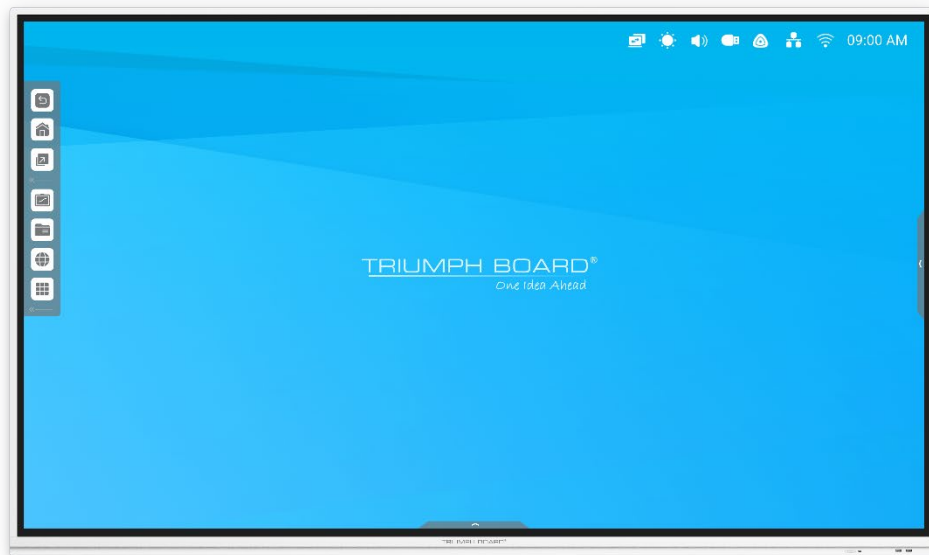


# User Manual

## INTERACTIVE FLAT PANEL PRO Series

65"/ 75"/ 86"



**2021**

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## 1. Product Description

### TRIUMPH BOARD INTERACTIVE FLAT PANEL PRO

TRIUMPH BOARD INTERACTIVE FLAT PANEL PRO is a fully integrated, professional, multi-touch UHD IFP with amazing performance and stunning display quality.

TRIUMPH BOARD INTERACTIVE FLAT PANEL PRO is an effective presentations tool for showing lessons, or presentations interactively in any classroom or meeting room. The latest IR LED optical technology allows 20 finger touch, with up to 20 users being able to write and draw using their fingers or a stylus.

## 2. Technical Specifications

### TRIUMPH BOARD 65" INTERACTIVE FLAT PANEL PRO

EAN:	8592580117206
Screen Type:	Open Cell DLED Backlight
Resolution:	3840 × 2160
Brightness:	400 cd/m2
Contrast:	1200:1 (4000:1 Dynamic)
Response time:	8 ms
Refresh Frequency:	60 Hz
Display Area:	1428.48 (H) x 803.52 (V) (56.22" H x 31.62" V)
Product Dimensions:	1488 x 896 x 86 mm (58.6" x 35.2" x 3.3")
Package Dimensions:	1656 x 1050 x 204 mm (65.2" x 41.3" x 8")
Net / Gross weight:	38 / 49 kg (83.7 / 108 lb.)

### TRIUMPH BOARD 75" INTERACTIVE FLAT PANEL PRO

EAN:	8592580118531
Screen Type:	Open Cell DLED Backlight
Resolution:	3840 × 2160
Brightness:	400 cd/m2
Contrast:	1200:1 (4000:1 Dynamic)
Response time:	8 ms
Refresh Frequency:	60 Hz
Display Area:	1649.66 (H) x 927.94 (V) mm (64.92" H x 36.5" V)
Product Dimensions:	1709 x 1019 x 86 mm (67.28" x 40.11" x 3.38")
Package Dimensions:	1860 x 1140 x 280 mm (73.22" x 44.88" x 11.0")
Net / Gross weight:	49.5 / 63.8 kg (109.1 / 140.6 lb.)

### TRIUMPH BOARD 86" INTERACTIVE FLAT PANEL PRO

EAN:	8592580118548
Screen Type:	Open Cell DLED Backlight
Resolution:	3840 × 2160
Brightness:	400 cd/m2
Contrast:	1200:1 (4000:1 Dynamic)
Response time:	8 ms
Refresh Frequency:	60 Hz
Display Area:	1895.04 (H) x 1065.96 (V) mm (74.6" H x 41.97")
Product Dimensions:	1957 x 1159 x 86 mm (77.04" x 45.6" x 3.3")
Package Dimensions:	2146 x 1308 x 280 mm (84.25" x 52.75" x 11.0")
Net / Gross weight:	64.5 / 82.8 kg (142.1 / 182.5 lb.)

## Touch System

Touch Input:	20 Touch Input (Windows support with driver)
Sensor type:	Infrared Transmission (multi-touch)
Response Time:	< 10 ms
Output Coordinates:	32768×32768
Communication Mode:	USB 2.0
Writing Screen:	Antibacterial Tempered glass (Mohs hardness 7)

## Inputs and Outputs

Mini PC:	1
HDMI IN:	3
USB type C	1
VGA:	1
AUDIO IN:	1
AUDIO OUT:	1
LAN:	2
SPDIF:	1
USB 2.0:	1
USB 3.0:	4
TOUCH USB:	2
RS 232:	1

## Sound System

Power Amplification:	2 x 16 W (2.0)
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## Power

Power Requirements:	100 – 240 V AC 50/60 Hz
Overall Power Consumption:	< 190 W / 232 W / 379 W
Standby Power Consumption:	< 0.5 W

\* Depends on the model.

## Ambient Conditions

Operation Temperature:	0°C ~ 40°C
Operation Humidity:	20% ~ 80% RH
Storage Temperature:	- 10°C ~ 60°C
Storage Humidity:	10% ~ 60% RH

## Android System

Version:	Android 9.0
CPU:	ARM A73x4
GPU:	Mali G52x2
RAM:	4 GB
ROM:	32 GB

### 3. Safety Warnings

Before using the device, please read the instructions carefully.

#### Placement

- Do not place the device on surfaces that are unstable, easy to tilt or which can fall.
- Do not place the device in places with direct sunlight, or near sources of heat, such as electric heaters or bright light sources.
- Do not use the device next to appliances that generate magnetic fields.
- Do not place the device in damp places or places where it might be exposed to moisture or liquids.
- Do not insert any items inside of the device.
- Do not place heavy objects on the device.

