

Pimax Crystal Light

User Guide



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1. In The Box

Crysta Lightl Standard SKU	Crystal Light	1 unit	Crystal HMD with original cover and 35PPD lens installed
	Controller	1 pair	Functions with the Standard Faceplate and MR Faceplate
	DP Cable	1 unit	For connection between HMD and PC
	AC Adapter	1 unit	Used to Charge Batteries without the HMD
	After-sales service card	1 copy	An after sales service card.....what else do you want to know about it?



CAUTION READ CAREFULLY

Please confirm that the voltage of your power supply and AC adapter is the same.

2. Important Health & Safety Notes

- This Product Is Designed And Intended To Be Used In An Open And Safe Indoor Area, Free Of Any Tripping Or Slipping Hazards. To Avoid Accidents, Remain Conscious To The Potential Confines Of Your Physical Area And Respect The Boundary Of Your Virtual Area Whenever You See It. Be Sure To Wear The Lanyards When Using The Controllers. Make Sure That There Is Enough Space Around Your Head And Body (At Least 2 Meters By 2 Meters) To Stretch Your Arms To Avoid Damage Or Injury To Yourself, Others, And Your Surroundings.
- This Product Is Not Recommended For Children Aged 12 And Under. It Is Recommended To Keep Headsets, Controllers And Accessories Out Of The Reach Of Children. Teenagers Aged 13 And Over Must Use It Under Adult Supervision To Avoid Accidents.
- Do Not Expose The Optical Lenses To Direct Sunlight Or Other Strong Light Sources. Exposure To Direct Sunlight May Cause Permanent Yellow Spot Damage On The Screen. **Screen Damage Caused By Sunlight Exposure Or Other Strong Sources Of Light Is Not Covered By The Warranty.**
- This Product 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 Against Or Impair Your Prescription Lenses. If Your Prescription Lenses Do Not Fit, Contacts Can Also Be Worn Inside The Device.
- This Product Supports Both Manual And Auto IPD Adjustments. Please Pay Great Attention When Manually Adjusting The IPD. When Set To The Minimum IPD The Sides Of The Lens Barrel May Touch The Bridge Of The Nose. This Is Normal. Please Note That Using An Inappropriate IPD May Increase The Risk Of Discomfort.

3. Operation Guide

3.1. PC VR

3.1.1. PC Performance Requirements

GPU	NVIDIA®GeForce RTX 2070 and above
CPU	Intel® Core™ i5-12500/ AMD Ryzen™ 7 3700X and above (Avoid using CPU with integrated GPU)
RAM	16GB and above

For more detailed system requirements, please refer to the official website: <https://pimax.com/>

✖ If you switch modes while the headset is on, the headset will restart automatically. This is normal.

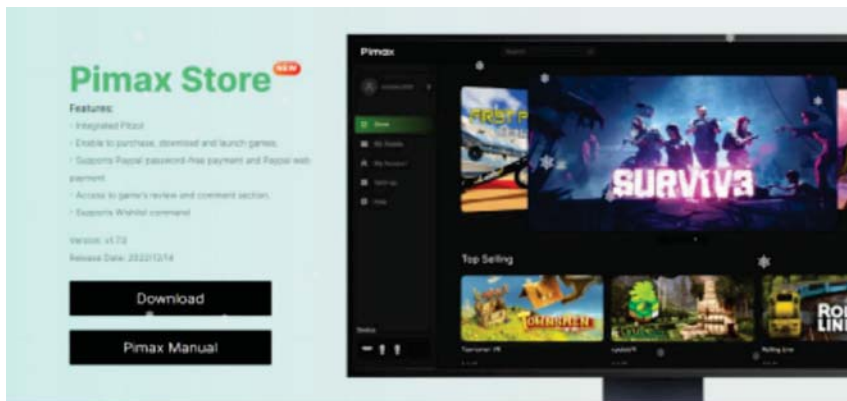
3.1.2. How To Download And Use The Pimax Play

