



User Guide on installation of
TPCAST Wireless Adaptor for VIVE

CONETENTS



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- 2 What's inside the box
- 3 Instructions of main components
- 4 Connection instructions
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- 6 Instructions on erection of PC transmitter
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Scan the code to view installation video of
Wireless Adaptor for VIVE

! The TPCAST wireless adaptor for Head-Mounted Display (HMD) has no cable attached, and it provides full motion and freedom. Please pay attention to safety in the play area during gaming, and take care to not run into objects. Alternatively, you can play under the supervision of somebody else.

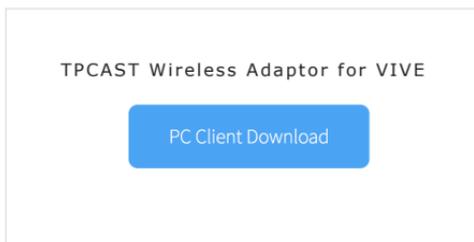
! TPCAST Wireless Adaptor for VIVE and portable power bank will get warm in the normal usage, if the partial temperature reached 120 ℉, please stop using, in order to avoid burning people or other hazards.

1. CLIENT SOFTWARE INSTALLATION

1.Download the software client

Visit the TPCAST official website www.tpcastvr.com, browse to the page of TPCAST wireless adaptor for VIVE, and click to download the connection assistant for wireless adaptor for VIVE. The current version of the client is compatible with Windows 7, Windows 8 and Windows 10.

www.tpcastvr.com



2.Install the connection assistant software

① Double click the icon to run the downloaded the installation .exe file. If you have already installed any other versions of the client, please uninstall and restart the PC according to the prompt.

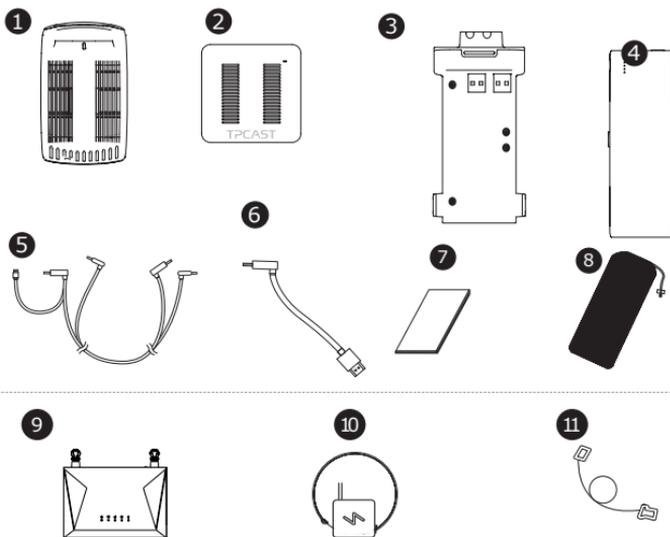


TPCAST
Setup.exe

② Following the system instructions, select the installation path and finish the client installation. A shortcut icon of the connection assistant will be generated on the desktop.

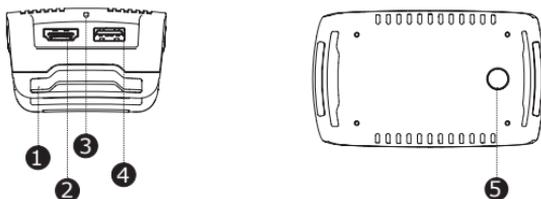
2. WHAT'S INSIDE THE BOX

- ① HMD receiver
- ② PC transmitter
- ③ Power Box
- ④ Portable power bank, 20100mAh
- ⑤ Dedicated cable for long distance connection
- ⑥ HDMI cable for short distance connection
- ⑦ Use instructions and warranty card
- ⑧ Nylon mesh bag
- ⑨ Router
- ⑩ Router power supply
- ⑪ Network cable



