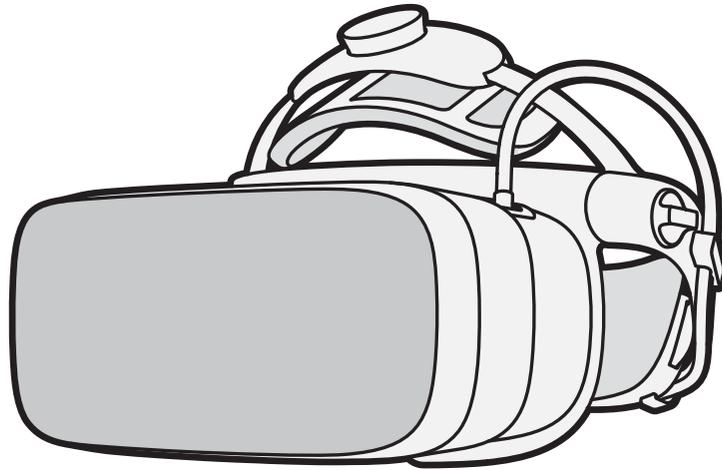




# User guide

Varjo Aero





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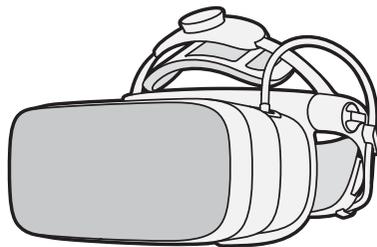
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עברית

