

User Manual v 2.2

March 2015

MULTI Touch LED LCD Series

TRIUMPH BOARD 55" MULTI Touch LED LCD
TRIUMPH BOARD 65" MULTI Touch LED LCD
TRIUMPH BOARD 70" MULTI Touch LED LCD
TRIUMPH BOARD 84" MULTI Touch LED LCD



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DECLARATION OF CONFORMITY

We TRIUMPH BOARD a.s., Neklanova 122/15, 128 00 Praha 2

Declare under sole responsibility that the product:

TRIUMPH BOARD MULTI Touch LED LCD Series

Model: 55" MULTI Touch LED LCD, 65" MULTI Touch LED LCD
70" MULTI Touch LED LCD, 84" MULTI Touch LED LCD

EANs: 8592580111891, 8592580111907, 8592580111914, 8592580111853

are in conformity of essential requirements of EU directives:

EU Standards
EN 55022:2010
EN 55024:2010
EN 61000-3-2:2006+A1:2009+A2:2009
EN 61000-3-3:2008
EN 55013:2013
EN 55020:2007+A11:2011

In the configuration tested, the EUT complied with the standards specified above.

Place of Issue: Prague

Datum of issue: 25th November 2014



Handwritten signature and a blue rectangular stamp of TRIUMPH BOARD a.s. with company details and a CE mark.

Ing. Ondřej Kryšpín, Chairman of the Board of Directors

1. Product Description

TRIUMPH BOARD MULTI Touch LED LCD Series

TRIUMPH BOARD MULTI Touch LED LCD is fully integrated, professional, multi touch FULL HD/4K* LED LCD. The IR LED optical technology enables six*ten finger touches simultaneously using fingers, stylus or even a pointer.

TRIUMPH BOARD MULTI Touch LED LCD are an effective presentations tool to show pictures, data, presentations, thoughts, ideas and business forecasts interactively. Engage the audience with the presentation with direct control of the computer through the LED LCD MULTI Touch.

TRIUMPH BOARD MULTI Touch LED LCD – no need for a projector! Easy installation! No limitations caused by light conditions! Elegant and stylish appearance!

TRIUMPH BOARD MINI PC6A / PC7A for MULTI Touch LED LCD Series (optional)

TRIUMPH BOARD MINI PC6A / 7A is a powerful, fully integrated personal computer for TRIUMPH BOARD LED LCD MULTI Touch Series.

TRIUMPH BOARD MINI PC6A / 7A is equipped with Intel i5/7 processor, integrated/independent graphics and 4/8 GB RAM, which ensures high power for running current software. 500/1000 GB hard disk provides sufficient capacity for saving and storing user's data.

TRIUMPH BOARD MINI PC6A / 7A is an ideal specification for TRIUMPH CLOUD, MyScript Stylus, RMeasiteach Next generation and Display Note software bundle which are delivered together with the TRIUMPH BOARD LED LCD.

* 84" LED LCD

2. Technical specifications

TRIUMPH BOARD 55“ MULTI Touch LED LCD

EAN:	8592580111891
Screen Type:	TFT LCD/ A Standard/ LED backlight
Resolution:	1920 x1080
Refreshing Sequence:	6 ms, 60 Hz, 1400:1
Display Area:	1209.6(H) x 680.4(V)
Outline Dimension:	1369 x 828 x 102 mm
Package Dimension:	1485 x 980 x 220 mm
Net / Gross weight:	48/64 kg

TRIUMPH BOARD 65“ MULTI Touch LED LCD

EAN:	8592580111907
Screen Type:	TFT LCD/ A Standard/ LED backlight
Resolution:	1920 x1080
Refreshing Sequence:	8 ms, 60 Hz, 4000:1
Display Area:	1428.48 (H) x 803.52 (V)
Outline Dimension:	1591 x 961 x 110 mm
Package Dimension:	1710 x 1140 x 240 mm
Net / Gross weight:	72/92 kg

TRIUMPH BOARD 70“ MULTI Touch LED LCD

EAN:	8592580111914
Screen Type:	TFT LCD/ A Standard/ LED backlight
Resolution:	1920 x1080
Refreshing Sequence:	4 ms, 120 Hz, 4000:1
Display Area:	1538.880 (H) x 865.620 (V)
Outline Dimension:	1713 x 1035 x 98 mm
Package Dimension:	1830 x 1195 x 240 mm
Net / Gross weight:	73/96 kg

TRIUMPH BOARD 84“ MULTI Touch LED LCD

EAN:	8592580111853
Screen Type:	TFT LCD/ A Standard/ LED backlight
Resolution:	3840 x 2160
Refreshing Sequence:	8 ms, 120 Hz, 1600:1
Display Area:	1860.48 (H) x 1046.52 (V)
Outline Dimension:	2005.3 x 1191.5 x 122.9 mm
Package Dimension:	2168 x 1508 x 318 mm
Net / Gross weight:	118/148 kg

Touch System

Sensing Type:	Infrared Transmission (multi-touch)
Response Time:	< 15ms
Response Area:	> ø 5mm
Scan Frequency:	100Hz
Output Coordinates:	32767x32767
Communication Mode:	Full-speed USB
Writing Screen:	Mohs hardness of 7
PC System:	Optional

Inputs and Outputs

HDMI:	3 / 4* (1xHDMI 4K, 1xHDMI MHL, 2xHDMI)
CVBS:	1
R/L(CVBS):	1
Coaxial Digital Audio Output:	1
Audio IN:	3
VGA OUT:	1
VGA IN:	3
RS232	1
Touch OUT:	1
Audio Output Earphone Port	1
USB 2.0:	1
USB 3.0:	1
LAN (RJ45)	1
AC IN:	1
Power:	1

* 84" LED LCD

Sound System

Power Amplify:	2x10W
Sound:	Surround

Power

Power Requirements:	100 – 240 V AC 50/60 Hz
Overall Power Consumption:	< 500 W
Standby Power Consumption:	< 0,5 W

Ambient Condition

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

* 84" LED LCD

TRIUMPH BOARD MINI PC6A for MULTI Touch LED LCD Series

EAN:	8592580111877
Processor:	Intel i5
Graphics:	Integrated Intel® HD Graphics
Sound Card:	Integrated High Definition Audio Stereo
Networking:	Integrated 10/100/1000 Mbps adapted
Memory:	4 GB DDRIII
Hard Drive:	500 GB SATA
WIFI:	802.11 a/b/g/n, 2x2, dual-band WiFi 2,4/5 GHz + Bluetooth 4.0
USB:	4x USB 2.0 and 2x USB 3.0
Lan Port (RJ45):	1
VGA Out:	1
Mini Display Port	1
HDMI Output	1
Audio:	Side Headphone and Mic Ports
Net / Gross Weight:	1,8 / 2 kg

TRIUMPH BOARD MINI PC7A for MULTI Touch LED LCD Series

EAN:	8592580111860
Processor:	Intel i7
Graphics:	Independent Graphics GT745M
Sound Card:	Integrated High Definition Audio Stereo
Networking:	Integrated 10/100/1000 Mbps adapted
Memory:	8 GB DDRIII
Hard Drive:	1000 GB SATA
WIFI:	802.11 a/b/g/n, 2x2, dual-band WiFi 2,4/5 GHz + Bluetooth 4.0
USB:	4x USB 2.0 and 2x USB 3.0
Lan Port (RJ45):	1
VGA Out:	1
Mini Display Port	1
HDMI Output	1
Audio:	Side Headphone and Mic Ports
Net / Gross Weight:	1,8 / 2 kg

Android System

System Version	Android 4.2.1
CPU	ARM Cortex A9 dual-core CPU
GPU	Quad-Core
RAM	1.5G
ROM	8GB

3. Safety Warning

Before using the machine, please read the instructions carefully.

Placement

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

Power Supply

- Please verify compatibility between the voltage value on back shell nameplate and the main power supply voltage value.
- In case of thunderstorm and lightning weather, please unplug power cord and antenna plug.
- When no one is indoors or the machine will not be in use for a long time, please unplug the power cord.
- Please prevent power cord from physical or mechanical damage.
- Please use the special 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 it needs cleaning, please unplug the power cord first.
- Please use a soft, dust-free, dry cloth to wipe the screen.
- Do not use water and spray cleaner to clean the machine.
- Please contact the service center for internal cleaning of the machine.
- Do not display image with high brightness on the screen for a long time

Range of Visibility

- The best distance between eyes of viewer and screen is 5 to 7 times of screen diagonal.
- The best viewing angle between eyes of viewer and listener and screen is within 176 degrees up and down, left and right.

