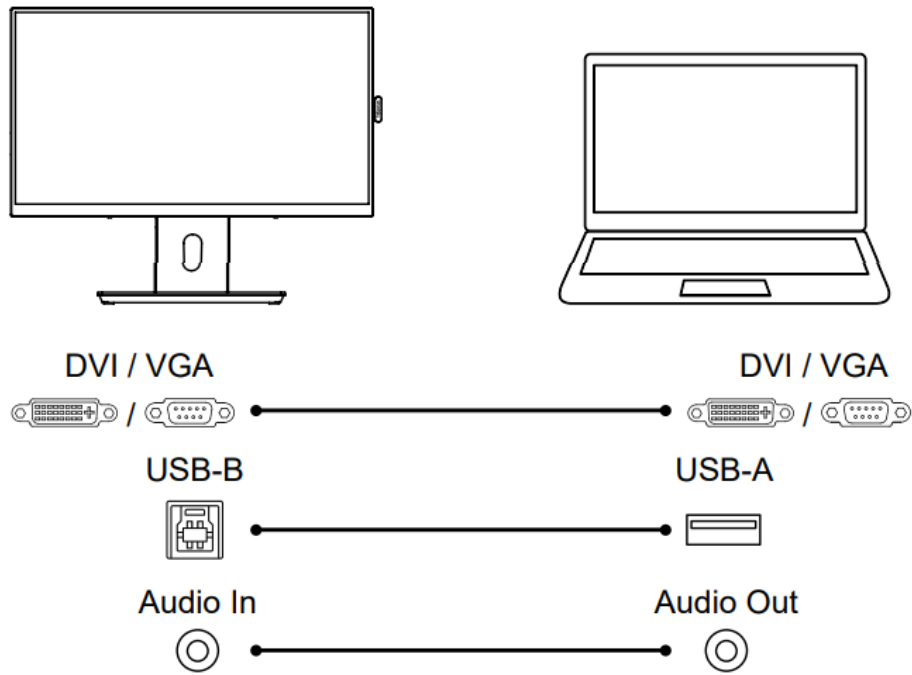
|  | Video Source | Audio Source | USB Signal for Touch Back | Power |
|---|---|---|---|---|
| USB Type-C | O | O | O | O |
| HDMI | O | O | X<br>Via USB-B | X |
| DVI / VGA | O | X<br>Via Audio Cable | X<br>Via USB-B | X |
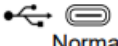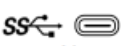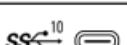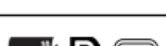
## Connecting to a Smartphone

**Connect your smartphone using a USB-C cable.**

- USB-C supports power supply.
- Available for Android smartphones that support USB Type-C DisplayPort Alt Mode.
- Touch back may vary depending on model.
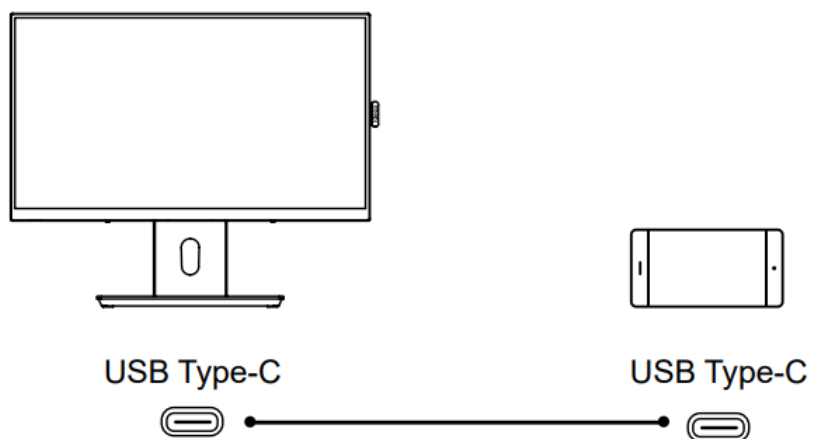
USB Type-C

USB Type-C

# USB Type-C specification table

| USB-C Connector | | Data Transfer | Display | Power |
|---|---|:---:|:---:|:---:|
| **USB 2.0**<br>480 Mbps | Normal | O | X | X |
| | PD Enabled | O | X | O |
| **USB 3.1 Gen 1**<br>5 Gbps | Normal | O | X | X |
| | PD Enabled | O | X | O |
| **USB 3.1 Gen 2**<br>10 Gbps | Normal | O | X | X |
| | PD Enabled | O | X | O |
| **DisplayPort**<br>5-10 Gbps | Normal | O | O | X |
| | PD Enabled | O | O | O |
| **Thunderbolt**<br>20-40 Gbps<br>PD Enabled<br>DisplayPort | | O | O | O |