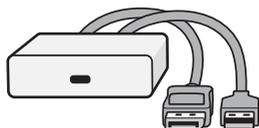
# In the box

## Varjo Aero

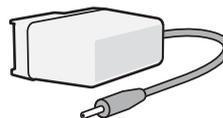
Virtual reality headset



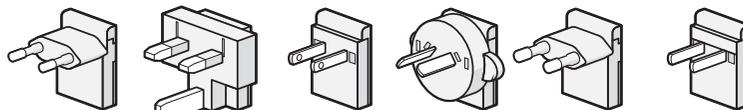
Headset adapter



Power supply unit



6 power plugs



EURO

UK

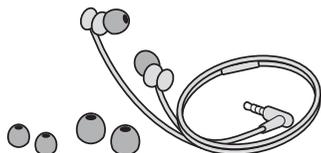
US

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KOR

CHN

In-ear headphones



Cleaning cloth

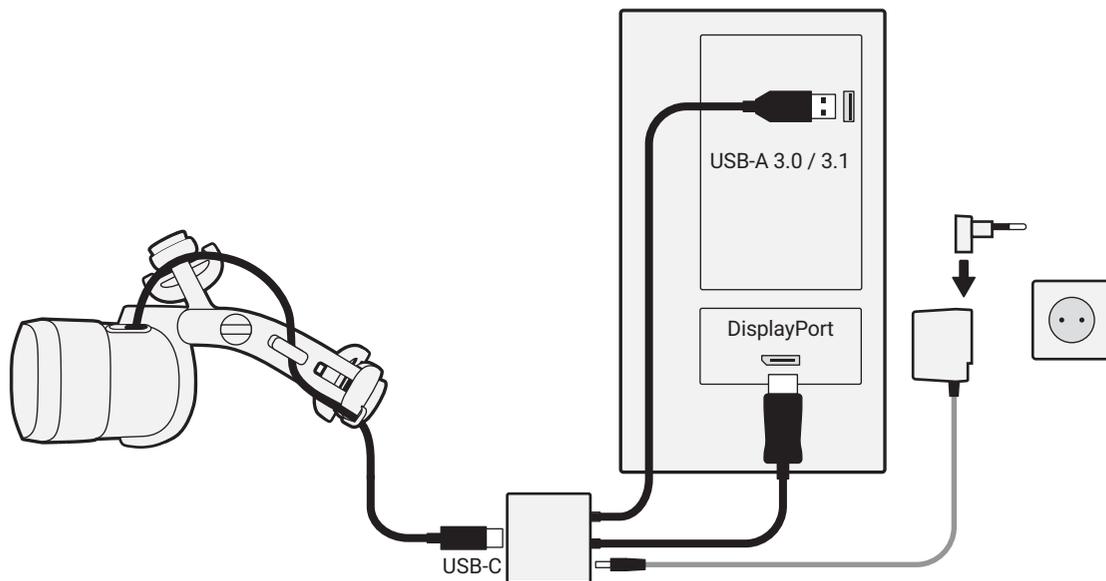


# Connect the headset

Varjo Aero is compatible with Windows 10 computers.

1. Headset cable: Connect to the headset adapter.
2. Headset adapter: Connect to a DisplayPort port on the graphics card and to a USB-A 3.0 / 3.1 port on the motherboard.

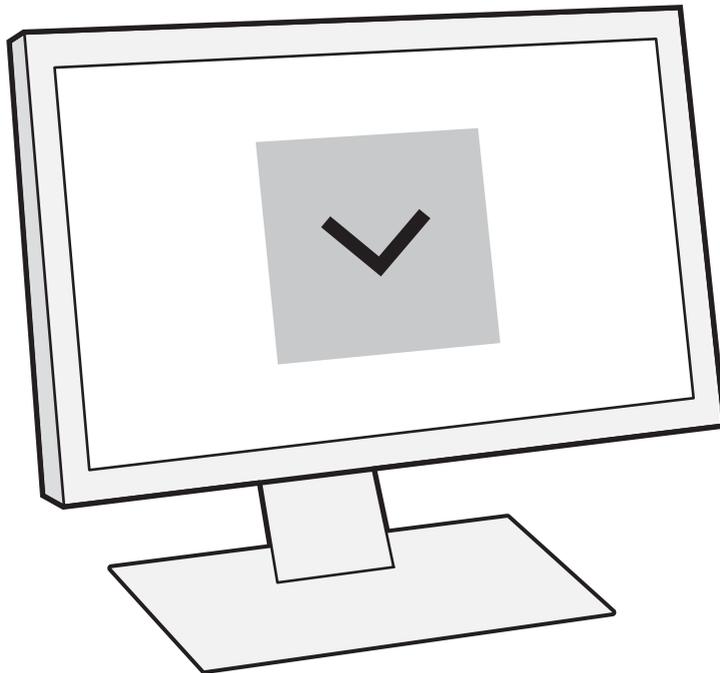
For more detailed system requirements, see [varjo.com/start/system](https://www.varjo.com/start/system) .



# Download Varjo Base

Varjo Base is the software used to run your headset on a Windows 10 computer. Download Varjo Base to get started.

