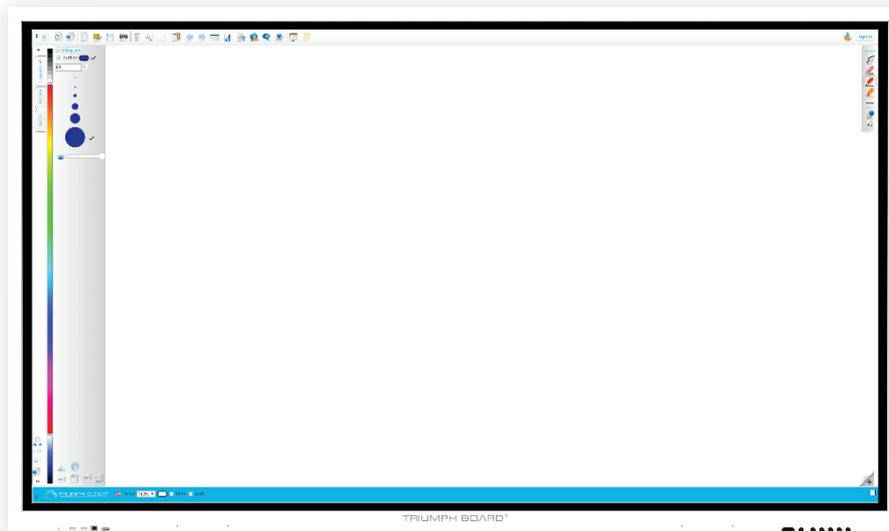


User Manual

INTERACTIVE FLAT PANEL UHD Series

65"/ 75"/ 86"



2019

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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 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 fingers or a stylus.

TRIUMPH BOARD OPS PC for INTERACTIVE FLAT PANEL (optional for IFP UHD Series)

The TRIUMPH BOARD OPS PC for IFP is a powerful, fully integrated personal computer for the TRIUMPH BOARD Interactive Flat Panel Series with the Android system.

TRIUMPH BOARD OPS PC for IFP includes a Microsoft® Windows® 10 Pro (OEM) license with language selection options and preinstalled applications.

2. Technical Specifications

TRIUMPH BOARD 65" INTERACTIVE FLAT PANEL

EAN:	8592580115363
Screen Type:	Open Cell DLED Backlight
Resolution:	3840 × 2160
Brightness:	450 cd/m ²
Contrast:	1200:1
Response time:	6 ms
Refresh Frequency:	60 Hz
Display Area:	1428.48 (H) x 803.52 (V) (56.22" H x 31.62" V)
Outline Dimensions:	1506.3 x 901.3 x 89.2 mm (59.3" x 35.4" x 3.5")
Package Dimensions:	1660 x 1045 x 245 mm (65.3" x 41.14" x 9.6")
Net / Gross weight:	42 / 57.5 kg (92.5 / 126.7 lb.)

TRIUMPH BOARD 75" INTERACTIVE FLAT PANEL

EAN:	8592580115370
Screen Type:	Open Cell DLED Backlight
Resolution:	3840 × 2160
Brightness:	450 cd/m ²
Contrast:	1200:1
Response time:	8 ms
Refreshing Frequency:	60 Hz
Display Area:	1649,66 (H) x 927,94 (V) mm (64.92" H x 36.5" V)
Outline Dimensions:	1735.98 x 1034.52 x 103.75 mm (68.38" x 40.75" x 4.08")
Package Dimensions:	1880 x 1160 x 280 mm (74" x 45.66" x 11.0")
Net / Gross weight:	58.5 / 75.5 kg (128.9 / 166.4 lb.)

