

## User Manual

# INTERACTIVE FLAT PANEL BLACK Series

65"/ 75"/ 86"



**2023**

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## 1. Product Description

### TRIUMPH BOARD INTERACTIVE FLAT PANEL

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

TRIUMPH BOARD INTERACTIVE FLAT PANEL is an effective presentation tool for showing lessons or presentations interactively in any classroom or meeting room. The latest IR LED optical technology allows a 40-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 (BLACK)

EAN:	8592580117190
Screen Type:	ADS DLED Backlight
Resolution:	3840 × 2160
Brightness:	400 cd/m2
Contrast:	1200:1 (5000:1 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 897 x 87 mm (58.6" x 35.3" x 3.4")
Package Dimensions:	1628 x 1005 x 208 mm (65.2" x 41.3" x 8")
Net / Gross weight:	35 / 44,7 kg (77.16 / 97 lb.)

### TRIUMPH BOARD 75" INTERACTIVE FLAT PANEL (BLACK)

EAN:	8592580117213
Screen Type:	ADS DLED Backlight
Resolution:	3840 × 2160
Brightness:	400 cd/m2
Contrast:	1200:1 (5000:1 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 1020 x 88 mm (67.28" x 40.11" x 3.38")
Package Dimensions:	1863 x 1140 x 225 mm (73.3" x 44.88" x 8.8")
Net / Gross weight:	47,3 / 60,6 kg (104.3 / 133.6 lb.)

### TRIUMPH BOARD 86" INTERACTIVE FLAT PANEL (BLACK)

EAN:	8592580118524 / 8592580119804
Screen Type:	VA DLED Backlight
Resolution:	3840 × 2160
Brightness:	400 cd/m2
Contrast:	4000:1 (5000:1 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" V)
Product Dimensions:	1957 x 1160 x 86 mm (77.04" x 45.6" x 3.3")
Package Dimensions:	2110 x 1283 x 225 mm (84.25" x 52.75" x 11.0")
Net / Gross weight:	58,6 / 75,9 kg (129.2 / 167.33 lb.)

## Touch System

Touch Input:	40 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

HDMI IN:	3 (1x front)
HDMI OUT:	1
USB Type-C	1
VGA:	1
AUDIO IN:	1
AUDIO OUT:	1
LAN:	2
SPDIF:	1
USB 2.0:	1
USB 3.0:	4 (2x front)
TOUCH USB:	2 (1x front)
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
MAX Power Consumption with OPS:	< 360 W / < 360 W / 520 W / *
Standby Power Consumption:	< 0.5 W

\* Depends on the model.

## Ambient Conditions

Operation Temperature:	0°C ~ 40°C
Operation Humidity:	10% ~ 90% RH
Storage Temperature:	- 20°C ~ 60°C
Storage Humidity:	10% ~ 90% RH

## Android System models 65"/ 75"/ 86"

Version:	Android 11.0
CPU:	A55x4
GPU:	Mali G52MP2
RAM:	4 GB
ROM:	32 GB

### 3. Safety Warnings

Before using the device, 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 heat sources, 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 where it might expose to moisture or liquids.
- Do not insert any items inside of the device.
- Do not place heavy objects on the device.

#### Power Supply

- Verify compatibility between the voltage rating on the back shell nameplate and the main power supply voltage rating.
- In case of thunderstorms and lightning weather, unplug the power cord and antenna plug.
- When no one is indoors, or the device will not be used for an extended time, unplug the power cord.
- Protect the power cord from physical or mechanical damage.
- Use the original power cord, and do not modify or extend the power cord.
- Check and make sure the AC power ground wire is connected.

#### Screen

- When writing on the screen, do not use hard or sharp objects.
- When the screen requires cleaning, unplug the power cord first.
- Use a soft, dust-free, dry cloth to wipe the screen.
- Do not use water or a spray cleaner to clean the device.
- Contact the service center for internal cleaning of the device.
- Do not display an image with high brightness on the screen for a long time.
- 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 the viewer and the screen is 2 to 7 times of the screen diagonal.
- The best viewing angle between the eyes of the viewer and the 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, leave the device idle in the new environment for some time to allow for temperature adjustment, and to sufficiently diffuse internal condensation before 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.
- Make sure the indoor environment is cool and dry, the device's normal working humidity is 20 - 80% RH, and storage humidity is 10~60% RH.

### **Ventilation**

- Place the device in ventilated places and ensure the device's good heat dissipation.
- 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, 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**

- Dispose of used batteries properly and recycle them.
- To avoid danger, 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 the back cover. 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**

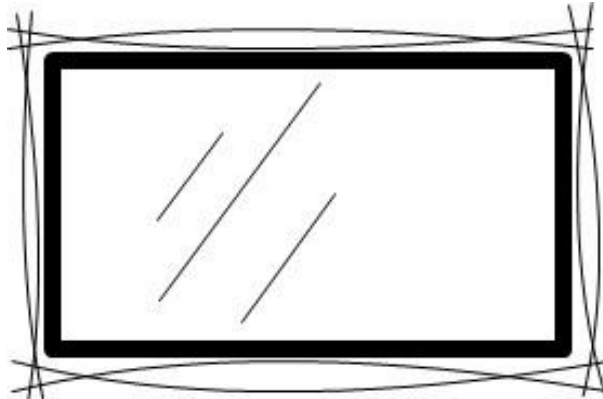
- "I" means power on, "O" means power off.

