

Legion Glasses (Gen2)

User Guide

Note: All the illustrations in this *User Guide* are for reference only. Refer to the real products.

V1.0_20250117

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1. Precautions and Safety Warnings



This product is not a toy and should not be used by children under the age of 12.



Immediately discontinue using the product if any discomfort is experienced.

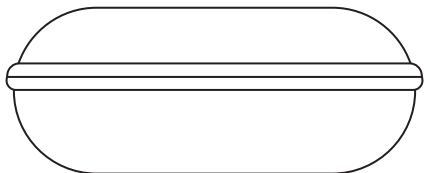


Avoid use in any unsafe conditions or interactions, such as rain or liquids, and open flames or sources of heat.

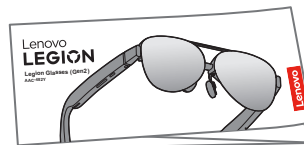


For your safety, do not use the product while walking or running.

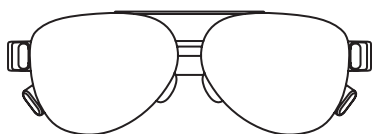
2. What's In the Box



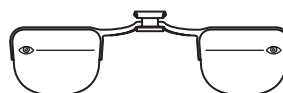
Carrying Case



Quick Start Guide and Warranty Card



Legion Glasses (Gen2)



Prescription Lens Frame



Light Shield



Cleaning Cloth

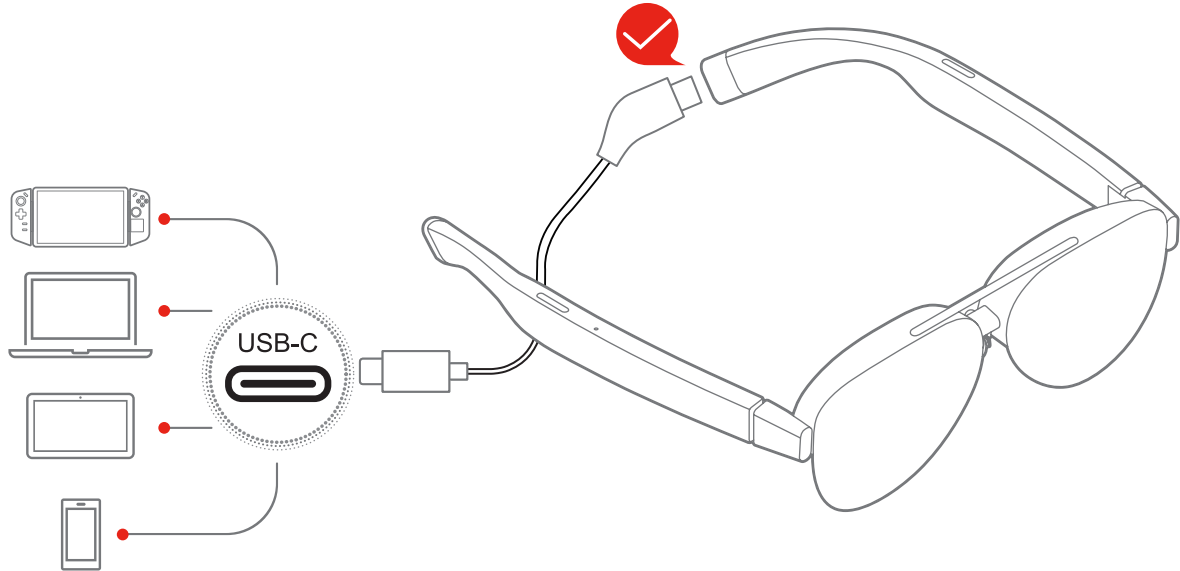


Data Cable

3. Connecting Devices



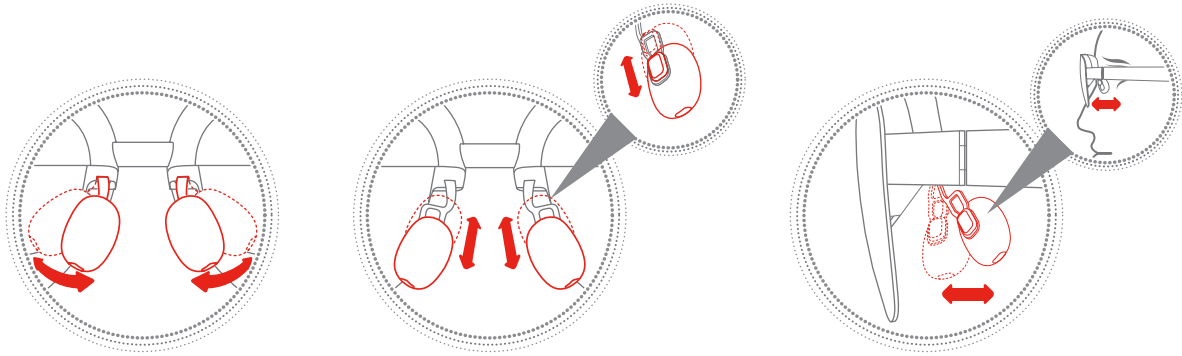
To wear the glasses more comfortably, it is recommended to attach the curved end to the glasses.



For a list of smart devices that have undergone strict compatibility testing, refer to Appendix A. Compatible Device List of Legion Glasses (Gen2). The Compatible Device List only contains device models that have undergone strict compatibility tests, and it does not mean that the Legion Glasses (Gen2) only supports these models. The basic principle of glasses is similar to that of an external display. Generally speaking, if the smart device has a USB-C connector that supports DP video output function (specifically USB type-C with DP-Alt mode), it can be connected and used normally. For smart devices that meet the above USB-C connector standards but are not included in this list, there may be potential compatibility risks.

4. Adjusting the Nose Pads

After putting on the glasses, you should keep the image in the center of your vision and be able to see it in its entirety. If the image is incomplete, try to adjust the nose pads in the following three ways:

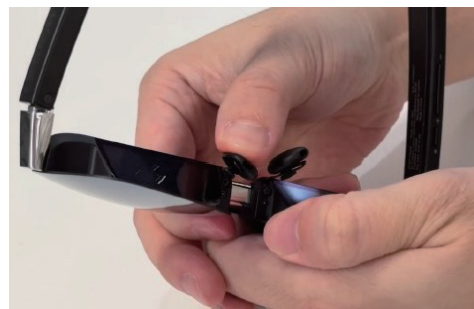
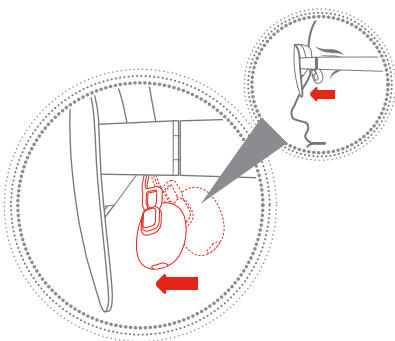


Situation 1: Wearing too far from your eyes may result in an incomplete or blurry conner

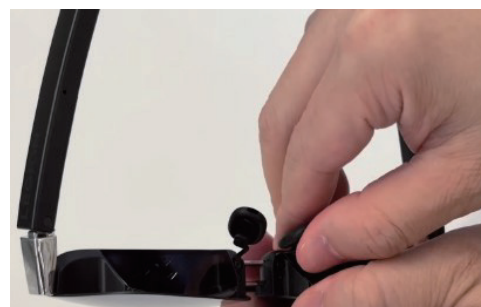
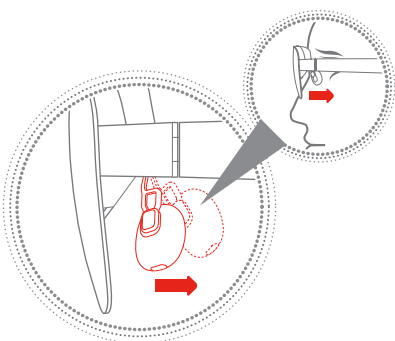
Description of the problem: If the glasses are worn too far from your eyes, it may cause you can't see the whole image or the edges of the image become blurry.



Suggestion for adjustment: Pressing the nose pad in the direction of the lens will make the glasses closer to your eyes in order to watch the screen more clearly and completely.