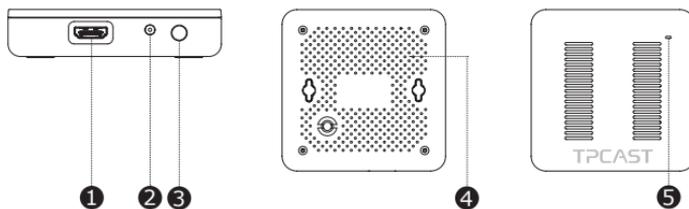
3. COMPONENTS DESCRIPTION

1. HMD receiver



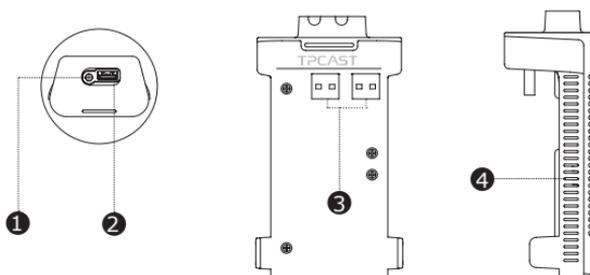
- ① HMD strap and cable port
- ② HDMI short connection port
- ③ Indicator for video signal connection
- ④ USB port
- ⑤ Video link pairing button

2. PC transmitter



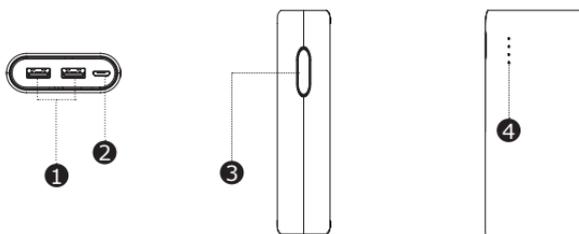
- ① HDMI connection port
- ② DCIN power port
- ③ Video link pairing button
- ④ Port for fixing the platform
- ⑤ Indicator for video signal connection

3.Power box



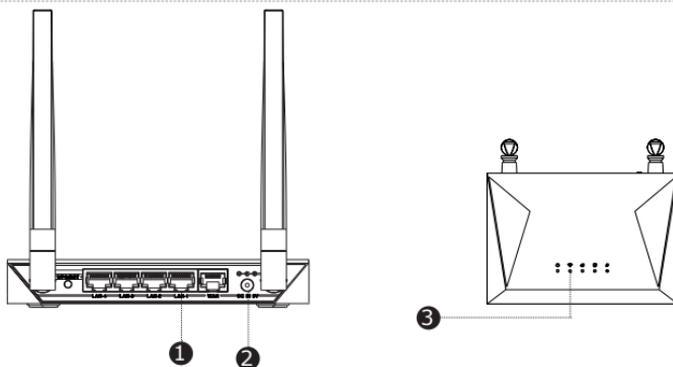
- ① DCIN power port for dedicated long distance connection cable
- ② USB port for dedicated long distance connection cable
- ③ Battery connector, USB port
- ④ Indicator light

4.Portable power bank



- ① USB power output port
- ② Micro USB charging port
- ③ Battery indicator button
- ④ Battery indicator

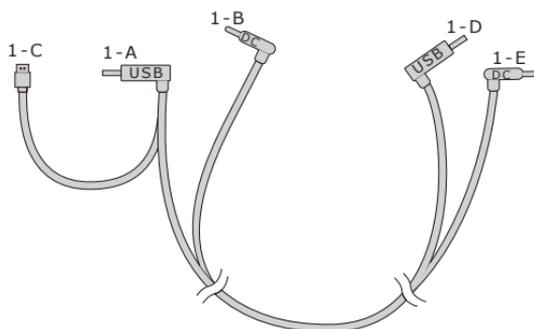
5.Router



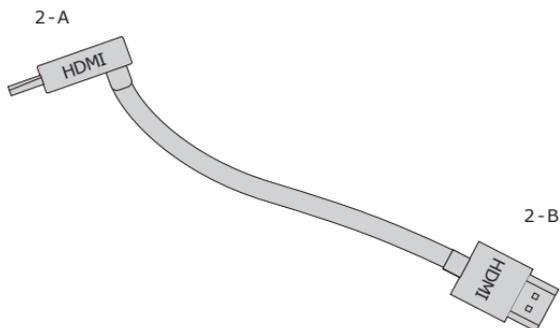
- ① Network cable port
- ② Router power adapter port
- ③ Router status light