### **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 for model 86" in the package for models 65" and 75" optional, power cables (UK, US, EU), touch USB cable



Quick Start Guide



2x Stylus



Remote control



Power cable (US, UK, EU)



Touch USB Cable



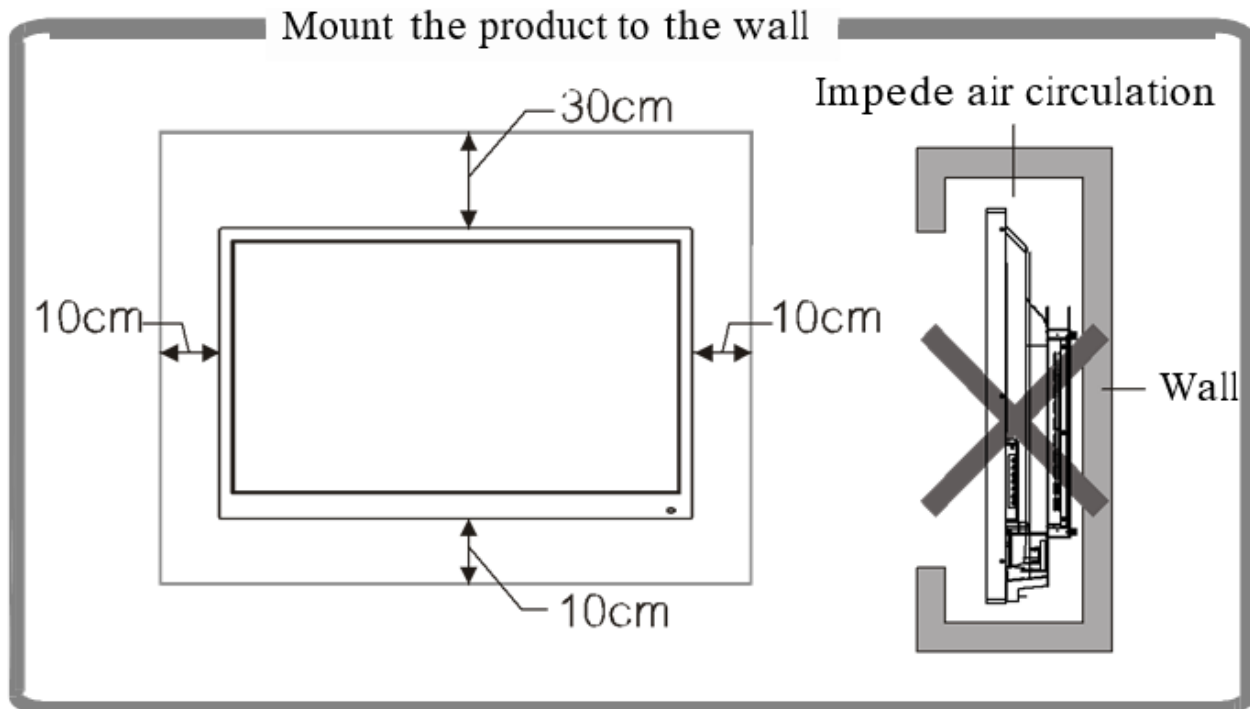
HDMI Cable

## Installation of Wall Mount

### Precautions

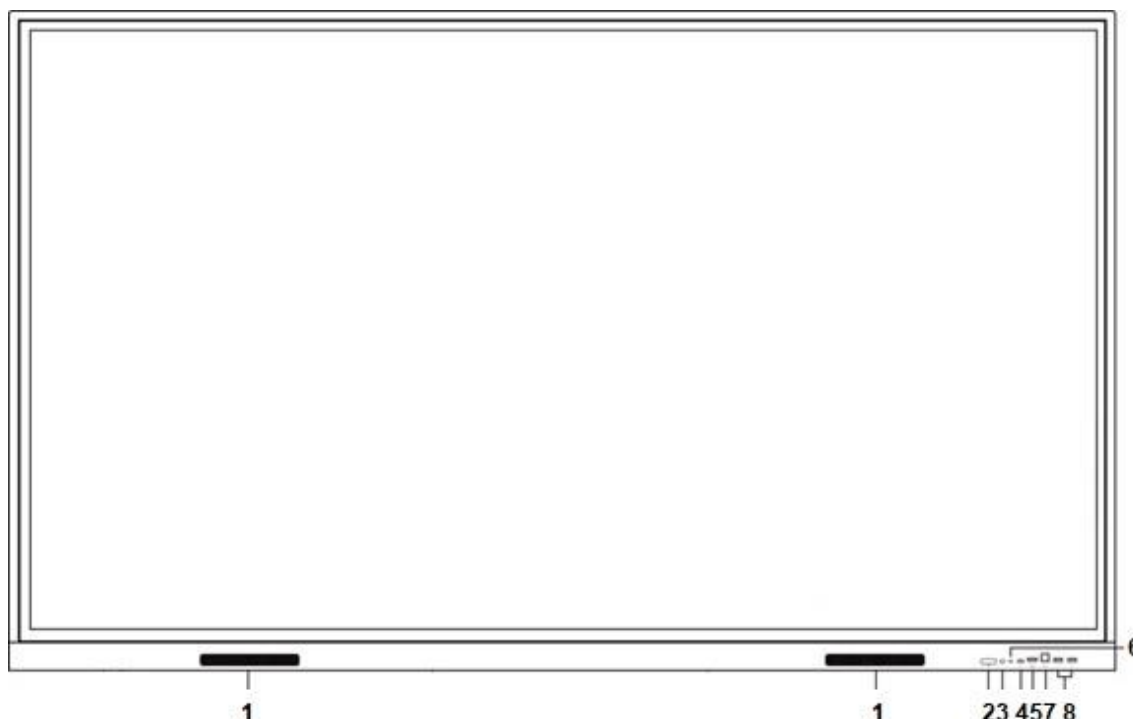
- For installation of the wall-mount bracket, at least two professional workers are needed; you should not attempt to install it alone, as this may result in injury.
- During installation, assistance from professional workers is needed to designate the installation, and measurements should be taken to 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 to the device or personal injury may be caused.
- To avoid damage to 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