Temperature

- Do not place the machine near an electric radiator or heating unit.
- When moving the machine from a low temperature area to a high temperature area, before connecting the machine to power, please leave the machine idle in the new environment for some time to allow for temperature adjustment, in order to sufficiently diffuse internal condensation prior to powering on.
- The Machine's normal working temperature is 0 ~ 40°C, storage temperature is -20~60°C

Humidity

- Do not expose the machine to the rain, moisture, or places near water.
- Please make sure the indoor environment is dry and cool, the machine's normal working humidity is 10~90%, storage humidity is 10~95%.

Ventilation

- Please place the machine in ventilated places, and ensure machine's good heat dissipation.
- Please ensure ventilation spaces 10 cm on the sides and back, and 20 cm on the top of the machine.

Headphones

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

Standby

- The standby button on the front of machine body will not completely shut off the machine, but only places the machine in standby mode.

Battery

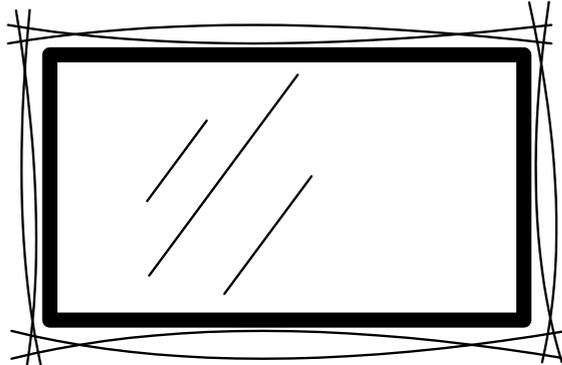
- Please dispose of used batteries in the proper manner and recycle.
- To avoid danger, please do not let children touch the battery, and do not put battery into water.

Caution

- This product is a Level 4 product, and may cause radio interference in the living environment. In this case, the user may be required to take practical measures to mitigate the effects.

4. Preparing for Installation

Unpacking



Accessories

Quick start guide, remote control, batteries, power cords (UK, US, EU), VGA cable, headphone line, USB line, styluses, USB Flash Drive, AV line and VC Camera Bracket.



Quick Start Guide



2x Stylus



Batteries



Remote control



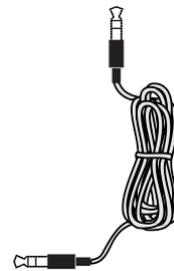
Power Cord (US, UK, EU)



VGA Cable



USB Cable



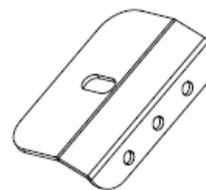
Headphone Cable



AV Cable

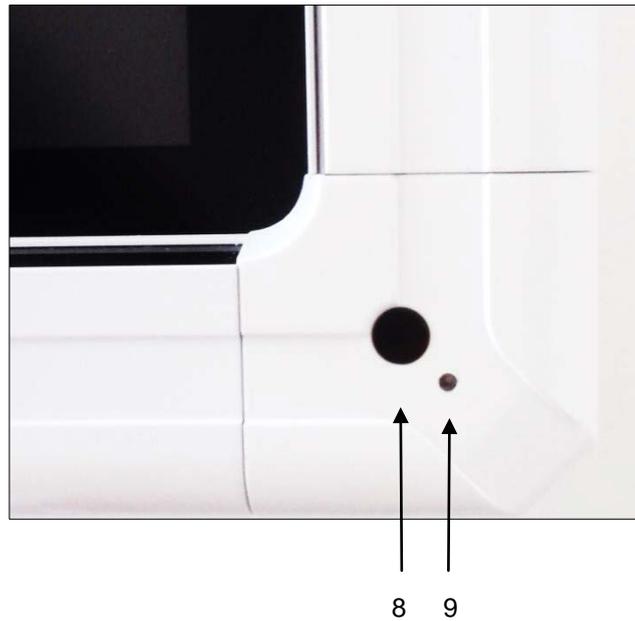
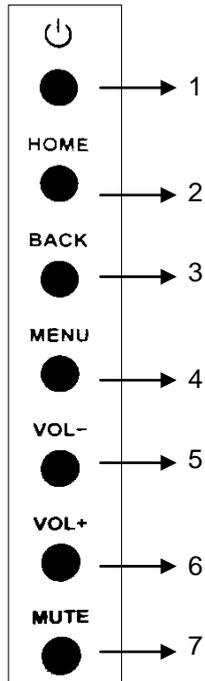


USB Flash Drive



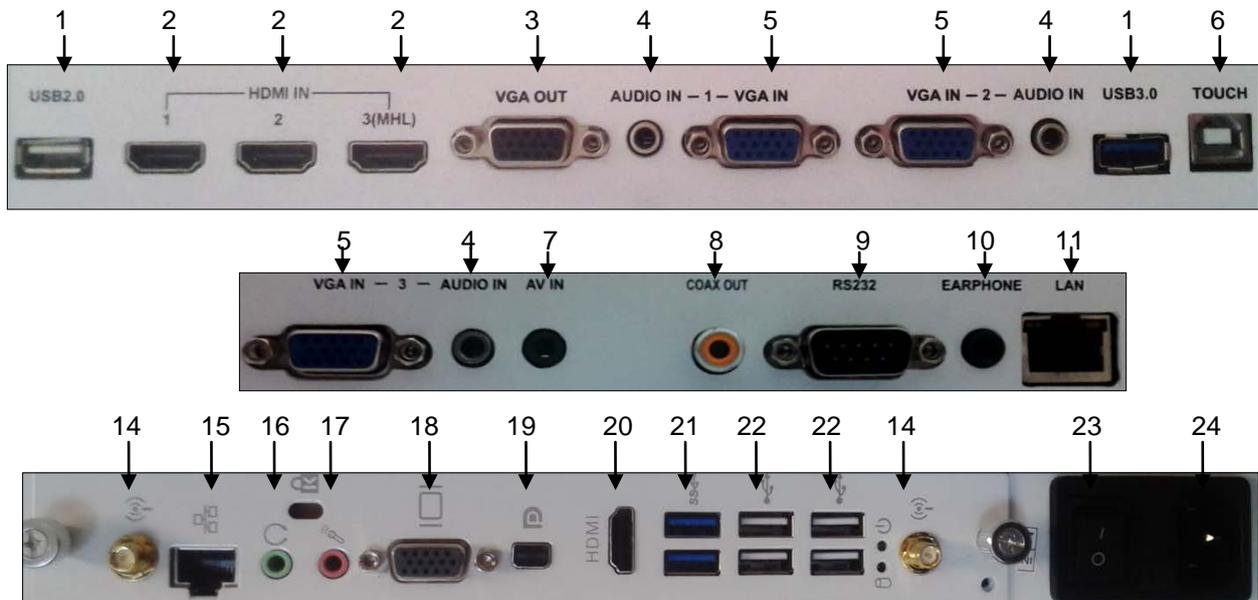
VC Camera Bracket

Control Panel



Number	Item	Function Description
1		Power on/off
2	HOME	HOME button: back to main interface
3	BACK	Return button: return to previous level menu
4	MENU	Menu button: call up function menu
5	VOL -	Volume down button: turn down volume
6	VOL +	Volume up button: turn up volume
7	MUTE	Mute button: mute volume
8	Remote control signal receiver	Receive the remote control signal. After pressing the button on the remote control LED flashes.
9	Power indicator	Indicator color shows the status of power on/off (on - green / standby mode - orange / off - off)

