



## PICO 4 ALL in One VR Headset 128GB Walking Dead 1 and 2 Bundle User Guide

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**PICO 4 ALL-in-One VR Headset 128GB Walking Dead 1 and 2 Bundle**



## Product Information

### PICO 4 Software

- The PICO 4 software allows for various functionalities and features of the product.

### PICO 4 Controllers

- The PICO 4 controllers are lightweight and compact, weighing 185g (including battery) or 140g (excluding battery). The dimensions of the controllers are 146mm (L) x 75mm (W) x 119mm (H).

### Controller Upgrade

- The software enables users to upgrade the firmware of the controller to the latest version.

### Controller Unbinding and Pairing

The controller can be unbound and paired with other devices for seamless connectivity.

### PICO 4 Controller Indicator Light Status

- **Off: Connected** or powered off
- **Steady blue light:** Firmware upgrade mode
- **Blinking Blue Light:** Connecting
- **Slowly alternating red and blue light:** Waiting for pairing

### PICO 4 Controller Function Buttons

- Joystick
- Menu
- Home button
- Power on: Short press
- Power off: Long press for 6 seconds
- Return home screen: Short press
- Screen recentering: Press for 1 second
- Status Indicator
- Grip
- Capture
- Trigger
- Battery Case
- Open: Slide down the toggle and pop up the battery case.
- Lock: Push the battery case to lock.

- Tracking Ring: Do not block during use.

### **Dry-Cell Battery Leakage**

It is advised to use 1.5V alkaline dry-cell batteries from reputable brands to prevent leakage. Remove batteries from the controller if it is not being used for an extended period. Carbon dry-cell batteries are not recommended as they are prone to leakage and may affect the normal use of the controller.

### **Strange Sound when Gripped Hard**

The PICO 4 controller does not have screws in its assembly.

Squeezing it hard may cause the casing to rub against itself and produce a sound. This does not affect the functionality of the controller, and it can be used normally.

### **PICO 4 Hardware PICO 4 Headset Dimensions**

The front piece of the headset measures 163mm (L) x 80mm (W) x 60mm (H), not including the foam padding. When worn, the dimensions vary depending on the strap tightness:

- Strap fully tightened: 255mm (L) x 195mm (W) x 106mm (H), includes foam padding, wings, battery compartment, and strap.
- Strap fully loosened: 310mm (L) x 195mm (W) x 106mm (H), includes foam padding, wings, battery compartment, and strap.

### **PICO 4 Headset Function Buttons – Power Button**

- Switch on: Press and hold for 2 seconds
- Switch off: Press and hold for 5 seconds
- Reset: Press and hold for 10 seconds
- Short press for sleep mode when powered on

### **PICO 4 Power Button Indicator Light Status**

- Blue light: Booting up or in operation
- Yellow light: Charging, less than 98% charged
- Red light: Charging, less than 20% charged
- Greenlight: Fully charged, more than 98% charged, or fully charged
- Flashing blue light: Shutting down
- Flashing red light: Battery below 20%
- No light: Sleep mode or switched off
- White light: Firmware upgrade in progress

**PICO 4 Not Recognizing Portable Hard Drive** If the PICO 4 does not recognize a portable hard drive, please ensure that the hard drive is compatible with the device and properly connected. You may need to check the device's manual or contact customer support for further assistance.

## **PICO 4 Controllers**

### **Dimensions and weight of controllers**

The weight of the controllers is 185 g (incl. battery)/140 g (excl. battery) and the dimensions are 146 (L) x 75 (W) x 119 mm (H).

### **Controller Upgrade**

Software to upgrade the firmware of the controller to the latest version

- This software is in [Settings – Controller – Update]. When the user puts on the headset /turns it on for the first time, there will be a pop-up if a new version is available.

