



# User Guide

Doc Rev. 1.1

# ARGO User Guide

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## In the Box

- ARGO smartglasses
- Cleaning kit
- Adjustment tool
- Soft headstrap
- USB Type-C cable
- Sun shades

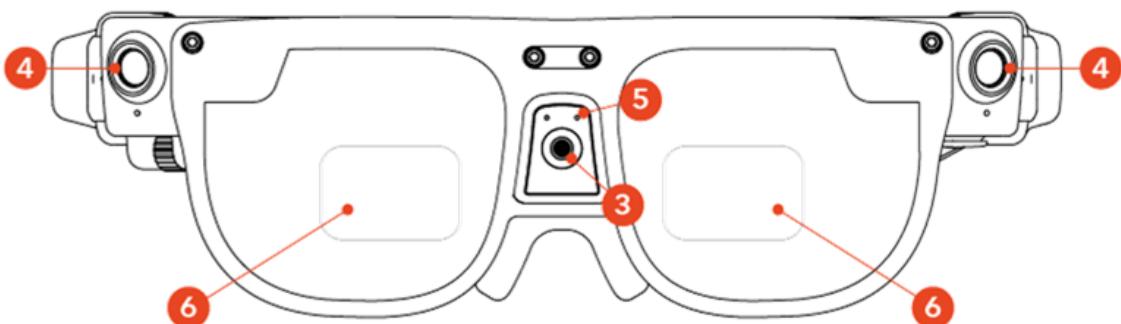
## Before Using

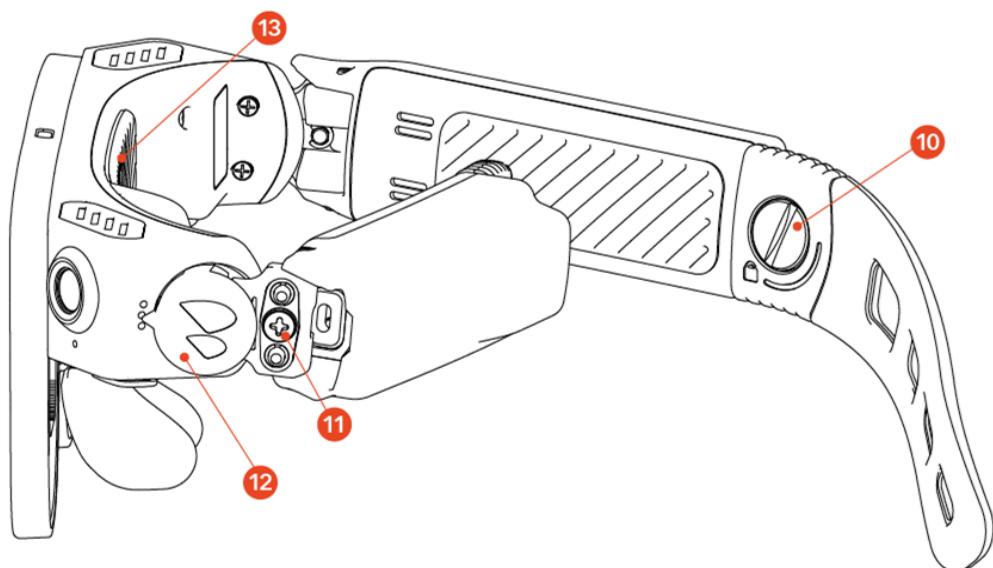
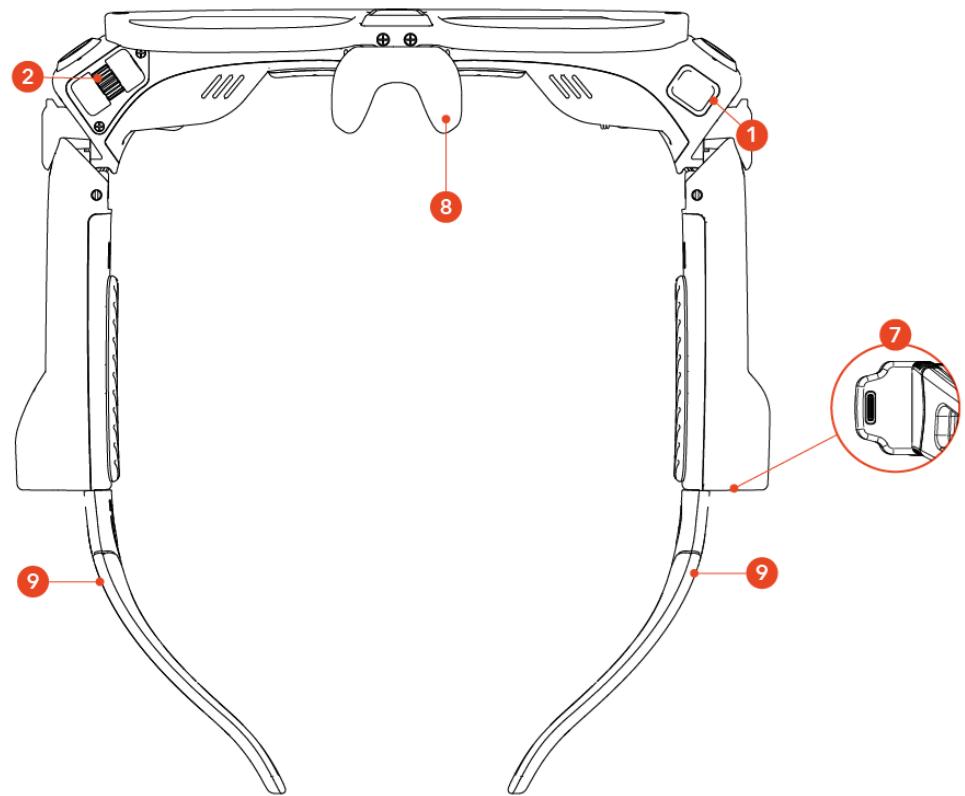
Please read in full before proceeding with using ARGO.