Ports	Description of Function
1. Front Speakers	2 x 16W
2. Power	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>
3. Signal Receiver	Remote control signal receiver
4. USB Type-C	USB Type-C supports charging, data transmission, extension for audio, and video output interface. (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)
5. USB 3.0	Connect USB devices such as portable hard drives, USB drives, USB keyboards, and mice, etc.
6. Light Sensor	Automatically identifies the brightness based on ambient light
7. HDMI IN	For connection to display devices with HDMI output function. The maximum resolution supported by the HDMI port is 4K@60HZ.
8. TOUCH USB	External computer touch signal input. The default touch function is available under the 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 the 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).







## 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 a case, change the angle of the 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 time or the batteries are depleted, 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. 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:



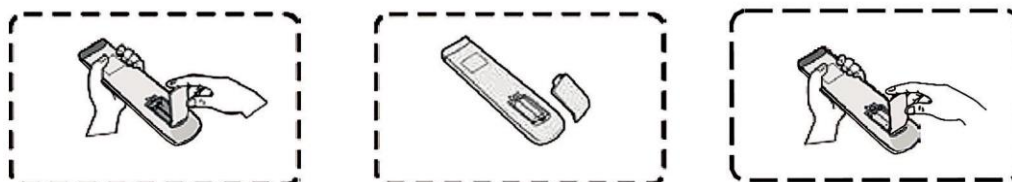
Button	Description
<b>Power</b> 	Switch between power ON and power OFF
<b>Input</b>	Open/close the signal source list
<b>Navigation keys</b> 	Select or adjust menu options
<b>OK</b>	Confirm the operation
<b>Menu</b>	Show/Hide the main menu
<b>Home</b>	Display the Android homepage
<b>Back</b>	Return to the previous interface
	Set the device into standby mode (backlight off)
<b>Note</b> 	Switch to annotation application – NOTE quick launch button
<b>Blue button</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

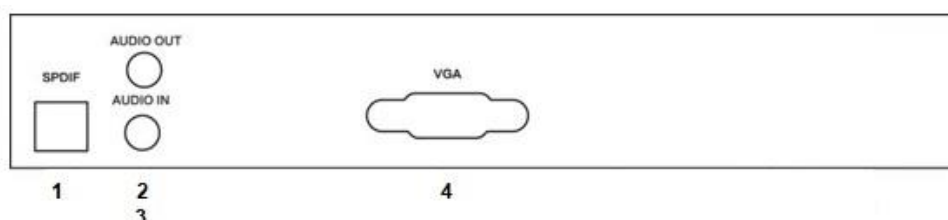
- 1) Open the back cover of the battery compartment on the back of the remote control.

- 2) Install AAA-type batteries according to the corresponding electrode, and make sure the battery's positive and negative poles are correctly placed ("+" to "+", "-" to "-"). Do not mix old and new batteries.
- 3) Close the back cover of the battery compartment after batteries are installed and snap the clip fastener shut against the bottom of the remote.

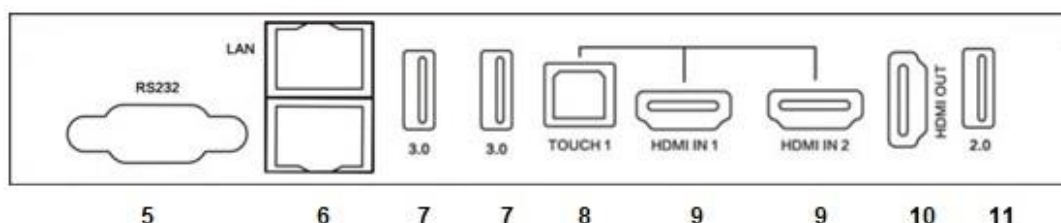


## 6. IFP Interface Inputs & Outputs

Right bottom side of IFP interface:



The right side of the IFP interface:



Ports	Description of Function
1. <b>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.
2. <b>AUDIO OUT</b>	Audio output to the external speaker.
3. <b>AUDIO IN</b>	External computer audio input.
4. <b>VGA</b>	Input for video signal formats supported by the VGA port.
5. <b>RS 232</b>	Serial interface is use for mutual transfer of data between devices.