#### Power Supply

- Please verify compatibility between the voltage rating on back shell nameplate and the main power supply voltage rating.
- In case of thunderstorm and lightning weather, please unplug power cord and antenna plug.
- When no one is indoors or the device will not be in use for an extended period of time, please unplug the power cord.
- Please protect the power cord from physical or mechanical damage.
- Please use the original power cord, and do not modify or extend the power cord.
- Please check and make sure the AC power ground wire is connected.

#### Screen

- When writing on screen, please do not use hard or sharp objects.
- When the screen requires cleaning, please unplug the power cord first.
- Please use a soft, dust-free, dry cloth to wipe the screen.
- Do not use water or a spray cleaner to clean the device.
- Please contact the service center for internal cleaning of the device.
- Do not display image with high brightness on the screen for a long time.
- Please turn off the device after usage, it is not made for 24/7 use. Recommended screen time 16/7.

#### Range of Visibility

- The ideal distance between the eyes of viewer and the screen is 2 to 7 times of the screen diagonal.
- The best viewing angle between the eyes of viewer and screen is within 178 degrees up and down, left and right.

#### Temperature

- Do not place the device near an electric radiator or heating unit.
- When moving the device from a low temperature area to a high temperature area, before connecting the device to power, please leave the device idle in the new environment for some time to allow for temperature adjustment, to sufficiently diffuse internal condensation prior to powering on.
- The device's normal working temperature is 0~40°C, storage temperature is -10~60°C.

#### Humidity

- Do not expose the device to rain, moisture, or places near water.
- Please make sure the indoor environment is cool and dry, the device's normal working humidity is 20 - 80% RH, storage humidity is 10~60% RH.

### **Ventilation**

- Please place the device in ventilated places and ensure the device's good heat dissipation.
- Please ensure ventilation gaps of 10 cm (4 inches) on the sides and back, and 30 cm (12 inches) on the top of the device.

### **Headphones**

- Extended use of headphones at high volumes may damage hearing. If external headphones/earbuds are needed, please turn down the device volume in advance.

### **Power button**

- If you hold the power button on the front of the device for 1s, this will not completely shut off the device, but only place the device in standby mode. For complete shutdown it is necessary to press and hold the power button for 3s.
- If the control diode flashes, do not switch off the IFP with the power switch or do not unplug the device from the socket. As a result, your equipment may not power on and repair by a service technician may be required. The device can be turned off using the main switch and unplugged from the socket when the light is still red.

### **Battery**

- Please dispose of used batteries properly, and recycle.
- To avoid danger, please do not let children touch the battery, and avoid contact with water.

### **Caution**

- This device may cause radio interference in the living environment. In this case, the user may be required to take practical measures to mitigate the effects.

### **Notes on Cleaning**

- There are vents on back cover, please do not use any liquid on or spray this area directly during cleaning.
- It is recommended to use TRIUMPH Cleaning Pads for cleaning the screen (see page 21)

### **Power Switch Status Indicators**

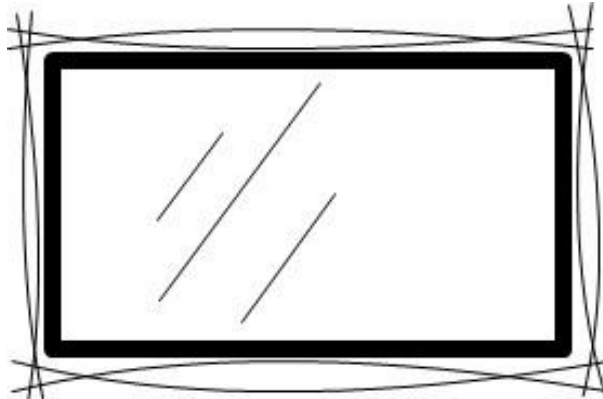
- "I" means power on, "O" means power off.

### **Notes on Maintenance**

- This device can only be serviced by a certified engineer.

## 4. Preparing for Installation

### Unpacking



### Accessories

Quick Start Guide, 2x styluses, remote control, Wi-Fi Module, power cables (UK, US, EU), touch USB cable



Quick Start Guide



2x Stylus



Remote control



Power cable (US, UK, EU)