- Descriptions are based on operating ARGO at default settings.
- Some content may differ from your device depending on the region, model specifications, and/or device's software.
- ARGO may require a connection to a Wi-Fi network when using some apps or features.
- Content requiring high CPU and RAM usage will affect the overall performance of the device. Apps related to the content may not work properly depending on ARGO's specifications and environmental surroundings.
- DigiLens is not liable for performance issues caused by apps made by companies other than DigiLens.
- DigiLens is not liable for performance issues or incompatibilities caused by editing the registry settings or modified operating system software. Attempting to alter the operating system in any way may cause the device or apps to work improperly.
- Default apps that come with ARGO are subject to updates and may no longer be supported without any prior notice. If you have questions regarding a default app provided by DigiLens, contact the DigiLens support team at [support@digilens.com](mailto:support@digilens.com).
- Modifying ARGO's operating system or installing software from an unofficial source may cause the device to malfunction and data corruption loss. These actions violate the DigiLens license agreement and will void your warranty.
- For full regulatory information, see the *ARGO Regulatory Information document*.

# Product Details

1. Power button
  - Power on: Press & hold for 3 seconds
  - Power off: Press & hold for 1.5 seconds
  - Hard reboot: Press & hold for 10 seconds
2. Scroll wheel
  - Navigate: Scroll forward/backward
  - Select: Single press
  - Back: Double press
  - Home: Press & hold for 3 seconds
3. 48MP center camera
4. Dual side-mounted spatial tracking cameras
5. LED indicator
  - Green: Fully charged (plugged in)
  - Orange: Charging (plugged in)
  - Red: Charging, low battery OR Camera on
  - Flashing red: Battery critically low, <5%
6. DigiLens waveguides eye box
7. USB-C port for charging and data transfer
8. Nose bridge
9. Temple tips
10. Temple tip lock (both temples)
11. Temple tension adjustment (both temples)
12. Pantoscopic tilt adjustment (both temples)
13. Proximity sensor
  - Will turn off the display if device is not worn.
  - Feature can be shut off in software.