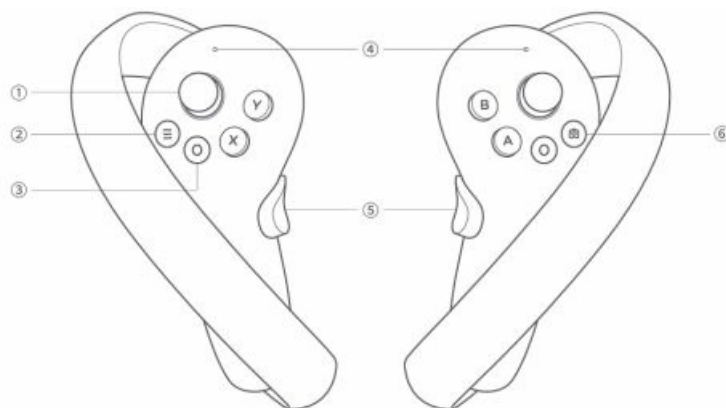
## Controller unbinding and pairing

- On the rightmost side of the navigation bar on the main menu, select [Time] -> small cog in the upper-right corner -> Controller -> 'i' in the upper-right corner -> Unbind.
- On the rightmost side of the navigation bar on the main menu, select [Time] -> small cog in the upper-right corner -> Controller -> 'i' in the upper-right corner -> Pairing -> Simultaneously press and hold the trigger and Home buttons to pair controller.
- If both controllers are disconnected/unbound, you can use the headset controls:
- **Volume up** -> Select
- **Volume down** -> Home

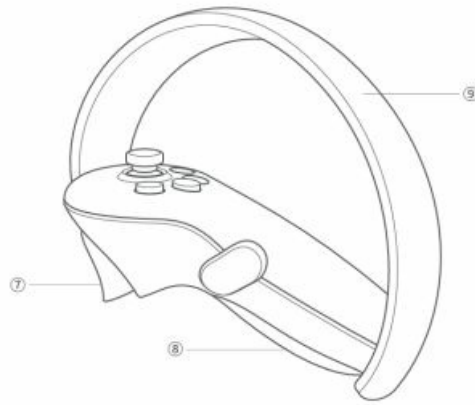
## PICO 4 Controller indicator light status

- **Off:** Connected or powered off
- **Steady blue light:** Firmware upgrade mode
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## PICO 4 Controller function buttons



1. Joystick
2. Menu
3. Home button
  1. **Power on:** Short press
  2. **Power off:** Long press for 6 seconds
  3. **Return home screen:** Short press
  4. **Screen recentering:** Press for 1 second
4. Status Indicator
5. Grip
6. Capture



7. Trigger

8. Battery Case

1. **Open:** Slide down the toggle and pop up the battery case.

2. **Lock:** Push the battery case to lock.

9. Tracking Ring Do not block during use.

### **The dry-cell battery of the PICO 4 controller is leaking**

- Dry-cell batteries in the controller may leak under extreme circumstances. Use 1.5V alkaline dry-cell batteries from reputable brands if possible and remove batteries from the controller if it is not being used for an extended period.
- We strongly recommend you not use carbon dry-cell batteries in the controller. We recommend against using carbon dry-cell batteries, which are prone to leakage and may affect your normal use of the controller.

### **The PICO 4 controller makes a strange sound when it is gripped hard**

- No screws were used in the assembly of the controller. Squeezing it hard will cause the casing to rub against itself and produce a sound. This does not affect the functionality of the controller, and you can continue to use it normally.

## **Hardware**

### **PICO 4 Headset dimensions**

- The front piece of the headset measures 163 (L) x 80 (W) x 60mm (H), not including the foam padding.
- Dimensions when worn:
- Strap fully tightened: 255 (L) x 195 (W) x 106mm (H), includes foam padding and wings, includes battery compartment and the strap when worn.
- Strap fully loosened: 310 (L) x 195 (W) x 106mm (H), includes foam padding and wings, includes battery compartment and the strap when worn.

### **PICO 4 Headset function buttons – power button**

- Power button
- Switch on: Press and hold for 2 seconds

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#### **PICO 4 Power button indicator light status**

- Headset status indicator lights
- Blue light: Booting up or in operation
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- No light: Sleep mode or switched off
- White light: Firmware upgrade in progress

#### **The PICO 4 does not recognize a portable hard drive**

- To improve PICO 4 safety, we have implemented a protection mechanism with the Type-C port, restricting its current output to within the USB 2.0 specifications of 500mA. An external power source is required if the current required by the portable hard drive is greater than that available from the VR device. We recommend using a docking station adaptor to provide an external power source.

#### **What accessories are included in the PICO 4 package?**

- **Glasses Spacer:** if you have glasses collision with the headset lens or pressure on the bridge of the nose, you can install the Glasses Spacer.
- **Nose Pad:** If you feel light leaking from your nose, you can install the Nose Pad to block the light. Two Controller Lanyards: you can wear the lanyards to prevent throwing away the controllers during gameplay.