Touch USB Cable



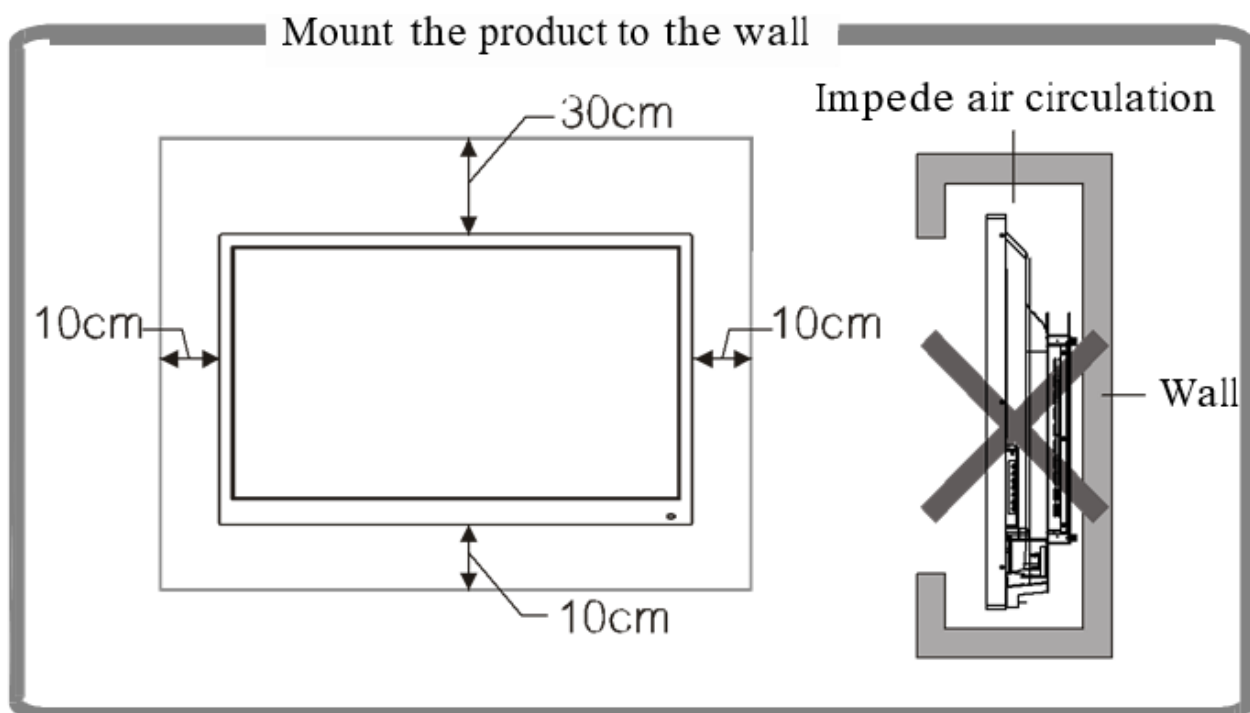
HDMI Cable

## Installation of Wall Mount

### Precautions

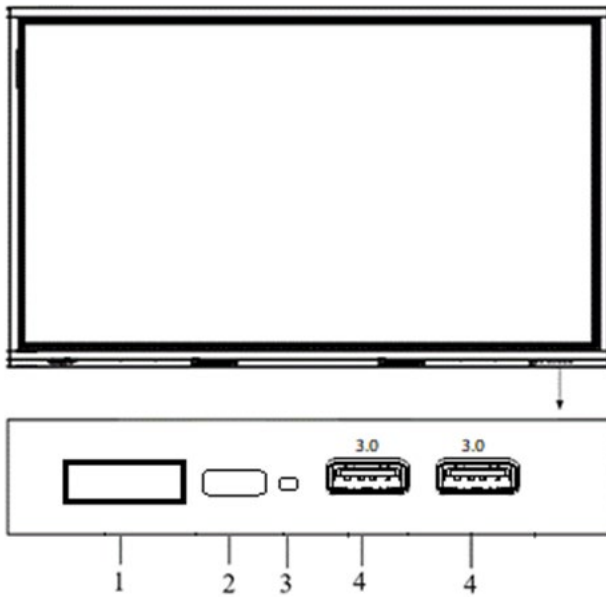
- For installation of the wall-mount bracket, at least two professional workers are needed; you should not attempt to install it alone, as this may result in injury.
- During installation, assistance from professional workers is needed to designate the installation, and measurements should be taken to make sure the wall can bear a certain amount of external force. Make sure, the wall mount is installed on a wall or other surface which can provide strong support.
- This device should be installed on a vertical plane, not on an oblique plane; also, it should not be installed in a horizontal position; otherwise, damage of the device or personal injury may be caused.
- To avoid damage of the device or injury, keep the wall mount out of the reach of children.
- Tighten the screws during installation to avoid device damage and injury.
- The installation is shown in the figure below; ventilation space should be maintained around the device.

**! Wall Mount is included in the package with the device.**

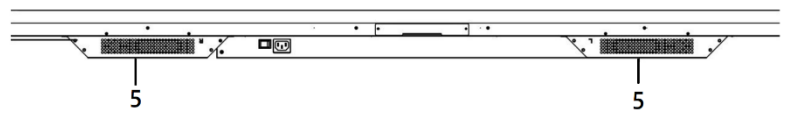




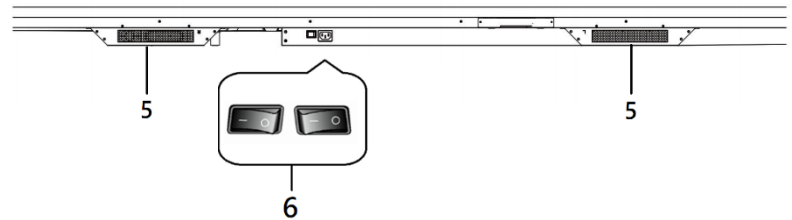
## Control Panel



(1)65inch/75inch



(2)86inch



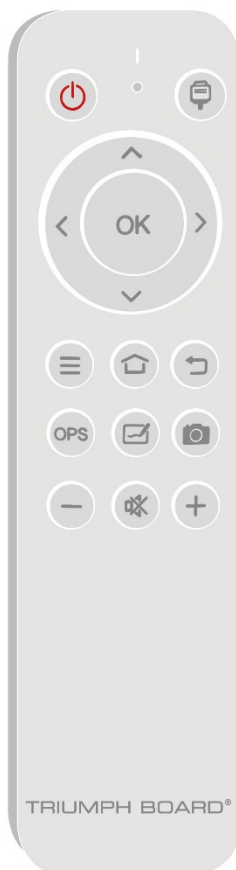
Item	Description of Function
<b>1. Power</b>	Turns Interactive Flat Panel ON/OFF, <ul style="list-style-type: none"> <li>- Tap to enter energy saving mode</li> <li>- Press for at least 2 seconds to enter standby mode</li> </ul>
<b>2. Signal Receiver</b>	Remote control signal receiver
<b>3. Light Sensor</b>	Automatically identifies the brightness based on ambient light
<b>4. USB 3.0</b>	Connect USB devices such as portable hard drives, USB drives, USB keyboard and mouse, etc.  Port serves as both a USB Android media port and a USB OPS port, it is automatically switchable with the signal source.
<b>5. Speakers</b>	Bottom speakers 2x16W
<b>6. Switch</b>	Main power switch for IFP for connecting to power source












## 5. Remote Control

### Precautions:

- Aim the remote control at the remote receiver when using the remote control. Any object placed between the remote control and the remote receiver may interfere with operation.
- Protect the remote control from vibration. Do not expose the remote control to direct sunlight, as heat may deform it.
- When the remote receiver is subject to direct sunlight or strong light, the remote control may malfunction. In such case, please change the angle of lighting, reposition the device, or operate the remote control closer to the remote receiver.
- Replace the batteries in case of low battery as low battery power will reduce the range of the remote control. If the remote control is to be left unused for a long period of time or the batteries are depleted, please remove the batteries as battery leakage may damage the remote control.
- Do not use batteries of different types or mix a new battery with a used one. Always replace batteries in pairs.
- Do not throw the batteries into a fire or recharge or disassemble the batteries. Do not recharge, short-circuit, disassemble/assemble, heat or burn any used batteries. Please dispose of waste batteries according to applicable environmental regulations. Do not expose batteries to any hot environment, like direct sunlight or fire.