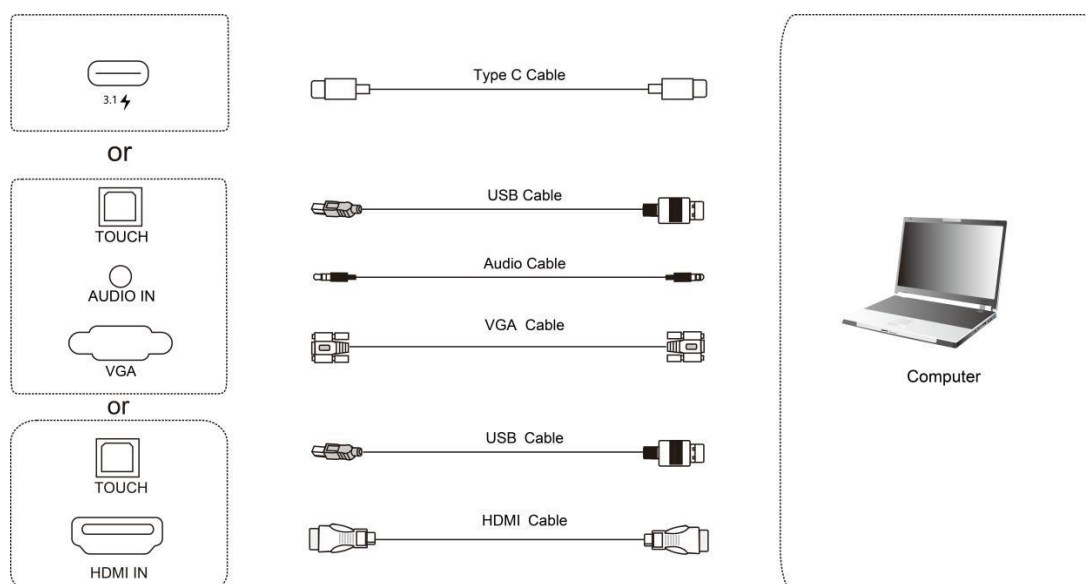
<b>6. LAN</b>	LAN interface for connecting RJ45 terminals.
<b>7. USB 3.0</b>	Connect USB devices such as portable hard drives, USB drives, USB keyboards, and mice, etc.
<b>8. TOUCH USB</b>	External computer touch signal input. The default touch function is available under the optional built-in OPS PC. 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 the 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>9. HDMI IN</b>	For connection to display devices with HDMI output function. The maximum resolution supported by the HDMI port is 4K@60HZ.
<b>10. HDMI</b>	For connection to display devices with HDMI output function. The maximum resolution supported by the HDMI port is 4K@60HZ.
<b>11. USB 2.0</b>	Connect USB devices such as portable hard drives, USB drives, USB keyboards, and mice, etc.

## 7. Connection and Set-Up

### CAUTION


For your safety and the device safety, 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 a VGA line to connect to the VGA output port of an external computer, and meanwhile use a headphone audio line to connect to the external computer audio output interface.
2. Use a USB cable to connect to the external computer USB port and USB TOUCH 2.

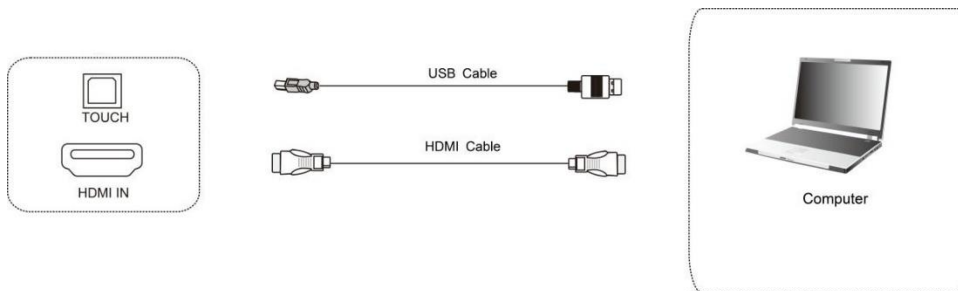
3. After the connection is completed, plug-in the power cord, and switch POWER to ON.
4. Start the external computer.
5. Press the key , and the equipment is powered on.
6. Press the INPUT key to switch to the VGA channel.


Connecting of HDMI cable and USB touch cable:  
VGA --> TOUCH USB 2

**NOTE:**

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

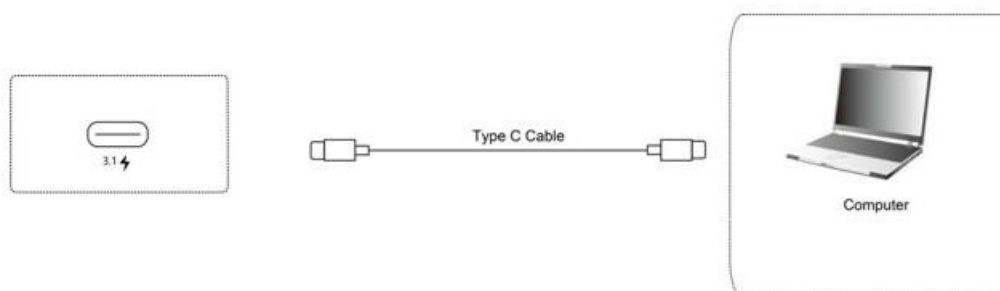
**Connecting of HDMI cable and USB touch cable:**