# Adjusting the Stand

Swivel

## Lift & Tilt



-5°~60°

90°

## Height



0-133.7 mm

## Flip



90°
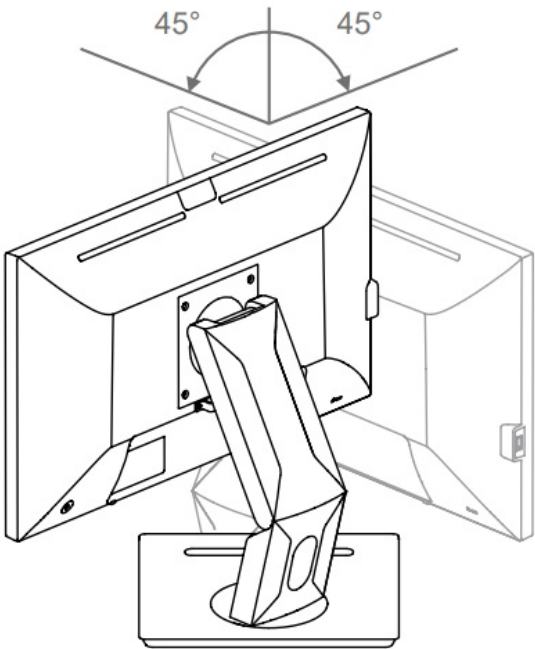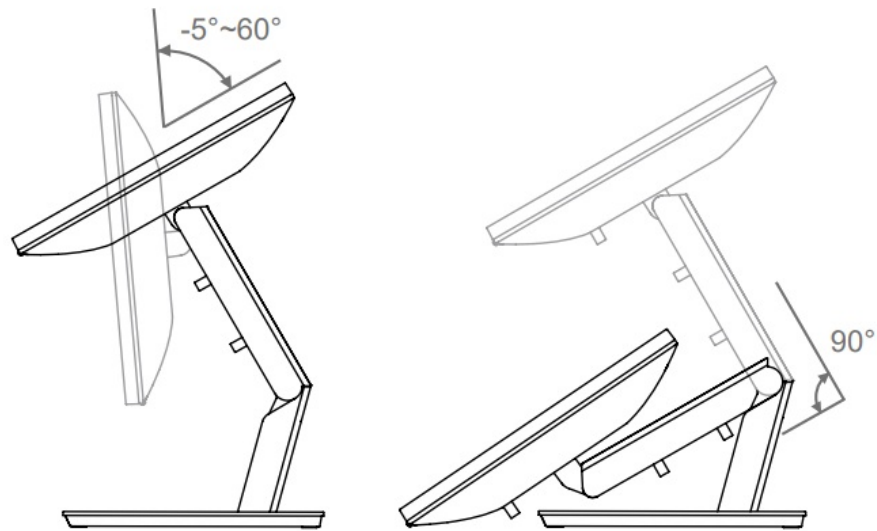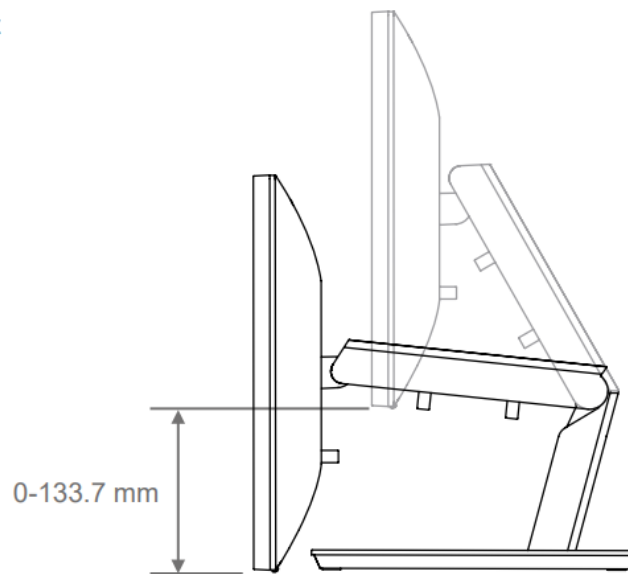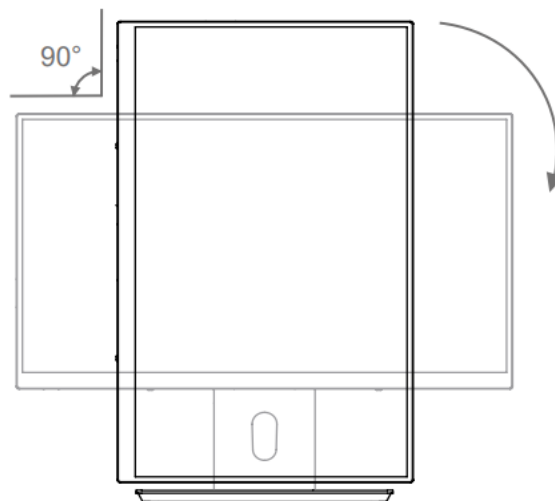
## Adjusting On-Screen Display (OSD)

Swipe down from the top right edge with two fingers to show OSD settings.