5. Terminal Interface

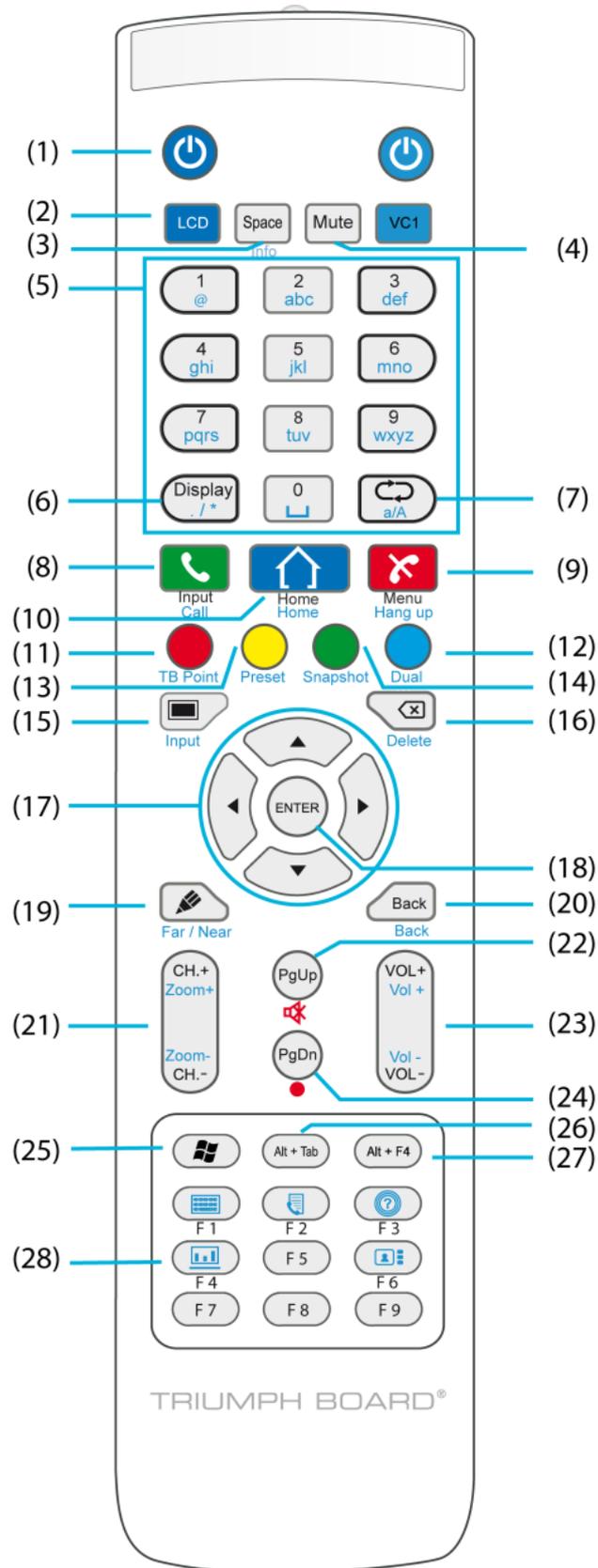


Items	Description of Function
1. USB	Connect USB devices such as mobile hard disk, USB disk, USB keyboard and mouse, USB drives, etc.
2. HDMI IN	High-definition multimedia interface signal input, for connecting to PC (personal computer) with HDMI output, set-top box, or other video device and can also implement touch function (HDMI3 can implement MHL function, HDMI4* can implement 4K/2K *84" LED LCD.
3. VGA OUT	Connected to display devices with VGA input function
4. AUDIO IN	External computer audio input
5. VGA IN	External computer image input
6. TOUCH	External computer touch signal input. Default touch function is available under internal computer. 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)
7. AV IN	Composite video and audio input
8. COAX OUT	Coaxial output
9. RS232	Serial interface, used for mutual transfer of data between devices
10. EARPHONE	Connected to device with headphone input function
11. LAN	LAN interface, connecting RJ45 terminals. (This network port is only used for Android system)
14. (W)	WIFI antenna interface
15. LAN (RJ45)	Network interface, connecting RJ45 port to connect to the Internet. (This network port is only used for PC)
16. EARPHONE	Connected to device with headphone input function
17. MIC	Connect to device with microphone voice collection (used for recording function)
18. VGA OUT	Connection to display device with VGA input function
19. DISPLAY PORT OUT	Connection to device with DisplayPort input function
20. HDMI OUT	Connection to devices with HDMI input function
21. SS →	USB 3.0 interface to connect USB devices, such as mobile hard disk, U disk, USB keyboard and mouse, USB drives, etc.
22. →	USB 2.0 interface to connect USB devices, such as mobile hard disk, U disk, USB keyboard and mouse, USB drives, etc.
23. POWER SWITCH	Power switch, to open and shut down AC power supply "I" is ON, "O" is OFF.
24. AC IN	AC power input, connecting AC power supply

NOTE: In case of no built-in computer, interfaces 14, 15, 16, 17, 18, 19, 20, 21 and 22 are not included.

6. Remote control

Remote control button instructions



Detailed function description of remote control buttons

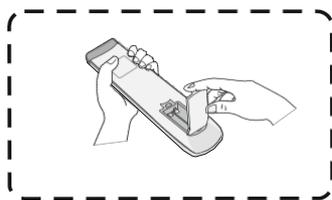
1. : Press this button to enter standby mode when power is on; Click this button to switch on in standby mode
2. LCD: Press this button to control your LED LCD screen.
Note: Your Remote control has been set-up automatically for the function of your LED LCD.
3. SPACE: Built-in computer Space key
4. : Mute switch
5. NUMERIC KEYS: TV digital channels input keys
6. DISPLAY: Display channel information
7. : TV channel return key
8. INPUT: Input signal source selection key, choose different sources according to need
9. MENU: TV OSD menu button, press this button to pop up TV's OSD menu
10. HOME: Android system main screen button
11. RED: TV channel function button
12. YELLOW: TV channel function button
13. GREEN: TV channel function button
14. BLUE: TV channel function button
15. : Single key for blank screen
16. : Backspace key
17. Direction keys
18. ENTER: Confirmation key, press this key to confirm mode selection
19.  Quickly start writing software (TBC Lite in Android), select writing pen quickly if software is running
20. BACK: Return key
21. CH. +, CH.-: Channel switch key
22. PG UP: Built-in computer page (previous page)
23. VOL+,VOL-: Volume switch key
24. PG DN: Built-in computer page (next page)
25. : Built-in computer Windows key
26. ALT+TAB: Built-in computer spacebar Alt + Tab
27. ALT+F4: Built-in computer program window close button
28. F1-F8: Built-in computer F1 – F9 function keys

NOTE: In case of no built-in computer, all function keys related with computer are regarded as having no operating functions.

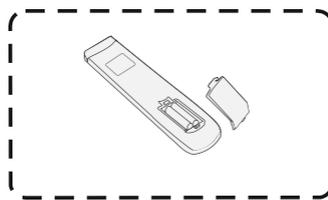
Remote control use instructions

Install Batteries

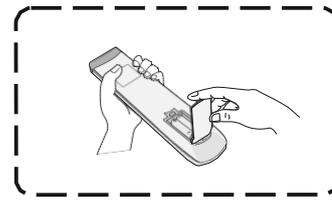
- 1 Open back cover of battery compartment on the back of remote control
- 2 Install AAA type batteries according to the corresponding electrode, make sure battery positive and negative poles are correctly placed ("+" to "+", "-" to "-"), please do not mix old and new batteries
- 3 After batteries are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



(1)

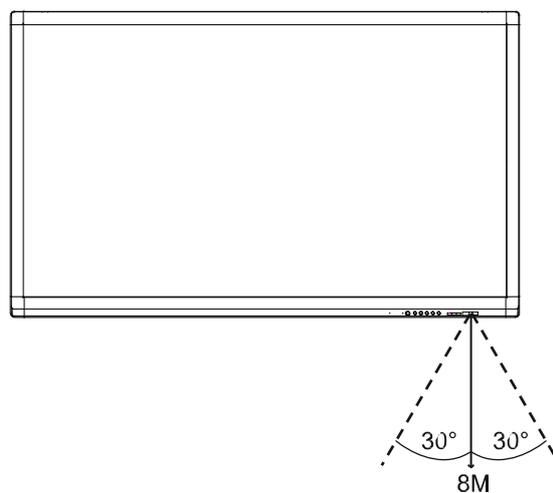


(2)



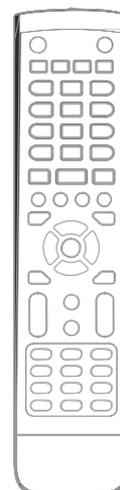
(3)

Range of remote control



Remote control can function normally within the range of 8 meters distance, 30 degrees left and right from the remote control receiver; in order to protect the environment, please dispose waste batteries into a designated recycling box.