Step 1: Confirm That SteamVR Has Been Installed

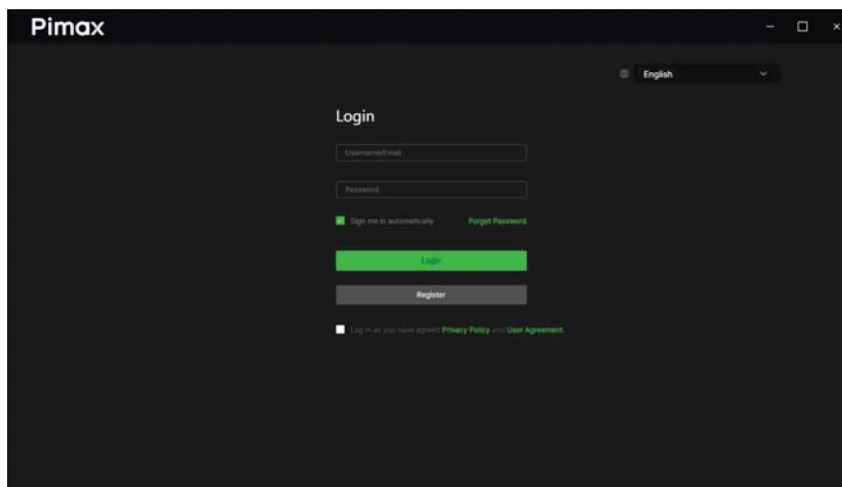
Step 2: Download and install the Pimax Play

Pimax Play is a tool necessary for your Pimax headset to connect to a Windows 10/11 computer:

<https://pimax.com/downloads-manuals/>



Step 3: Register and log in to the Pimax Play



3.1.3. Product Details (PCVR)



01. Faceplate

02. Tracking Camera

03. Speaker

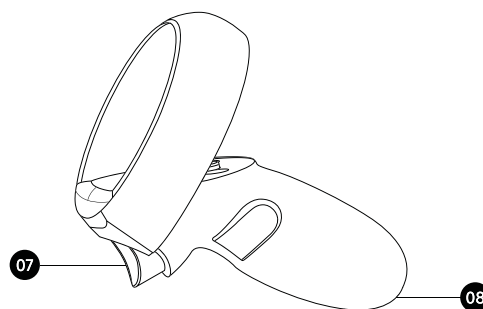
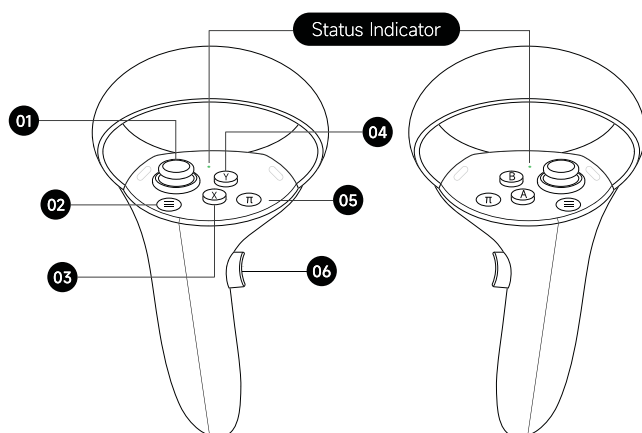
04. Facefoam

05. DP Cable

06. HeadStrap

07. Top Headstrap

3.1.4. Controller Functionality And Controls



01. Joystick

Push: Turn pages
Press down: Confirm

02. Menu

03. X/A Button

Click: Confirm

04. Y/B Button

Click: Back

05. π Button

Long press(9s):
Reset/initialization of the controller
After reset, the controller will vibrate once.
Short press(1s):
Turn on/wake up the controller.

06. Grip

Hold: Grab

07. Trigger

Click: The same as the A button. Confirm

08. TYPE-C I/O

Controller charging I/O

Controller Status Indicator Legend

○ Off: Connected or Powered off

⚡ Red flashing: Charging

⚡ Blue flashing: Searching for connection (Turn off after 60s)

● Green: Paired (Turn off after 30s)

● Red flashing slowly: Low battery

● Blue: Cancel Paired (Turn off after 60s)

○ White: Charging complete

⚡ White flashing: Firmware update

● Yellow light: Paired to the PC, not connected to the base station (the light will turn off after 30s)