#### **PICO 4 Device temperature range**

- The working temperature range is 0°C – 35°C. The optimum temperature is around 22°C.

#### **Lenses**

##### **PICO 4 Lenses information**

- Lens material -> Pancake optical solution, PMMA materials, scratch-resistant coating
- Field of View (FOV) ->FOV 105
- Display material -> LCD
- Screen size -> 2.5" x2; 4320×2160; PPI: 1200; PPD: 20.6
- Refresh rates -> 72Hz/90Hz.

## How to deal with image trailing when using the PICO 4 in low temperatures?

- If image trailing occurs when using the device in a low temperature environment (below 10 degrees Celsius), try reducing the screen refresh rate (Settings > Lab > Turn off 90Hz). This should reduce image trailing. Avoid using in low-temperature environments for the best experience.

## PICO 4 Green glare when the screen is switched off

- When the screen is switched off, external light can enter the human eye from multiple reflections on the front and back of the lens. This manifests itself as green glare, due to the high reflectivity of green light.

## PICO 4 Optical ripples

- Ripples in text-heavy environments when the user shakes their head can not be fully eliminated due to limitations in optics technology and lens coating materials. This does not hinder the VR device's overall gaming or video viewing experience.

## PICO 4 Lens glare/ghosting problem

- Ghosting is a constant challenge for manufacturers of optical devices (mobile phones, cameras, etc.). Ghosting on a screen or lens occurs due to multiple reflections when too much light enters a display device and is a normal phenomenon in all-optical devices.
- Despite the use of pancake lens technology in PICO 4, which is thinner and offers better-viewing results, reflections (ghosting) can't be completely eliminated. We continue to work to mitigate ghosting with improvements in material and technology.

## Does PICO 4 support myopia adjustment?

- No, but PICO 4 is designed to accommodate most prescription glasses. Make sure to wear the VR headset in a manner in which the VR headset lenses do not rub or impair your prescription lenses.

## Does PICO 4 support interpupillary distance (IPD) adjustment? What is the fit range?

- PICO 4 supports interpupillary distance (IPD) adjustment (62mm-72mm). You can adjust the IPD in "Settings">"Display". Please note that using inappropriate IPD may increase the risk of discomfort. Do not forcibly move the lens barrel to avoid damage to the VR headset!

## PICO 4 Display settings

1. Brightness adjustment:
  1. **Method 1:** Quick Settings on the right side of the dock > adjust brightness.
  2. **Method 2:** Settings > Display > Brightness Adjustment
2. Eye protection mode:
  1. Lower the blue light from the screen to reduce eye strain. Pathway: Settings > Display > Eye Protection

### **How to deal with mild dizziness and discomfort using PICO 4?**

Prolonged use may cause dizziness or eye fatigue. It is recommended to take a break every 30 minutes. Try relieving your eyestrain by looking at distant objects. If you feel any discomfort, stop using the product immediately. If discomfort persists, seek medical advice.

## **Battery**

### **PICO 4 Battery capacity and endurance**

- The battery capacity is 5300mAh, with a battery life of more than 2 hours for normal use.
- The use of demanding applications with high refresh rates and high brightness (demanding games, videos, or screen recording) can reduce the battery life to around 1.5 hours.

### **To improve battery life, we recommend:**

- Increasing the size of the safety zone (Quick Settings – Play Boundary).
- Reducing the speed at which the color step is activated (Settings – General – Play Boundary – Speed sense).
- Reduce distance sensitivity (Settings – General – Play Boundary – Distance Sensitivity).
- Use the battery saving mode (Settings – LAB – Power Management – Battery Saver).
- Reduce brightness (Settings – Display).
- Controllers use 1.5V AA batteries, which can meet the use time of about 80 hours.

### **PICO 4 Battery charging**

- We recommend charging the PICO 4 when not in use, which will take around 1 hour using QC3.0/PD3.0 fast charging.
- If charging while in use, please note that the charging speed will be reduced to ensure safety, which may cause charging to be slow or stop completely.

### **PICO 4 Headset switches off very quickly after displaying a low battery alert**

- In high power usage scenarios such as 3D video playback and gaming, battery voltage may drop to shutdown levels when battery levels are low. This prevents the battery from completely discharging and triggers shutdown protection.