1. Go to **varjo.com/start**.
2. Select your headset model.
3. Follow the setup instructions.



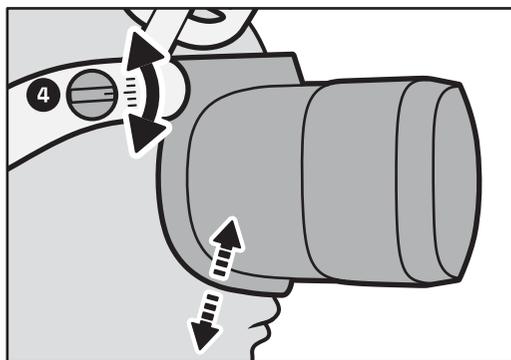
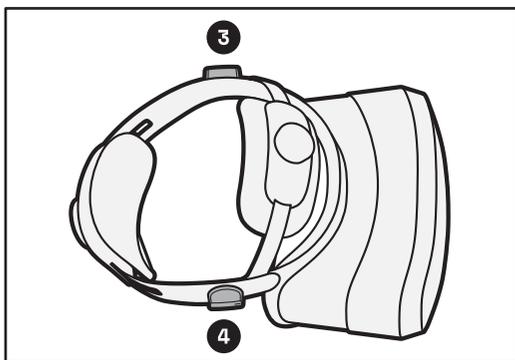
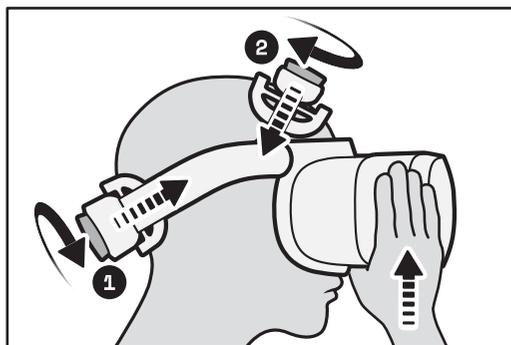
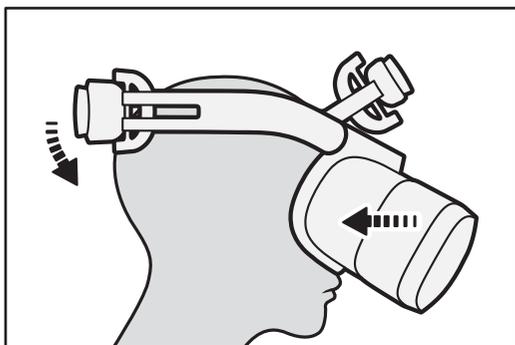
# Put on the headset

To put on the headset, place the front of the headset on your face and pull the headband over the back of your head. You can wear most single-vision eyeglasses while using the headset.

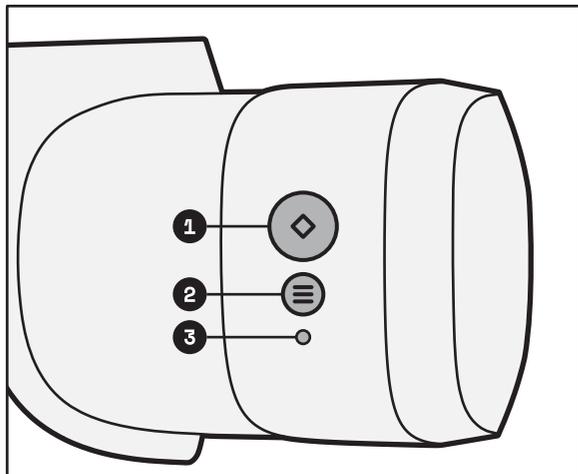
Adjust the fit and comfort of the headset when you put it on:

- 1 : Rotate the back adjustment wheel to tighten the headband.
- 2 : Rotate the front adjustment wheel to move the headset up or down on your head. Support the headset body with one hand while adjusting.
- 3 and 4 : Use the side knobs to adjust how the headset fits around your face.

The headset is correctly adjusted when it sits comfortably on your head and the image inside the headset is sharp.



## Using the headset

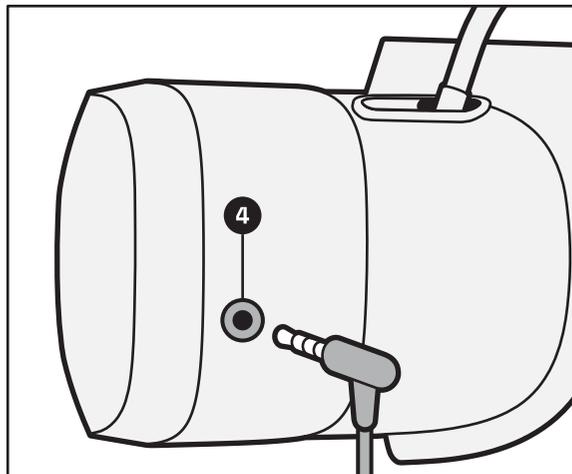


1 Action button: Interact with your applications

2 Menu button: Open the Menu

3 LED status light

LED pattern	Headset status
White (blinking)	Starting up
Green (solid)	Working normally
Green (pulsing)	Idle
Green (blinking)	Shutting down
Orange (solid)	Varjo Base not running



4 Headphone connector

## Cleaning the headset

Clean the headset regularly, especially when sharing a headset with others.