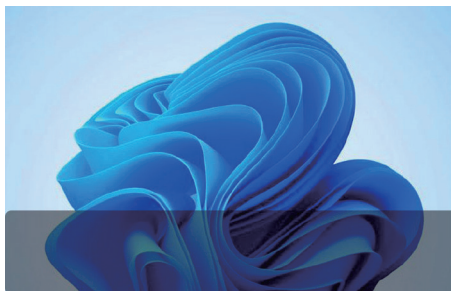
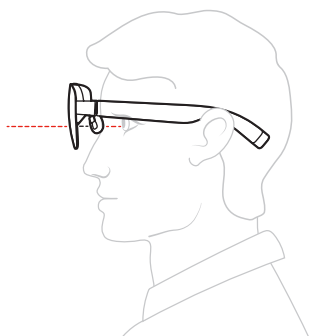


If your press is too much so that the nose pad cannot support your nose bridge, or if the glasses are worn too low, you can pull the nose pad back a little bit.

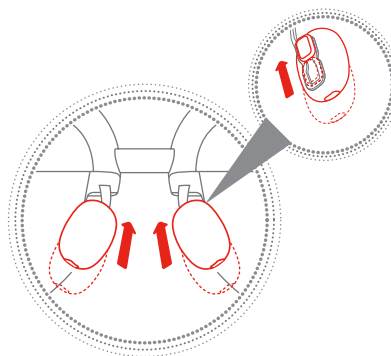
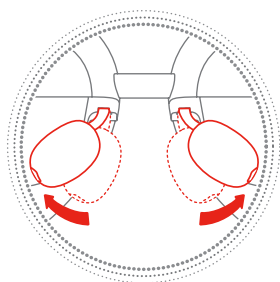


Situation 2: Wearing too high might cause the bottom to be blocked or blurry

Description of the problem: The glasses are worn in a high position, which may cause the bottom corners of the image to be abnormally blurry, and may even cause the displayed content to be blocked and the image to be incomplete.

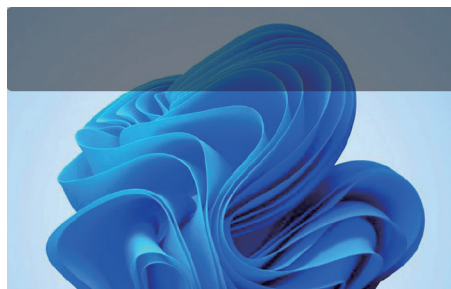
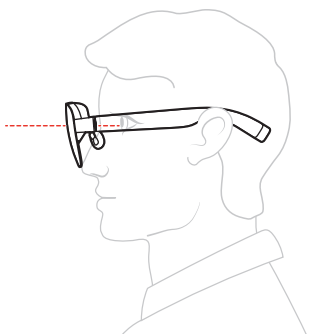


Suggestion for adjustment: Increase the opening angle of the nose pads, or turn the nose pads to the top setting.

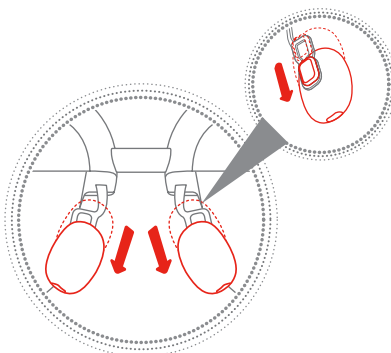
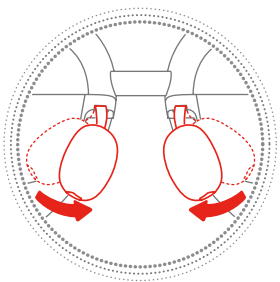


Situation 3: Wearing too low might cause the top to be blocked or blurry

Description of the problem: The glasses are worn in a low position, which may cause the top area of the image to be abnormally blurry, and may even cause the displayed content to be blocked and the image to be incomplete.

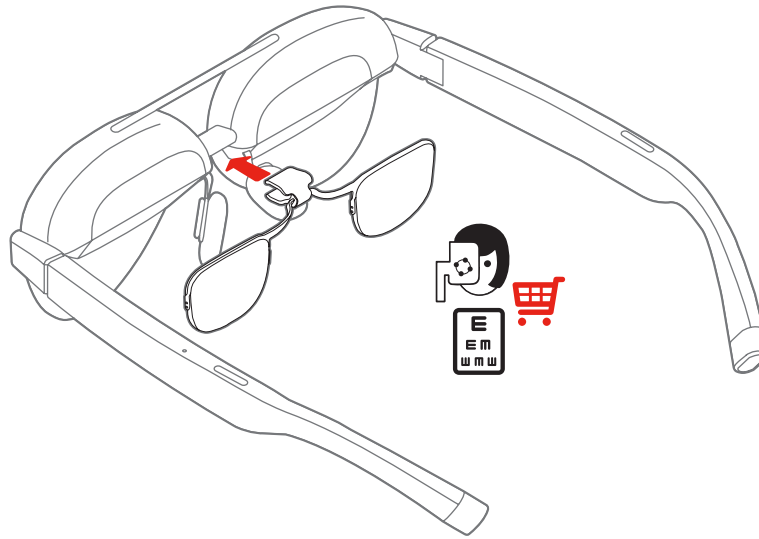


Suggestion for adjustment: Reduce the opening angle of the nose pads, or turn the nose pads to the lower setting.



If you do not understand the diagrams, you can refer to the more detailed nose pad adjustment video at <https://support.lenovo.com/accessories/acc500372>.

5. Using the Prescription Lenses (Optional)



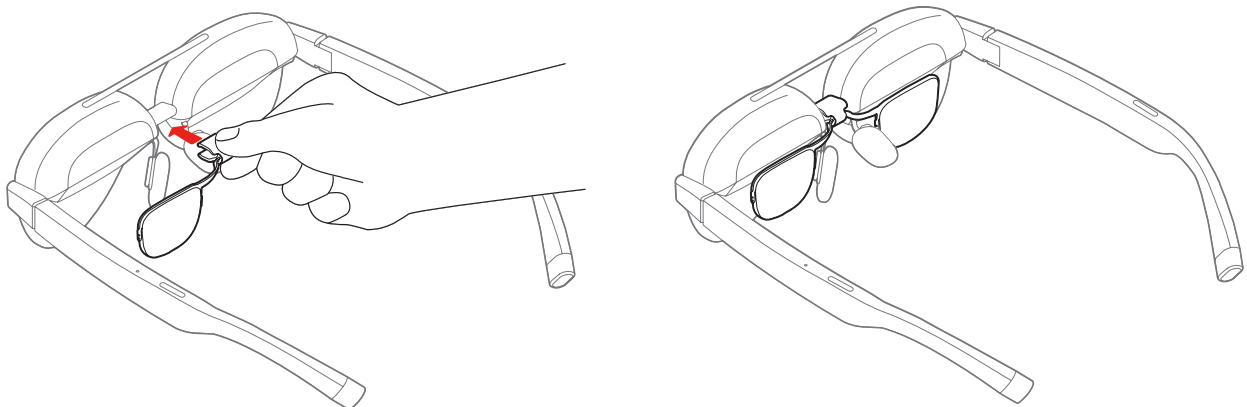
5.1 Customizing the Prescription Lenses

Take the prescription lens frame from the accessories box to a local optical shop or an online store to customize your own prescription lenses (additional fees needed).

Check with your optometrist to ensure they are able properly create and install the lenses into the frame.

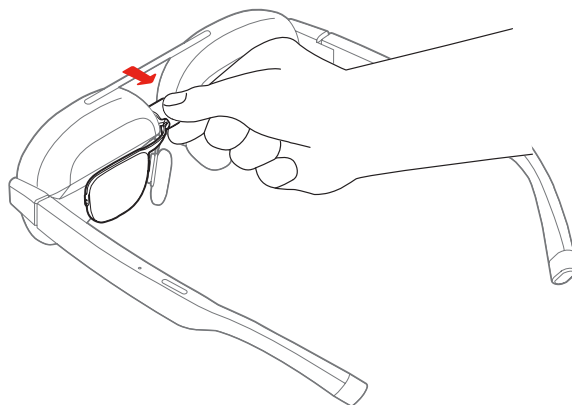
5.2 Installing the Prescription Lens Frame

After the customized lenses are ready, install the frame by clamping the prescription lens frame to the silver-white junction in the middle of the glasses.



5.3 Removing the Prescription Lens Frame

To remove the prescription lens frame, pull the frame outwards until it comes out of the glasses.