CAUTION
RISK OF EXPLOSION IF BATTERY IS REPLACED BY
AN INCORRECT TYPE
DISPOSE OF USED BATTERIES ACCORDING TO THE
INSTRUCTIONS

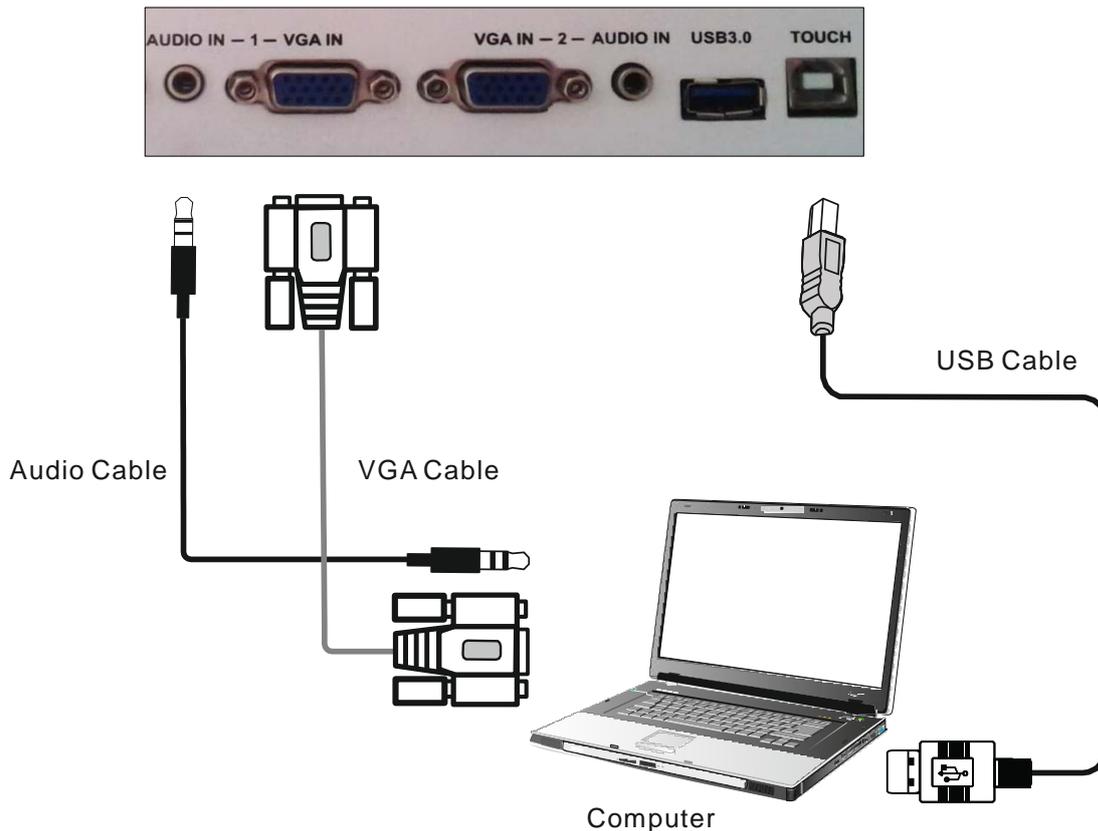


7. Connection and Setting

CAUTION

For the safety of you and the machine, please do not connect any power cord before the external device is prepared.

External Computer and Touch Connection



- (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 USB line to connect to external computer USB port.
- (3) After connection is completed, plug in power cord, and switch POWER to On.
- (4) Start external computer.
- (5) Press \downarrow key, and the equipment is powered on.
- (6) Press the INPUT key to switch to VGA channel.

NOTE:

External computer input, equipment's best resolution is 1920x1080.

External computer can also connect to the equipment through the HDMI cable

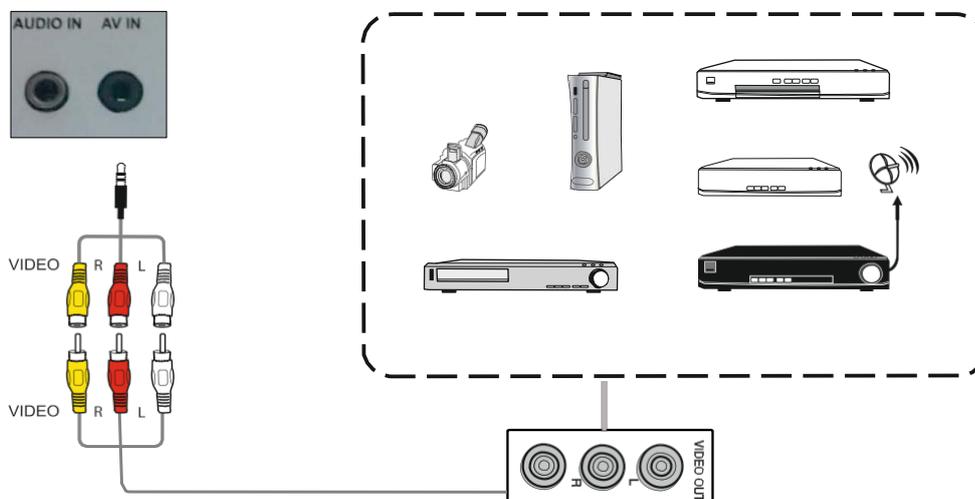
- Recommended computer configuration:

2.0GBHZ Processor, 1GB Memory	More than 256 color display card
1GB Available Hard Drive	Support Resolution 800*600, 1024*768

VGA-OUT/HDMI-OUT, Audio-OUT, USB Interface

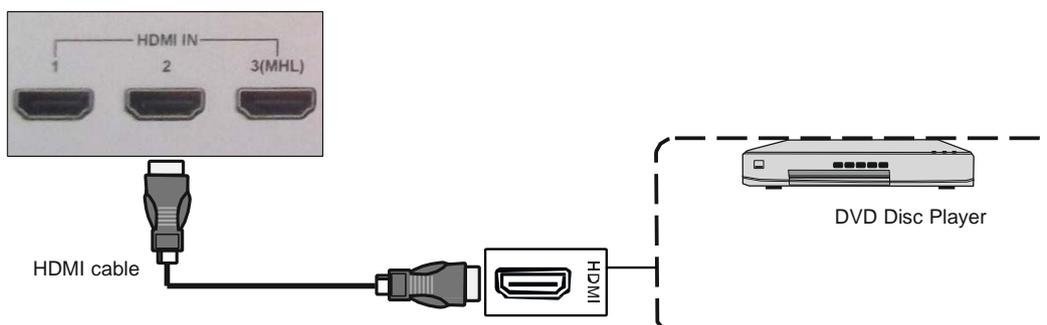
Audio and video equipment

AV



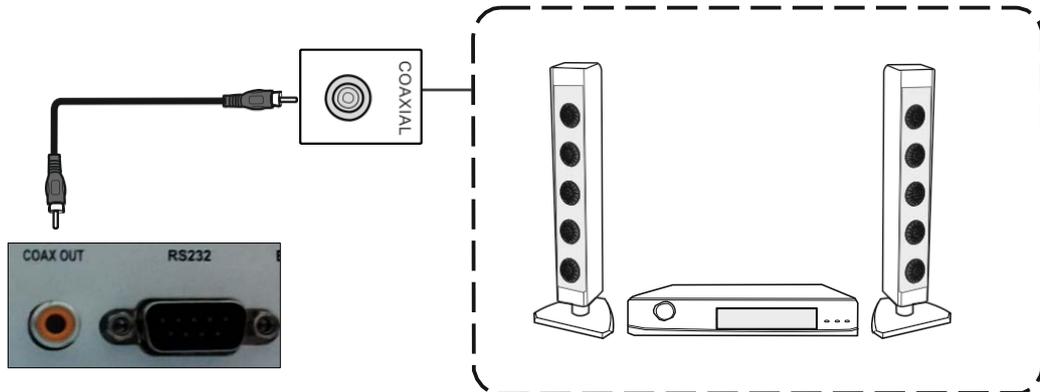
- (1) Use AV audio and video lines to connect audio and video equipment with AV output (yellow for video, red for right sound channel, and white for left sound channel)
- (2) After line connection, plug in power cord, and switch power on
- (3) Press  to turn equipment on
- (4) Press INPUT key to switch to CVBS port

HDMI1 / HDMI2 / HDMI3 (MHL) / HDMI4 (4K2K)* *84 LED LCD



- (1).Use HDMI line to connect audio and video equipment with HDMI output
- (2).After line connection, plug in power cord, and switch power On
- (3) Press  to turn equipment on
- (4).Press INPUT key to switch to HDMI port (HDMI3 channel can realize MHL function, HDMI4 channel can realize 4K*2K)