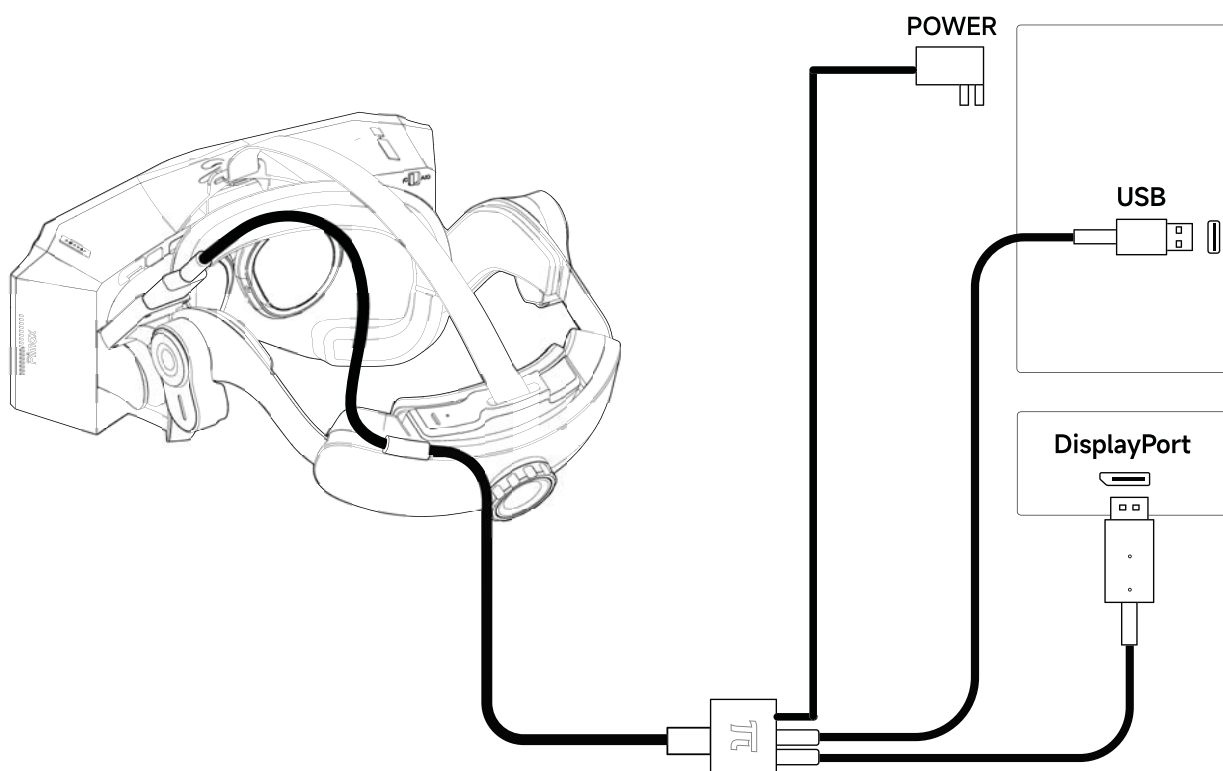
3.1.5. Connect To PC

Step 1: Connect the DP cable. Put USB plugs into the USB of your PC, and the DP cable into the Displayport on your Graphic card.

Step 2: Connect the power adapter to the DP Cable.

Step 3: Pimax Logo lights up in your HMD

✂ For a more detailed guide, please refer to the PimaxClient beginners guide.



3.1.6. New Controller Pairing (Left And Right Controller Need To Be Paired Separately)

Step 1: Charge the controller for at least 15 minutes before pairing to ensure sufficient power of the controller.

- ✂ When the indicator light Flashes Red, it is charging. If the indicator does not flash, re-plug the charging cable or press the π button.

Step 2: Cancel pairing: Press the menu button + π button at the same time until the blue light is on.

- ✂ It is paired by default when leaving the factory.

Step 3: Click SET PAIR in the Pimax Play, then press and hold Menu+B/Menu+Y until the controller's indicator light begins flashing blue.

Step 4: According to the prompt, and then click PAIR in the Pimax Play.

- ✂
 - The pairing of controllers needs to be done individually one by one.
 - During the pairing process, it is necessary to ensure that the headset is not in sleep mode.

Step 5: Wait for the controller's green indicator light to come on. Once the light comes on the Pimax Play will that the controllers have been paired and the UI should show the controller graphic illuminated in the color green.

3.1.7. How To Adjust The Headset For A Comfortable Fit And View

Step 1: Adjust the strap dial located on the back of the main strap to tighten or loosen the fit.

Step 2: Fine-tune the top headstrap to adjust the headset's vertical position on your face.