6.Cable

Dedicated cable for long distance connection



HDMI cable for short distance connection

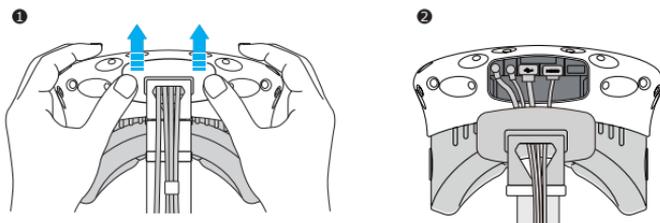


4. CONNECTION INSTRUCTIONS

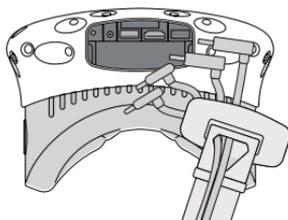
1. Connecting the HMD receiver

Step one: Unplug the connected cables

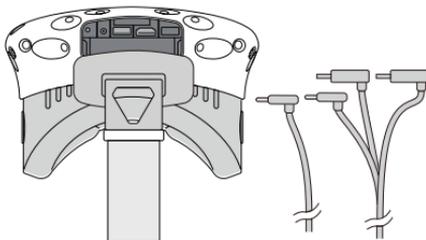
- ① As shown in the figure, open the compartment cover.



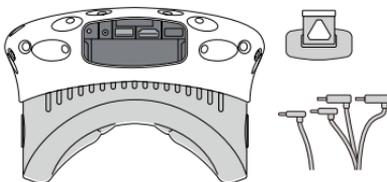
- ② Disconnect the three plugs of the 3-in-1 cable and the audio plug (a total of 4 plugs).



- ③ Pull the 3-in-1 cable and audio cable out of the compartment and the strap to completely separate from the HMD.



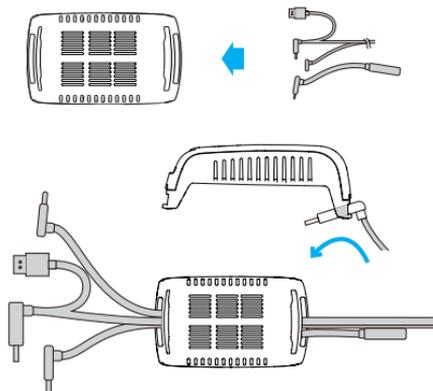
- ④ Separate the strap from the compartment.



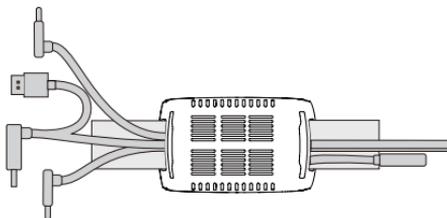
Step two: Fix the HMD Receiver

① As shown in the figure, thread in all three interfaces (1-a, 1-b and 1-c) of the dedicated long distance connection cable and audio cable from the HMD receiver with TPCAST side and out of the other side.

Note: The curved USB plug (1-A) requires some pressure to pass it through the threaded hole.

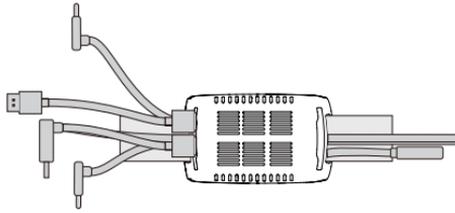


② Thread the separated strap through the HMD cable ports in turn and routed under the dedicated long connection cable, then the receiver end will be fixed on the HMD strap.

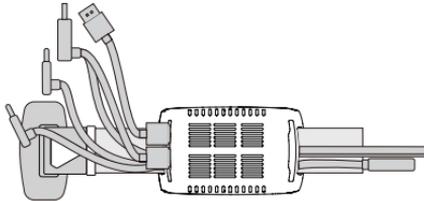


Step three: Cable connection

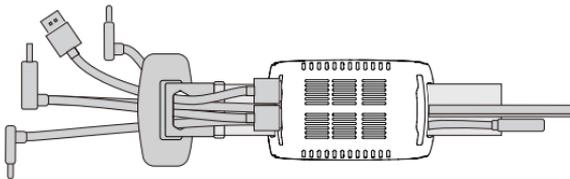
① Plug the 1-C USB plug of the dedicated long-distance connection cable and the 2-B of the short distance connection cable into the USB port and the HDMI port of the receiver respectively.



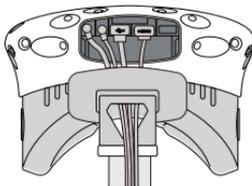
② Reconnect strap to the compartment cover.



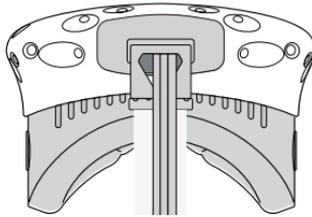
③ Thread the 1-a and 1-b interfaces of long connection cable through the compartment cover cable port, and the 2-a interface of short connection cable as well.