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

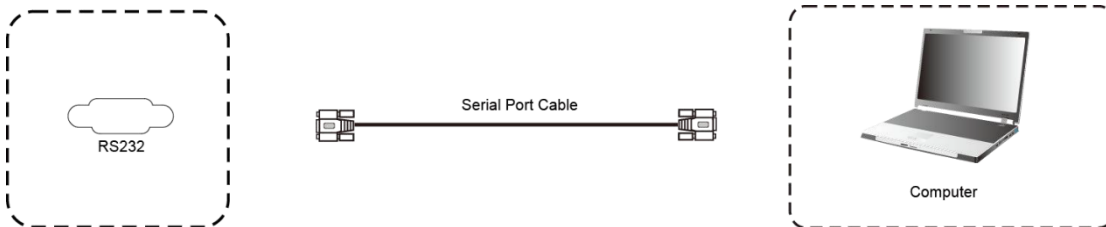
Connecting of HDMI cable and USB touch cable:  
HDMI 1/2--> TOUCH USB 1  
HDMI 3 --> TOUCH USB 2

**Connecting of USB-C**



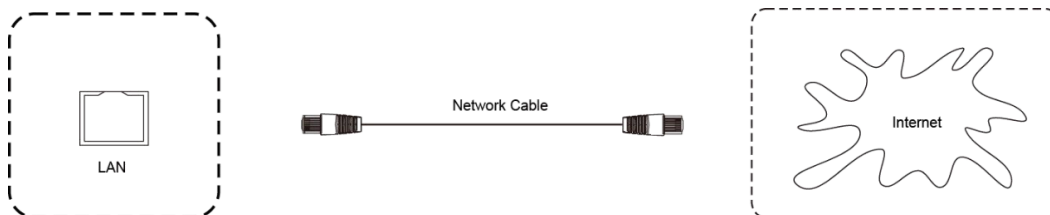
1. Use the USB-C cable to connect to the USB-C port on the external computer and the USB-C port on the front of the IFP
2. USB-C supports Display port, touch functionality, and charging (support of these functions depends on the used cable and USB-C port specifications in the external computer)
3. After the connection is complete, plug-in the power cord, and switch POWER to ON.
4. Start the external computer.
5. Press the key , and the equipment is power on.
6. Press the INPUT key to switch to the TYPE-C channel.

### RS232 Serial Port Connection

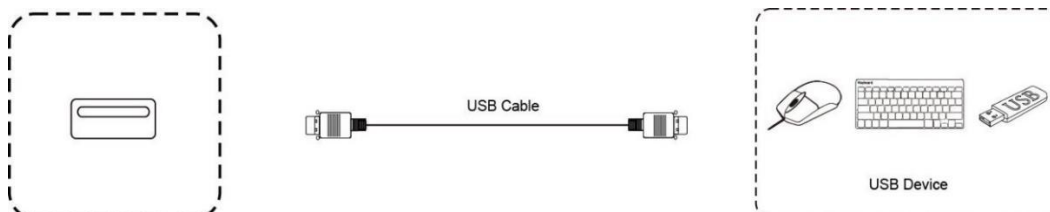


After using the serial port line to connect central control equipment and the device, certain functions of the device can be controlled via the central control device, such as device ON/OFF, adjustment of sound volume, etc. RS232 codes are available on our support webpage: <https://www.triumphboard.com/support/>.

### LAN Connection



### USB Connection


















## 8. Android System

### Call up the Control Menu.

The tree arrows are used on the screen to call Control Menu. One is on the left side, one is on the right side, and one is on the bottom. Touch the arrow to call the Control Menu. The 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
			Bytello Share

### Disappearing of the Control menu

Press on the 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 the power ON and OFF state.

### Auto standby shut-down

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

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, connect the device to the internet via Wi-Fi or LAN cable. Afterward, go to Settings – System– System Update - Check Update. If there is a new update available, you will be asked to upgrade the device. Follow the instructions on the screen to install the latest Android firmware. **Make sure you always have the latest Android firmware installed.**

### Settings save before shut-down

Before the 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 the “Signal Source Menu”, and 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 the top right corner. Input settings will pop up, select the signal source, and the device will switch to the selected input signal source.

### Display Settings

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

### Audio Settings

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

### Change Password

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

If the password is forgotten, 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 the network, the date and time must be set manually.

### Screenshot

Press the "Screenshot" key on the remote control or open the 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 the desired value.

### To adjust volume

Press on the volume icon on the home screen – drag into the desired value.

## 10. Network Settings

### Wireless Network

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

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

### Wireless Hotspot

The wireless hotspot only works if the following conditions are met. The Wi-Fi module is built-in and plugged into the appropriate slot in the IFP. The Wi-Fi module operates in either wireless network connection mode or hot spot mode. If the device is not connected via LAN cable, then other connected devices including the IFP will lose the ability to access the Internet. Data sharing via Airplay/Bytello share will be possible. Without connected LAN cable, the connected devices will not be able to access the online content.

1. Select System Settings > Wireless & Network > Hotspot
2. Turn on the 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.