TRIUMPH BOARD 86" INTERACTIVE FLAT PANEL

EAN:	8592580115387
Screen Type:	Open Cell DLED Backlight
Resolution:	3840 × 2160
Brightness:	400 cd/m ²
Contrast:	1200:1
Response time:	8 ms
Refreshing Frequency:	60 Hz
Display Area:	1895.04 (H) x 1065,96 (V) mm (74.6" H x 41.97")
Outline Dimensions:	1989.18 x 1180.22 x 119.9 mm (78.31" x 46.5" x 4.5")
Package Dimensions:	2140 x 1340 x 280 mm (84.25" x 52.75" x 11.0")
Net / Gross weight:	77 / 100 kg (169.7 / 220.4 lb.)

Touch System

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

Inputs and Outputs

HDMI IN:	3
HDMI OUT:	1
DisplayPort:	1
VGA:	1
PC AUDIO:	1
Y Pb Pr:	1
LAN:	2
AV IN:	1
AV OUT:	1
EARPHONE:	1
SPDIF:	1
USB 2.0:	2
PC/Android USB	2
TOUCH USB	2
RS232 IN	1

Sound System

Power Amplification:	2x15W (2.0)
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Power

Power Requirements:	100 – 240 V AC 50/60 Hz
Overall Power Consumption:	< 167W/320W/388W*
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

TRIUMPH BOARD OPS PC for IFP (optional for IFP UHD Series)

EAN:	8592580115233
Processor:	Intel i3-7100U Kaby Lake
Graphics:	Integrated Intel® HD Graphics
Sound Card:	Integrated High Definition Audio Stereo
Network:	Integrated 10/100/1000 Mbps
Memory:	2x4 GB DDR4
Hard Drive:	128 GB SSD disk
WIFI:	802.11 ac (2,4/5 GHz) + Bluetooth 4.0
USB:	2x USB 2.0 and 2x USB 3.0
Lan Port (RJ45):	1
HDMI Output	1
Audio:	Side Headphone and Mic Port
Operating System:	Microsoft Windows 10 Professional (OEM) 64-bit MultiLang
Net / Gross Weight:	0,9 / 1 kg (2 / 2.2 lb.)

TRIUMPH BOARD OPS PC PRO for IFP (optional for IFP UHD Series)

EAN:	8592580115578
Processor:	Intel i7-8665U 4M Cache up to 4.8GHz
Graphic card:	Integrated Intel® HD Graphics
Sound Card:	Integrated High Definition Audio Stereo
Network:	Integrated 10/100/1000 Mbps
Memory:	2x4 GB DDR4
Hard Drive:	256 GB SSD disk
WIFI:	802.11 ac (2,4/5 GHz) + Bluetooth 4.0
USB:	1x USB 3.0 and 2x USB 3.1
Lan Port (RJ45):	1
HDMI Output	1
Audio:	Side Headphone and Mic Ports
Operating System:	Microsoft Windows 10 Professional (OEM) 64-bit MultiLang
Net / Gross Weight:	1.5 / 1.7 kg (3.3 / 3.7 lb.)

Android System

Version:	Android 8.0
CPU:	ARM A73+A53
GPU:	Mali G51
RAM:	3GB
ROM:	16GB

3. Safety Warning

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 radiation emitting equipment.
- 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 instead of styluses.
- 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 best 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 dry and cool, 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 spaces 10 cm (4 inches) on the sides and back, and 30 cm (12 inch) 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 power button on the front of device body 1s will not completely shut off the device, but only place the device in standby mode. For complete shutdown it is necessary to press power button for 3s.
- If control diode flashes do not switch off IFP by power switch or do not unplug device from socket. As a result, your equipment may not power on and repair by a service technician should be required. The device can be turned off with the main switch and unplug from the socket when the light is still red.