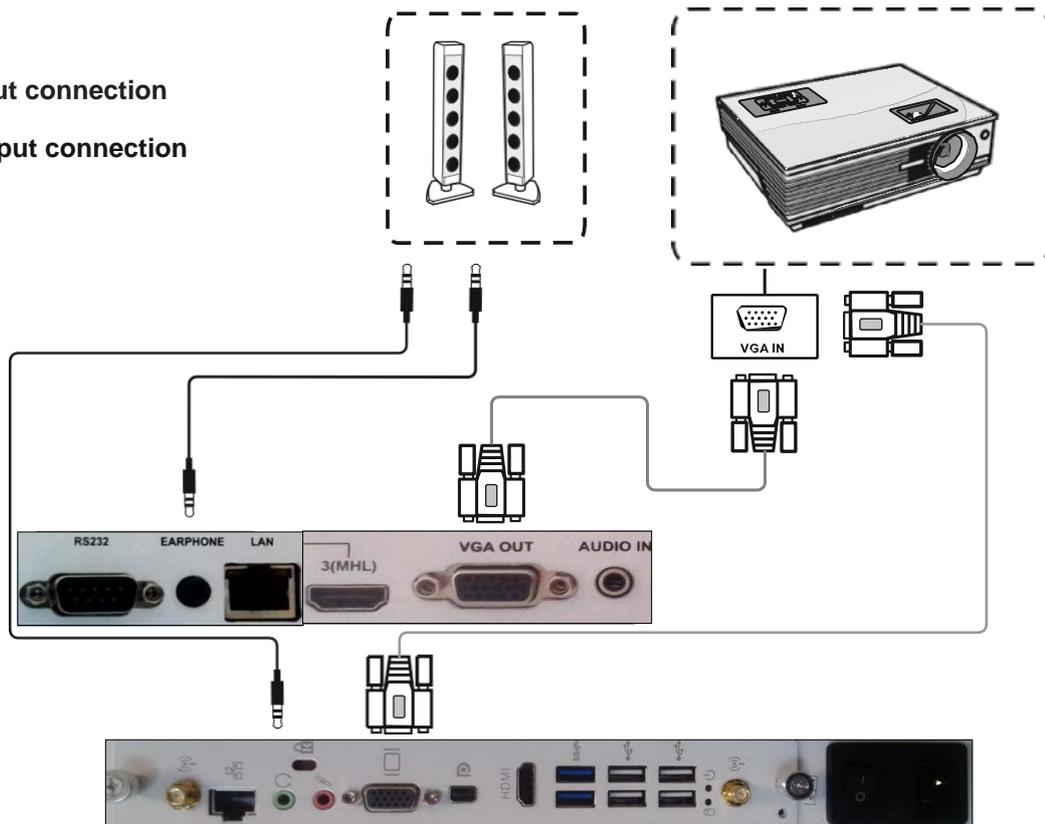
Coaxial connection



- (1). Use coaxial line to connect audio device with coaxial input
- (2). After line connection, plug in power cord, and switch power On
- (3). Press  to turn equipment on

Video output connection

VGA output connection

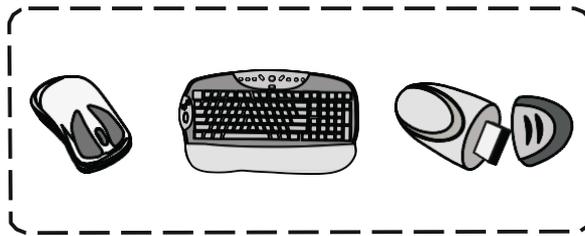


Computer

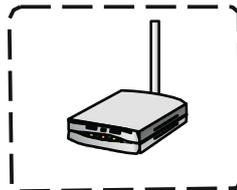
- (1). Use VGA line to connect display devices with VGA input, and use headphone line to connect sound output
- (2). After line connection, plug in power cord, and switch power On
- (3). Press  to turn equipment on
- (4). Press INPUT key to switch to PC port
- (5). Set internal computer as VGA output or multi-screen display TV

Note: VGA OUT of TV outputs VGA IN graphics and sound

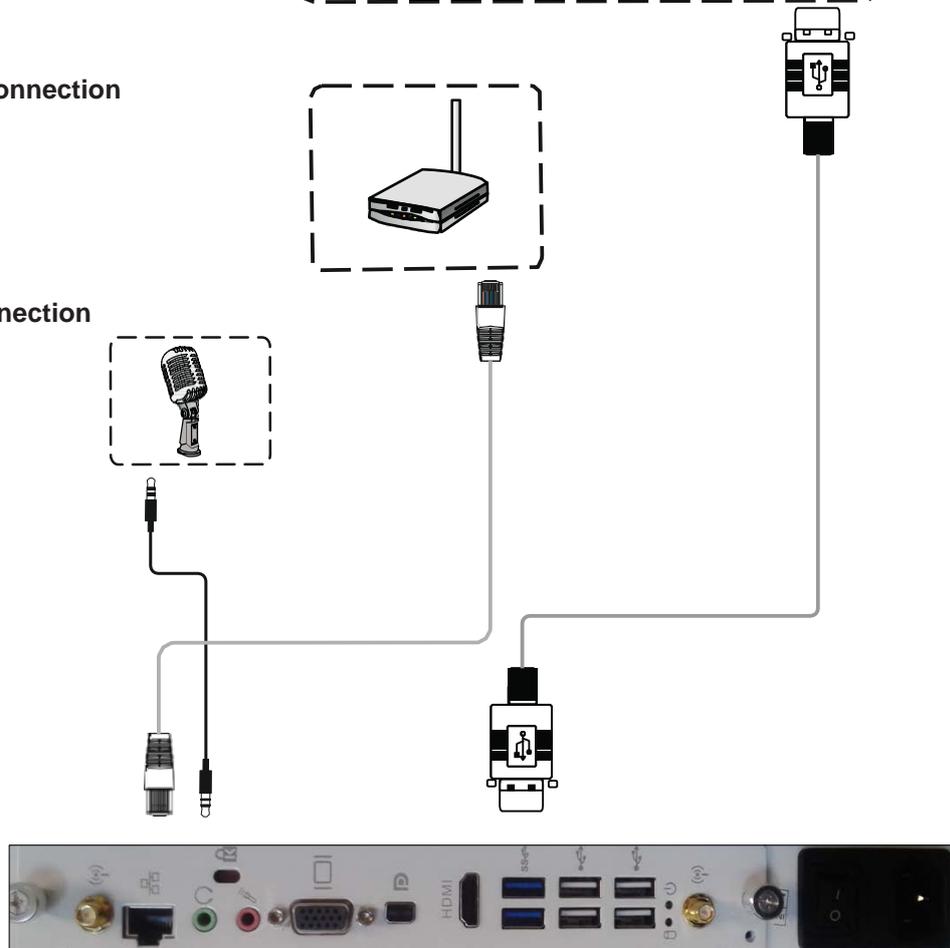
USB Equipment connection



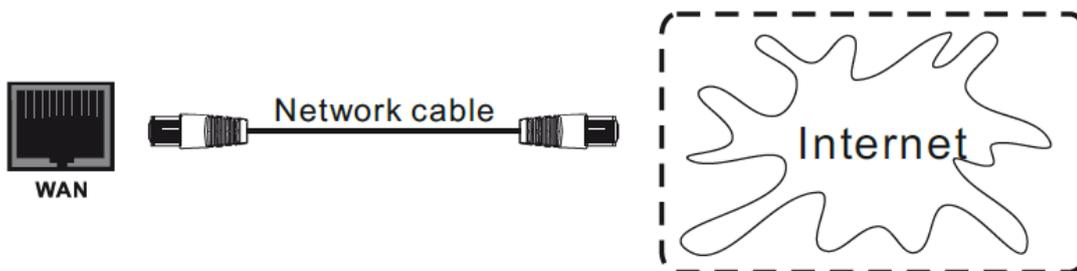
Network cable connection



Microphone connection

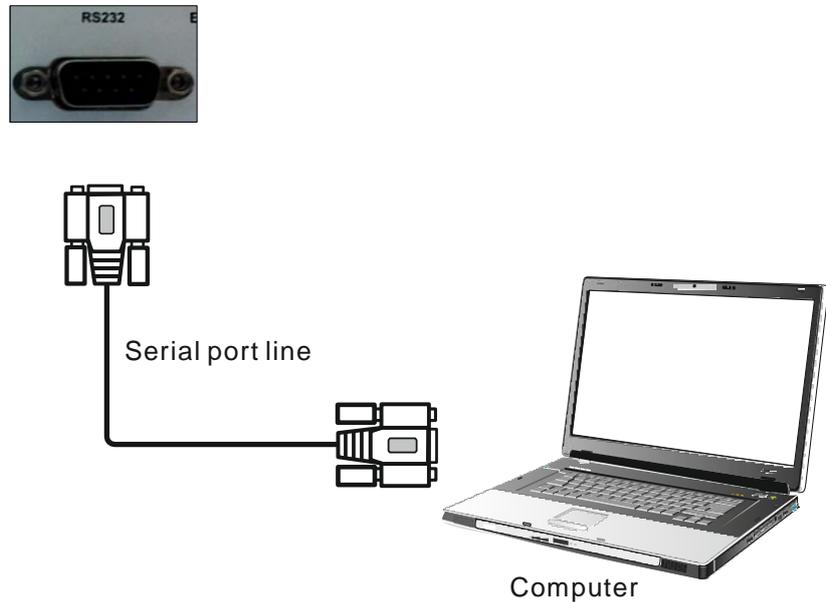


WAN connection



NOTE: If the user wants the built-in computer and android system to connect to the Internet at the same time, Connect item 6 and item 8 at the same time.