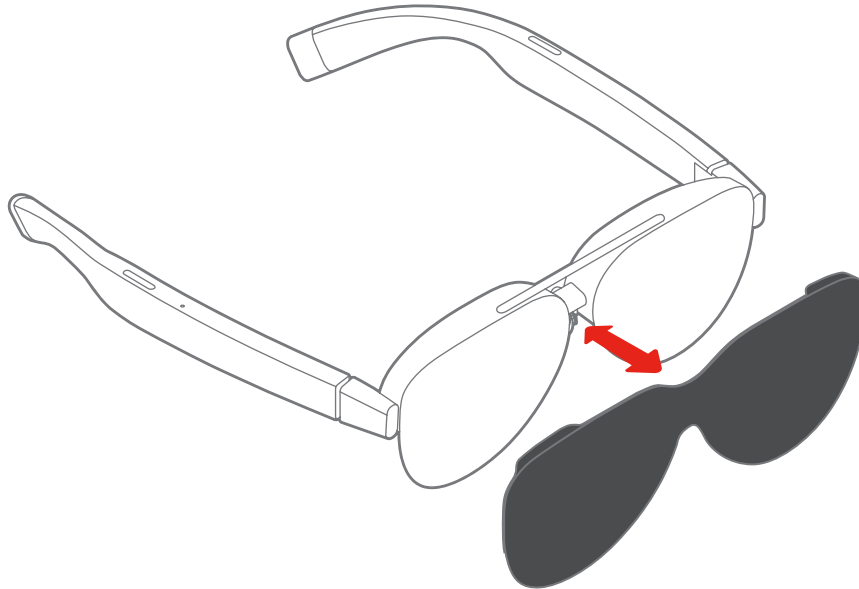


You can skip the step if you do not wear glasses.

6. Installing and Removing the Light Shield (Optional)

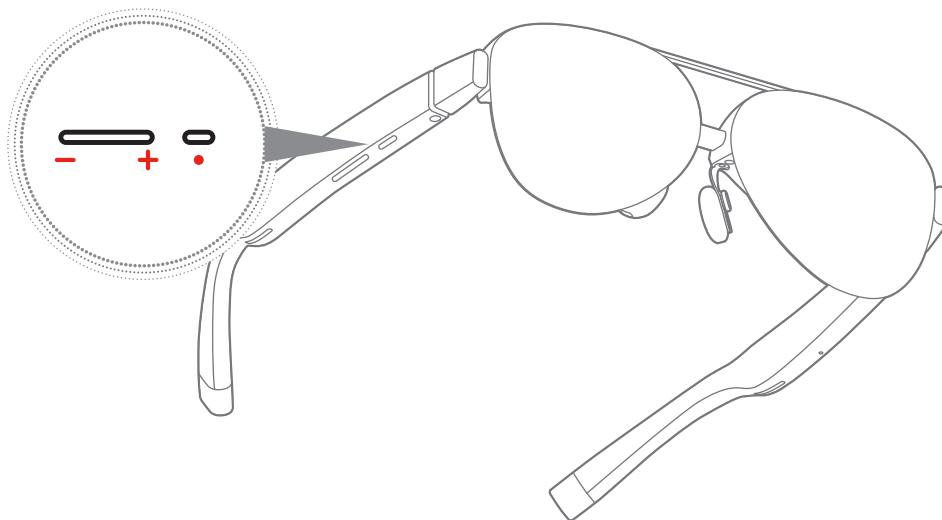
The glasses and the light shield contain magnets. Aim the light shield in close proximity to the front of the glasses, and the light shield will automatically attach to the glasses.

To remove the light shield, pull it out from the recess in the middle of the shield.



You can use the light shield for a more immersive viewing experience.

7. Button Functions



•	• (5s)	+	-	+ (2s)	- (2s)

7.1 General Functions

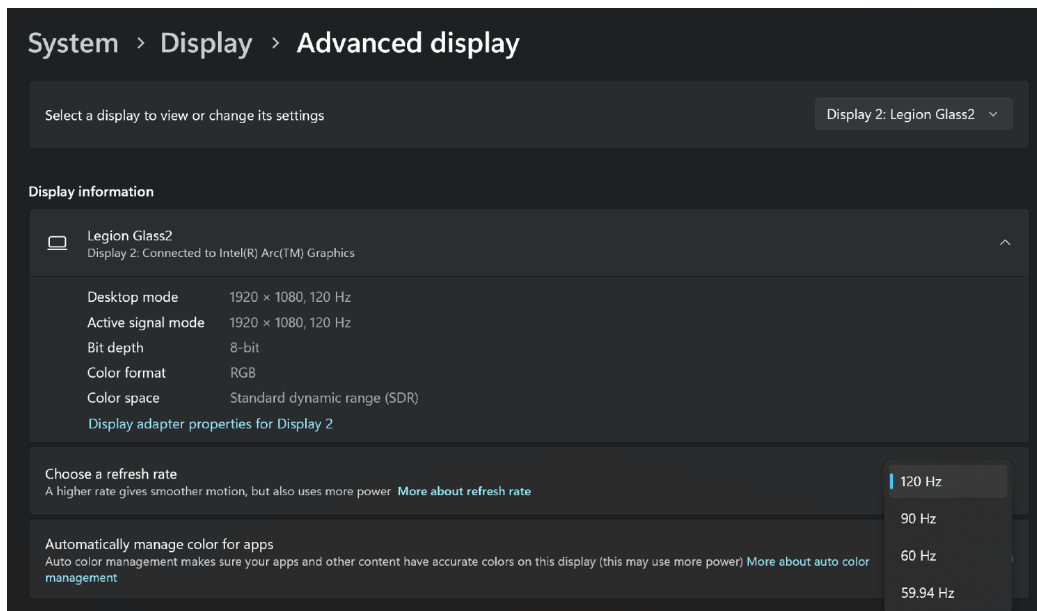
Button	Display	Function
•		Click the button to select the brightness or volume setting
+		Click the button to increase the volume or brightness
-		Click the button to decrease the volume or brightness
+		Hold the button for two seconds to turn off the screen
-		Hold the button for two seconds to switch between 2D and 3D mode
•		Hold the button for five seconds can be forced into factory reset mode



- The glasses have an independent volume adjustment function. Generally speaking, you can use the host side (mobile phone/tablet/computer) to adjust the volume first. If the host-side application software or operating system does not support volume adjustment, or if the speaker volume of the glasses does not change after volume adjustment, you can also use the volume adjustment function on the glasses to adjust the volume.
- To view the screen more comfortably, you can reduce the brightness of the screen appropriately in low ambient light, and you can add a light shield or increase the brightness appropriately in bright ambient light.
- After manually turning off the screen, press any key to wake up the screen.

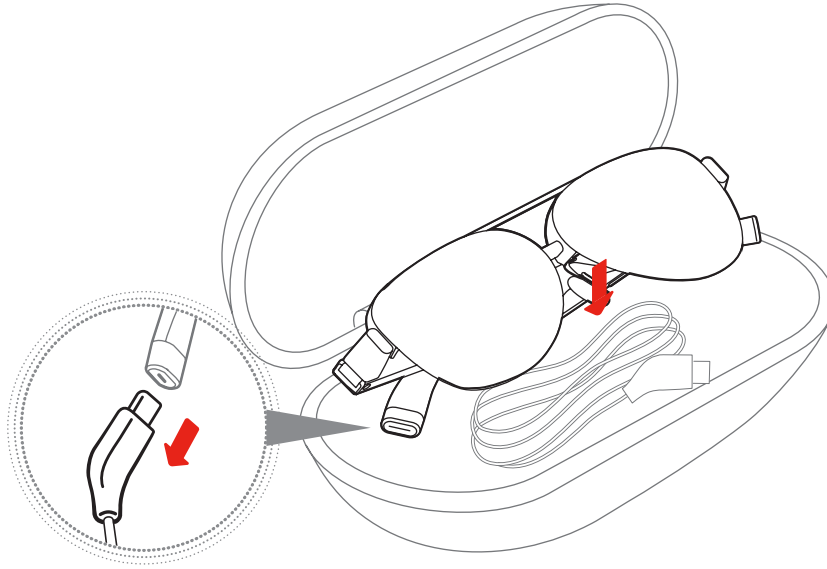
7.2 Setting Refresh Rate

When connected to a handheld console or a Windows PC, you can adjust the refresh rate to 60Hz, 90 Hz or 120 Hz in the advanced display settings of the operating system.



Only 60Hz refresh rate can be supported in 3D mode.

8. Storing the Glasses



To protect the glasses, put the glasses in the carrying case when not in use.



Make sure the USB type-C cable is unplugged before putting the glasses into the case.

Appendix A. Compatible Device List of Legion Glasses (Gen2)



- The Compatible Device List of the Legion Glasses (Gen2) will be updated continuously.
- The table below only lists the device models that have undergone strict compatibility tests, but it does not mean that the Legion Glasses (Gen2) can only work with these devices. The basic principle of glasses is similar to that of an external display. Generally speaking, if the smart device has a USB-C connector that supports full functional USB-C with DP-out, it can be connected and used normally. For smart devices that meet the above USB-C connector standards but are not included in this list, there may be potential compatibility issues that could arise.