### Remote control button instructions:

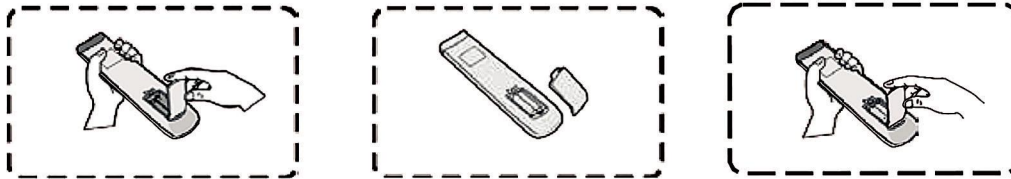


Button	Description
<b>Power</b> 	Switch between power on and power (off)
<b>Source</b> 	Open/close the signal source list
<b>Navigation keys</b> 	Select or adjust menu options
<b>OK</b>	Confirm the operation
<b>Menu</b> 	Show/Hide the main menu
<b>Home</b> 	Display the Android homepage
<b>Back</b> 	Return to the previous interface
<b>OPS</b>	Switch to OPS source
<b>Annotation</b> 	Switch to annotation application
<b>Screenshot</b> 	Take a screenshot
<b>Vol -</b> 	Decrease the volume
<b>MUTE</b> 	Enable/Disable sound
<b>Vol +</b> 	Increase the volume

## Remote Control Use Instructions

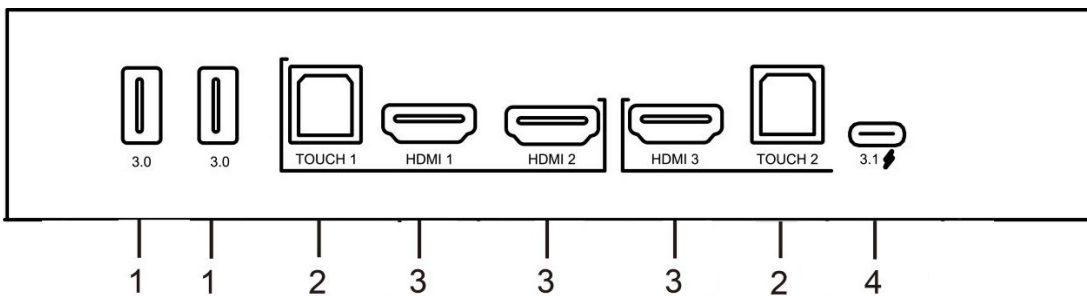
### Install Batteries

- 1) Open back cover of battery compartment on the back of remote control.
- 2) Install AAA type batteries according to the corresponding electrode, make sure the battery positive and negative poles are correctly placed ("+" to "+", "-" to "-"), please do not mix old and new batteries.
- 3) After batteries are installed, close the back cover of battery compartment, and snap the clip fastener shut against the bottom of the remote.

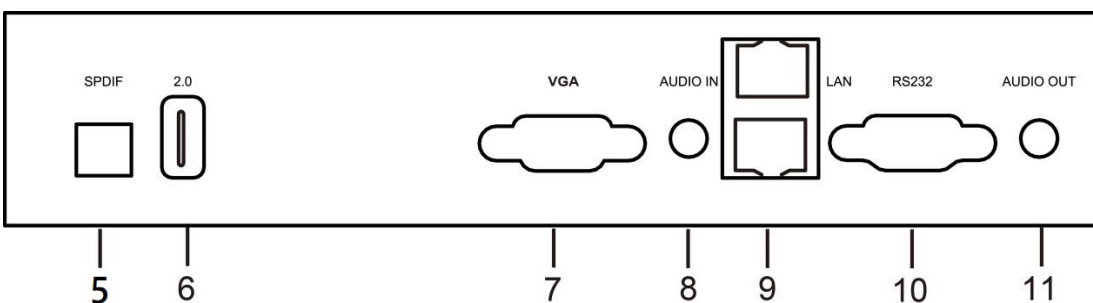


## 6. IFP Interface Inputs, Outputs

Left side of IFP interface:



Bottom Left side of IFP interface:



Ports	Description of Function
<b>1. USB 3.0</b>	Connect USB devices such as portable hard drives, USB drives, USB keyboard and mouse, etc.
<b>2. TOUCH USB</b>	External computer touch signal input. Default touch function is available under optional built-in OPS PC. When connecting an external computer, in addition to connecting external computer VGA and audio signals, the external computer's USB port needs to be connected to the equipment. Under the condition that driver is installed, the external computer can be touch controlled through the equipment (touch function is effective in PC, VGA and HDMI channel by default).

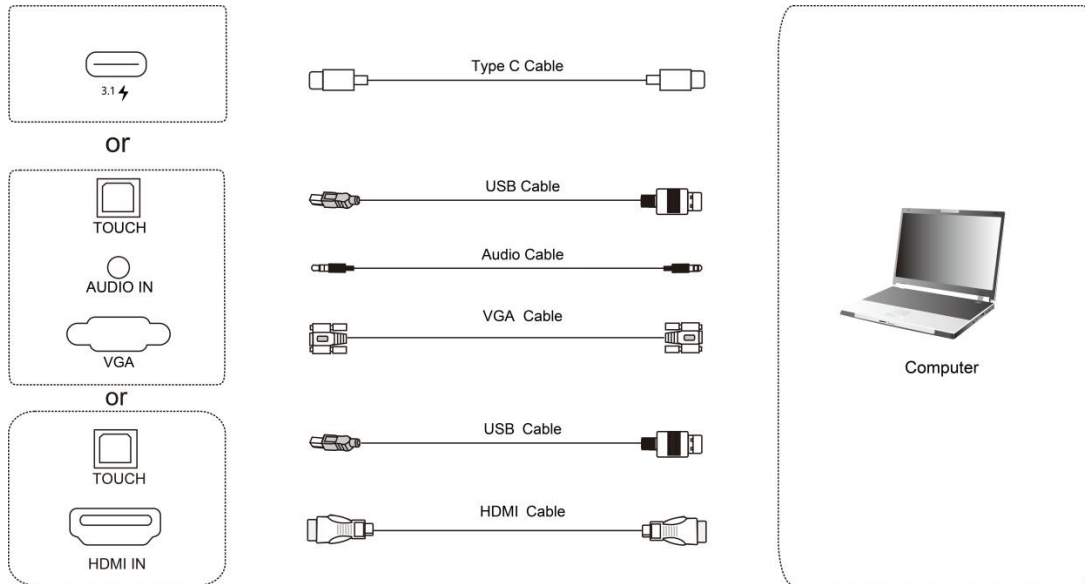
<b>3. HDMI</b>	For connection to display devices with HDMI output function. Maximum resolution supported by HDMI port is 4K@60HZ.
<b>4. USB 3.1</b>	USB Type C supports 65 W charging, reverse touch control, data transmission, extension for audio and video output interface. (Please charge those external devices with the same or lower rated charging power with the port. Do not attempt to charge laptops that require higher charging power than the rated power of the USB Type C port
<b>5. SPDIF</b>	SPDIF Out – digital optical audio output. This port can output the device's audio signals to external speakers with a SPDIF-IN port.
<b>6. USB 2.0</b>	Connect USB devices such as portable hard drives, USB drives, USB keyboard and mouse, etc.
<b>7. VGA</b>	Input for video signal formats supported by the VGA port.
<b>8. AUDIO IN</b>	External computer audio input.
<b>9. LAN</b>	LAN interface for connecting RJ45 terminals.
<b>10. RS 232</b>	Serial interface, used for mutual transfer of data between devices.
<b>11. AV OUT</b>	Composite video output.