### 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.

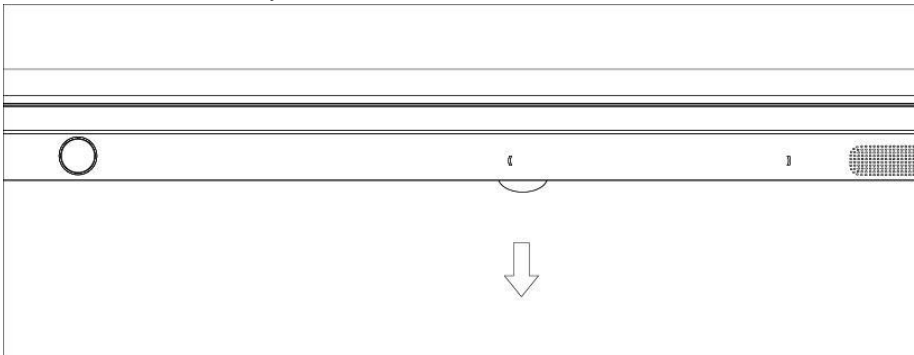
1. Connect one end of the network cable to the network port of this device before using a wired network, and then connect the other end to a router.
2. Select System Settings > Wireless & Network > Ethernet
3. Turn on the connecting switch.
4. Select "DHCP" in IP settings, IFP will automatically obtain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

## 11. Wi-Fi Module

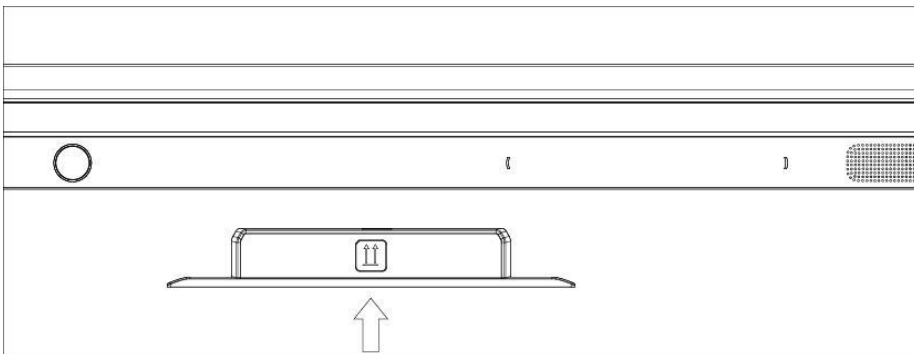
### Installation Procedure

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

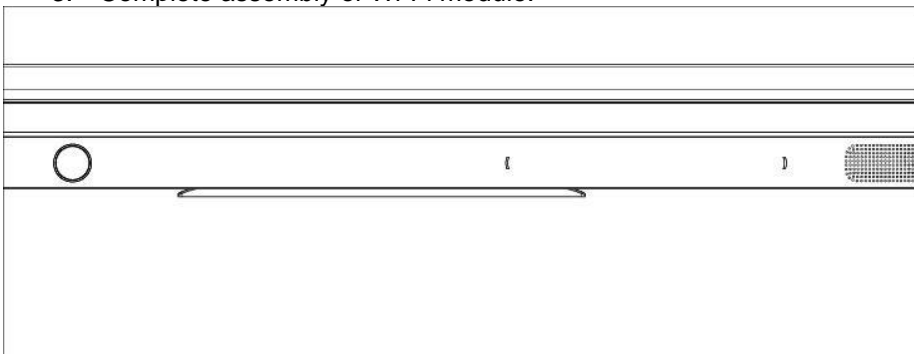
1. Take off the Mylar.



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



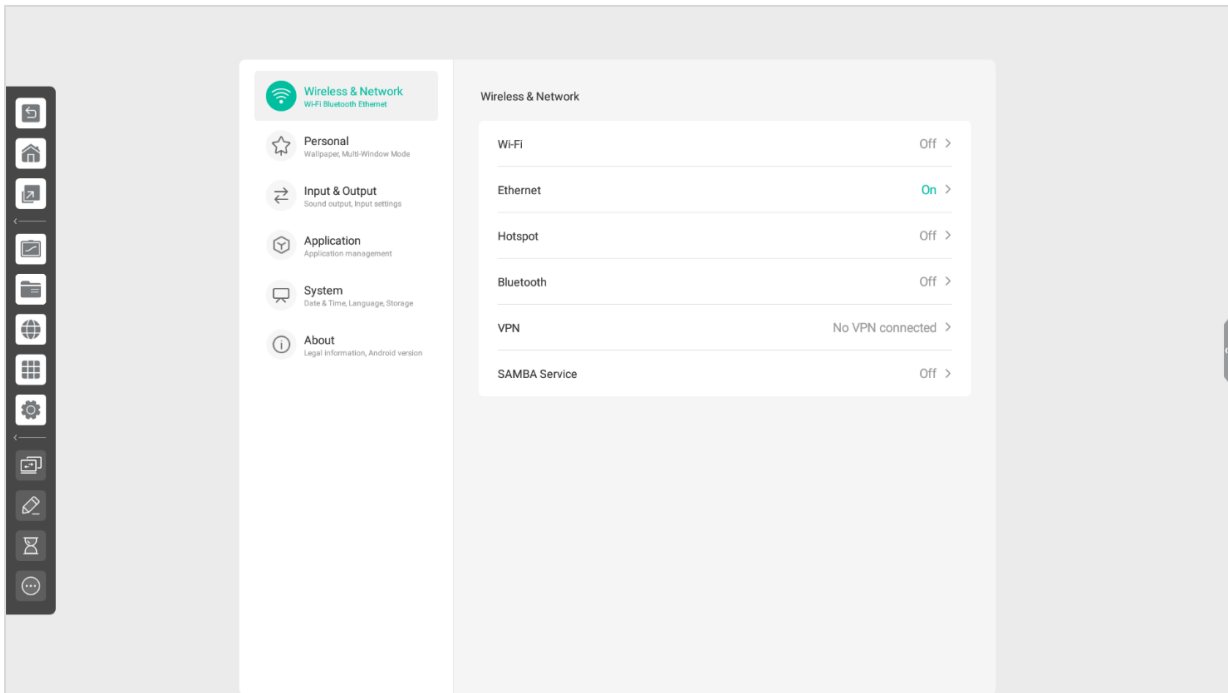
3. Complete assembly of Wi-Fi module.