Type	Brand	Model
Game Console	Legion	Legion Go
		Legion Go S
Mobile phone	Motorola	moto x50 ultra
		moto x40
		moto x30 pro
		moto razr 2022
	Apple	iPhone 15 Pro Max
		iPhone 15 Plus
		iPhone 15 Pro
		iPhone 15
	Samsung	Samsung Galaxy S22
		Samsung Galaxy S21
		Samsung Galaxy S20
		Samsung Note20
	Oppo	Find X5
		Find X3
	Vivo	vivo X80 Pro
		vivo X70 Pro
		vivo X Fold+
		vivo X Fold
	Honor	Magic5 Pro
		Magic4
		Magic Vs

Type	Brand	Model
Mobile phone	Huawei	Mate 60 Pro+
		Mate 60 Pro
		Mate 60
		Mate 50
		P60 Pro
	OnePlus	OnePlus 9
Computer	Lenovo	ThinkBook 14 G2-ITL
		ThinkPad E14 Gen2
		ThinkPad E14 Gen 4
		Ideapad 14Pro HWP
		Ideapad S5 15ARP10
		Ideapad Slim 5 14IRH10
		LOQ G5000 15APH9
	Apple	MacBook Pro (16", 2021)
Tablet	Lenovo	Legion Tab Y700
	Apple	iPad Pro (Gen4)
		iPad mini (Gen6)

Appendix B. Regulatory information

Important safety and handling information

To avoid personal injury, property damage, or accidental damage to the product, read all of the information in this section before using the product. For additional tips to help you operate your device safely, go to <http://www.lenovo.com/safety>.

Handle your device with care

Do not drop, bend, or puncture your device; do not insert foreign objects into or place heavy objects on your device. Sensitive components inside might become damaged.

Your device screen is made of glass. The glass might break if the device is dropped on a hard surface, is subjected to a high impact, or is crushed by a heavy object. If the glass chips or cracks, do not touch the broken glass or attempt to remove it from the device. Stop using the device immediately and contact Lenovo technical support for repair, replacement, or disposal information.

When using your device, keep it away from hot or high-voltage environments, such as electrical appliances, electrical heating equipment, or electrical cooking equipment. Use your device only in the temperature range of 0°C (32°F) to 40°C (104°F) (storage -20°C (-4°F) to 60°C (140°F)) to avoid damage.

Don't expose your device to water, rain, extreme humidity, sweat or other liquids.

Do not disassemble or modify your device

Your device is a sealed unit. There are no end-user serviceable parts inside. All internal repairs must be done by a Lenovo-authorized repair facility or a Lenovo-authorized technician. Attempting to open or modify your device will void the warranty.

Caution about high volume usage

WARNING

Exposure to loud noise from any source for extended periods of time may affect your hearing. The louder the sound, the less time is required before your hearing could be affected.

To protect your hearing:

- Limit the amount of time you use headsets or headphones at high volume.
- Avoid turning up the volume to block out noisy surroundings.
- Turn the volume down if you can't hear people speaking near you.

If you experience hearing discomfort, including the sensation of pressure or fullness in your ears, ringing in your ears or muffled speech, you should stop listening to the device through your headset or headphones and have your hearing checked.



To prevent possible hearing damage, do not listen at high volume levels for long periods.

Dispose according to local laws and regulations

When your device reaches the end of its useful life, do not crush, incinerate, immerse in water, or dispose of your device in any manner contrary to local laws and regulations. Some internal parts contain substances that can explode, leak, or have adverse environmental effects if disposed of incorrectly.

See “Environmental, recycling, and disposal information” for additional information.

Safety instructions

The device and its accessories are not toys. Do not allow children under the age of 3 to play with them because they could hurt themselves or others or damage the device. Keep the device and all its parts and accessories out of the reach of children under the age of 3. As with all electrical products, precautions should be taken during handling and using to reduce potential hazards. Routinely check the device and all its parts and accessories to ensure that they are working properly and safe to use.

Protect your data and software

Do not delete unknown files or change the name of files or directories that were not created by you. Otherwise, your device software might fail to work.

Be aware that accessing network resources can leave your device vulnerable to computer viruses, hackers, spyware, and other malicious activities that might damage your device, software, or data. It is your responsibility to ensure that you have adequate protection in the form of firewalls, antivirus software, and anti-spyware software and keep such software up to date.

Keep electrical appliances away from your device. These include electric fans, radios, high-powered speakers, air-conditioners, and microwave ovens. The strong magnetic fields generated by electrical appliances can damage the screen and the data on the device.

Be aware of heat generated by your device

When your device is turned on or the battery is charging, some parts might become hot. The temperature that they reach depends on the amount of system activity and the battery charge level. Extended contact with your body, even through clothing, could cause discomfort or even a skin burn. Avoid keeping your hands, your lap, or any other part of your body in contact with a hot section of the device for any extended time.

Electronic emission notices

FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult an authorized dealer or service representative for help.

Lenovo is not responsible for any radio or television interference caused by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Responsible Party:

Lenovo (United States) Incorporated

1009 Think Place - Building One

Morrisville, NC 27560

Telephone: 1-919-294-5900

ISED Caution

This device complies with Innovation, Science and Economic Development Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) This device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

(1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Japanese VCCI Class B statement

この装置は、クラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。取扱説明書に従って正しい取り扱いをして下さい。VCCI-B

Japan compliance statement for products that connect to power mains rated at less than or equal to 20A per phase

日本の定格電流が 20A/相以下の機器に対する高調波電流規制
高調波電流規格 JIS C 61000-3-2 適合品

Environmental, recycling, and disposal information

General recycling statement

Lenovo encourages owners of information technology (IT) equipment to responsibly recycle their equipment when it is no longer needed. Lenovo offers a variety of programs and services to assist equipment owners in recycling their IT products. For information on recycling Lenovo products, go to <http://www.lenovo.com/recycling>.

Important WEEE information

Take back and recycling information for WEEE in the European Union and the United Kingdom



The crossed-out wheeled bin marking applies only to countries with WEEE within the European Union (EU), and United Kingdom (UK).

Appliances are labeled in accordance with local regulations concerning waste electrical and electronic equipment (WEEE). These regulations determine the framework for the return and recycling of used appliances as applicable within each geography. This label is applied to various products to indicate that the product is not to be thrown away, but rather put in the established collection systems for reclaiming these end of life products.

Users of electrical and electronic equipment (EEE) with the crossed-out wheeled bin marking must not dispose of end of life products as unsorted municipal waste, but use the collection framework available to them for the return, recycle, and recovery of WEEE and to minimize any potential effects of EEE on the environment and human health due to the presence of hazardous substances.

Lenovo electrical and electronic equipment (EEE) may contain parts and components, which at end-of-life might qualify as hazardous waste.

EEE and waste electrical and electronic equipment (WEEE) can be delivered free of charge to the place of sale or any distributor that sells electrical and electronic equipment of the same nature and function as the used EEE or WEEE.

For proper collection and treatment, go to: <https://www.lenovo.com/environment>.

For additional WEEE information, go to: <https://www.lenovo.com/recycling>.

Recycling information for Japan

Recycling and disposal information for Japan is available at <http://www.lenovo.com/recycling/japan>.

Export classification notice

This product is subject to the United States Export Administration Regulations (EAR) and has an Export Classification Control Number (ECCN) of 5A992.c. It can be re-exported except to any of the embargoed countries in the EAR E1 country list.

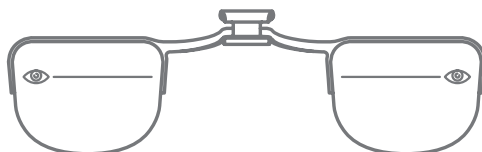
Appendix C. FAQ



The list of FAQ will be updated continuously. You can log in to the Legion Glasses product page on the Lenovo after-sales service website (<https://support.lenovo.com/accessories/acc500372>) to view the latest version of the FAQs.

Q Can I use Legion Glasses if I wear prescription eyeglasses?

A Yes! To wear Legion Glasses comfortably, take the included prescription lens frame template to a local optical store and customize your prescription lenses.



Q How to install the prescription lens frame onto the Legion Glasses?

A See "Using the Prescription Lenses (Optional)" on page 6.

Q What is the image resolution and aspect ratio of the display?

A The resolution is 1920x1080 per eye and the aspect ratio is 16:9.

Q How can I clean the Legion Glasses?