## 7. Connection and Set Up


### CAUTION

For your own safety and the safety of the device, please do not connect any power cord before the external device has been prepared.

### External Computer and Touch Connection



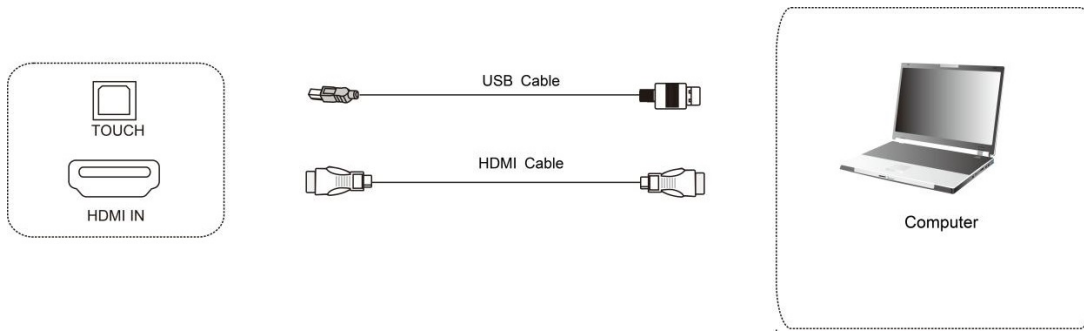
Connecting of VGA cable and USB touch cable:


1. Use VGA line to connect to VGA output port of external computer, and meanwhile use headphone audio line to connect to external computer audio output interface.
2. Use a USB cable to connect to the external computer USB port.
3. After connection is completed, plug in power cord, and switch POWER to ON.
4. Start external computer.
5. Press key , and the equipment is powered on.
6. Press the INPUT key to switch to VGA channel.

### NOTE:

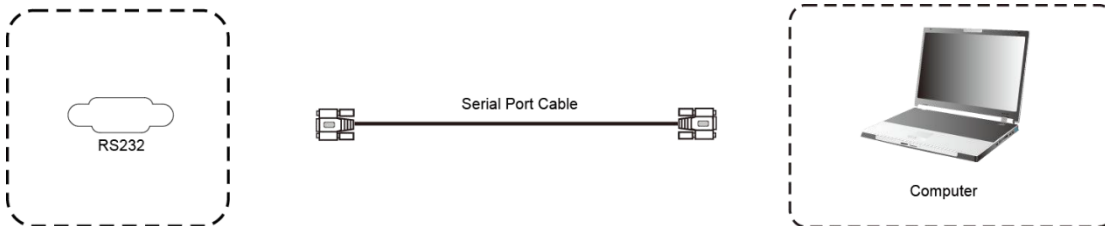
For external computer output, the device's best resolution is 3240x2160. The VGA standard does not support this resolution. If you want to display data in a resolution higher than FULL HD like 4K, then we recommend using a connection between the external computer and device via HDMI/Display Port cable.

## Connecting of HDMI cable and USB touch cable:



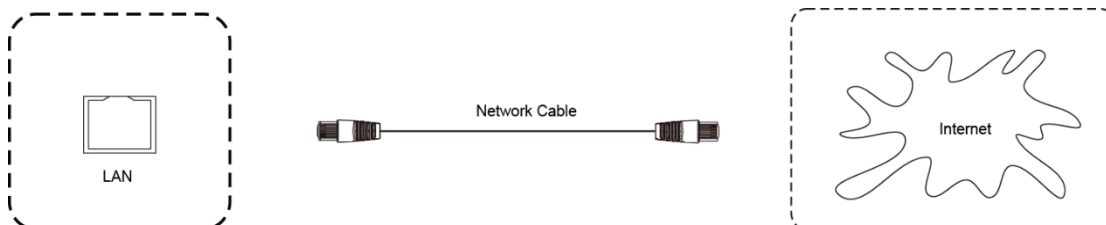
1. Use HDMI line to connect to HDMI output port of external computer
2. Use a USB cable to connect to the external computer USB port.
3. After connection is completed, plug in power cord, and switch POWER to ON.
4. Start external computer.
5. Press key , and the equipment is powered on.
6. Press the INPUT key to switch to HDMI channel.

## RS232 Serial Port Connection

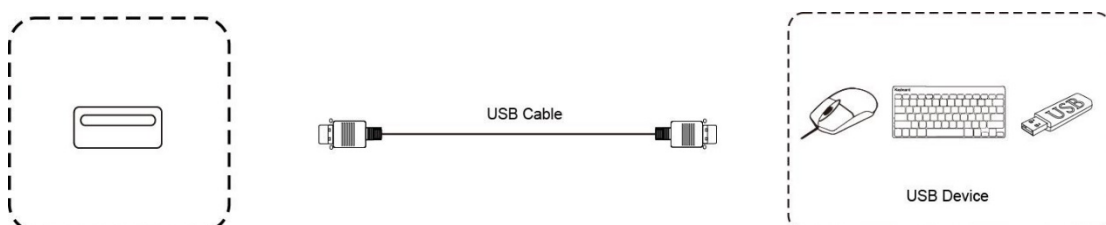


After using the serial port line to connect central control equipment and the device, certain functions of the device can be controlled via the central control device, such as: device ON/OFF, and adjustment of sound volume, etc. RS232 codes are available on our support webpage: <https://www.triumphboard.com/support/>.