Signal source

HDMI
TYPE-C
DVI
VGA (D-SUB)

| | | | |
|---|---|---|---|
| **Brightness** | Standard | Game | Brightness |
| | Movie | Custom | Contrast |
| **Color Temp** | Warm | Natural | Red |
| | | | Green |
| | Cool | Custom | Blue |
| **Setting** | 4:3 mode | 16:9 mode | Volume |
| | HDR | Reset | Exit |

## Specifications

| Display | |
|---|---|
| Screen Size | 24″ |

| | |
|---|---|
| Resolution & Refresh Rate | 2560×1440 @ 60Hz, 75Hz (optional) 1920×1080 @ 60Hz, 75Hz<br><br>1680×1050 @ 60Hz<br><br>1600×900   @ 60Hz<br><br>1440×900   @ 60Hz<br><br>1366×768   @ 60Hz<br><br>1280×1024 @ 60Hz<br><br>1280×720   @ 60Hz<br><br>1024×768   @ 60Hz<br><br>800×600     @ 60Hz<br><br>640×480     @ 60Hz |
| Display Area | 527×296 mm |
| Dispaly Ratio | 16:9 |
| Brightness | Typ. 350 cd/m2 |
| Color Depth | 8-bit |
| Contrast Ration | 1000:1 |
| Response Time | Typ. 14ms |
| Refresh Rate | 75Hz |

| | |
|---|---|
| Panel Surface | Optical Bonding, 7H |
| Panel Type | E-Lite LCD, AHVA |
| Life Time | 30,000 Hrs |
| NTSC | Typ. 88% |
| Color Gamut | Wide Color Gamut |
| **Touch** | |
| Touch Technology | Projected-Capacitive Touch |
| Touch Type | Pen With Palm Rejection / Finger |
| Writing Tools | Active Pen (Supports MPP 2.0, 4096 Pressure Points) |
| Response Time | Touch Down < 35 ms; Panning Latency < 30 ms; Pen Down <35 ms |

| | |
|---|---|
| Multi-Touch Points Support | 10 points |
| HID Support (No Driver Required) | Yes |
| Touch Response time | 8 ms |
| Positioning Accuracy | ±1 mm |
| Communication Interface | USB-B, USB-C |
| **Speaker** | |
| Speaker Position | Backward |
| Speaker Max. Power Output | 2 x 3W |
| **Ports** | |

| | |
|---|---|
| Inputs | USB Type C x1( PD 65W supported) HDMI 2.0 x1<br><br>DVI x1<br><br>VGA (D-SUB) x1 USB-A 2.0 x2<br><br>USB-A 3.0 x1<br><br>Audio-In (Jack 3.5 mm) x1 DC-In x1 |
| Outputs | USB B 3.0 x1<br><br>Audio-Out (Jack 3.5 mm) x1 |
| **Power** | |
| Voltage Required | AC 100-240V (50/60 Hz)<br><br>*Japanese version is for 100V only |
| Consumption (Typical) | 28 W |
| Consumption (Max) | 35 W |
| Stand-by | 0.5 W |

| | |
|---|---|
| **Transportation/Storage** | |
| Storage Temperature | -10°C ~ +55°C |
| Working Tempature | 0°C ~ +40°C |
| Storage Humidity | 10% ~ 80% |
| Working Humidity | 20% ~ 80% |

| | |
|---|---|
| Stand | Tilt (Forward/Back) 5º / 60º Vertical Rotation: 90º Swivel: -45° / 45°<br><br>Height: 0 – 133.7 mm |
| VESA Mount | 100×100 mm |
| Dimension | 540 x 456 x 266 mm (with Stand)<br><br>540 x 322 x 56 mm (monitor only) |

| | |
|---|---|
| Package Size | 785 x 190 x 422 mm (with stand)<br><br>630 x 140 x 425 mm (monitor only) |
| Net Weight | 8.5 kg (with stand)<br><br>4.0 kg (monitor only) |
| **Others** | |
| Button | Power |
| Kensington Lock | Yes |
| Package Content | Ideao Hub Power Cable Adapter<br><br>USB-C 3.0 Cable (1M) USB-B to A 3.0 (1.5M)<br><br>Stand |

## Trouble Shooting

Please visit **funtechinnovation.com/faq/**

## Documents / Resources

| | |
|---|---|
|  | **Funtech innovation ideao-hub Interactive Touch Screen** [pdf] User Guide<br>ideao-hub, Interactive Touch Screen, ideao-hub Interactive Touch Screen, Touch Screen |

## References

- ◈ **FAQ - FunTech Innovation**
- ◈ **FunTech Innovation | Hybrid Working, Blended Learning, Webcam Solution**
- ◈ **Compliance - FunTech Innovation**
- ◈ **Support - FunTech Innovation**
- ◈ **FunTech Innovation | Hybrid Working, Blended Learning, Webcam Solution**
- ◈ **Downloads - FunTech Innovation**