A If dust or dirt appears on the device, gently wipe it with the included cleaning cloth or with a small amount of neutral detergent. Do not scrub with clean water or corrosive reagents.

Q Where can I find the serial number (S/N) of the Legion Glasses?

A The SN can be found on the SN label on both the device (located on the inside face of one of the temple arms) and package box.

Q What are the devices compatible with the Legion Glasses?

A Legion Glasses are compatible with most modern full-functional USB-C devices. You can also refer to the "Compatible Device Whitelist" for device models that have undergone strict compatibility tests, but this list should not be interpreted as that the Legion Glasses can only work with these models.

Q Are Legion Glasses compatible with iPhone or iPad?

A It depends on the type of connector your iPhone or iPad is configured with. Legion Glasses is only compatible with iPhone or iPad models with USB-C ports.

Q What are the apps compatible with the Legion Glasses?

A The Legion Glasses work just like a monitor, meaning it behaves as any USB-C display would work if plugged into your host device. This means that, there is no need to pre-install any apps or drivers on either the Legion Glasses or the host device. Simply plug and play.

Q Can I use a separate Bluetooth speaker or earbuds with the Legion Glasses?

A You can use your own Bluetooth headset to play sound from the Legion Glasses. When the Bluetooth headset is connected to your mobile device, sounds will automatically switch to the Bluetooth headset. If this does not occur, you may simply select the desired audio output device from your host device's OS menu.

Q What accessories are included with the Legion Glasses?

A Accessories included with the Legion Glasses includes:

1. Cable
 2. Prescription Lens Frame
 3. Light Shield
 4. Carrying Case
 5. Cleaning Cloth
-

Q How do I adjust the nose pads?

A See "Adjusting the Nose Pad" on page 4.

Q How to power on the Legion Glasses?

A Plug the type-C cable of the Legion Glasses into the type-C connector on your mobile device (e.g.: Legion Go) to turn on the device. The device will power on automatically when connected and power down automatically when disconnected.

Q How to adjust the audio volume of the Legion Glasses?

A See "Button Functions" on page 9.

Q How to adjust the brightness of the Legion Glasses screen?

A See "Button Functions" on page 9.

Q How to turn off the display of the glasses?

A See "Button Functions" on page 9.

Q Will the glasses automatically detect if they are worn?

A When the glasses are connected to the host device and powered on, the glasses have a built-in high-precision gyroscope sensor to detect the wearing status. When worn by the user, the gyroscope sensor senses a movement or vibration signal, and the screen lights up automatically. When the glasses are no longer worn, the screen will automatically turn off after 5 minutes of stationary on the table. If you do not use your glasses for a long time, or when you leave them in your carrying case and ready to travel, unplug the cable to avoid draining the power of the host device.

Q Will Legion Glasses remember my setting after unplugging from device?

- A**
1. The glasses remember the brightness and volume of the last valid setting.
 2. Each time you plug or unplug the glasses, they will default to 2D mode.
 3. Press and hold the button  for 5 seconds, and the saved parameters will be reset to the factory defaults, which are 50% volume and 50% brightness.
-

Q What's the power consumption of Legion Glasses?

- A** The power consumption for Legion Glasses is about 1.6w (depends on the brightness of Legion Glasses' screen and the volume of speakers).
-

Q Why do I feel like my temples are heating up?

- A** It is normal for some parts of the glasses to heat up during use. According to the test, the part of the glasses that comes into contact with the skin does not exceed 37°C (98.6°F) at room temperature 25°C (77°F). For your safety, if the glasses feels uncomfortably warm, stopping using immediately and unplugging the USB-C cable until the glasses have completely cooled down.
-

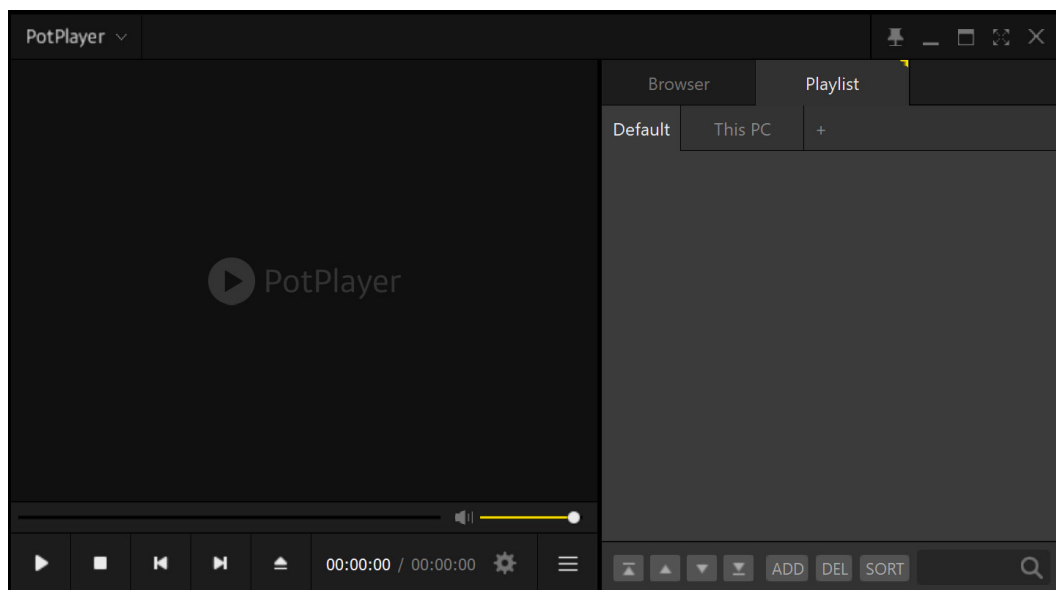
Q How to watch local 3D videos on computer using 3D mode?

- A** Press and hold the button  for 2 seconds to enter the 3D mode of the glasses. In 3D mode, the glasses will be displayed on the computer's display settings page as a screen with a resolution of 3840*1080.

You can download 3D video samples on the product service webpage

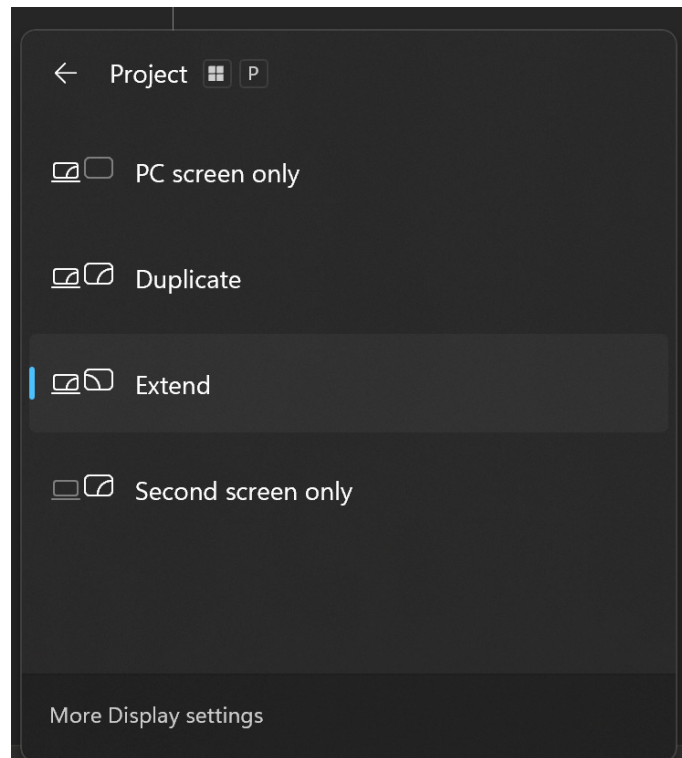
(<https://support.lenovo.com/accessories/acc500372>) of Legion Glasses (Gen2) to experience the 3D mode. The following is an example to watch a 3D video in 3D mode:

Step 1. Install the video player PotPlayer and launch PotPlayer.