## LAN Connection



## USB Connection

















## 8. Android System

### Call up Control Menu.

There are 3 arrows on the screen that are used to call Control Menu. One is on the left side, one is on the right side, one is on the bottom. Touch the arrow to call Control Menu. Control Menu will disappear after 5 seconds of inactivity.



### Control Menu

	Home (Return to Android Home Page)		Crop (Crop screen & screenshot)
	Switcher (Switch through open apps and Inputs)		Timer
	All Apps (All installed apps)		Spotlight
	Note (Annotation)		Mark (Annotation on glass)
	Browser		Stopwatch
	Record (Recording of the screen)		Freeze
	AirClass (Online Voting system)		Screen Lock

### Disappearing of Control menu

Press on arrows between the sections or wait 5 seconds.

## 9. Basic Operations

### Start-up / shutdown

Use 100-240V AC as the power supply.

The Power button on the front panel and the remote control can be used to switch between power ON and OFF state.

### Auto standby shutdown

In the Android main interface, whether there is signal input or not, the device will not auto shutdown.

In the non-Android main interface, if there is no signal input within 5 min, the device will automatically shut off.

### Upgrade Android firmware

For OTA online upgrade please connect device to internet either via Wi-Fi or LAN cable. Afterwards go to Settings – System– System Update - Check Update. If there is new update available, you will be asked to upgrade the device. Follow the instructions on screen to install the newest Android firmware. **Please make sure you always have the newest Android firmware installed.**

### Settings save before shutdown

Before shutdown, the device will save the display and sound settings. Upon restart, these settings will be used.

### Source Switching

You can use the remote control or Input Settings icon  to switch the source by the following methods:

Method one: press the “Signal Source” key on the remote controller to call “Signal Source Menu”, press the cursor key on the remote control to select a signal source, press the “OK” key, the device will switch to the selected input signal source.

Method two: Press the Input Settings icon on top right corner. Input settings will pop up, select signal source, the device will switch to the selected input signal source.

### Display Settings

Start Common Settings > click on three dots > Display, to adjust display frame back light, color temperature, aspect ratio, image mode, saturation and so on. (adjustable only on non-Android input).

### Audio Settings

Start Common Settings > click on three dots > Sound, to adjust volume, bass, treble, sound output device and so on.

### Change Password

Select Settings > System > Lock Screen Password. Set desired 4-digit password. Password can be changed after entering initial password in password settings.

If the password is forgotten, please contact after-sale personnel (see page 25) on how to reset the password.



### Keyboard and input method

Settings > Language & Keyboard > Keyboard & Inputs, the system is provided with an “Android Keyboard”.

### Language selection

Settings > Language & Keyboard > Languages and select the desired language.

### Select System Time

Settings > System > Date & Time. The system will automatically synchronize the time from the network; in case the device is not connected to network, date and time must be set manually.

### Screenshot

Press the “Screenshot” key on the remote control or open crop widget (in the Control Menu) to take a screenshot. The screenshot picture is stored in the “\Notes\Mark” folder in the local file management.

### To adjust backlight

Press on the backlight icon on the home screen – drag into desirable value

### To adjust volume

Press on the volume icon on the home screen – drag into desirable value

## 10. Network Settings

### Wireless Network

1. System Settings > Wireless & Network > WLAN
2. Turn on Wi-Fi switch
3. Select the network to be connected from Network List, enter the connecting password and press connect.
4. If there is no desired network in Network List, manually add a network.

This Wi-Fi Built-in Adapter is intended only for use in the Android mode.

### Ethernet

There are two LAN network ports on this device, LAN 1 can be used to connect to a wired network. When one network port is connected to a router, the other port can be connected to an external device. The device’s Android system, OPS (Windows system only) and the external device form a LAN, which can be connected to the network simultaneously.

1. Connect the one end of the network cable to the network port of this device before using wired network, and then connect the other end to a router.
2. Select System Settings > Wireless & Network > Ethernet
3. Turn on connecting switch
4. Select “DHCP” in IP settings, IFP will automatically obtain an IP address and connect to network.
5. Select “Static” in IP settings, manually input IP address, gateway, network prefix length, DSN address, and then click “Save” to connect to network.

## Wireless Hotspot

Wireless hotspot works only when following conditions are met:

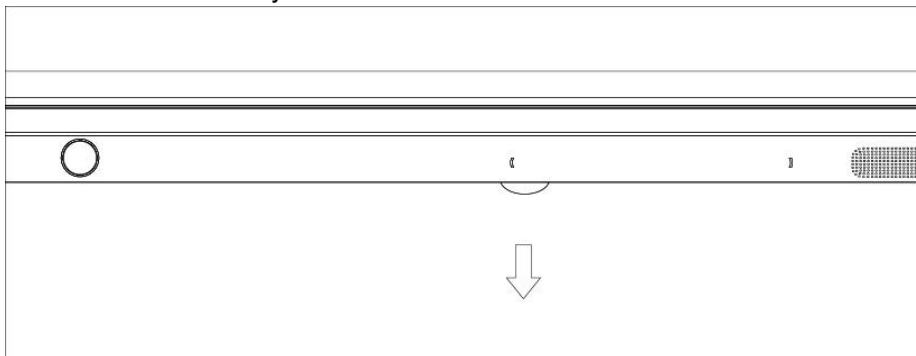
- Built-in Wi-Fi is connected to IFP.
1. Select System Settings > Wireless & Network > Hotspot
  2. Turn on hotspot feature (activation may take a few seconds)
  3. Enter the hotspot name in the textbox. The default name is “AndroidAP\_7817”, which is customizable.
  4. Enter the hotspot password in the textbox. The default password is 12345678. Password is customizable.

## 11. Wi-Fi Module

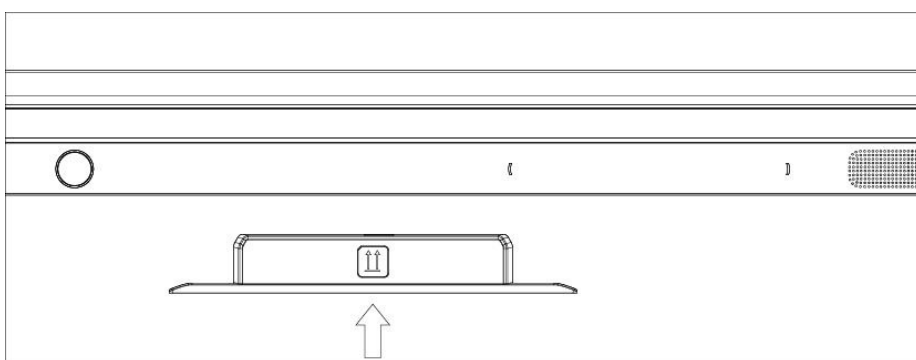
### Installation Procedure

Warning: Please make sure the power cord of the Interactive Flat Panel (IFP) is disconnected before installation.