## **Software**

- How to screen cast PICO 4 to a phone or tablet

### **Function description**

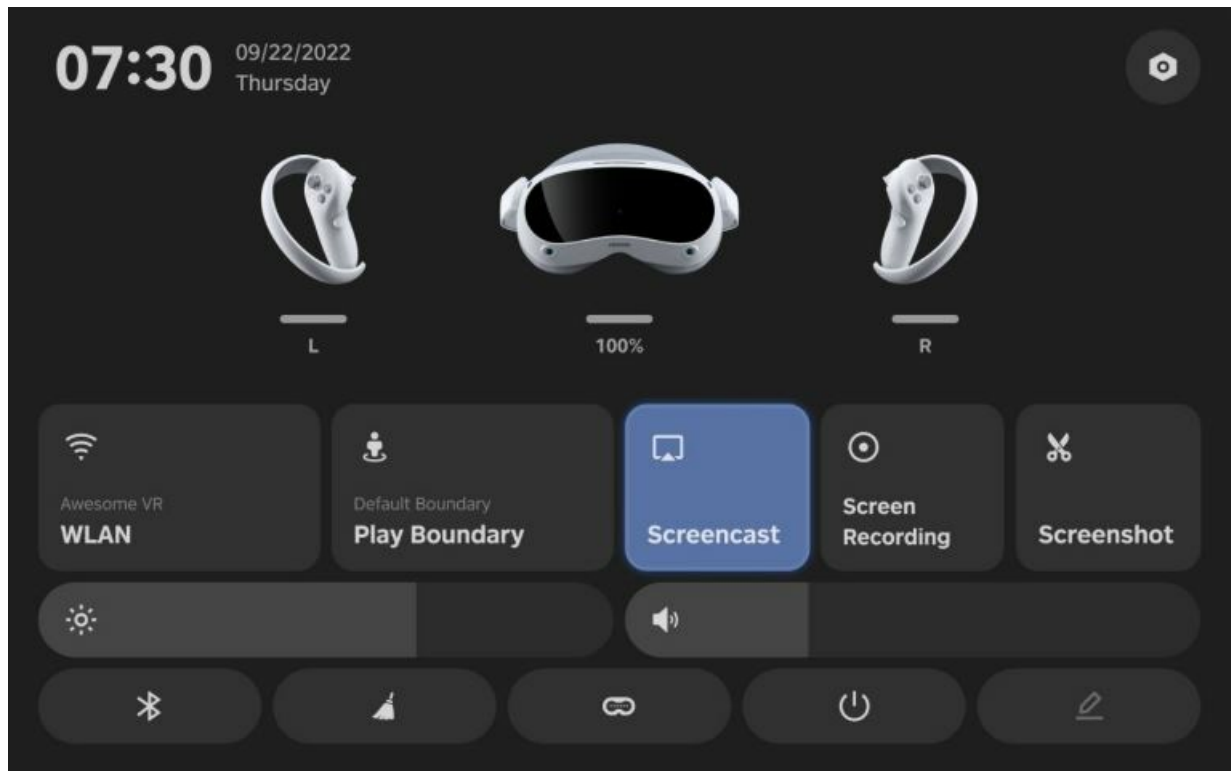
- With the PICO casting function, you can share the pictures seen in the Pico VR all-in-one machine to the external screen in real-time and share the content with others. Support casting for smart TV, smartphones, computers, and tablets.



- At the same time, you can also cast the video played by the external device to the Pico VR AIO machine to play and experience the immersive viewing experience.

## How to use

- Initiate screencasting
1. Upgrade PICO OS to 5.0 and above
  2. Click the Home key in any interface, click the time position on the right side, and call out the shortcut setting panel.
  3. Click the “screen casting” button to enter the main screen casting interface.