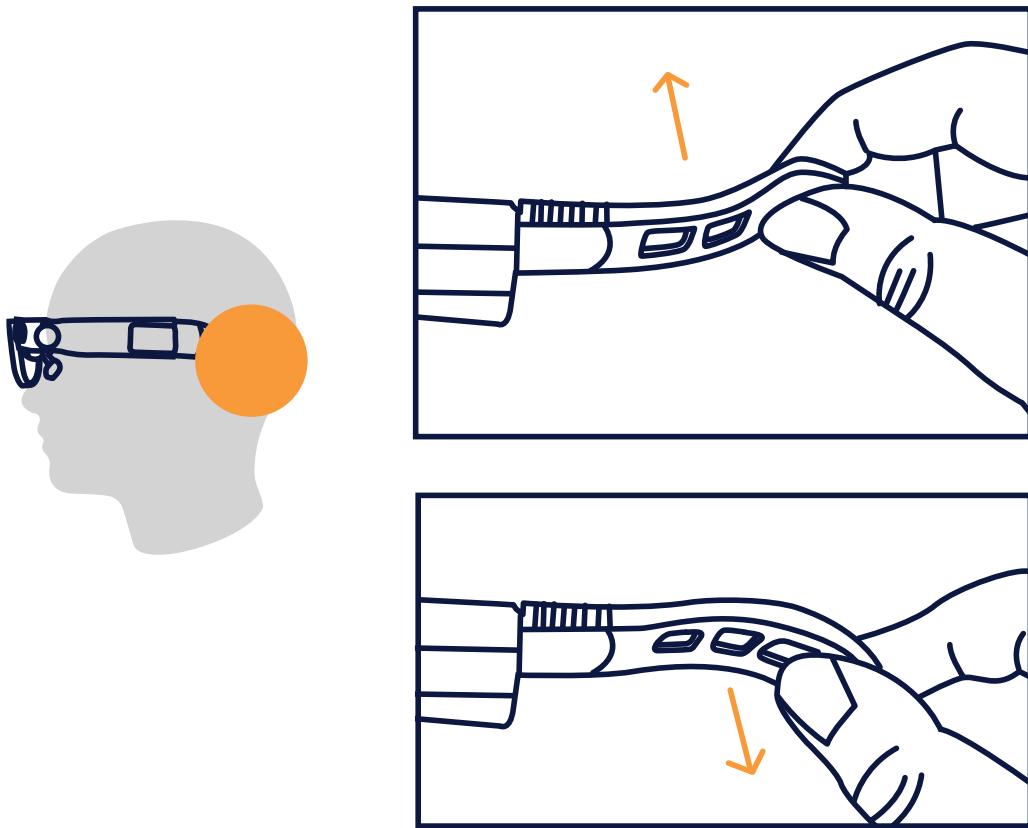




# Ergonomics

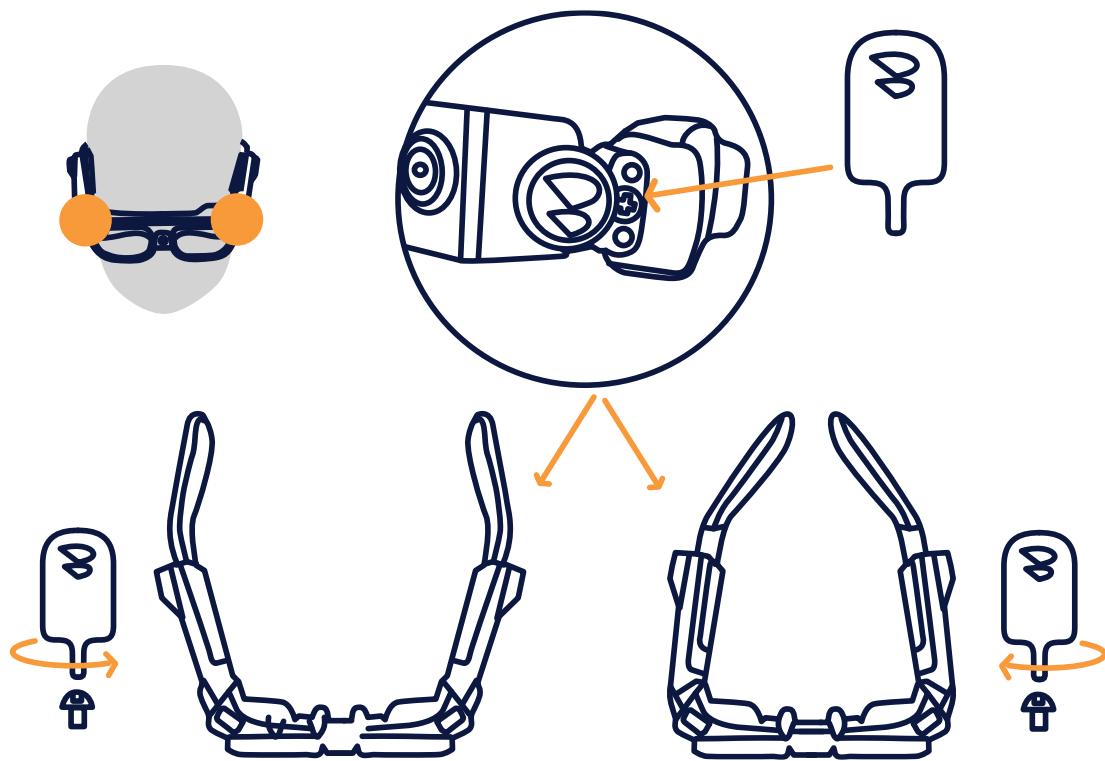
## Head Grip Adjustment

The temple tips at the back of the ARGO are made of flexible metal and designed to be adjusted. The ARGO glasses will feel most comfortable when these are firm against the back of the head, balancing the weight of the glasses uniformly. Bend the temple tips in and test placement of the glasses to find the optimal setting.



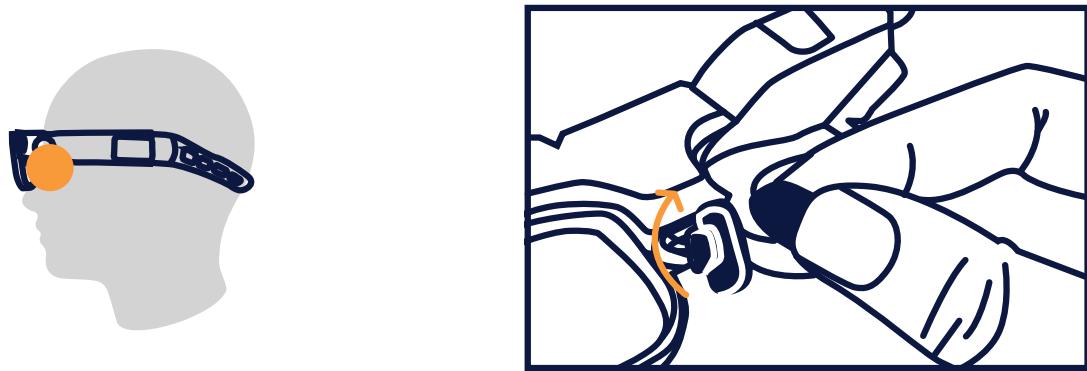
## Temple Tension Adjustments

Adjustment of the temple tension results in a tighter or looser fit of the ARGO glasses on the side of the head. The adjustment is made with the