④ In turn plug in these three interfaces into the VIVE HMD power port, USB port, HDMI port and audio connector port.

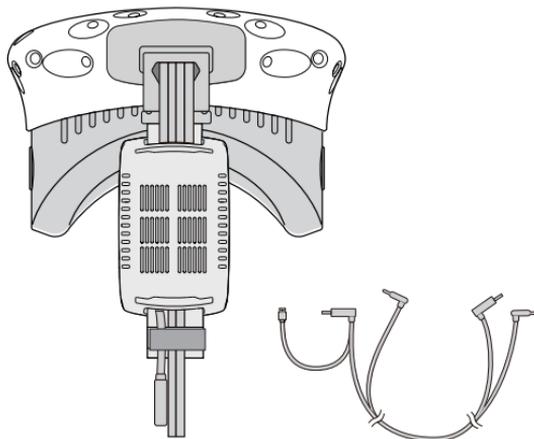


- ⑤ Straighten out the cable, hatch cover back again, it is recommended that you adjust the length of the sliding zone to meet the HMD receiver to the end of sliding zone and the cable still tight.



Step four: Overall adjustment

- ① Slide the 1-D plug of the long-distance connection cable, the 1-E plug, and the audio cable through the two sleeves at the back of HMD and hang on the back.



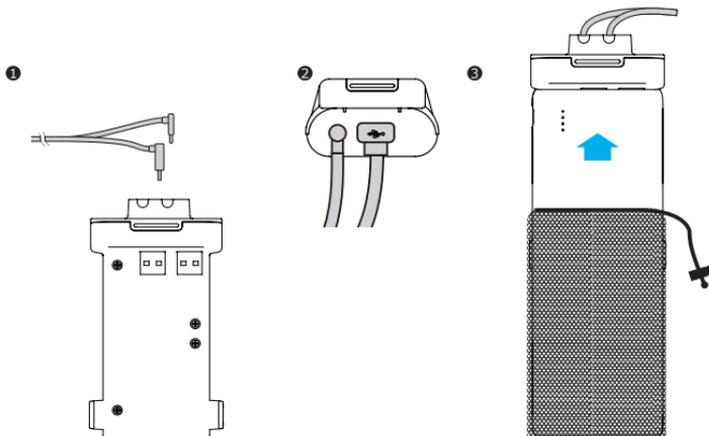
- ② Slide the receiver to the end of the strap, and sort out the cables properly.

2. Power box connection instructions

Step one: As shown in the figure, respectively connect the 1-D and 1-E plugs of the long-distance connection cable to the USB and power supply port of the power box.

Step two: As shown in the figure, plug in the battery to the power box. The blue battery light on the battery turns on to indicate the remaining level. To improve the utilization rate of battery capacity, please only connect to the portable power bank before operation of the product. After the operation, remove the portable power bank.

Step three: Put the installed battery and the power box in a portable pack and string the pack to ensure the power box, does not fall during motion.



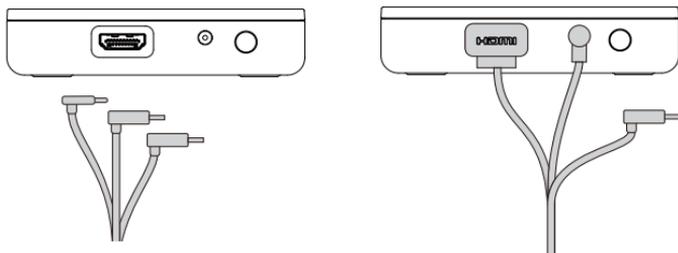
3. PC transmitter connection instructions

Step one: Disconnect power supply for VIVE streaming box.

Step two: As for the existing VIVE 3-in-1 cable detach it from the HMD, plug in the DCIN power plug and the HDMI plug to the corresponding port on the PC transmitter (the USB plug is not

required to be attached).

Step three: Connect power supply for VIVE streaming box.



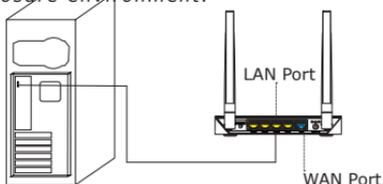
4.Router connection instructions

Step one: Connect the router power adapter and confirm that the power indicator at the front of the panel is on.