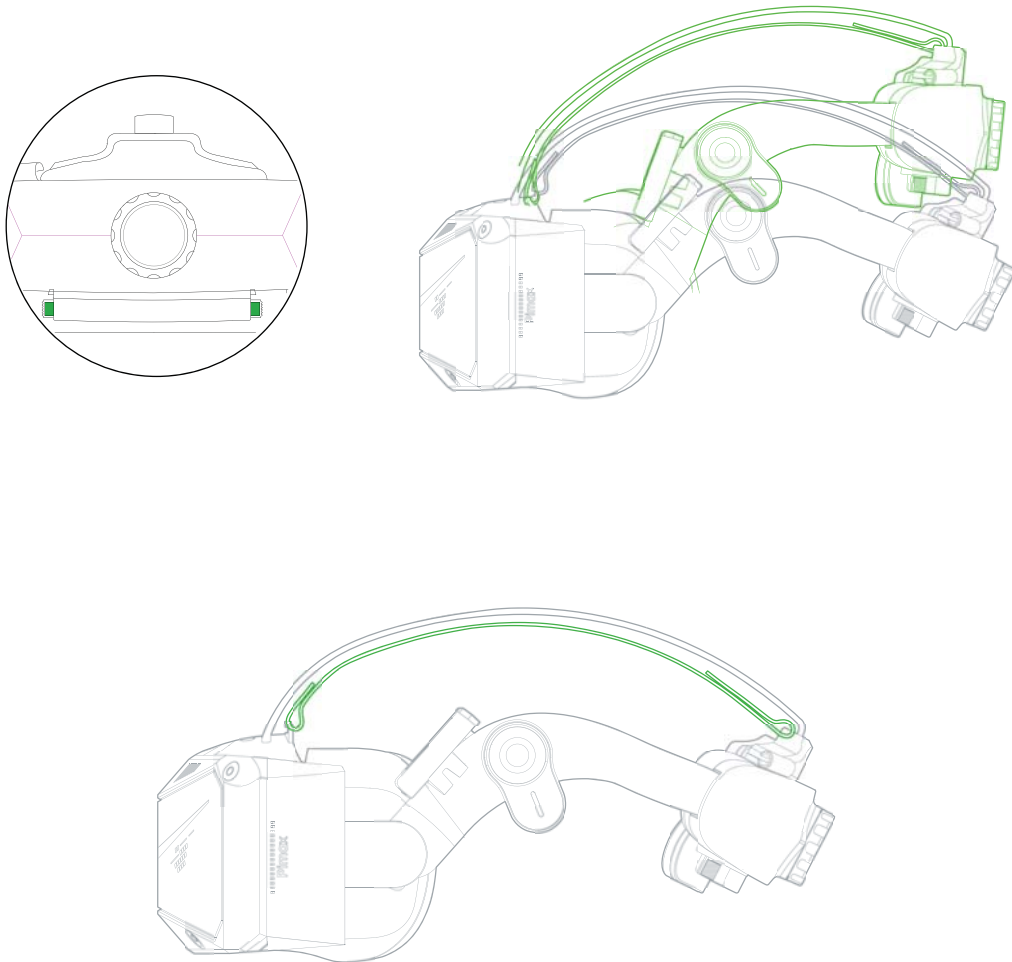
Step 3: Fine-tune the length and position of the straps until you are comfortable with the fit and visual experience.

Step 4: The Auto IPD feature will adjust the IPD to the appropriate position.

✂ You can also adjust the IPD in the "device settings → IPD" on the PimaxClient, enter the value of your IPD, and click "setting" to adjust the IPD to the appropriate position;

Step 5: Press the headband down to the back of the head and tighten the strap dial.

Step 6: Adjust the head strap to reduce pressure on the forehead.



- ⚠ CAUTION READ CAREFULLY**
1. Do not forcibly move the lens cylinder to avoid damage!
 2. Please note that improper IPD may cause visual ghosting or eye fatigue. Accurate IPD settings help to obtain clear images and reduce eye fatigue.

3.1.8. How To Update Firmware

Open the Pimax Play on your PC. Navigate to "Device Settings → Check for Updates" in the client. Pimax Play; The system will check the currently installed software and firmware version, and will prompt you to perform an update if there is a new version available on the server.