## Select screen casting mode Cast to TV

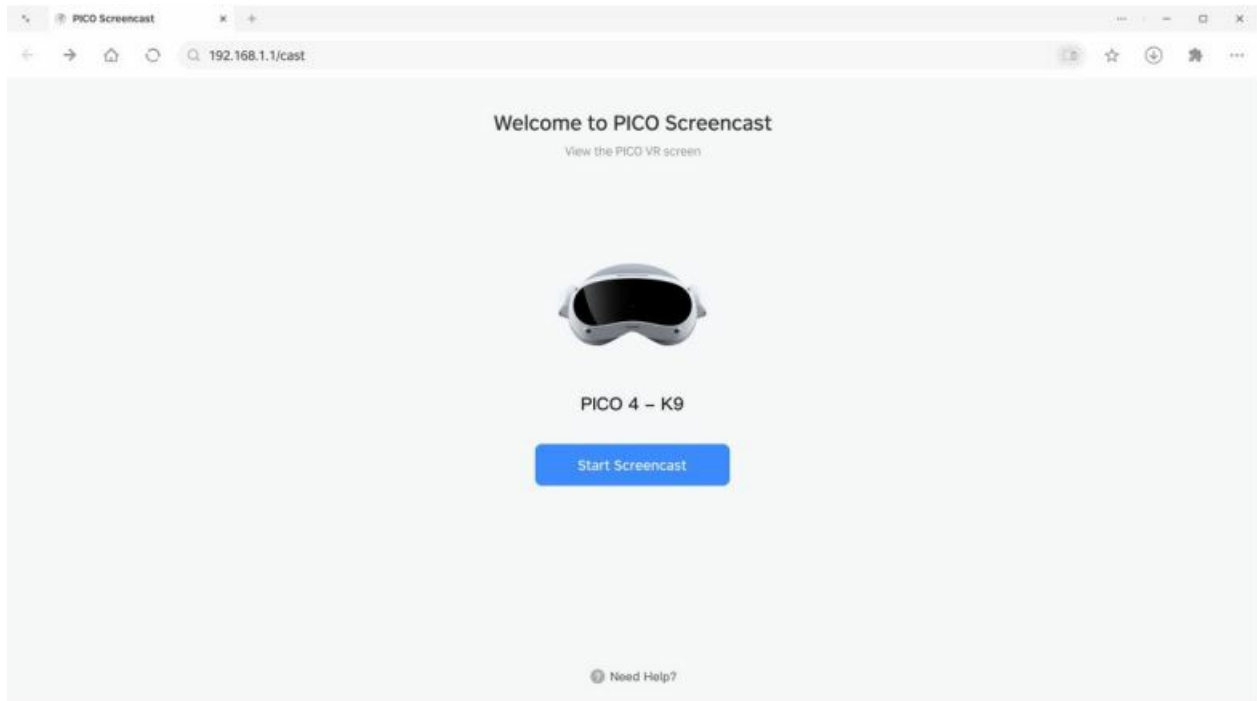
1. On the Android TV smart TV, search for “Cast for PICO” from the Google Play app store in the online countries to download and install.
2. Or on the official website of PICO <https://www.picoxr.com/>, find and download the installation package to install on the TV.
3. Connect the PICO VR AIO and the TV to the same network, and open the casting receiving app on the TV side.
4. In the list on the right side of the “Cast to Smart TV” page, find the name of the TV device, and click “Connect” to establish the cast.

## Cast to browser

1. Browsers that support Chrome, Edge, and other Chromium cores of Windows, macOS, and Android devices
2. Enter the screen casting URL on the browser, enter the screen casting page, and click the “Create screen

casting” button to project the screen.

3. When the screen is being cast, click “End cast” in the VR interface or exit the interface at the receiver to stop the cast.



### **Cast screen to mobile phone**

1. From the iPhone App Store or Android App Store, download the PICO VR Assistant App
2. Connect the VR AIO and mobile phone to the same LAN, and log in to the same account in the mobile assistant app
3. Open “PICO VR Assistant” – “Device”, and find “Screen Casting” in the bound account function
4. Enter the “Screen Casting” page, confirm that the bound device is checked, click Establish Connection”, and then click “Allow” in the AIO immediately to view the casting screen
5. When the screen is being cast, click the upper left corner of the casting page to end the casting