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

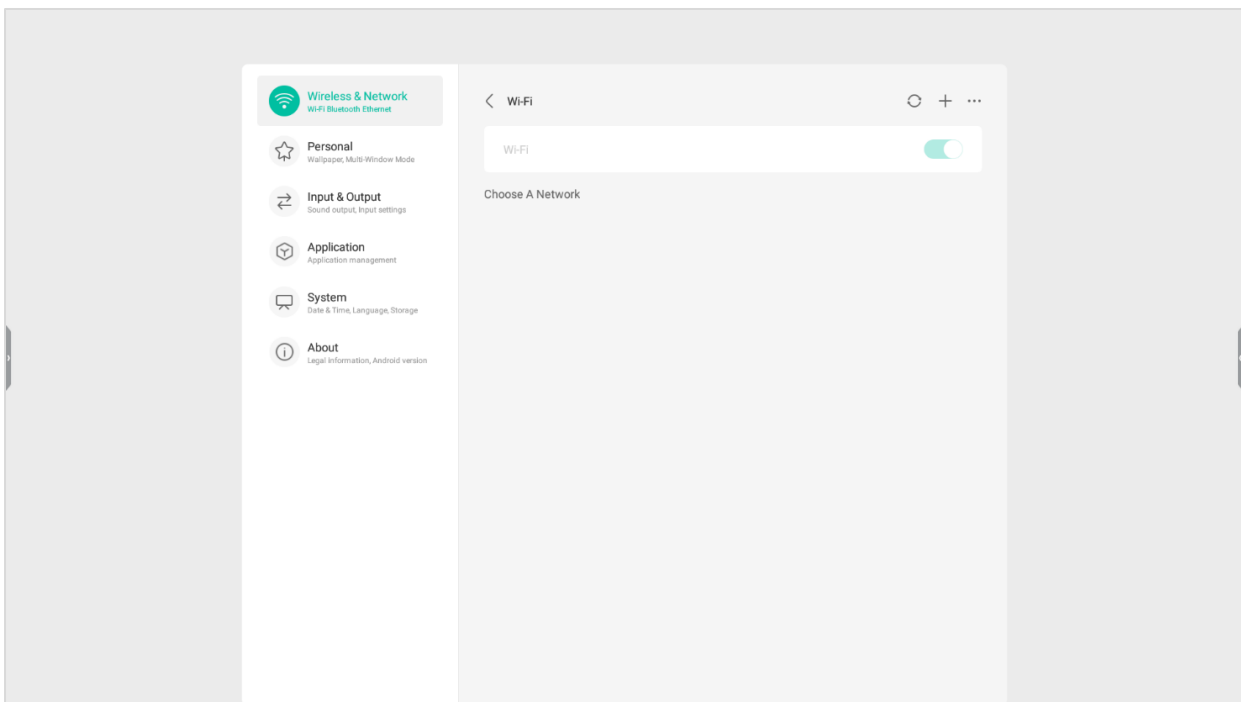
### Function

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”, and enter the following Wi-Fi setting interface.

Click the icon “”, and you can turn on/off the Wi-Fi function.



### Key Specifications

Wi-Fi-Standard: Support 802.11 a/b/g/n/ac

Bluetooth: Support BT 2.1/3.0/4.0

Operating Frequency: 2.4G & 5G (5150MHz-5250MHz indoor use)