provided tool or a small Phillips screwdriver. The tension screws are only visible while the arms are closed on the device. Do not force the screws beyond their limits, and test the range of the arms often while adjusting. When using a head-worn accessory like the Halo Headstrap, loosen the tensioning screws completely before mounting.



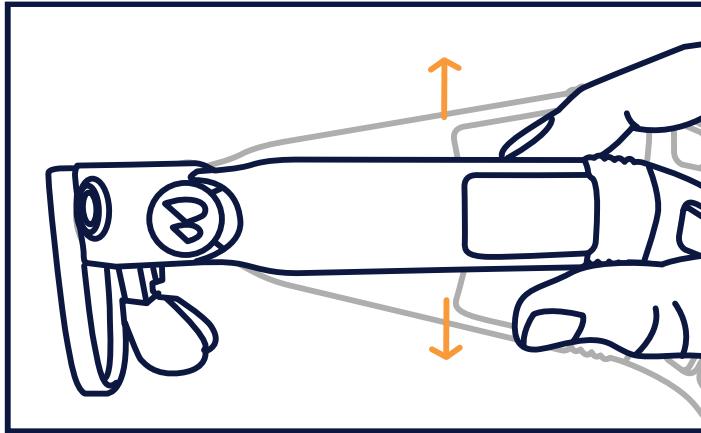
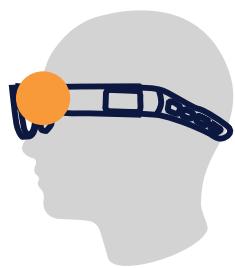
### Nose Bridge Adjustment

The nose bridge is made of flexible metal and can be shaped to fit different noses. Using two fingers grab and move the nose piece arms to adjust. Note that some force may be necessary to adjust the nose bridge properly.