9:41



PICO 4 - K9 ▾



PICO 4 - K9

Serial number: PA7689KJG6923379A ⓘ

● Online

🔋 100%

Media >

Share link >

Wi-Fi connection >

Screencast >

Remove this device



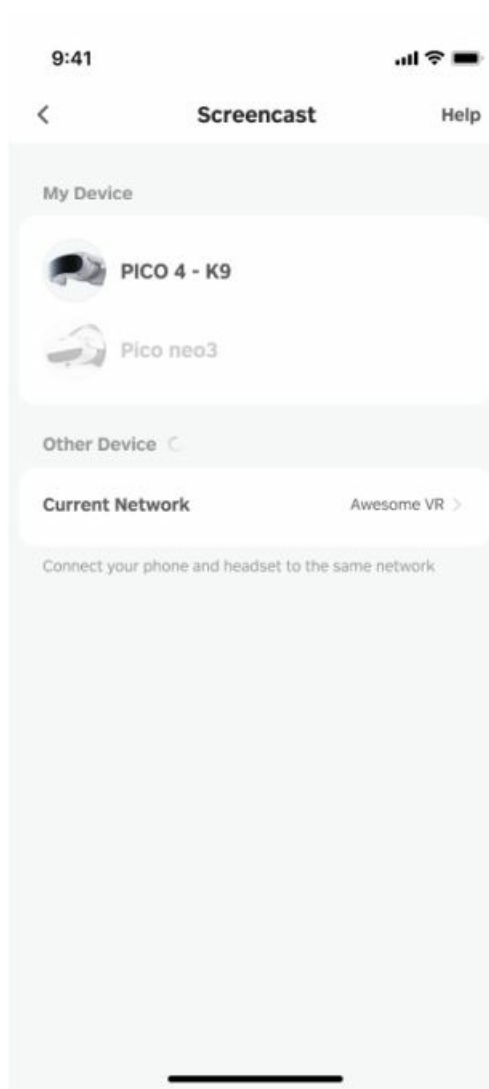
Store



Device



Menu



## Receiving casting screen

1. When the AIO (All-in-one) is in use, it can receive screen-casting requests from external devices.
2. The AIO and other devices are on the same Wi-Fi network, and the AIO can be found in the casting list of other devices (except when the reception is turned off).
3. It is found that the name is the equipment name, such as PICO 4.
4. When other equipment sends the screencasting, the AIO pops up the pop-up window "Receive external equipment projection".
5. **a. After selecting "Reject"**, interrupt this screen-casting application.
6. **b. Select "Allow"**, read the URL delivered, and pop up the play selection (or play directly).
7. Set the "Receive external device casting" option in the app: ask every time, always allow, and not receive.
8. **a. Each query:** the default option, that is, each time the external device casts the screen, a pop-up query will pop up.
9. **b. Always allow:** it means that there is no need to pop up for selection, and it will automatically receive or send every time.
10. **c. Reject:** Turn off this function and can't be found by external devices.
11. The splash screen will be displayed if the reception is successful, and a toast will pop up if the reception is unsuccessful.

## Screen Recording and Capture

- If you want to record and share the wonderful moments of the VR trip, you can capture the screen or record the screen.

#### 1. First method:

- The PICO 4 handle has a shortcut key for taking screenshots.
- To capture a screenshot, simply press the screen capture button on the right handle. The captured image will be automatically saved to the PICO 4 all-in-one headset.
- For screen recording, press and hold the screen capture button on the right handle to start recording. Press and hold the button again to stop recording. The recorded file will be automatically saved to the PICO 4 all-in-one headset.



#### Second method

- Short press the Home button on either handle to bring up the navigation bar.



- Pull the trigger and click the Quick Settings menu in the lower right corner of the navigation bar.



- On the first row of the shortcut menu, you will see the “Screenshot” and “Screen Recording” switches.