Battery

- Please dispose of used batteries in the proper manner and recycle.
- To avoid danger, please do not let children touch the battery, and do not put the battery into 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

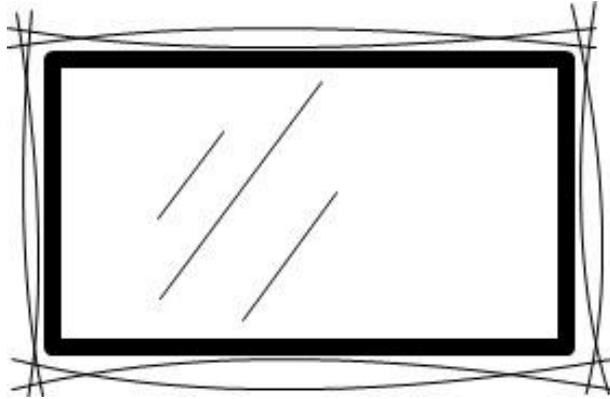
- "I" means power on, "O" means power off.

Notes on Maintenance

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

4. Preparing for Installation

Unpacking



Accessories

Quick start guide (on the 8GB USB), User Manual, (on the 8GB USB), styluses, cleaning pads, remote control, Wi-Fi USB adapter, power cables (UK, US, EU), touch USB cable, USB Flash Drive and VC Camera Bracket.



Quick start guide



2x Stylus



Cleaning Pads



Remote control



Power cable (US, UK, EU)