USB equipment connection



After using the serial port line to connect central control equipment and the machine, certain functions of the machine can be controlled via the central control equipment, such as: machine ON/OFF, and adjustment of sound volume, etc.

PC part basic operations:

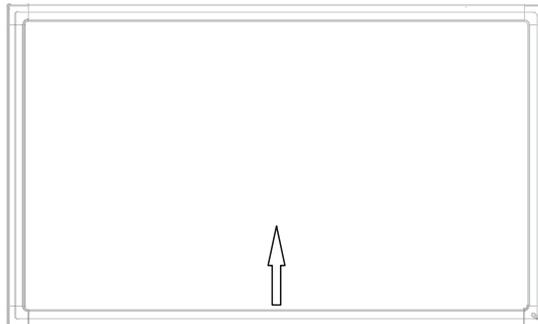
1. In case that TV is on and the computer is not started, press INPUT key to switch from channels other than PC to PC channel, then turn on the computer.
2. When it is on, hold down POWER key for 2 seconds, click to select "Confirm" in the pop-up reminder menu to shut down the TV and computer simultaneously.
3. Under PC channel when it is on, touch to select "WINDOWS" button on the lower left of desktop or press "WINDOWS" key on remote control, and then select "power off" item, to turn off computer without turning off TV.

8. Menu Operation

One Touch menu operation

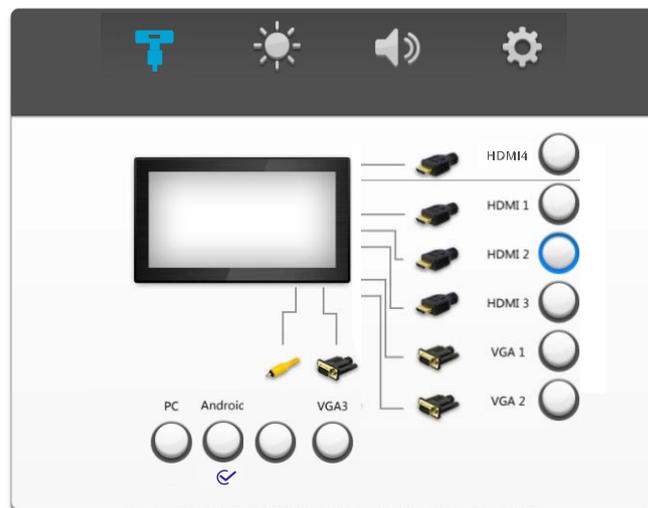
Call up method

Take middle point position on the bottom of display screen as starting point, use finger or stylus to drag towards screen center position to call up touch menu, as shown below.



Setting menu

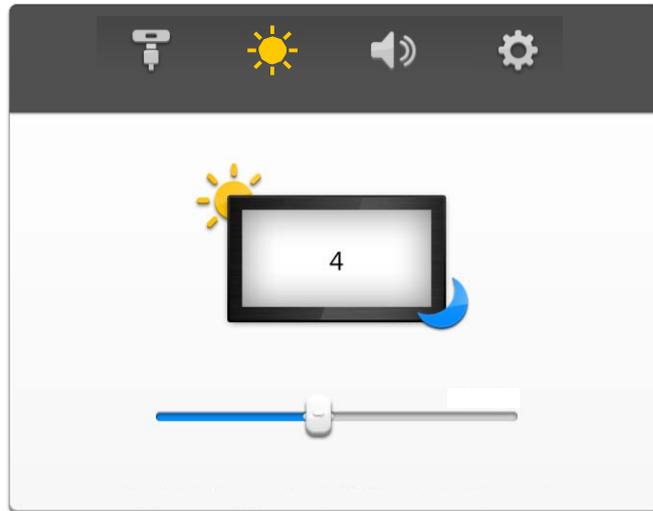
Input setting



- Press INPUT button on remote control or via above “A” touch method to call up Input Setting menu;
- Press ▼/▲/◀/▶ button on remote control to select the channel you need;
- Press the Enter button on remote control, or directly click to confirm selected input channel;
- Press return key on remote control, or click blank area outside menu to exit menu.

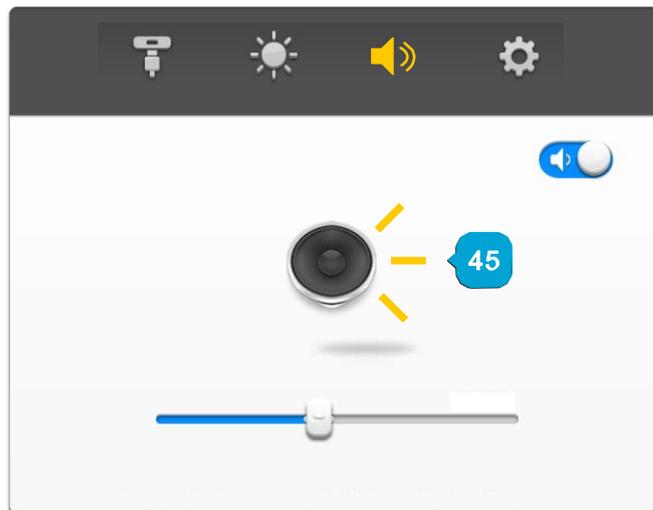
Note: “☑” symbol represents that this channel has been connected to a signal

Brightness settings



- Press INPUT button on remote control or via touch A method to call up Input Setting menu;
- Press ► button on remote control or directly click “Light” icon to enter Brightness setting menu;
- Press ◀/▶ button on remote control or drag brightness adjustment progress bar to adjust brightness;
- Press return key on remote control, or click blank area outside menu to exit menu.

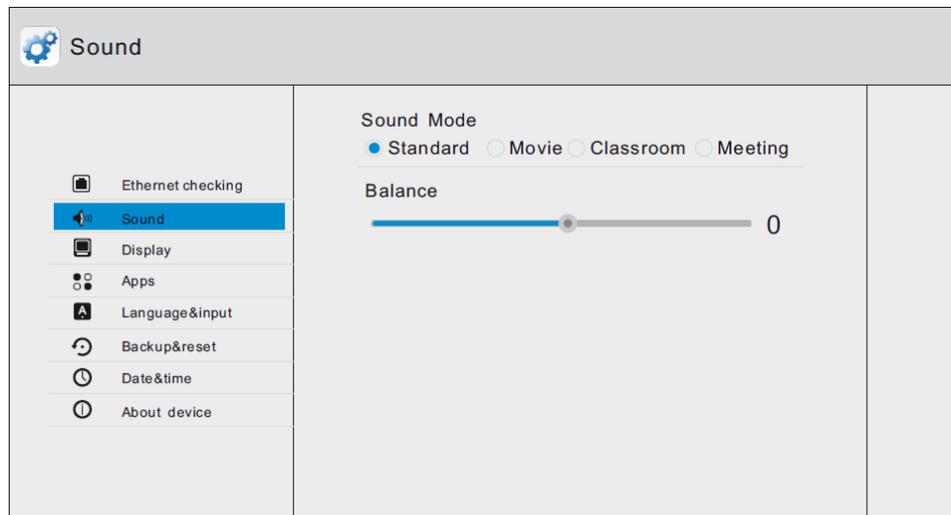
Volume adjustment



- Press INPUT button on remote control or use touch method A to call up the Input Setting menu;
- Press ► button on remote control or directly click “Volume” icon to enter Volume Setting menu;
- Press ◀/▶ button on remote control or directly drag volume adjustment progress bar to adjust volume;
- Press < Mute > button on remote control or directly click mute icon below "More Settings" to open or close mute state;
- Press return key on remote control, or click blank area outside menu to exit menu.