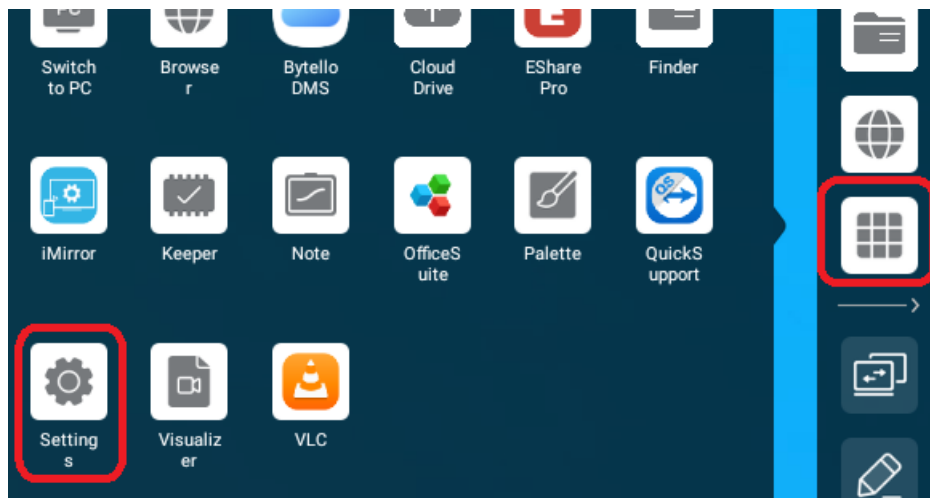
Antenna Type: Dipole

Antenna Gain: BT/ 2.4G Wi-Fi 3dBi;5G Wi-Fi 4.3dBi

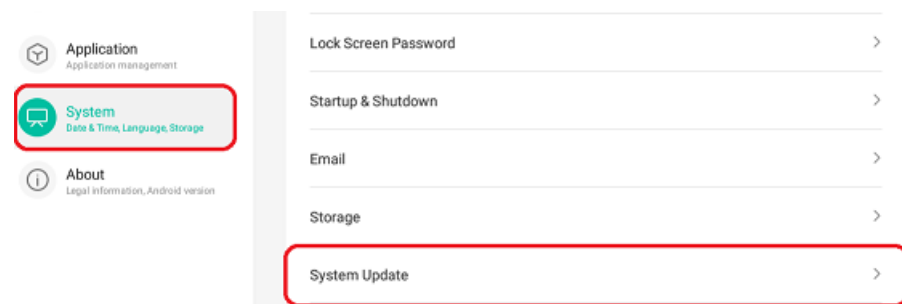
Antenna Impedance: 50Ω

## 12. OTA update

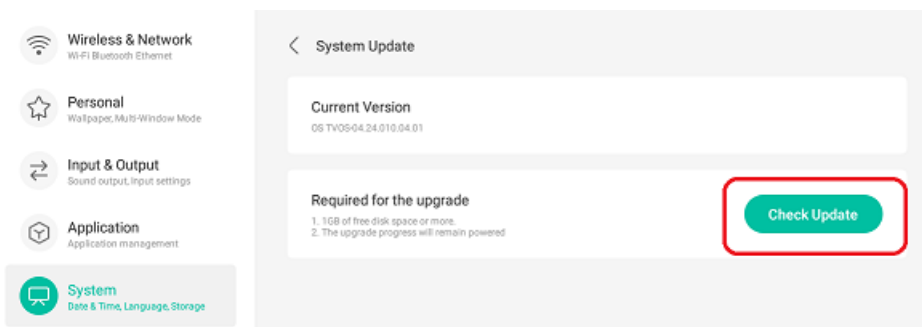
1. Open the program list and select the Settings



2. Select "System" and then "System Update"



3. Select "Check update"



4. If a new update is available, start with a download and follow the steps for installation.

## 13. Troubleshooting

### IFP fails to work normally

Remote control failure	<ol style="list-style-type: none"> <li>1. Check whether there are other objects between the remote control and television remote control receiving window, blocking signal transmission and thus, leading to the failure of the remote control.</li> <li>2. Check whether the battery terminal in the remote control is correctly connected.</li> <li>3. Check whether the remote control needs a 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 the display is set correctly.</li> <li>2. Check whether there has been a sudden power outage.</li> <li>3. Adjust line and field synchronization in the menu.</li> </ol>
Image lack of color, color is incorrect	<ol style="list-style-type: none"> <li>1. Check whether the video cable is possibly not securely connected or has a quality problem.</li> <li>2. Adjust color and brightness or contrast in the menu.</li> </ol>

### Touch Function

Touch function invalid	<ol style="list-style-type: none"> <li>1. Check whether the touch driver is installed and running.</li> <li>2. Check whether the size of the article touched is comparable with a finger.</li> </ol>
Touch positioning not correct	<ol style="list-style-type: none"> <li>1. Check whether the driver is properly installed and make the 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 the internal computer is running.</li> </ol>
With horizontal or vertical stripes or image distortion	<ol style="list-style-type: none"> <li>1. Check whether the 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 the menu.</li> <li>2. Check whether the signal wire is securely connected.</li> </ol>

### Audio Malfunctions

Image but no sound	<ol style="list-style-type: none"> <li>1. Check whether the mute button is pressed for mute.</li> <li>2. Press VOL. + / - to adjust volume.</li> <li>3. Check whether the audio line is connected correctly.</li> </ol>
Only one speaker has sound	<ol style="list-style-type: none"> <li>1. Adjust the sound balance in the menu.</li> <li>2. Check whether the 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>

## 14. Maintenance

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

### Clean screen

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

### Clean front frame

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

### Device to remain unused for an extended time.

If the device will not be used for an extended time, such as during a vacation, 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: the TRIUMPH Cleaning Pad (EAN:8592580083365).**

## 15. Repair Service and Contacts

### Warranty

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

Fill in your RMA or Product question on our website:

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

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

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### 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 or effect unless expressly agreed upon, in writing, with this company.

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