### Screenshot method

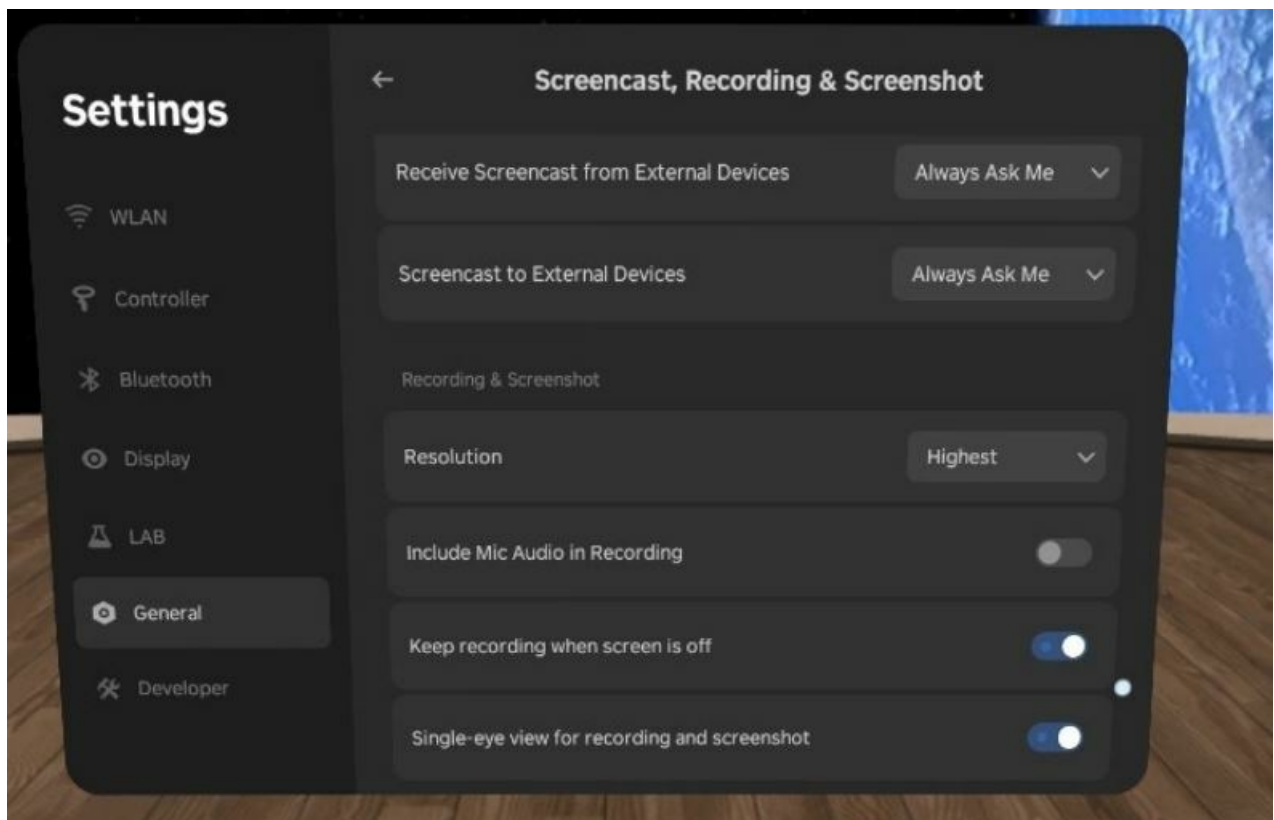
- To take a screenshot, pull up the shortcut menu by pressing the Home button on either controller, then select the “Screenshot” option. Next, return to the page you want to capture and click the screenshot button again to take the screenshot. The screenshot will be automatically saved to the PICO 4 all-in-one headset.

### Screen recording method

- To begin screen recording, pull up the shortcut menu by pressing the Home button on either controller, then select the “Screen Recording” option. Once you have done this, return to the page you want to record and start recording the video. To stop recording, short-press the Home button on either controller to return to the shortcut menu, then select the “Screen Recording” option again. To complete the recording, start and end by selecting the “Screen Recording” option.

### Record sound

- When recording the screen, you can also turn on the microphone to record your voice. To enable this feature, pull up the menu bar from the bottom of the screen and select the “Settings” option. From there, select the “Screencast, Recording & Screenshot” option under the “General” section.
- Next, enable the “Include Mic Audio in Recording” option. With this feature enabled, you can start sharing your VR videos with sound.



- You can also open the “PicoVR” app, bind the all-in-one headset, and view the screenshots and screen recordings on your mobile phone. Alternatively, you can connect the all-in-one headset to a computer using a data cable to export screenshots and screen recordings.

### How to use the PC VR mode with PICO 4?

1. What is streaming?
2. The game pictures on the computer end are transmitted to the VR all-in-one machine through wireless or wired mode to realize the VR game experience.
3. What are the methods of streaming?
4. Streaming mainly includes two methods: wireless streaming and wired streaming.
5. What hardware does streaming require?
  1. **VR All-in-One (AIO)**
    - a) PICO4
  2. **Computer**
    - a) **GPU:** NVIDIA GeForce GTX 1060 6GB/AMD Radeon RX 480 equivalent performance or above
    - b) **CPU:** Intel Core i5-4590/AMD FX8350 or above
    - c) **Memory:** 8GB and above
    - d) **Operating system:** Windows 10 and above
  3. **Router**
    - a) A 5G Wi-Fi router is recommended. The better the performance, the lower and more stable the wireless transmission delay.
    - b) **Reference model:** TP-LINK AX3000, ASUS RT-AX56U, ASUS TUF AX5400, Xiaomi AX6000, Xiaomi AX9000, NETGEAR RAX70.
  4. **USB cable**
    - a) Please use the data cable conforming to USB3.2 Gen1 and above standards.