9. More Settings (advanced settings)

Android channel



- Under Android channel, press INPUT button on remote control or via touch method A to call up Settings menu;
- Press ► button on remote control or directly click “More” icon to enter advanced settings menu
- Press ▼/▲/◀/▶ button on remote control or click directly to select each option;
- Press return key on remote control or front panel of equipment to exit menu.

Ethernet checking

View the current network connection status and the network parameters of the device.

Sound

Adjust the volume of equipment (standard model/music mode).

Display

Adjust equipment display brightness/system wallpaper and system font size.

Apps

Display each application in Android system memory.

Language&input

Adjust display language and input method settings of Android system.

Backup&reset

Under Android system, restore factory settings/repair system or restore system.

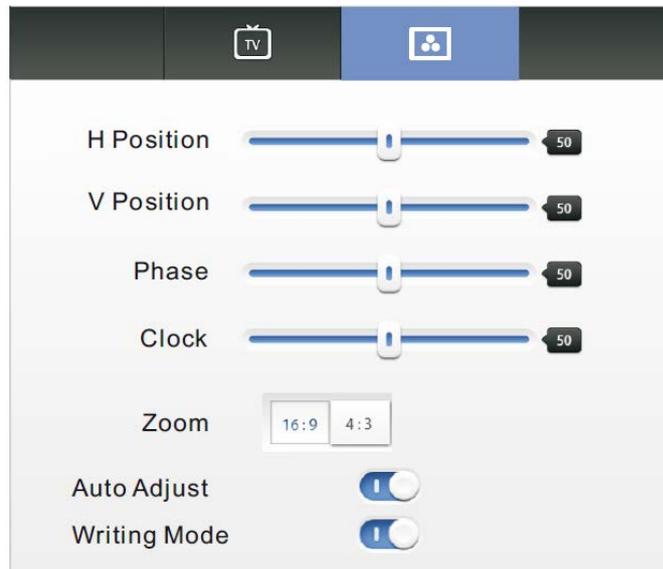
Date&time

Under Android system, set system time and format (time can be automatically obtained or manually set).

About device

Display Android system software version information.

VGA channel



- Under VGA channel, press INPUT button on remote control or via touch method A to call up settings menu;
- Press ► button on remote control under setting menu or directly click “More” icon or directly press Menu on remote control under VGA channel to enter advanced settings menu;
- Press ▼/▲/◀/▶ button on remote control or click directly to select and adjust each option;
- Press return key on remote control, or click blank area outside menu to exit menu.

H position

Press ◀/▶ button on remote control or directly drag icon to adjust horizontal position of image;

V Position

Press ◀/▶ button on remote control or directly drag icon to adjust vertical position of image;

Phase

Press ◀/▶ button on remote control or directly drag icon to adjust phase position of image;

Clock

Press ◀/▶ button on remote control or directly drag icon to adjust clock of image;

Zoom

Press ◀/▶ button on remote control or press Enter button or directly click icon to switch image display ratio;

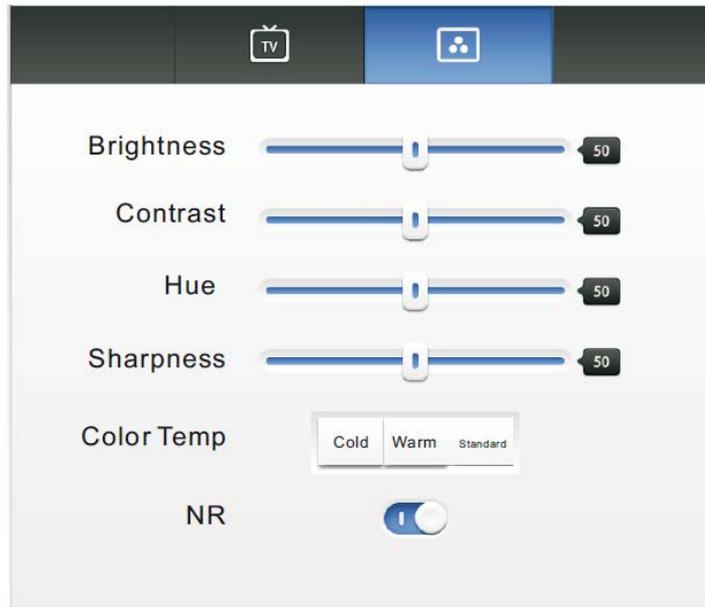
Auto Adjust

Press ◀/▶ button on remote control or directly click icon to automatically adjust horizontal, vertical position/ phase and clock of image;

Writing Mode

Press ◀/▶ button to on/off the writing mode.

Screen Setting



- Under channels other than Android, press Menu button on remote control or via touch method A to call up settings menu;
- Press ► button on remote control or directly click “More” icon or directly press Menu on remote control to enter advanced settings menu;
- Press ▼/▲/◀/▶ button on remote control or click directly to select and adjust each option;
- Press return key on remote control, or click blank area outside menu to exit menu.

Brightness

Press ◀/▶ button on remote control or directly drag icon to adjust brightness of image.

Contrast

Press ◀/▶ button on remote control or directly drag icon to adjust contrast of image.

Hue

Press ◀/▶ button on remote control or directly drag icon to adjust tone of image.

Sharpness

Press ◀/▶ button on remote control or directly drag icon to adjust sharpness of image.

Color Temp

Press ◀/▶ button on remote control or directly drag icon to adjust color temperature of image (Cool color/warm color/automatic).

NR

Press ◀/▶ button on remote control or directly drag icon to open or turn off noise reduction function.

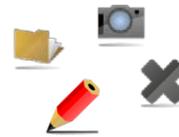
Note: different options in different channels can't be adjusted, please select according to actual situation.

Annotation menu

Fig.1



Fig.2



- Place two fingers on the screen (about 20~50mm spacing) and keep in position more than two seconds under any channel to call up annotation menu (Figure 1);
- In annotation, menu is shown in Figure 2.
- In annotation state, input only by fingers, stylus and remote control cannot perform annotation operation.

	Annotation menu icon	Pop up sub-menu
	Return icon	Click to return to previous operation interface
	Main interface icon	Click to return to main interface of Android system
	Annotation brush icon	Click to make annotation in the picture, click again to change brush color
	TB Comenius Lite	Click to enter TB Comenius Lite software. Screen image will be saved automatically when you close TB Comenius Lite software. Storage location: resource browse/blackboard writing
	Resource browse icon	Click to open resources browse menu
	Screenshot icon	Click for screenshot of current annotation image Screenshot storage location: resource browse/blackboard writing
	Close icon	Click to close annotation menu

10. Android System Interface

Main Interface



- Switch to Android channel to display main interface as show above;
- Press ◀/▶ key on remote control to select icon below, and press Enter key to enter corresponding program, or directly click the associated icon to enter program;
- In any program, press Home button on remote control or <Home key> on front frame of equipment to return to the main interface.

TB Finder	Enter android system resource browser, see page 28
Browser	Enter internet page, see page 29
PIP	Enter picture-in-picture image, see page 30
Settings	Enter settings menu page, see page 22
Apps	Enter settings menu page, see page 31

TB Finder

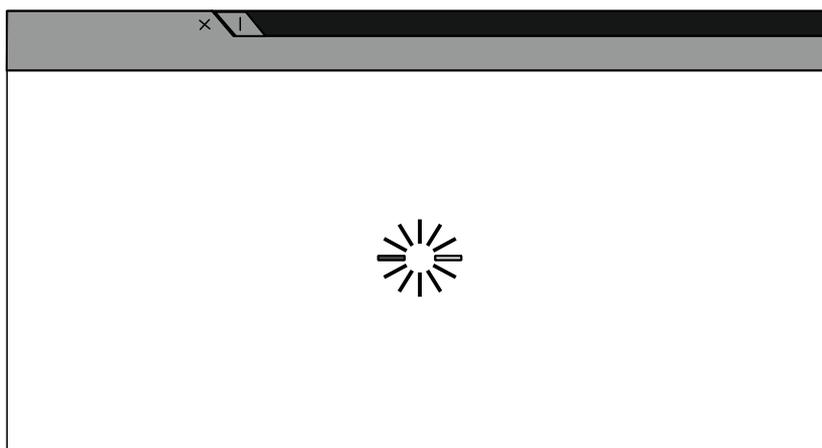
Display files in Android system memory and Android system external storage.