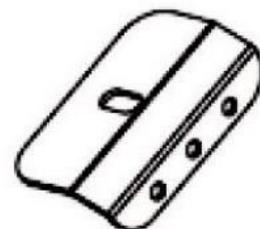
Touch USB Cable



USB Flash Drive



HDMI Cable



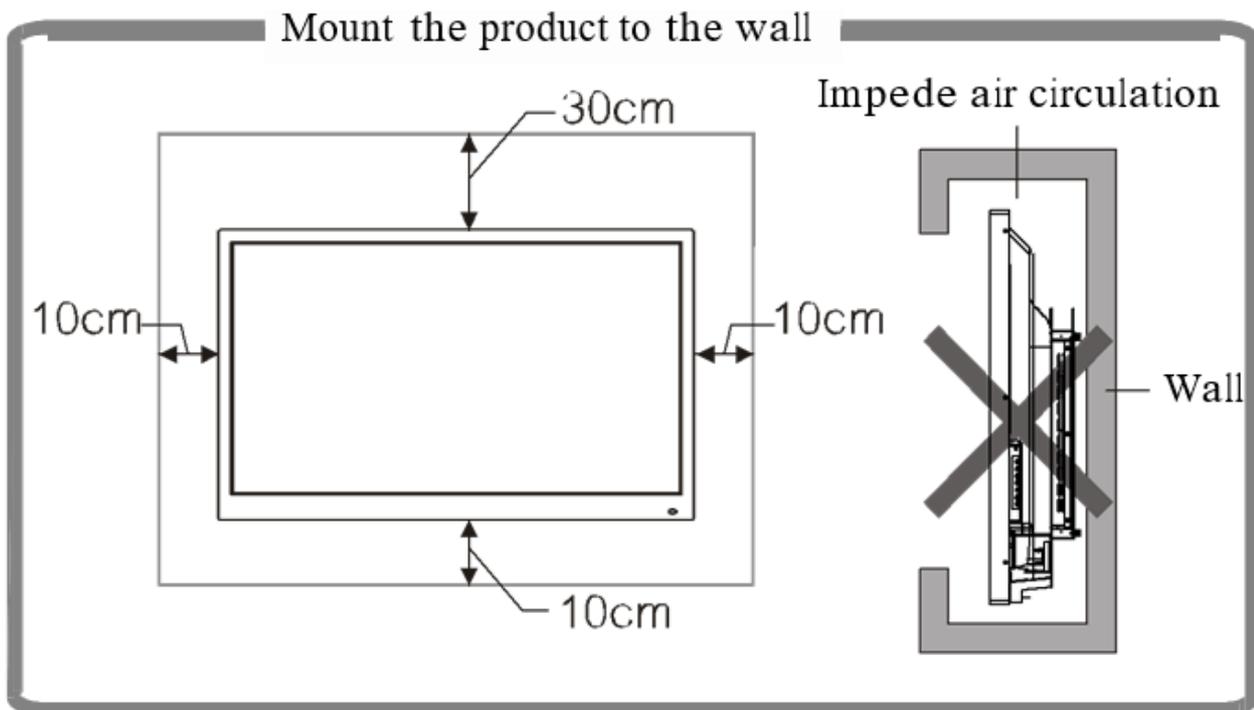
VC Camera Bracket

Installation of Wall Mount

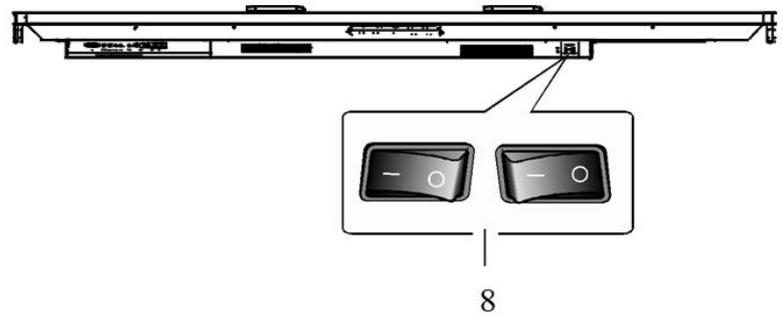
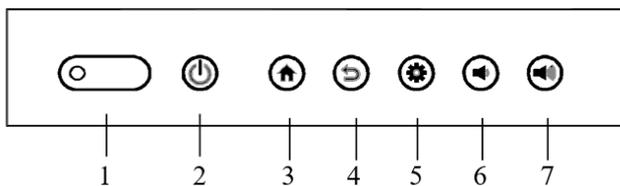
Precautions

- For installation of the wall-mount bracket, at least two professional workers are needed; you should not attempt to install it alone, otherwise injury may result.
- During installation, assistance from professional workers is needed to designate the installation, and measures should be taken to make sure the wall can bear a certain amount of external force. Make sure the wall mount is installed onto or other surface which cannot 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



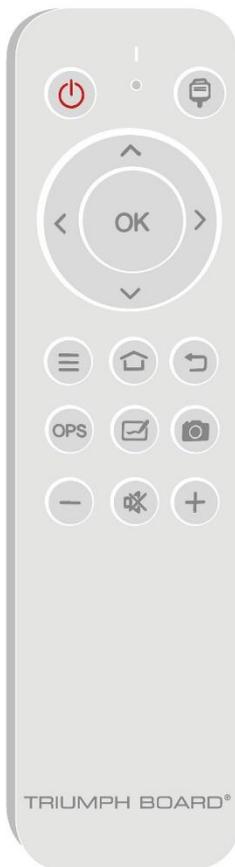
Item	Description of Function