Headset lenses: Clean gently with optical lens wipes or a microfiber lens cloth.

Headset body, cushions, nose area, and areas surrounding the lenses: Clean with non-abrasive antibacterial wipes.

You can purchase additional cushions for your headset.



# Product and safety information

Please read through and familiarize yourself with these instructions before you start to use the headset.

## Intended use

The headset is intended to be used indoors and by adults only. If you do not use the headset as intended, it may cause the headset to malfunction.

## High-risk use

Varjo software and/or products are not designed, engineered, or certified for control of any equipment or system, including aviation, industrial, commercial, military, or medical equipment or systems, in a way where such use or a malfunction of the software or products could with a meaningful probability lead to death or serious bodily injury of any person or animal, or to severe physical or environmental damage ("high-risk use"). VARJO STRONGLY ADVISES AGAINST USING THE SOFTWARE OR PRODUCTS FOR ANY HIGH-RISK USE. If you still decide to use the software and/or products for high-risk use, you do so at your own risk, assume all liability, and agree to take all reasonable precautions to minimize any risk and damage resulting from such high-risk use and/or failure of software and/or products in such high-risk use.

## Product type label

The model name and serial number of the headset are printed on the type label located on the back support of the headband.

## Health and 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

Varjo 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.

### **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**

Varjo 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. For PLUGGABLE EQUIPMENT, the socket-outlet shall be installed near the equipment and shall be easily accessible. Use the headset only with the power supply unit (Adapter Technology Co., Ltd. (ATS036T-W120V(Level VI)) INPUT Universal 100 ~ 240 Vac / 50 ~ 60 Hz, 1A, OUTPUT +12V / 0~3A and headset adapter included in the sales box. Using other power supply units may be dangerous.

### **Damaged or broken device**

Do not use the headset if any part is broken or damaged, the provided cables are torn, or any wires are exposed. Do not try to repair any part of the headset yourself. Repairs should be made only by an authorized service facility or Varjo.

### **Contagious conditions**

To avoid the risk of transferring contagious conditions from one person to another, do not share the headset with persons with infections or diseases, particularly of the eyes, skin, or scalp.

### **Skin irritation**

Stop using the headset if you experience swelling, itchiness, or other irritation. If the symptoms persist, consult a doctor.

## **Safety information**

To prevent injury to yourself or others or damage to the headset, read this safety information before using the headset.

### **Wearing the headset**

When you put on the headset for the first time, follow the instructions on how to position the headset correctly on your head. The headset is correctly adjusted when it sits comfortably on your head and the image inside the headset is sharp. There should be no pain or pressure on your head, and the cushion should feel comfortable on your face.

When you put on the headset, it will adjust the lenses automatically based on your interpupillary distance. This setting is on by default. We recommend that you keep the setting on. Switch off the setting if the automatic adjustment does not work for you, for example due to eyeglasses, sensitivity to infrared light, or any conditions that impair

your vision. If you switch off the automatic adjustment, you may feel discomfort when using the headset.

## Reflective surfaces

Please be aware that reflective surfaces may interfere with positional tracking.

## Care and maintenance

Handle the headset with care and keep it in a clean and dust-free place.

## Sunlight and external light sources

Do not leave the headset in direct sunlight or strong ultraviolet light. Exposure to direct sunlight can damage the optics and display. Do not shine a laser or an external light source through the lenses.

### Damage

- Do not drop or bend the headset or knock it against other objects.
- Lift the headset by holding the headset body or the headband.
- Do not lift the headset by holding the cushions or cables.
- Do not step on the cables.