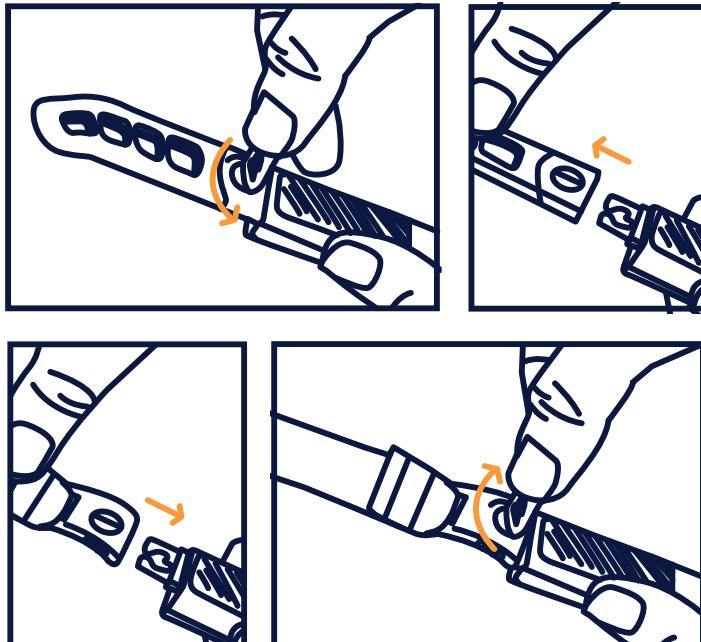
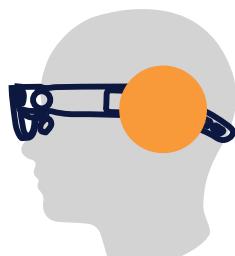
### Pantoscopic Adjustment

The ARGO arms rotate up and down to fit different head shapes and ear locations. Rotating the display relative to the head can also be used to adjust the vertical position of the virtual display. This adjustment can be done while wearing the glasses.



## Soft Headstrap Installation

The ARGO glasses can be used with a soft headstrap included in the accessories kit for a different head-mounting experience. To install the headstrap first remove the rubber temple tips using the large flat-head of the included adjustment tool. When the locking screw is parallel to the temple arms pull straight out. Insert the headstrap onto the arm mechanism and tighten locking screw following the direction marked on the plastic.



# Using DigiOS

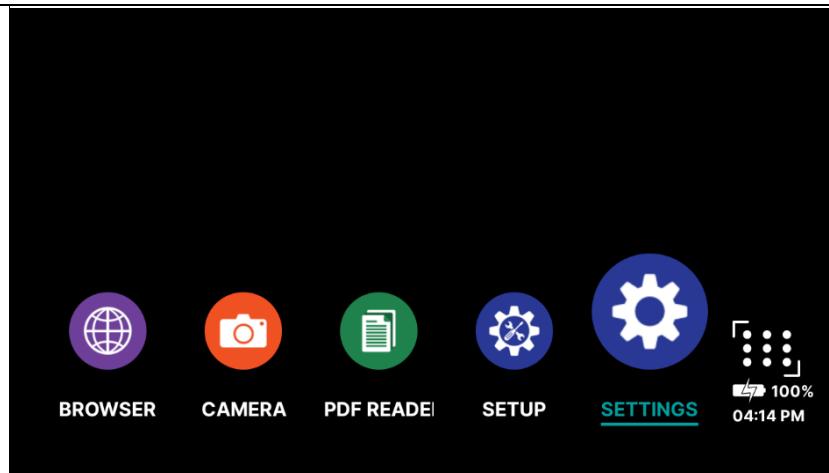
## DigiOS Voice Interface

ARGO and the DigiOS operating system can be controlled using voice commands. To get started try the following commands:

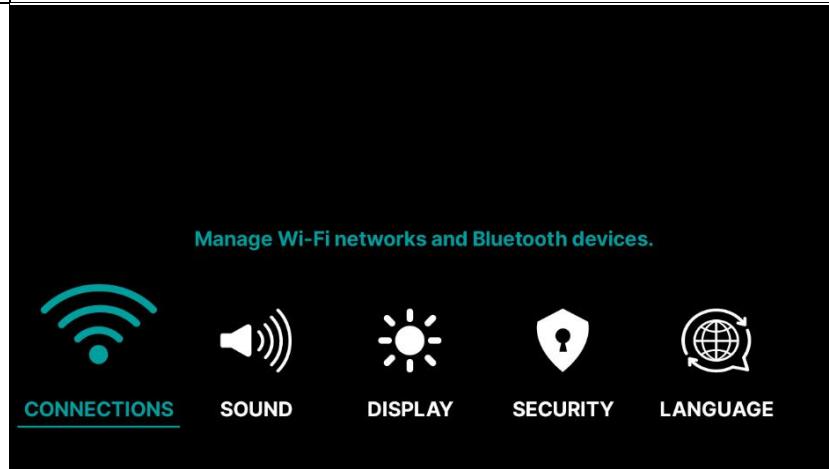
- To display available voice commands say “Show voice commands”.
- To open an application say “Open” followed by an app name, or “App drawer” to see all apps available.
- To return to the homescreen say “Return home”.
- To turn off your ARGO device say “Shutdown device”.