1. Indicator Light Remote control receiver Light sensing receiver	<ul style="list-style-type: none"> - Indicates if the IFP is turned on or off (green on, red off) - Receiver for remote control signal - Receiver for light sensor
2. Power	Turns Interactive Flat Panel on/off, Standby mode by holding the button for 1s
3. Homepage	IFP goes to Android home menu
4. Return and touch unlock	Go Back and Touch Unlock
5. Setting	IFP goes to Settings
6. Vol -	Turn volume down
7. Vol +	Turn volume up
8. Switch	Main switch for IFP on and off from electricity 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 or 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:

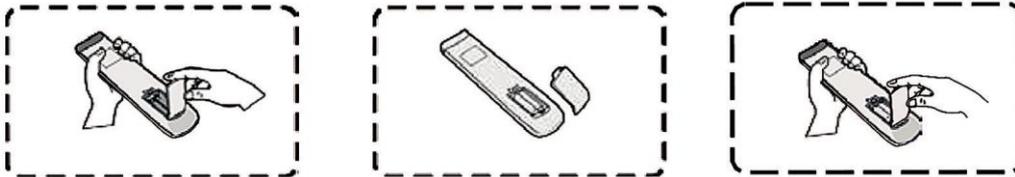


Button	Description
Power 	Switch between power on and power (off)
Source 	Open / close the signal source list
Navigation keys 	Select or adjust menu options
Ok	Confirm the operation
Menu 	Show/Hide the main menu
Home 	Display the Android homepage
Back 	Return to the previous interface
OPS	Switch to OPS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