Step two: If the PC is connected to the network via the Ethernet port, disconnect the Cable and connect it to the router's WAN port. Connect the LAN port of the router to the PC through the supplied network cable, as shown in the figure.

Step three: In the PC's network connection Settings in a Windows system, select "Local connection" to connect the router, and change the connection of the TCP/IP Settings to automatically obtain an IP address and DNS server address.

Note: Use the router as is, DO NOT modify the router's settings. DO NOT restore the factory default settings. To optimize the user experience, it is recommended to place the router in an open location without obstacles, with a 90-degree antenna. Avoid putting the router under a desk, behind a computer case, or in any other enclosure environment.



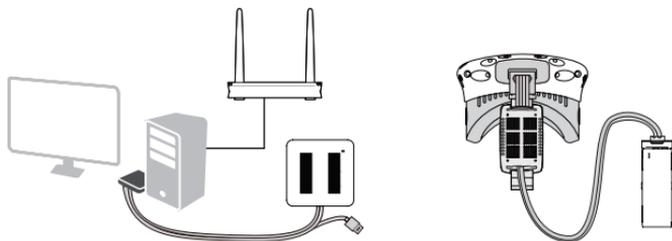
5. OPERATION INSTRUCTIONS

1.Connection verification

Verify that the TPCAST wireless adapter connections are secure and tight including:

- o The HMD receiver,
- o The PC transmitter,
- o The power box,
- o The portable power bank
- o The router

Make sure that the battery is fully charged.

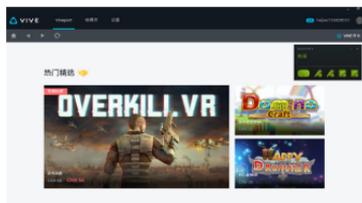


2.Positioning the PC transmitter

The PC transmitter position is crucial to get the right performance and high-quality VR experience. Appropriately Position the PC transmitter needs to be based on the site topology for optimal outcome. Refer to the "Instructions on PC transmitter setup" for details.

3.Run wireless adaptor connection assistant

Double-click the PC desktop client icon, and then click "Start" after the client started. It will automatically test the wireless adaptor working environment, in turn, when the wireless connection starts, please launch the VIVE Port and Steam VR software.

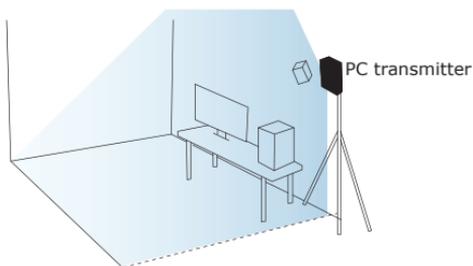


4. Enjoy wireless VR

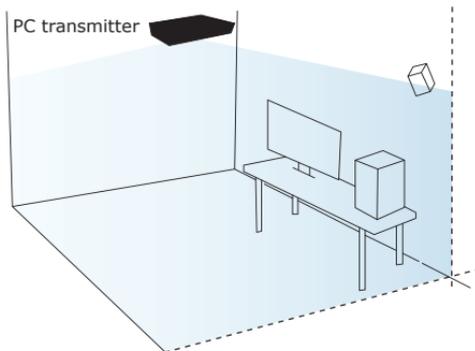
In normal operation of the wireless adaptor, the indicators of both transmitter and receiver will change from fast blinking to normal light mode. The HMD display and control should function normally.

6. POSITIONING THE PC TRANSMITTER

Positioning the PC transmitter is subject to the location and topology of the site, different setup plans will be applied accordingly. It is recommended to place the PC transmitter close to the VIVE laser locator (lighthouse) and point it towards the playing area. As shown below:



If after following the above instructions connectivity is lost, or you are experiencing unpredicted video events, it is recommended to place the PC transmitter above the play area, as shown below:



7. SAFETY PRECAUTIONS

Safety: The TPCAST wireless adaptor for Head-Mounted Display (HMD) has no cable attached, and it provides full motion and freedom. Please pay attention to security and safety in the play area during gaming, and take care to not run into objects. Alternatively, you can play under the supervision of another person.

Cable: to prevent damage to the cables it is suggested not to pull the cable to fetch the devices. If there is a need to unplug the cables, pull lightly from the connector.