### Damage requiring service

Use only qualified personnel to service the headset. Contact an authorized service facility if:

- The headset has been exposed to liquid or dropped.
- The headset has been subjected to impact or is damaged.
- The headset overheats.
- The headset does not operate normally when you follow the operating instructions.

## Cleaning

Unplug the headset from its power source before cleaning. Clean the headset body with non-abrasive anti-bacterial wipes. Do not use soap, harsh chemicals, alcohol, cleaning solvents, liquid cleansers, or aerosols. Never use water to clean the headset. Clean the headset lenses and front plate gently with optical lens wipes or a microfiber lens cloth. Do not clean the lenses with any liquid or chemical cleansers. Clean the cushions with non-abrasive anti-bacterial wipes.

## Device temperature

It is normal for the headset to feel warm to the touch while in use. The air ventilation surfaces in particular may get hot. Prolonged skin contact with a headset that is hot to the touch may cause skin discomfort or redness, or low temperature burns. If your headset feels hot to the touch or is uncomfortably warm, stop using it and allow the headset to cool down.

## Accessories

Do not use the headset with any unauthorized or incompatible accessories or software. Using unauthorized accessories or software may cause performance issues or result in injury or damage. Check [varjo.com/support](https://varjo.com/support) for a list of compatible accessories or software.

## Operating and storage environment

### Placement

Use the headsets only in adequately ventilated areas.

- Do not cover the headset.
- Do not cover the ventilation holes on top or at the bottom of the headset.
- Do not place the headset near objects that could scratch the lenses.
- Do not expose the headset to open flames or lit smoking products.
- Do not place the headset near heat sources, hot areas, or extreme temperatures.
- Do not use the headset near water or other liquids.
- Do not use the headset after a dramatic change in temperature. When you move the headset between environments with very different temperatures and/or humidity ranges, condensation may form on or inside the headset. Allow enough time for the moisture to evaporate before using the headset.

**Note:** When you move the headset from low-temperature conditions into a warmer environment or vice versa, allow the headset to acclimate to room temperature before you turn it on. Use the headset at temperatures between 10°C to 27°C (50° to 80°F). Store the headset in its sales box at temperatures between 0°C to 40°C (32°F to 104°F) to minimize unintentional damage.

## Radio frequencies

Component	Rating	Frequency	Peak output power
Headset	12V, 3A	2.402–2.48 GHz	1 mW

## Recycling

The Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE), which entered into force on 13th February 2003, resulted in a major change in the treatment of electrical equipment at end-of-life. Check the local regulations for proper disposal of electronic products.



The crossed-out wheelee bin symbol on your headset, battery, reading materials, or packaging reminds you to take all electrical and electronic products, batteries, and used packaging materials to separate collection at the end of their working life. Do not dispose of these products as unsorted municipal waste; take them for recycling. For info on your nearest recycling point, check with your local waste authority.

## CE European Union notice

Hereby, Varjo declares that the Aero headset is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: [varjo.com/compliance](http://varjo.com/compliance).

## FC FCC and ISED Information to the user

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 when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at their own expense.

This Class B digital apparatus complies with the Canadian standard ICES-003.



### California Proposition 65

**WARNING:** Cancer - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## FCC and ISED Compliance statement

This device complies with part 15 of the FCC Rules and to RSS-247 of Innovation, Science and Economic Development Canada. 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. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## FCC and ISED Radiation Exposure statement

This equipment complies with FCC and Canadian radiation exposure limits set forth for an uncontrolled environment. These transmitters must not be co-located or operating in conjunction with any other antenna or transmitter.

## RoHS compliance

This equipment is in compliance with Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011, on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) and its amendments.

## Japanese Radio Law Compliance

This device is granted pursuant to the Japanese Radio Law (電波法).

This device should not be modified (otherwise the granted designation number will become invalid).

## User guide updates

Varjo reserves the right to update the information contained in this user guide. You can find the latest version at [varjo.com/downloads](http://varjo.com/downloads).