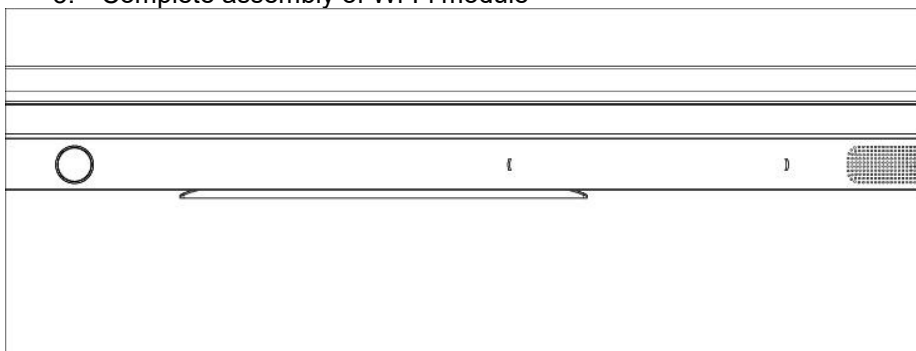
1. Take off the Mylar



2. Insert the Wi-Fi module fully into the IFP along the direction of the arrow



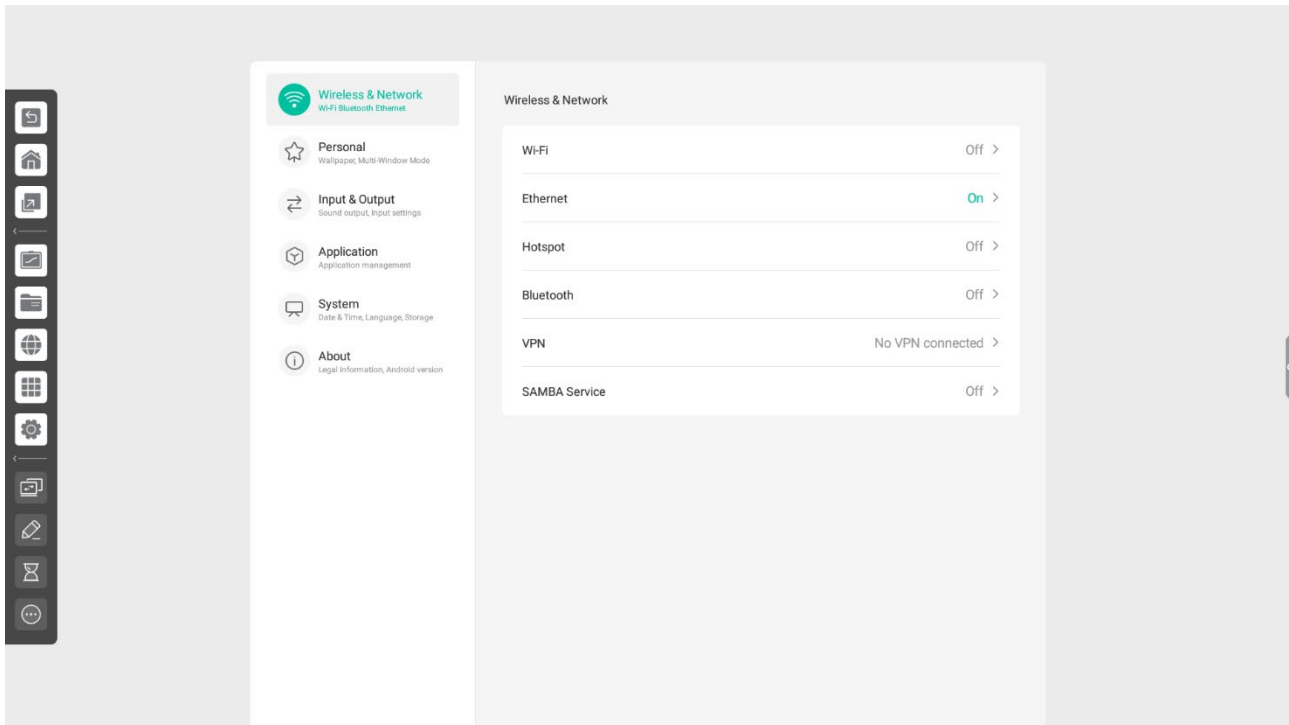
3. Complete assembly of Wi-Fi module



**Note:** This Wi-Fi module only works for the IFP by plugging it into the above slot.

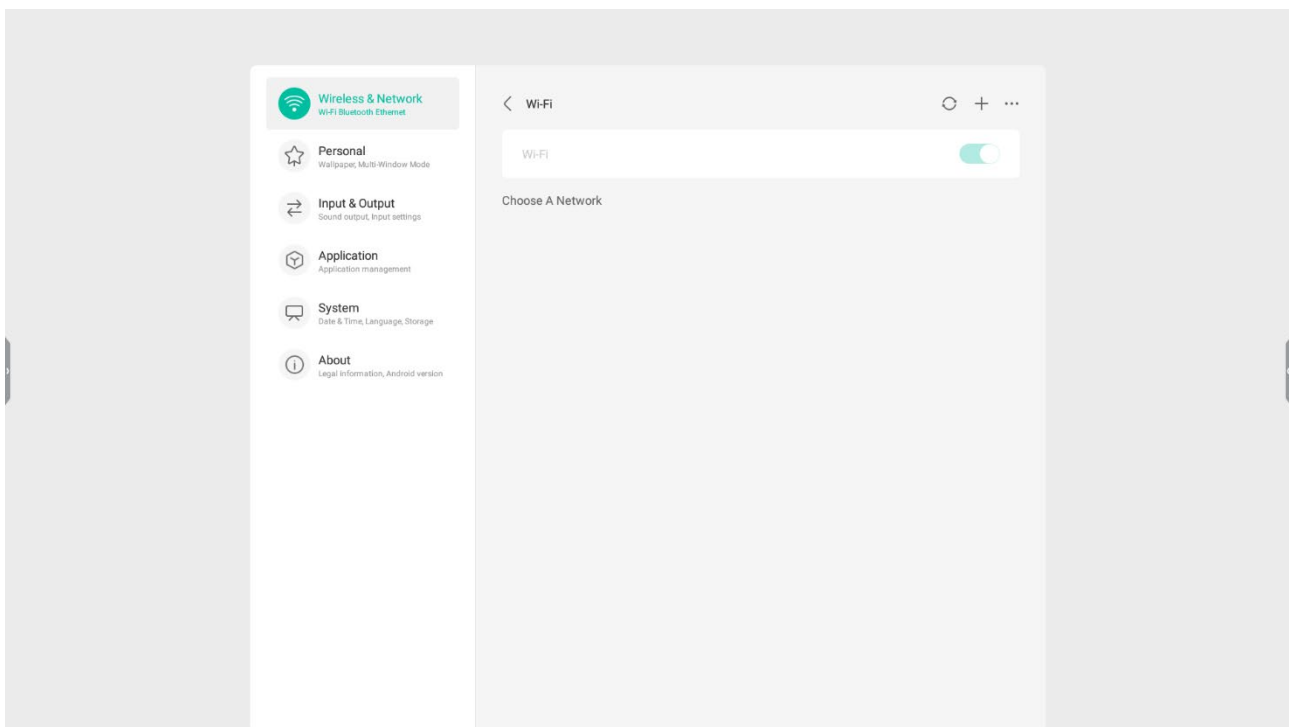
## Function

After completing the installation, turn on the IFP, and the Wi-Fi module will run automatically. Click "Settings" on the screen, you can see the following interface.



Click "Wi-Fi", enter the following Wi-Fi setting interface.

Click the icon "🔌", you can turn on/off the Wi-Fi function.



## 12. Troubleshooting

### IFP fails to work normally

Remote control failure	<ol style="list-style-type: none"> <li>1. Check whether there are other objects between remote control and television remote control receiving window, blocking signal transmission and thus, leading to failure of remote control.</li> <li>2. Check whether the battery terminal in the remote control is correctly connected.</li> <li>3. Check whether remote control needs battery replacement.</li> </ol>
Device automatically shuts down	<ol style="list-style-type: none"> <li>1. Check whether the No Signal Auto Shutdown is set or not.</li> <li>2. Check whether there has been a sudden power outage.</li> <li>3. Check whether there is no automatic shutdown.</li> </ol>

### PC module

Signal out of range	<ol style="list-style-type: none"> <li>1. Check whether display is set correctly.</li> <li>2. Check whether resolution is the best resolution.</li> <li>3. Adjust line and field synchronization in menu.</li> </ol>
Image lack of color, color is incorrect	<ol style="list-style-type: none"> <li>1. Check whether video cable is possibly not securely connected or has a quality problem.</li> <li>2. Adjust color and brightness or contrast in menu.</li> </ol>

### Touch Function

Touch function invalid	<ol style="list-style-type: none"> <li>1. Check whether touch driver is installed and running.</li> <li>2. Check whether the size of article touched is comparable with finger.</li> </ol>
Touch positioning not correct	<ol style="list-style-type: none"> <li>1. Check whether driver is properly installed and make correction.</li> <li>2. Make sure your finger or stylus is making good contact with the touch screen</li> </ol>

## Video Malfunctions

No picture and no sound	<ol style="list-style-type: none"> <li>1. Check whether the device is in active mode.</li> <li>2. Check whether the signal wire is plugged in securely, using the corresponding INPUT.</li> <li>3. If in internal computer mode, check whether internal computer is running.</li> </ol>
With horizontal or vertical stripes or image distortion	<ol style="list-style-type: none"> <li>1. Check whether signal wire is securely connected.</li> <li>2. Check whether other electronic equipment or power tools are placed around the device.</li> </ol>