## Connecting to a Wi-Fi Network

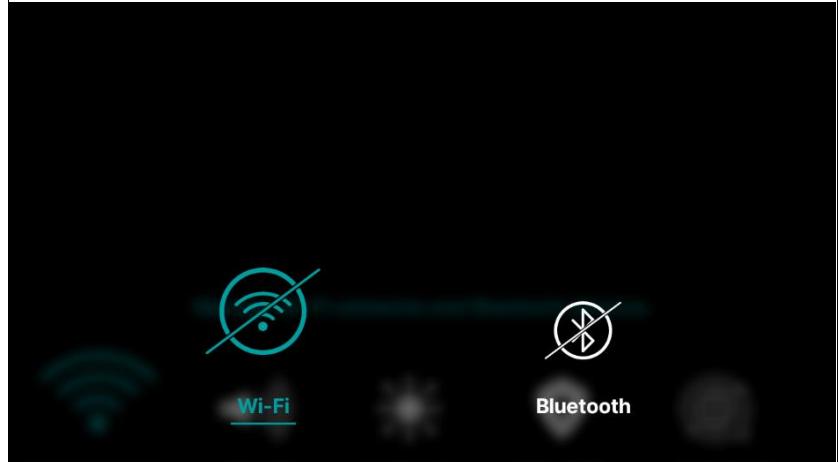
1. On ARGO, use the scroll wheel to highlight and select the **SETTINGS** application.



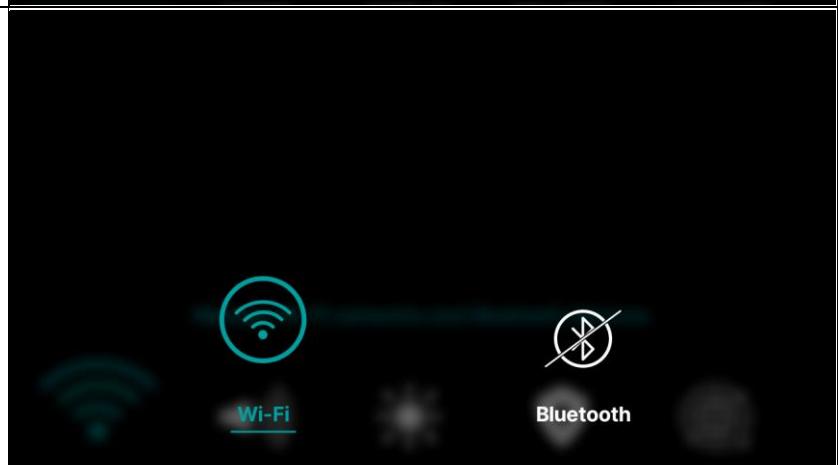
2. Next, highlight and select the **CONNECTIONS** icon.



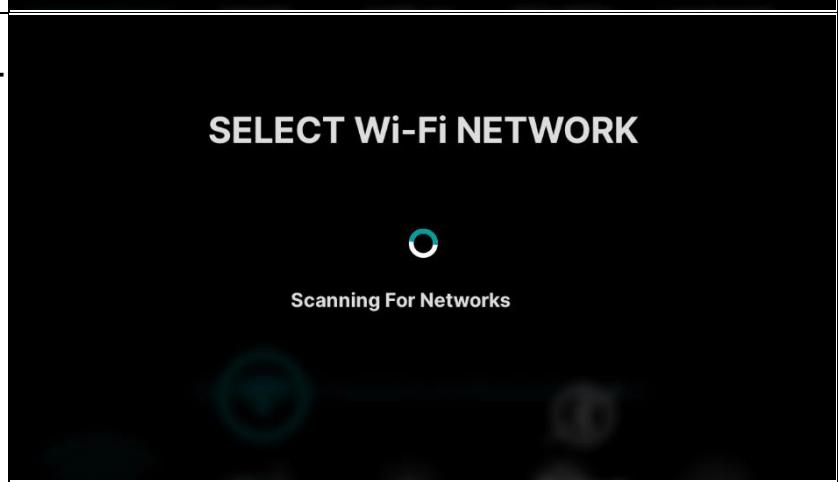
3. Click the **Wi-Fi** icon to turn it on (if it is not switched on already).