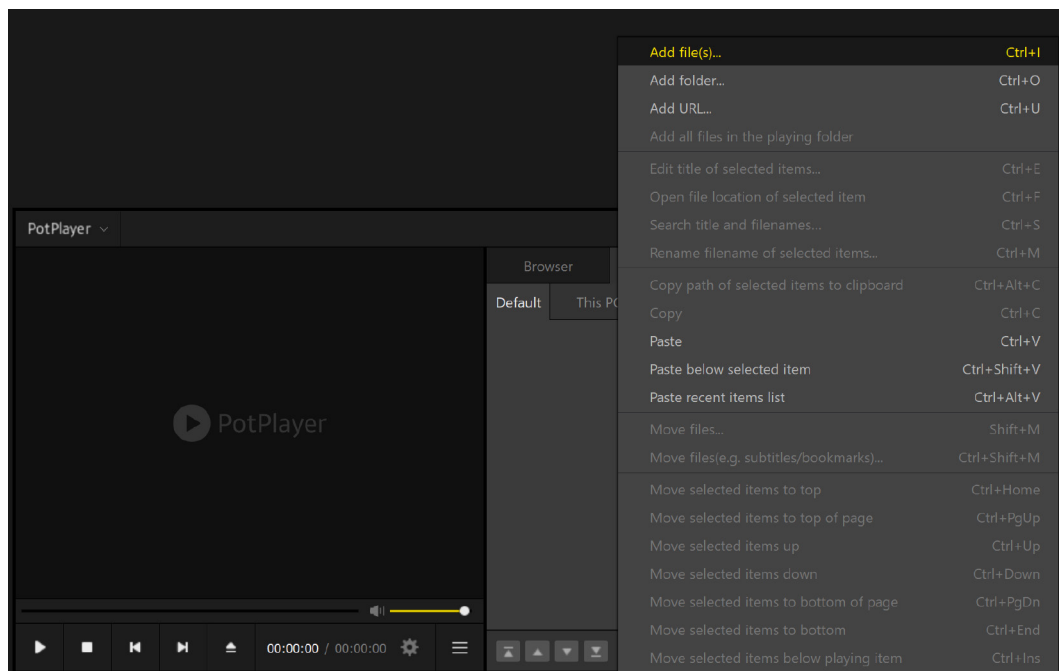


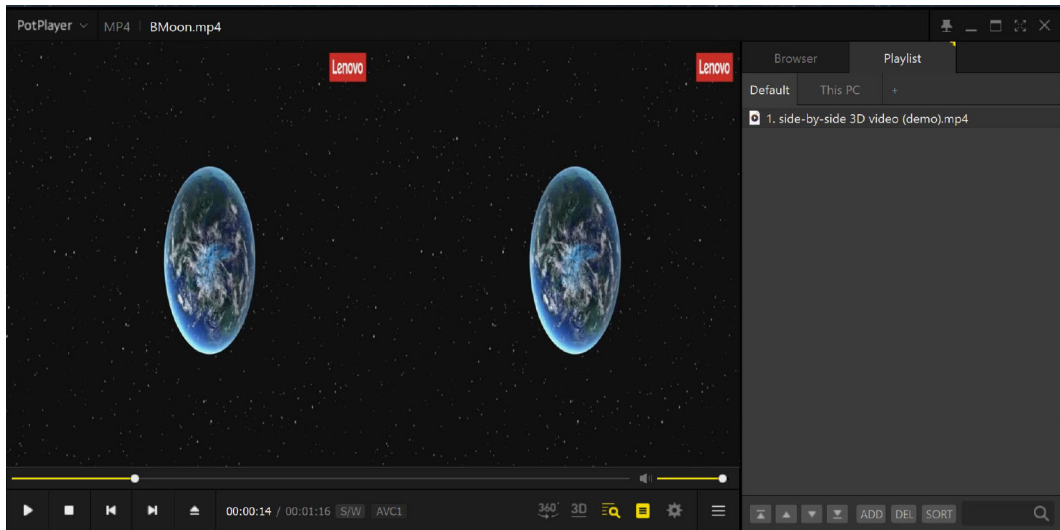
Step 2. Connect the glasses to your computer and long press the button  on the glasses to switch to 3D mode.

Step 3. Press the **Win+P** key combination on your keyboard and select **Extend** mode from the options in your screen projection settings.

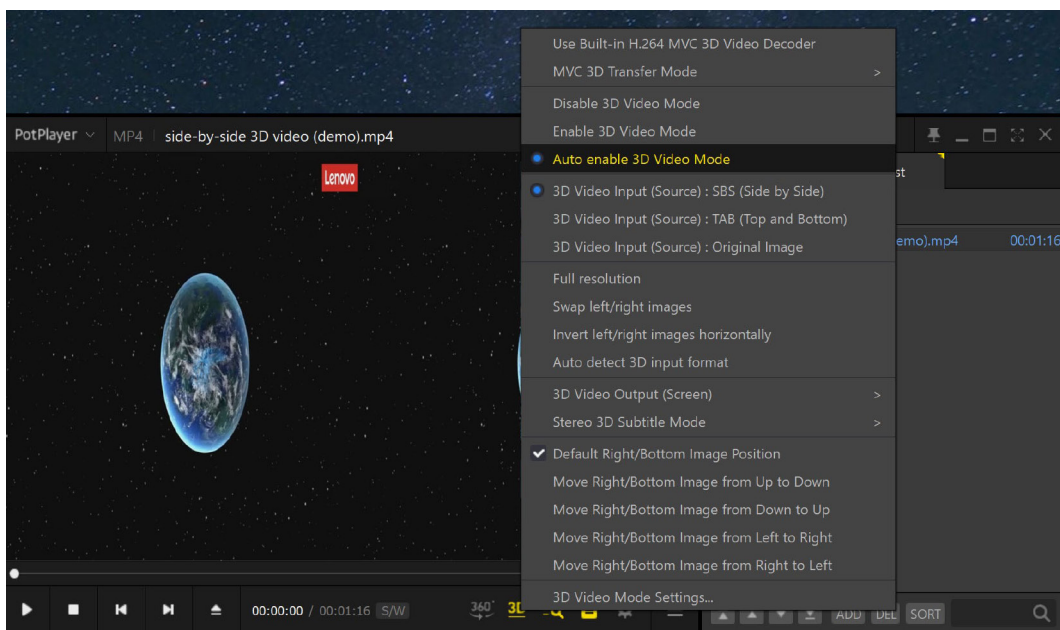


Step 4. Click the small triangle button **ADD** at the bottom of the interface and click **Add file(s)...** to choose the 3D video file you want to play.

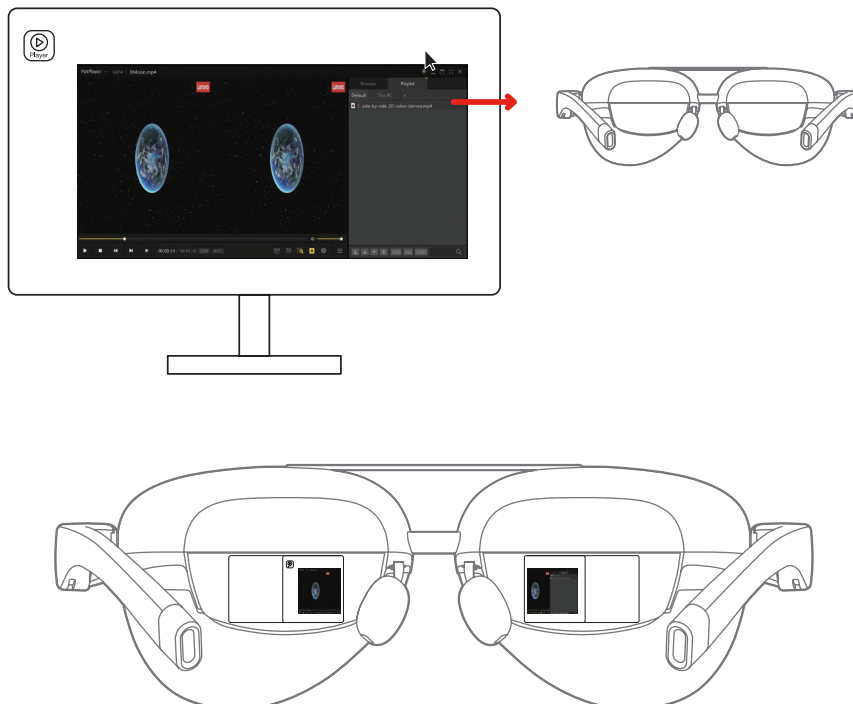




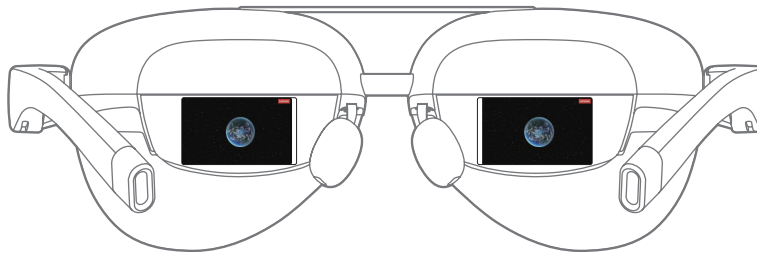
Make sure you have the right 3D video settings as following:



Step 5. Drag the PotPlayer window into the glasses' screen area.