No color, color is weak or image is weak	<ol style="list-style-type: none"> <li>1. Adjust color and brightness or contrast in menu.</li> <li>2. Check whether signal wire is securely connected.</li> </ol>

## Audio Malfunctions

Image but no sound	<ol style="list-style-type: none"> <li>1. Check whether mute button is pressed for mute.</li> <li>2. Press VOL. + / - to adjust volume.</li> <li>3. Check whether audio line is connected correctly.</li> </ol>
Only one speaker has sound	<ol style="list-style-type: none"> <li>1. Adjust sound balance in menu.</li> <li>2. Check whether computer sound control panel only sets up one sound channel.</li> <li>3. Check whether the audio line is connected correctly.</li> </ol>
VGA output without sound	<ol style="list-style-type: none"> <li>1. Check whether an external device is connected via the headphone jack.</li> </ol>

### 13. Maintenance

Proper maintenance can prevent many early malfunctions. Regular, careful cleaning can keep the device like brand new. Please unplug power plug before cleaning and maintenance, to prevent electric shock.

#### **Clean screen**

For cleaning of the IFP, we recommend using the TRIUMPH Cleaning Pad (EAN:8592580083365). Be aware that using fabric softener might damage the screen.

#### **Clean front frame**

Please use a dry, soft, lint-free cloth to wipe the front frame.

#### **Device to remain unused for extended period**

If the device will not be used for an extended time, such as during a vacation, please make sure to unplug the cord to prevent any possible dangers caused by power surges from lightning.



**For cleaning the glass surface of your IFP, we recommend using: TRIUMPH Cleaning Pad (EAN:8592580083365).**

## 14. Repair Service and Contacts

### Warranty

Please contact your local dealer regarding warranty options in your territory.

You can find our standard warranty conditions on our website

[www.triumphboard.com/support/warranty](http://www.triumphboard.com/support/warranty)

### Technical support

Please fill in your RMA or Product question on our website

<https://www.triumphboard.com/support/technical-support/>

If you have any questions, please email us at [contact@triumphboard.com](mailto:contact@triumphboard.com)

TRIUMPH BOARD a.s.

Neklanova 122/15

128 00 Prague 2

Czech Republic

EU

Phone: +420 224 910 221

E-mail: [info@triumphboard.com](mailto:info@triumphboard.com) [www.triumphboard.com](http://www.triumphboard.com)

### Notices

Every effort has been made to ensure all information contained in this user guide is correct, but the accuracy or completeness is not guaranteed. Before using this device, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to this device not contained in this manual or any contrary statements appearing on your purchase order shall have no force of effect unless expressly agreed upon, in writing, with this company.

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