6. What software does streaming require?

- VR All-in-One (AIO)
- **a)** Streaming Assistant
- Computer
- **a)** Download & Install Streaming Assistant: <https://www.picoxr.com/global/software/pico-link>
- **b)** Download & Install SteamVR: <https://store.steampowered.com/app/250820/SteamVR/>
- **c)** Install games in Steam, such as BeatSaber

7. How are devices connected?

- Wired stream
- **a)** The computer and VR AIO are connected by USB cable.
- Wireless streaming
- **a)** Wired connection between computer and router.
- **b)** 5G Wi-Fi connection between the VR AIO and the router.

8. Start streaming

1. Start the Streaming Assistant on the computer and select the connection mode.
2. Start the streaming assistant on the all-in-one machine, select the streaming computer, click “Connect” to start streaming, and wait for SteamVR to start playing.

## Mobile App: PICO VR

The mobile app is designated for the PICO VR All-in-one device. The app supports features like device management, application purchase, and user community.

1. Functions include:

1. PICO All-in-one app browsing and purchasing.
2. Event browsing and signup.
3. User community.
4. Device and account content management.
5. Customer service.

## Special reminder:

1. When the device is shown as “offline”: Users can try reconnecting the VR device to Wi-Fi, signing off and back on both the mobile app and the VR device, connecting the VR device to a mobile hotspot, or other similar measures.

## Where can I view or install games that I have purchased or redeemed for the PICO 4?

- At the main menu, click the navigation bar -> Resource Library -> Not Installed

## How to uninstall a game on the PICO 4

- At the main menu, click the navigation bar->Resource library->Entertainment->Choose a game the 3-dot icon in the lower-right->Uninstall

## System Upgrade

### Function modules

1. **Update check:** covers manual check and auto check. The system will send out a pop-up notification if a new version is detected.
  1. **Manual check:** Go to “Settings > General > System Version” or “Library > System Upgrade”.
  2. **Auto check:** Auto check is triggered every time the device is turned on or reconnected to Wi-Fi.
2. **Online system upgrade:** Users can download the installation package of the latest system version by tapping the “Online Upgrade” button in the pop-up notification. After the download is complete, the system will automatically restart and update to the latest version.
3. **Offline system upgrade:** Users can manually drop the installation package of the latest system version to the download folder, then tap the “Offline Upgrade” button in the pop-up notification. The app will version-check the installation package, and if a newer version is found, the system will kick off the upgrade and restart process.


## Games Update

At the main menu, click the navigation bar -> Resource Library -> Entertainment -> Choose a game -> Update




### PICO 4 Recovery Restore factory settings

1. Shut down the device, then press the Power button while holding down the volume + button.
2. After the Android robot appears, press and hold the Power button, then press the Volume + button again. Use the volume +/- buttons to navigate the list that appears and use the Power button to confirm.
3. Select “Wipe Data/Factory Reset”, then select “Factory Data Reset” in the next menu.
4. select “Reboot System Now”, then press the Power button to restart.
5. The PICO logo should appear after a moment. Your VR all-in-one device can now be used normally.

## Documents / Resources

	<p><a href="#">PICO 4 ALL in One VR Headset 128GB Walking Dead 1 and 2 Bundle</a> [pdf] User Guide 4 ALL in One VR Headset 128GB Walking Dead 1 and 2 Bundle, 4 ALL, in One VR Headset 128GB Walking Dead 1 and 2 Bundle, Walking Dead 1 and 2 Bundle, Dead 1 and 2 Bundle</p>
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## References

-  [SteamVR on Steam](#)
-  [PICO Virtual Reality | Official Website | PICO Global](#)
-  [PICO Link Windows Software, Streaming Assistant | PICO Global](#)

- [User Manual](#)

Manuals+.