Remote Control Use Instructions

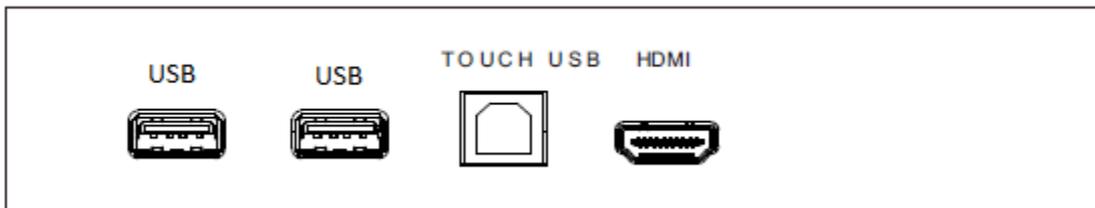
Install Batteries

- 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.

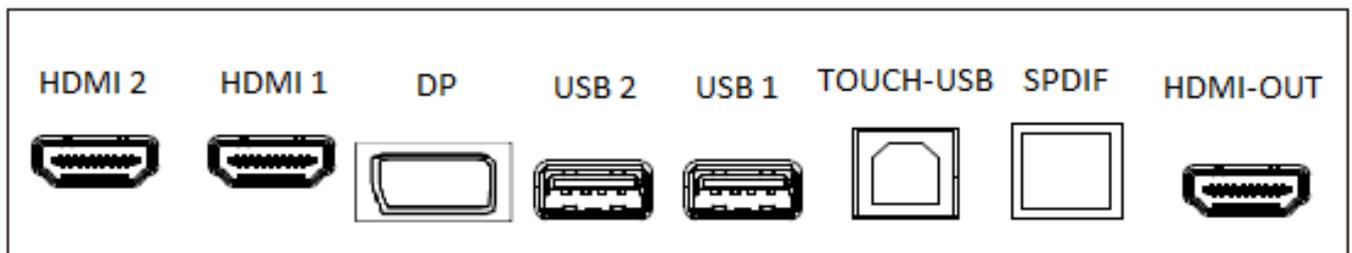


6. IFP Interface Inputs, Outputs

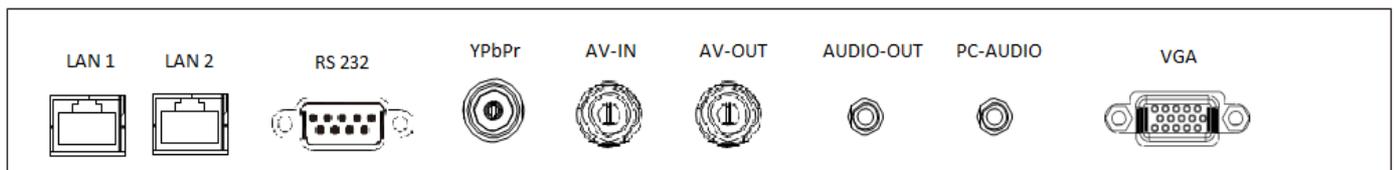
Front interface of IFP



Left side of IFP interface



Bottom Left side of IFP interface



Ports	Description of Function
USB	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.
TOUCH USB	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)
HDMI HDMI 1 HDMI 2	For connection to display devices with HDMI output function. Maximum resolution supported by HDMI port is 4K@60HZ, when 4K@60HZ signals are played, the EDID version in the OSD menu should be switched to EDID2.0.
DP	Connected to display devices with DP output function. The maximum resolution supported by the DP port is 4K@60HZ. The signal quality depends on length and quality of the DP cable
USB 2 USB 1	Used to connect external devices to the Android system of the device, which enables data reading via the file manager of this device.
SPDIF	SPDIF Out – digital optical audio output. This port can output the device's audio signals to external speakers with a SPDIF-IN port.
HDMI OUT	HDMI-OUT port can output Audio & Video signals to the HDMI-IN port of the second device, the second device can replay the Audio & Video signals to the third device, so on and so forth. The maximum relaying amount depends on quality and length of the HDMI cable, it is recommended to use the cables provided by TB.
LAN 1 LAN 2	LAN interface, connecting RJ45 terminals.
RS 232 IN	Serial interface, used for mutual transfer of data between devices
YPbPr	Component video input.
AV IN	Composite video input.
AV OUT	Composite video output.
AUDIO-OUT	3,5 mm (0.138") connector Audio Out. Audio-OUT port can be connected with a headset or an external speaker.
PC-AUDIO	External computer audio input.
VGA	Input for video signal formats supported by the VGA port

7. Connection and Set Up

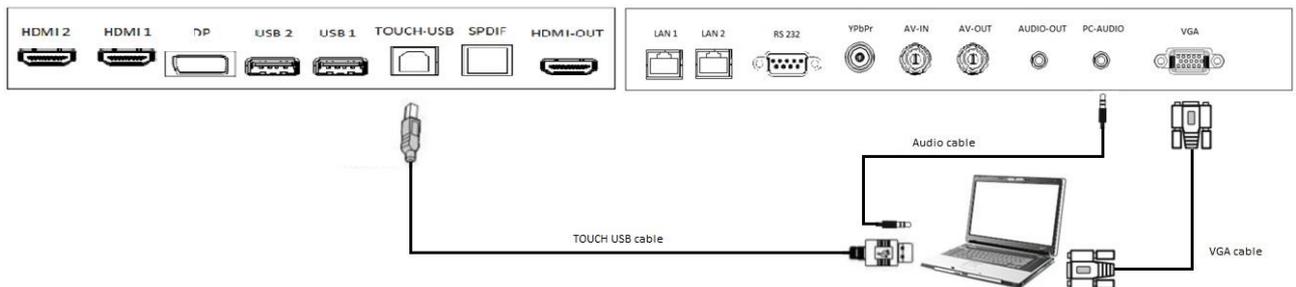
CAUTION

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.