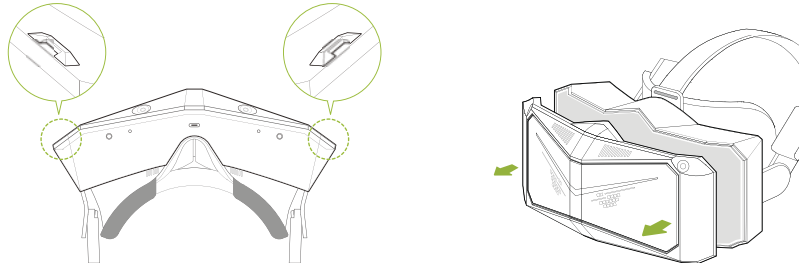
CAUTION READ CAREFULLY

1. When updating the device firmware, the headset must be paired with the controllers to perform the OTA update;;
2. Before updating the firmware, please check the power of the headset and controllers. We that you only perform updates when the power of the headset and controllers More than 3 battery lights;
3. Please do not unplug the USB cable or turn off the computer when updating the device firmware;

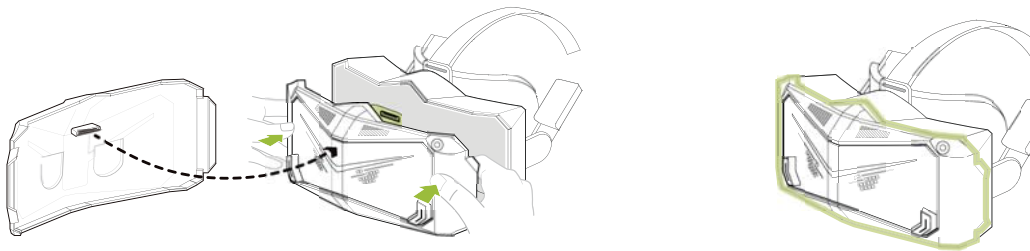
4. Parts Replacement

4.1. Faceplate Replacement

Step 1: Remove the Cover;



Step 2: Install and fasten the another Cover to be replaced according to the interface.




CAUTION READ CAREFULLY

When replacing the Cover, it is necessary to disconnect the power supply of the device, disconnect the DP cable and wear anti-static gloves.

5. How To Clean And Care For Your Pimax Headset

1. Cleaning And Caring For The Foam Facial Interface

Using a clean alcohol wipe, or a clean microfiber cloth dipped in a small amount of 75% alcohol solution, gently wipe the surface and surrounding areas in contact with the skin until the surface is slightly wet. Allow to dry for 5 minutes or until completely dry before use.

 **CAUTION READ CAREFULLY**

The foam facial interface will begin to exhibit signs of wear and tear after repeated cleaning and disinfection. Hand washing or machine washing is not recommended as it will accelerate the wear and tear. It is recommended to replace the foam occasionally as appropriate.


Leather PU Foam: discoloration, stickiness on the surface, and reduced comfort on the face;

Cloth Foam: discoloration, surface fuzzing, texture softening, glasses wearing users may have an increased chance of contact with the HMD lenses.

2. Lens Care

During use or storage, please be careful and prevent hard objects from touching the lens. Hard objects may damage the lenses.


Use a clean microfiber cloth, like those used to clean eyeglasses, to gently clean the lenses with a small amount of clean water or dry. Do not rub the lenses in a circular motion. Starting from the center of the lenses push the cloth out to the edge of the lenses to reduce the risk of scratches.

 **CAUTION READ CAREFULLY**

Do not use alcohol to clean the lenses, as it may cause damage to the lens coatings).

3. Headset (Excluding Lens, Sponge Mask), Controllers And Accessories Cleaning

Wipe the surface of the product gently with a sterilized wet towel (which can contain alcohol) or a micro-fiber dry cloth dipped in a small amount of 75% alcohol until the surface is wet and kept for more than 5 minutes, and then dry the surface of the product with a micro-fiber dry cloth.

 **CAUTION READ CAREFULLY**

Please avoid water entering the product body during cleaning.

6. Safety Warnings

To reduce the risk of personal injury, discomfort, or property damage, please ensure that all users of the headset carefully read the warnings below before using the headset.

Before using the headset

A comfortable virtual reality experience requires an unimpaired sense of motion and balance. Do not use the headset if you are sick, tired, sleepy, under the influence of alcohol or drugs, hungover, experiencing digestive problems, under emotional stress or anxiety, suffering from cold, flu, migraines, or headaches, or are not generally feeling well, as it may worsen your condition. Consult a doctor before using the headset if you have any conditions that impair your vision or mobility, are pregnant or elderly, have a heart or other serious medical condition, or suffer from seizures, migraines, or psychiatric conditions.