Heat rejection: The wireless adaptor generates heat during normal operation, and the temperature may rise. If abnormal temperature occurs, stop activity immediately and contact TPCAST customer support.

Battery safety: The portable power bank as included in the adaptor package is power supply dedicated for this product, you must not replace with any non-TPCAST portable power bank, and any

damage caused accordingly will waive the warranty of the adaptor. In order to mitigate the risk of fire hazard or combustion hazard, please do not disassemble, squeeze the portable power bank and shall not expose the power supply to environment exceeding 60°C, or toss into the fire or water.

Children use: Children are not allowed to use this product. Please keep this product in appropriate locations beyond the reach of children, and do not grant access to children. If elder children are allowed to use this product, please do proceed under the close watch of adults.

Recharging: The battery can be recharged with a regular cellular phone charger, and a charger of 2A is recommended to reduce the charging period. 9~12 hours will be needed to complete a single full charge. A charger of the capacity of more than 2.4A shall not be used for recharging.

Service and maintenance: The adaptor is non-waterproof; therefore, attention should be paid to adequately protect it, including a blower, air duct, etc. should not be used to dry the product in the case it gets wet as the product may get damaged.

- Do not drop or disassemble the adapter, as it can cause an electrical shock or fire.
- Operate and maintain the product in an environment of 14 to 104 degrees Fahrenheit.
- Use the product as directed only and do not connect to any incompatible products.
- Refer to the local regulations on disposal of electronic waste for proper waste management.
- Avoid inserting small objects into the products through the vent openings.
- Do not clean this product with any irritating chemical, detergent, liquid soap or aerosol.

8. FREQUENTLY ASKED QUESTIONS

1.Connection issues

Why always failed the VR control connection tests?

- ① Check the test results and check the power, router whether is properly installed following the instructions, and energize.
- ② If still failed the tests after several try, re-install the portable power bank, router and the reboot the computer if necessary.
- ③ Relaunch the wireless adaptor connection assistant and retry, please contact the customer service if the problem is still not solved.

How to pair HMD receiver and PC transmitter?

- ① When the power is on, the video signal connection indicators on both receiver end and transmitter will start blinking slowly.
- ② Then keep pushing the pairing button on both ends for at least 5 seconds till all indicators are off.
- ③ Ensure there is no obstacles between the transmitter and receiver end and release the pairing buttons. The video signal indicator will return to slow blinking mode after about 5 seconds.
- ④ No more operation and wait for about 10 seconds till the signal indicator change to fast blinking mode which means the pairing is completed. In the second operation, the signal indicator will quickly blink about 10 seconds after the energization.

How to connect the router? And connecting PC to Ethernet?

- ① Use the associated Ethernet cable to connect to the blue port of router and the PC.
- ② If Ethernet cable is used on PC to access to the Ethernet, then connect the existing Ethernet cable to the yellow port.
- ③ If PC access the Ethernet through wireless, please make sure normal operation of existing wireless (or normal access of wireless), then connect to the router through Ethernet cable which is to complete connection to the router without impairing on existing wireless access.

Why router is included in the adaptor package, may I use my own router?

TPCAST Wireless Adaptor for VIVE is globally the first version at the present, and the router is part of the adaptor. We will design built-in router in future products. Currently, this router is customized as well as optimized and exclusively to serve the TPCAST wireless adaptor for VIVE. For the concern of interruption may be imposed on the existing router, we not suggest using the existing router to connect to the TPCAST Wireless Adaptor for VIVE.

2.Abnormal problems during operation

Why frequently controller vibrating or automatic relocation is happening during playing?

Vibrating of manual controller is usually caused by the complicated ambient network condition, or caused by wireless channel jam which impair the wireless signal transmission.

- ① Firstly, check the location of router, we suggest placing on an open table or ground, and avoid locating in the corner, back of computer host as much as possible in order to keep out any obvious obstacle blocking the router and the adaptor. Check is the manual controller vibrating is mitigated.
- ② If not mitigated yet, we suggest you selecting the option of switching channel from the dropdown on the right bottom corner of connection assistant, may try several channels. If the problem is still not solved, please try in a different location.

Everything appears normal on the PC from the connection assistant tests to launching of Steam VR, however, why is there no content playing in the HMD view?