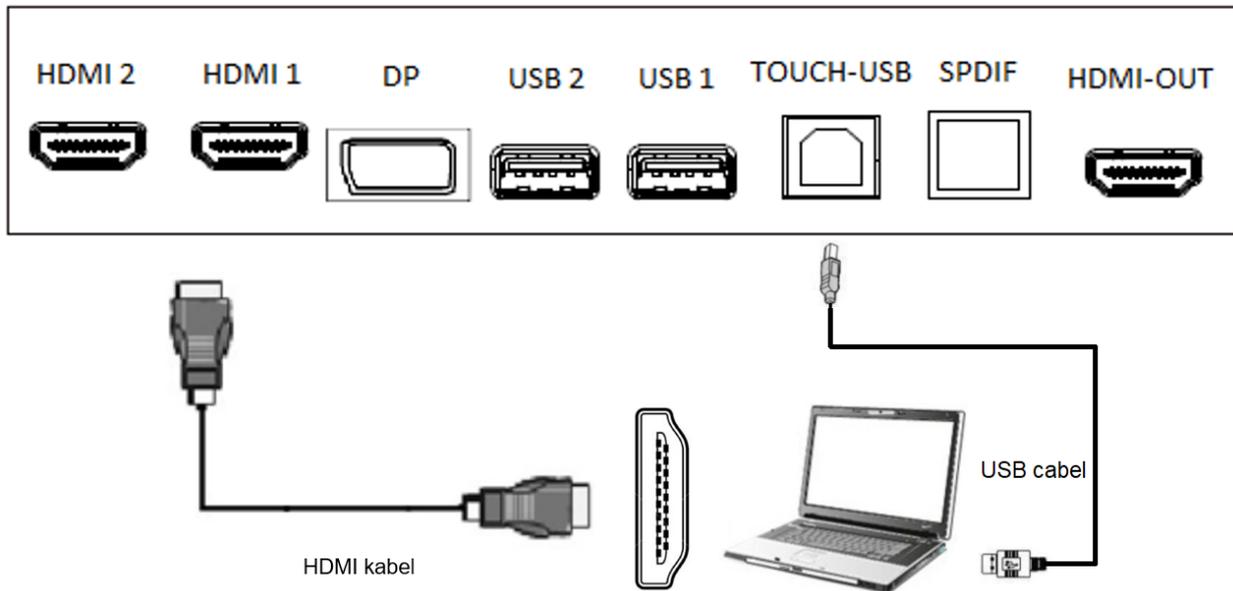


NOTE:

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

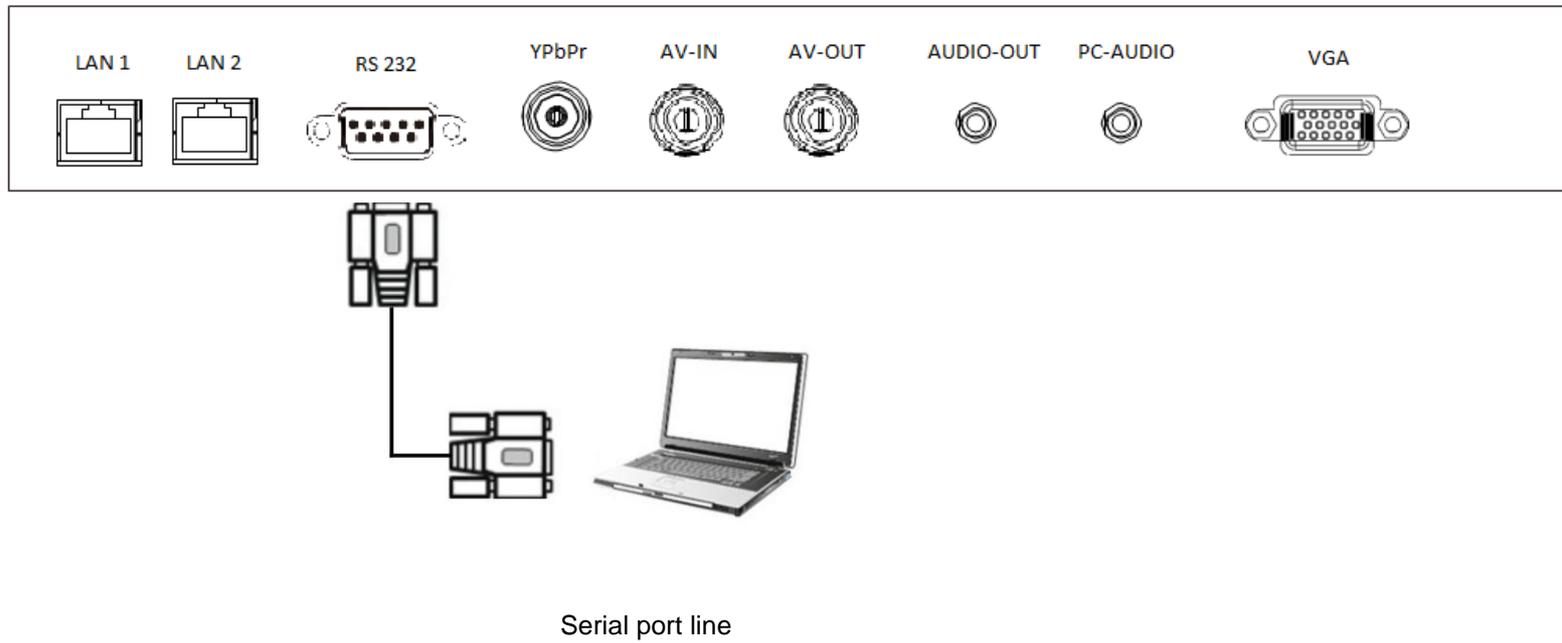
Connecting of HDMI cable and USB touch cable:

HDMI /HDMI1 / HDMI2



- 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/>

8. Android System

Call up Control menu

Place two fingers on the screen (about 20-50mm apart) and keep in position more than two seconds under any source to call up two touch system tool menus.



Main control menu

-  Home (Return to Android Home Page)
-  System Settings
-  Quick access list of running applications
-  Source (Inputs)
-  Annotation overlay (Drawing)
-  Step back
-  Submenu

Control submenu

-  Screenshot
-  Lock screen
-  Adjust volume up and down
-  Adjust brightness up and down
-  Spotlight
-  Clear Cache

Disappearing of Control menu

Press on control submenu button for more than two seconds or wait 7 seconds until it disappears automatically.

9. Basic Operations

Start-up/shutdown

Use 100-240V AC as the power supply.

Power button on the panel and the remote control can be used to switch between power-on and off state.

Auto 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 15min (can be set), the device will automatically set off.

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 2 touch menu function 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: Start 2 touch menu and press on Source button, Source Settings will open on the side of the screen, select signal source, the device will switch to the selected input signal source.

Display Settings

Start 2 touch menu > System Settings > 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 2 touch menu > System Settings > Sound, to adjust volume, bass, treble, sound output device and so on.

Security and Privacy

Start 2 touch menu > System Settings > Safety and Privacy, to change password, set start-up screen lock, change lock screen password and so on.

The initial password is 888888. The password can be changed after entering initial password in Safety and Privacy settings.

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

Keyboard and input Method

System Settings > Language & Input Method > Current Input Method, the system is provided with an "Android Keyboard".

Language selection

System Settings > Language & Input Method > Language and select the desired language.

Select System Time

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

Screenshot

Press the “Screenshot” key on the remote control or on 2 touch Menu (in the submenu) to take a screenshot. The screenshot picture is stored in the “\Pictures\Screenshots” folder in the local file management.

10. Network Settings

Wireless Network

1. System Settings > WLAN
2. Turn on Wifi 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.

USB 3.0 Wi-Fi USB adapter with hotspot connectivity is included in the package

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

The adapter is designed to be plugged into the following ports: USB 1, USB 2.

Ethernet

There are two LAN network ports on this device, LAN 1 can be used to connect to 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 > 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

- USB 3.0 Wi-Fi USB adapter is connected to IFP.
 - IFP is connected via wired LAN network.
1. Select System Settings > 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. Select encryption type. In case of an open network, no password is required, but any device that finds this network will be able to connect to the WIFI network of this device. In case of WPA PSK/WPA2 PSK encryption, a security password over 8 digits must be entered, and the correct password is required for other devices to connect to this network.
 5. After encryption is selected, the system will automatically configure a password, or it can also enter a password in the password box.
 6. Click “OK” to save settings, this network can be found by other WIFI devices within the range when they search WIFI networks.

11. Troubleshooting

Board fails to work normally

Remote control failure	<ol style="list-style-type: none"> 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. 2. Check whether the battery terminal in the remote control is correctly connected. 3. Check whether remote control needs battery replacement.
Device automatically shuts down	<ol style="list-style-type: none"> 1. Check whether the No signal auto shutdown is set or not. 2. Check whether there has been a sudden power outage. 3. Check whether there is no automatic shutdown.

PC module

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

Touch Function

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

Video Malfunctions

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

Audio Malfunctions

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

12. 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 to use 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 period of 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 (EAN:8592580083365).

13. 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

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

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

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