Step 6. Press **Ctrl+Enter** to make the video full screen, then click the spacebar to start play the video.



Enjoy your 3D experience!

Q How to watch Side-by-Side (SBS) 3D videos on Youtube.com?

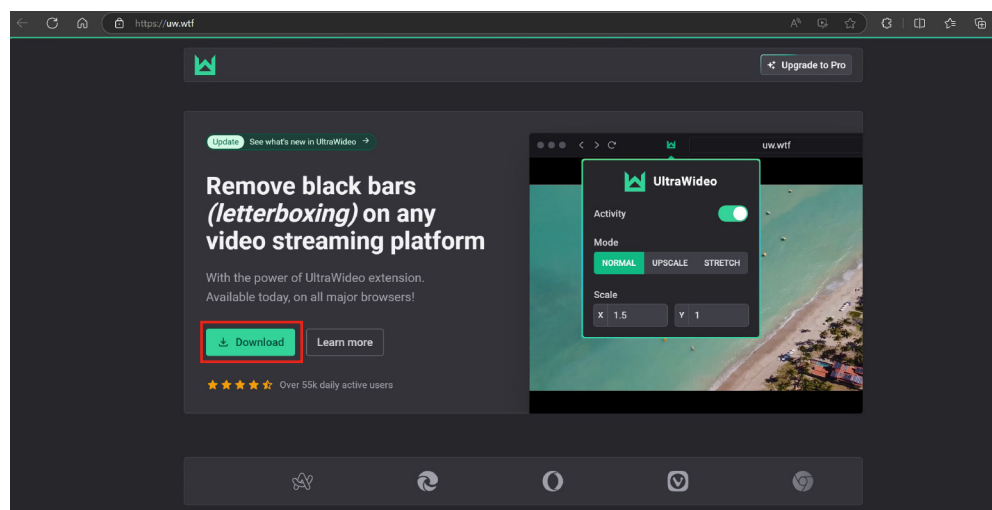
A

Step 1. Search “UltraWideo” and add it into your browser as extension

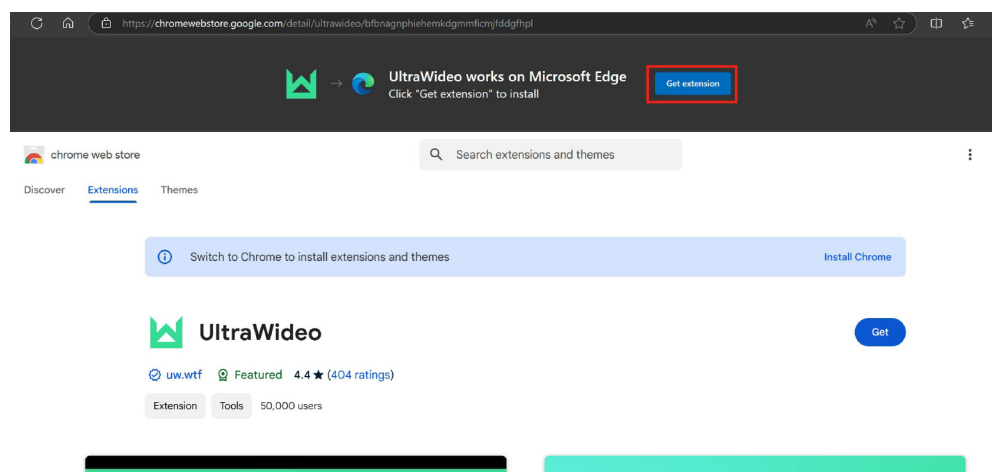
(UltraWideo is a cross-browser extension that adjusts video aspect ratios to fit your screen. It works on many video streaming platforms, including Netflix, Disney+, Hulu, and Prime Video. And it could be compatible with major browsers Microsoft Edge/Google Chrome/Firefox)

Here take Microsoft Edge as an example:

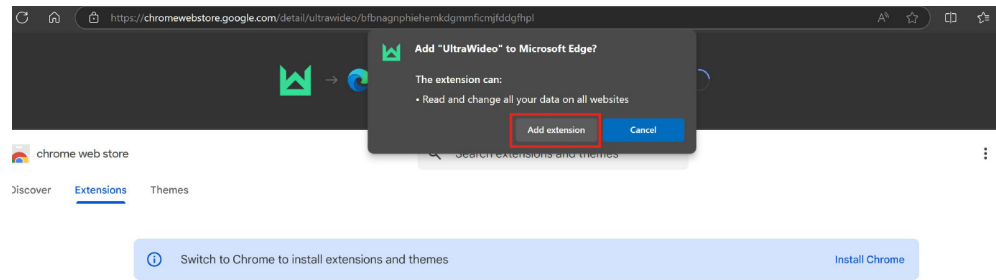
a) Search UltraWideo with your browser



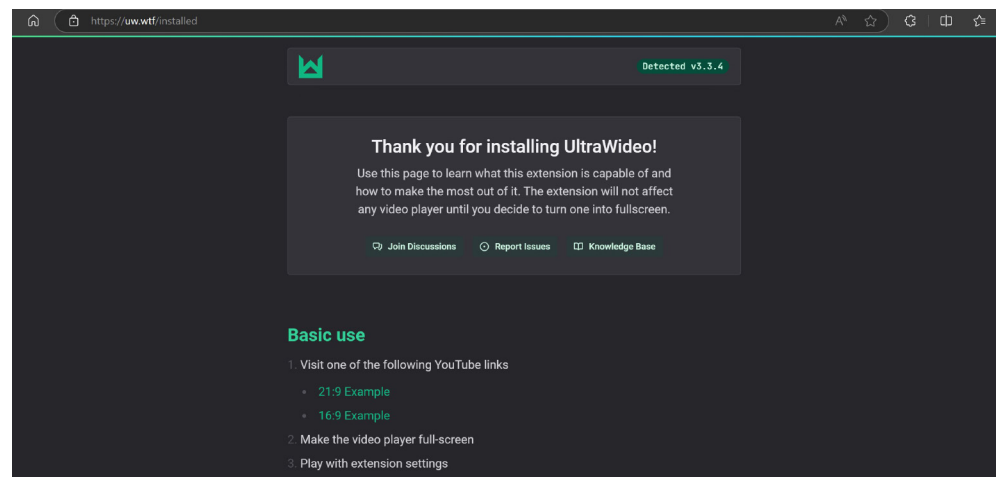
b) Download it



c) Add “UltraWideo” as extension

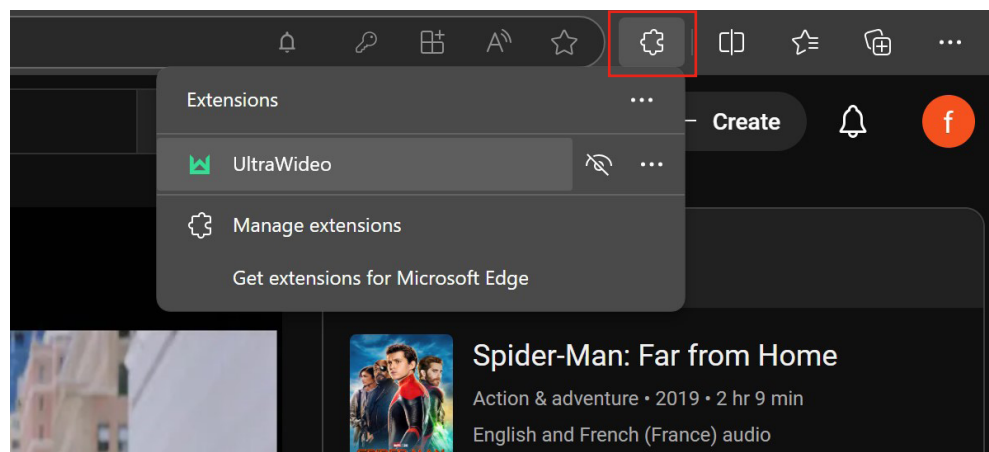


d) Installing done

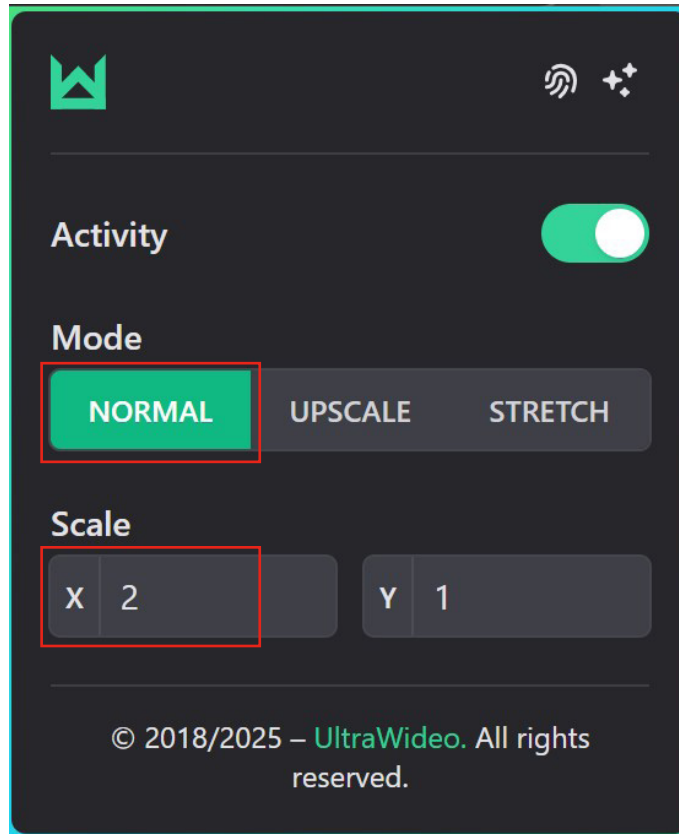


Step 2. Configure UltraWideo

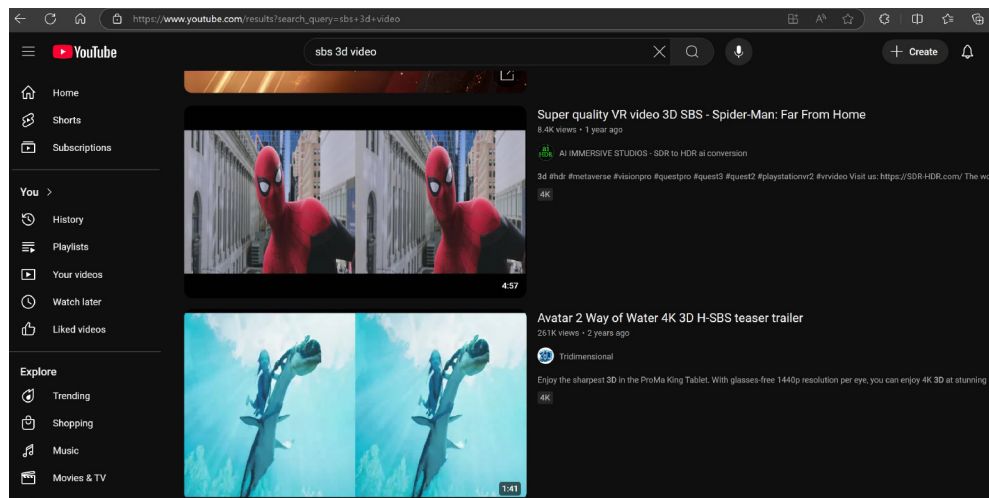
Click Extensions icon on Microsoft Edge and find UltraWideo:



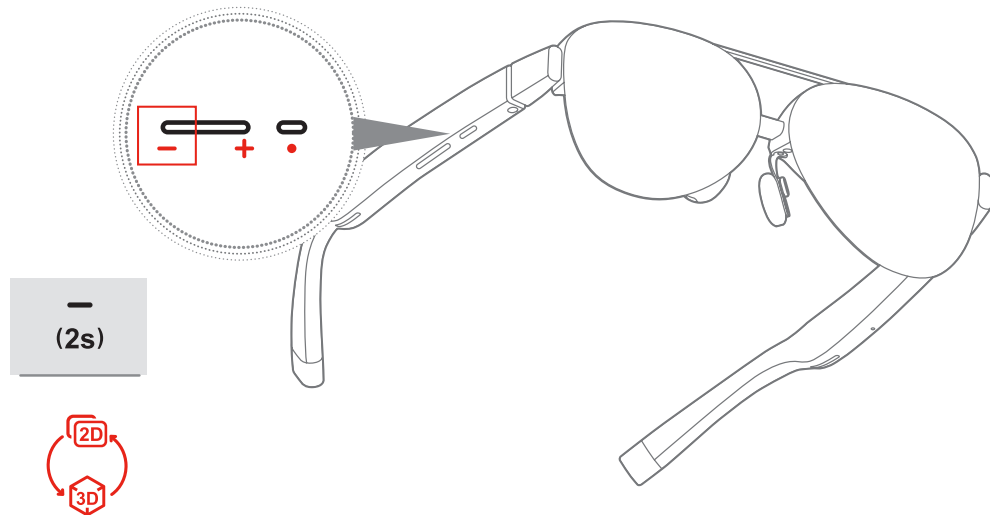
Click UltraWideo and chose **NORMAL** Mode and change the Scale X to **2**



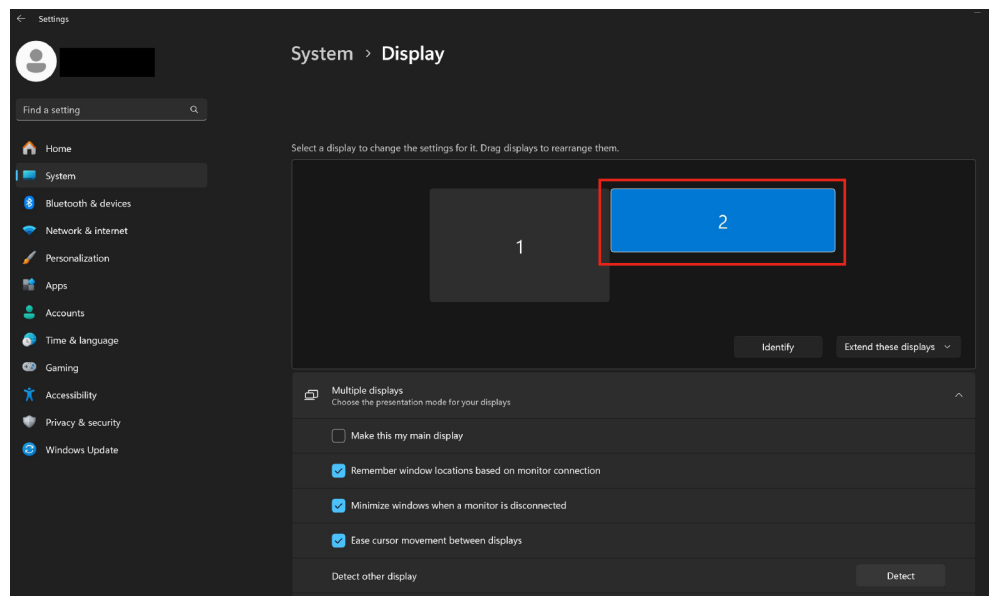
Step 3. Find the SBS 3D videos you want to watch on Youtube.com



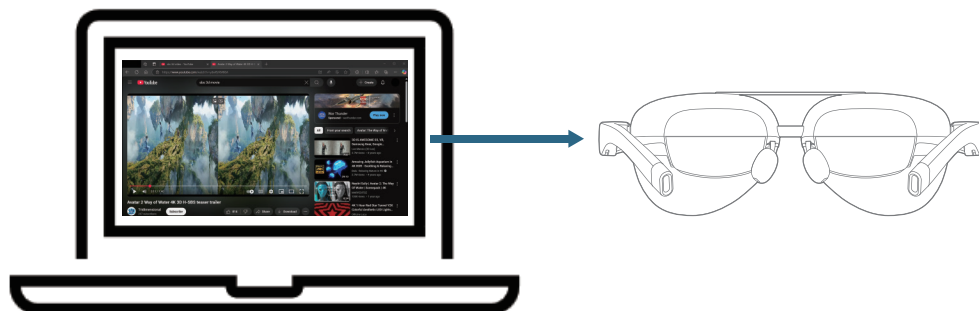
Step 4. Connect the Legion Glasses (Gen2) to your PC and press the button  on glasses for 2 seconds to enter 3D mode.



After entering 3D mode, you will get an extended display with 3840*1080 resolution in Display settings. This extended display is Legion Glasses (Gen2) with 3D mode.



Step 5. Wear the glasses and drag the Browser window from your PC to the extended screen in Legion Glasses



Step 6. Make the web player full screen and enjoy the 3D video

After you can see this Browser window in the glasses whatever in your left eye or right eye, you can click the Full Screen button on the player or click F (shortcut key) on your keyboard to make the video full-screen play.