- ① Please check the indicators of receiver and transmitter, if the indicators are off, then check the connection of adaptor for VIVE and power supply. Unplug and re-plug power, wait for at least 10 seconds and the check the indicators again. If both indicators are in fast blinking mode, manually shut off the steam VR, reboot the Steam VR. Try to reboot the computer if the problem is still not solved.
- ② If after 10 seconds, the signal indicator is still in slow blinking mode, as the first priority, please check is there any obstacle blocking the receiver and transmitters, or repair the receiver end and transmitter, refer to section of operation instructions for

details.

- ③ If the indicator light is normally on, please check the receiver of HMD and the HMD short HDMI cable is loose fall off.
- ④ If problem still not solved, please contact the customer service.

After wireless adaptor connection is successful, start Steam VR but it displays unready. Why does all device status icon in Steam VR display as gray?

It can return normal state by restarting VIVE HMD. Operation as below: Unplug and replug power connector (1-B) of VIVE HMD, or unplug and replug power connector of power box (1 - E). If still can't repair, please try to restart the PC.

Why view turn to black/screen turn off?

Off of screen or black screen is caused by the interruption of video transmission, as the first priority, please check the battery charge. If the charge of battery is adequate, it may caused by obstacles between the receiver and transmitter. If the signal indicator is in fast blinking mode, then wait shortly till the reconnected. If still not connected, please disconnect and shut off the connection assistant, reboot the adaptor for VIVE.

Why all of sudden the view turns to completely gray, there is no image at all?

A gray screen view is usually caused by disconnection of VR wireless control, please verify the battery charge, router connection & power supply. Check the connection assistant for any warning information. If disconnection occurred, please retry following the instructions.

System loading error or unable to load occurred in wireless connection assistant, how to handle?

It may be caused by not restarting PC according to prompt after uninstalled wireless adaptor connection assistant. Please uninstall the current client, restart PC, then reinstall client. The issue can be solved.

The connection assistant is used and successfully launched the steam VR, what should I do if sudden disconnection occurred in the middle of gaming?

- ① Check the connection assistant against any warning

information.

② Reconnect as instructed.

③ Waiting during testing procedure and a prompt box saying waiting to restore will pop out after certain period, click to confirm. Wait till the tests completed or click on the option of returning to home page and start testing from the first step.

④ If it still not operating after completion of step three, you may exit the connection assistant and unplug the portable power, reboot the system.

After successful connection of adaptor, why does color disorder and distortion in imaging occur?

Color disorder, blurring and distortion are all cause by abnormal video transmission, please verify all cable/wires used for connection of VIVE and the adaptor for VIVE are original products of HTC and TPCAST. Verify all interfaces against any unstable or loose connection, try to unplug and plug all interfaces for next try. Please contact our customer service if the problem is still not solved.

3.Other questions

Why the camera of my HMD can't work normally?

At present, TPCAST wireless adaptor for VIVE is the global first released version, the function is temporarily unavailable.

Can multiple TPCAST wireless adaptor for VIVE be used in the same area at the same time?

No. Currently, the version of TPCAST wireless adaptor for VIVE is for ordinary users, it temporarily does not support multiple users at the same time.

For a full charge portable power bank, how long can it last?

It can be continuously operating for about 5 hours.

How long will it take to be fully charged?

About nine to twelve hours through a 2A charger or longer with charger lower than 2A. Please do not use charger greater than 2.4A.

Can it be hot-plugged to change power portable supply directly during playing game?

Yes. But abnormal prompt will pop up on Wireless connection assistant for VIVE after changed power portable supply. Please select "Wait to restore", and waiting about 2 minutes, system will restore connection automatically.

How should I do when error code 400 occurred or system prompted "Composer is not available" during using Steam VR?

Please restart PC, and try to run Steam VR again.

Status of indicators

Indicator	Location	Color	Status	Description
Video signal connection indicator	HMD receiver	Green	Off	Power off or system standby
			Slow blinking	To be paired
			Fast blinking	Successfully paired with the transmitter
			Normal light	Video in transmission
Video signal connection indicator	PC transmitter	Green	Off	Power off or system standby
			Slow blinking	To be paired
			Fast blinking	Successfully paired with the transmitter
			Normal light	Video in transmission
Power box lamp	Power box	Red	Off	Power off
			Blinking/normal light	System in normal operation
Battery charge lamp	Portable power bank	Blue	Normal light	Each stands for 25% charge

Please read the user guide before operating the product.

Update the soft copy of the user guide on a regular basis to improve the accuracy and completeness. The latest version can be found at www.tpcastvr.com

TPCAST customer service: 1-888-466-2479