4. Once **Wi-Fi** is switched on, press and hold the scroll wheel to open the Wi-Fi list.



5. After applying the long press action, the **SELECT Wi-Fi NETWORK** menu will open and begin scanning for nearby networks.



6. The list of available nearby Wi-Fi networks will populate after scanning. Select the preferred Wi-Fi network with your scroll wheel.

## SELECT Wi-Fi NETWORK



BACK

Digilens-IOT

CBCI-9E1A

Digilens-Demo

FLIRONE\_068299

7. Enter your password (if needed).

**Digilens Guest**

Enter Password

password123

a b c d e f g h i j k l m  
n o p q r s t u v w x y z  
↑ 123& , ENGLISH . ← < > ✓

8. Once successfully connected, there will be a solid green dot to the left of the Wi-Fi network name.

**Wi-Fi CONNECTED**

BACK

● Digilens Guest

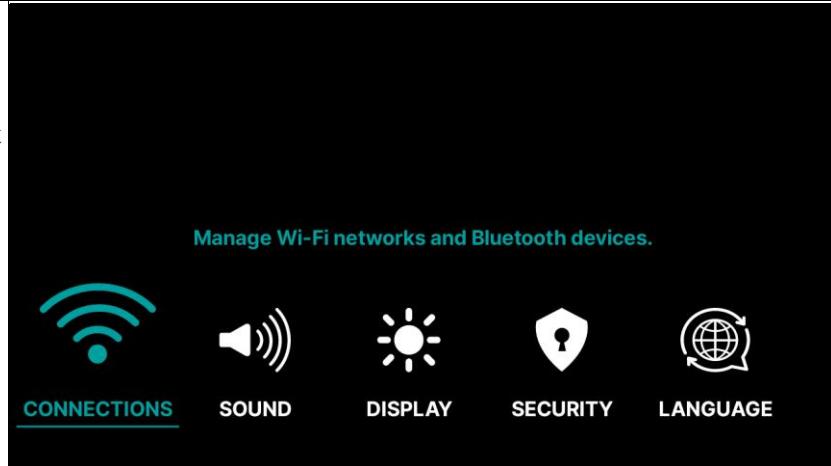
ngHub\_319473N303F52

Digilens-Demo

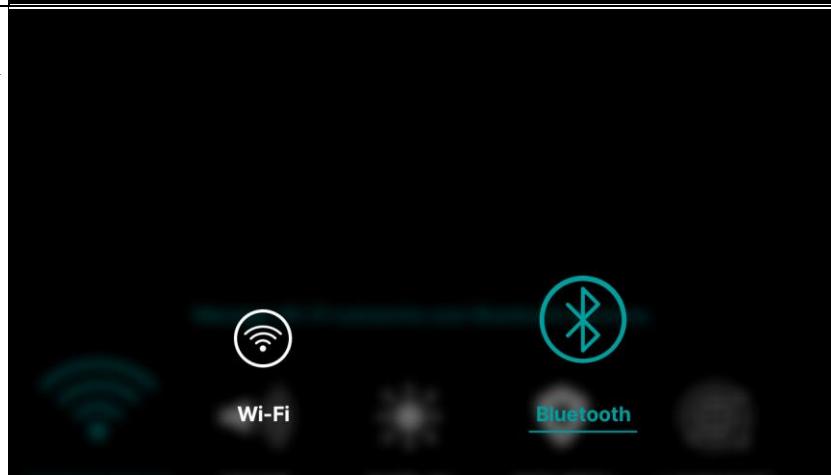
FLIRONE\_068299

## Connecting to a Bluetooth Device

1. Select the settings application from either the home screen or app drawer. Once in the settings app, select "CONNECTIONS."



2. Using the scroll wheel, highlight "BLUETOOTH" and press and hold the scroll wheel to open the submenu.



3. Turn on the Bluetooth keyboard and press the Bluetooth icon on the top left of the device. Wait for the keyboard's name to appear on the screen.

## SELECT Bluetooth DEVICES

[BACK](#)

NANTHANR-00204

Bluetooth Keyboard

4. A window will pop up and prompt the user to click "PAIR."

## SELECT Bluetooth DEVICES

Pair with Bluetooth Keyboard?