Safe environment

Pimax Crystal headsets produce an immersive virtual reality experience that may distract you and make it hard to see your actual surroundings.

- Before using the headset, clear the area of obstacles and hazards, people, furniture, and any other items that may prevent you from moving freely. Also, check that you have enough space above and around you so that you can extend your arms while using the headset.
- Remember that any virtual objects that you see do not exist in the real environment, and their size and location are not real. Do not attempt to sit or stand on virtual objects or use them for support. Be aware of any real-world objects that might be located behind virtual objects.
- Never use the headset in situations that require attention, such as while walking, bicycling, or driving. Do not use the headset while in a moving vehicle.
- Remember that while you are using the headset, you may be unaware of people entering the area.
- Do not use the headset near walls, stairs, balconies, windows, open doorways, low ceilings, ceiling fans, light fixtures, breakable items, open flames, heat sources, or any other items that you can collide with or knock down.
- Keep in mind the location of the cables and power cords so that you do not walk on, trip over, or pull on them while using the headset. Do not jerk, knot, or bend the cables or cords.
- Do not handle sharp or otherwise dangerous objects while using the headset.

Discomfort

When using the headset, some people may experience dry eyes, eye strain, eye or muscle twitching, involuntary movements, altered, blurred or double vision, or other visual abnormalities, dizziness, light headedness, disorientation, discomfort or pain in the head or eyes, headaches, impaired balance, impaired hand-eye coordination, excessive sweating, increased salivation, nausea, fatigue, loss of awareness, or seizures and other symptoms of motion sickness.

When you start to use the headset, keep your first sessions short and take regular breaks. If you feel discomfort, stop using the headset and continue only after the symptoms have ended. Do not drive, operate machinery, or engage in other visually or physically demanding activities until you have fully recovered from any symptoms. Consider consulting a doctor if you are not able to see virtual objects clearly and comfortably.

Overuse

Take regular breaks when using the headset. Prolonged use may impact your hand-eye coordination or balance and may cause other negative effects.

Repetitive stress injuries


Use the headset in a comfortable position. Do not use excessive force when gripping the headset or pressing the headset buttons. If you experience tingling, numbness, burning, stiffness, throbbing, or other discomfort, stop using the headset and rest until you have fully recovered from any symptoms. If you continue to experience these symptoms, consult a doctor.

Interference with medical devices

The headset may emit radio waves, which can affect the operation of nearby electronics, including cardiac pacemakers, hearing aids, and defibrillators. If you use a pacemaker or other implanted medical device, do not use the headset without first consulting a doctor or the manufacturer of your medical device. Maintain a safe distance between the headset and your medical devices and stop using the headset if you observe any interference with your medical device.

Hearing loss

Excessive exposure to loud sounds can cause hearing damage. When using headphones with the headset, start with the volume at a low level and increase the volume slowly if needed. Do not turn up the volume too high.

1. Symbol ;
2. "high sound pressure" or equivalent wording;
3. "hearing damage risk" or equivalent wording;
4. "do not listen at high volume levels for long periods" or equivalent wording.

Seizures

Some people may experience severe dizziness, fainting, epileptic seizures, or blackouts triggered by light flashes, patterns, or exposure to infrared light sources of an eye tracker even though they have no history of these conditions. If you experience any of these symptoms, stop using the headset and consult a doctor. If you have a previous history with these symptoms, consult a doctor before using the headset. To reduce the likelihood of a seizure, do not use the headset if you are tired.

No eye protection

Pimax Crystal headsets do not provide eye protection against impact, debris, chemicals, UV light, other harmful lights, particles, projectiles, or other physical hazards.

Electrical shock

Do not try to disassemble, open, service, or modify the headset or power supply unit, as this can lead to electrical shock or other hazards and may damage the headset or the power supply unit.

7. Warranty Regulations

Within the period of validity of the regulation, you can enjoy the right to repair, replace and return goods in accordance with this provision. The above shall be handled with invoices or relevant valid shopping vouchers.

Important Tips

The Following Situations Are Not Within The Scope Of The Regulation

- Damage caused by failure to use, maintain and keep in accordance with the requirements of this product manual;
- Gifts and packaging boxes other than this product;
- Damage caused by disassembly, modification and maintenance of unauthorized service providers;
- Damage caused by fire, flood, lightning and other force majeure;
- The warranty period has expired.

FCC STATEMENT

1. 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.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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 into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.