- | | |
|----------------------------------|--|
| 1. Storage device display | Click with touch pen to enter corresponding storage devices area |
| 2. Menu/exit menu | Click menu icon with touch pen to pop up menu options {order (type/size/time)}
Click exit icon with touch pen to directly exit resource browse. |
| 3. File type menu | Documents: OFFICE type files

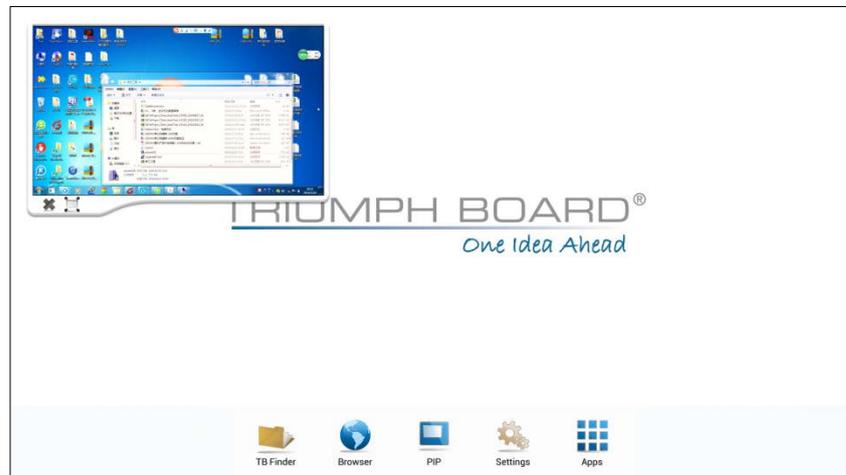
Blackboard writing: images stored by TBC Office Lite and images stored by annotation screenshots
Video: audio and video type files
Image: image type files
Music: audio type files
All: files of all types |
| 4. File operation menu | Can perform basic operations towards file such as select/delete/create/copy/cut |
| 5. File arrangement menu | Divided into two arrangement modes by icon and by list |
| 6. Main display area | Display files of corresponding type in memory card |

Browser



- In connected network state, enter web browsing for surfing the internet, click on "x" symbol in the upper left corner to close it.

PIP



- Enter channel browse to pop up picture-in-picture interface in displayed image;
- Press ▲ button on remote control or directly click picture-in-picture display interface point, to pop up channel selection list of picture-in-picture, press ► button on remote control to move selection cursor into channel list, then press ▼/▲ button to select corresponding channels. When selection cursor reaches the channel you need, press Enter key to play image and sound of related channel on interface, or directly click the channel you need to enter;
- Picture-in-picture interface operation key is shown above.



Click picture-in-picture channel for full screen



Click to exit picture-in-picture interface

Settings

- Shortcut Settings in setting menu, see page 26.

Apps



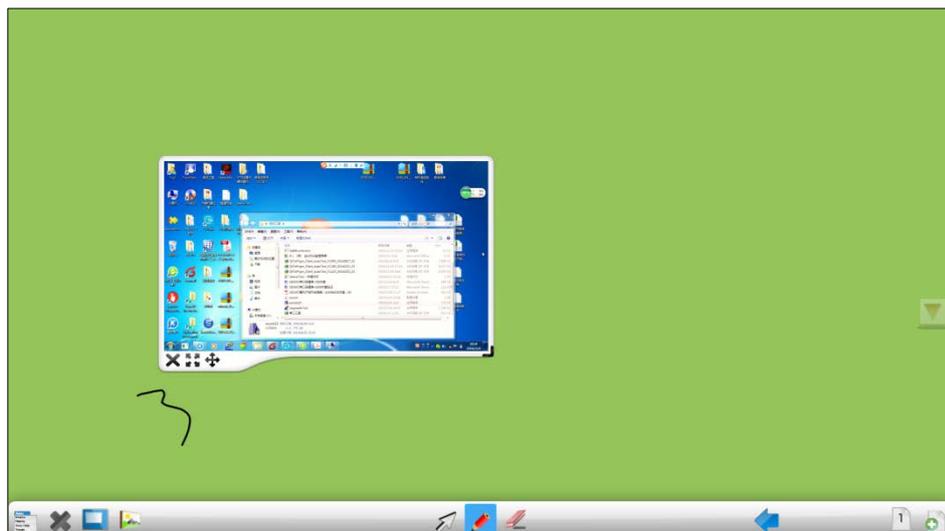
Caution!

Please note that you cannot install your own applications into Apps section!

Each application must be suitable for screen resolution and hardware specifications, as some apps may have display or performance problems!

Browser	See page 29
Settings	See page 22
TB Comenius Lite	See page 31

TB Comenius Lite



	Menu icon	Click to pop up sub-menu (change background/save)
	Exit icon	Click to exit TB Comenius Lite software
	Picture in picture icon	Click to pop up picture in picture interface, see page 30
	Image import icon	Click to import required image from memory card

	Select icon	Click to select Whiteboard writing symbols, can click or check to select
	Brush icon	Click to write, press long for three seconds to enter setting screen, to set brush color and thickness
	Eraser icon	Click to erase writing symbols, can be erased by box selection
	Undo icon	Click to cancel previous step operation
	Redo icon	Click to restore step operation
	Page icon	Display writing page number displayed by current picture
	Add page icon	Click to add a new page of writing image

11. Multimedia File Playback Interface

Image play



-  Close current picture
-  Magnify current picture
-  Reduce current picture
-  Display previous picture
-  Play/pause
-  Play next picture
-  Counterclockwise rotate current picture displayed
-  Clockwise rotate current picture displayed
-  Play setting {Animation effect (on/off)/Slide time interval/Set as wallpaper}

Audio play



- ⊗ Close current audio file
- ⏮ Play previous audio
- ⏪ Play/pause file
- ⏩ Play next audio file
- ☰ Playlist
- 🔄 Loop play
- 🎲 Random play
- 🔁 Single play

Video play



- ⊗ Close current video file played
- ⏮ Play previous video
- ⏮ File Fast backward
- ⏪ Play/pause
- ⏩ Fast Forward
- ⏩ Play next audio file
- ☰ Playlist

12. VC Camera Bracket installation (VC system is not included in the accessory)

Note: You need to have TRIUMPH BOARD Videoconferencing System before you start. Please install the bracket on LED LCD when you unpack the unit, before wall mounting.

1. Attach the bracket at the bottom part of the camera, using 1/4-20, 6mm screw you find with the bracket in the accessory of the LED LCD unit



2. Unscrew top three screws in the top center of the back cover of the LED LCD unit

3. Attach the camera with the bracket using three screws in the top center of the back cover of the LED LCD unit



4. Finally, plug the camera cable from your TRIUMPH BOARD Videoconferencing System.

13. 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.
Machine automatically shuts down	<ol style="list-style-type: none"> 1. Check whether the sleep function is set or not. 2. Check whether there has been a sudden power outage. 3. Check whether there is no signal automatic shutdown.

PC mode

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.
Background has vertical lines or streaks	<ol style="list-style-type: none"> 1. Select automatic correction in menu. 2. Adjust clock and phase position in menu.
Image lack of color, color is incorrect	<ol style="list-style-type: none"> 1. Check whether VGA is not securely connected or has a quality problem. 2. Adjust color and brightness or contrast in menu.
Display format that is not supported	<ol style="list-style-type: none"> 1. Select automatic correction in menu. 2. Adjust clock and phase position in menu.

Touch Function

Touch function invalid	<ol style="list-style-type: none"> 1. Check whether touch driver is installed and started. 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 machine 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 machine.
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 audio line is connected correctly.
VGA output without sound	<ol style="list-style-type: none"> 1. Check whether an external device is connected with headphone cable.

14. Maintenance

Proper maintenance can prevent many early defects; regular, careful cleaning can keep the machine like brand new.

Please unplug power plug before cleaning and maintenance, to prevent electric shock.

Clean screen

Mix a small amount of fabric softener or dishwashing detergent with warm water. Dip a soft cloth into the mixture, and then wring to a semi-dry state. Use this to wipe the screen of the machine. Repeat several times, being careful not to squeeze and liquid into the machine when wiping the machine.



Clean front frame

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

Machine to remain unused for extended period if the machine will not be used for an extended period of time, such as vacation, please make sure to unplug the cord to prevent any possible dangers caused by power surges from lightning.

15. Display mode

1. VGA mode

Resolution / Display mode	Field frequency (Hz)
640x480	60
800x600	
1024x768	60
1280x800	
1920x1080	50
	60

2. HDMI mode

Resolution / Display mode	Field frequency (Hz)
480p	60
480i	
576p	50
576i	
720p	50
	60
1080i	50
	60
1080p	50
	60

16. Repair Service and Contacts

Please contact your local supplier for the warranty and technical service or find all warranty conditions and service partners on our website www.triumphboard.com. For any questions please email us to info@triumphboard.com

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