Allow access to your contacts and call history

[CANCEL](#) [PAIR](#)

5. Wait a few seconds for the pairing to complete. A teal dot will appear to the left of the name once successfully connected.

## SELECT Bluetooth DEVICES

[CONTINUE](#)

[● Bluetooth Keyboard](#)

NANTHANR-00204

Additional information as well as tools to develop software for the DigiOS platform can be found at [developer.digilens.com](http://developer.digilens.com)

# Temperature Warning & Precautions

When using features or apps that require more power, or when using them for extended periods of time, ARGO may temporarily heat up and become hot to the touch due to the increased battery consumption. If this occurs, close any running apps and do not use the device until the device has cooled to normal temperatures.

## Operating Environment

ARGO may heat up due to the environmental surroundings. Use caution to avoid shortening the batteries' lifespan, damaging the device, or causing a fire.

- Do not store ARGO in temperatures beyond -20C and +55C.
- Do not expose ARGO to direct sunlight for extended periods.
- Do not use or store ARGO in very hot areas, such as inside a car during the summertime, for extended periods.
- Do not place ARGO on top of areas that may overheat, such as an electrical heating mat or heated blanket.
- Do not use a cable that has its covering peeled off or damaged, and do not use any charger or battery that is damaged or malfunctioning.

# Battery Health, Tips, & Precautions

Charge the battery before using it for the first time or when the device has not been used for an extended period.

- Use only DigiLens-approved batteries, chargers, and cables that are compatible with ARGO. Incompatible batteries, chargers, and cables may cause serious injuries to you or damage your device.
- Connecting a charger improperly may cause serious damage to the device. Any damage caused by misuse is not covered by the warranty.
- Use only the USB-C cable supplied with the device or DigiLens-approved cables. The device may be damaged if you attempt to use a Micro USB cable.
- To save energy, unplug the charger when not in use.
- When using a charger, it is recommended to use a DigiLens-approved charger to guarantee Fast Charging.
- If the battery is completely discharged, ARGO will not be able to turn on immediately when the charger is connected. Allow the battery to charge for a few minutes before attempting to turn on the device.
- While charging ARGO, the charger may heat up. This is expected and should not affect the device's battery lifespan or performance.

## Water & Dust

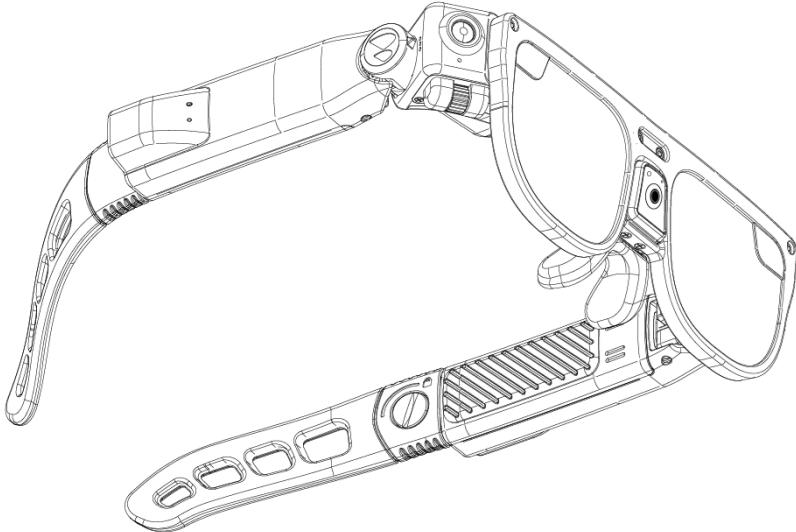
Your device has been tested in a controlled environment and certified to be water and dust-resistant in specific situations (meets requirements of classification IP65 as described by the international standard IEC 60529-Degrees of Protection provided by Enclosures). Despite this classification, it is still possible for your device to be damaged in extreme or unexpected situations.

## Display Precautions & Tips

ARGO is a wearable device. Always be aware of your surroundings while operating ARGO.

- Avoid using the ARGO glasses at full brightness while in a dark environment to avoid eye strain. By default, adaptive brightness is on, which will automatically adjust to environmental surroundings.
- As displays are transparent, quality of the virtual image will vary depending on environmental surroundings.

# Hardware Specs



## Display

Waveguides	<ul style="list-style-type: none"><li>• Greater than 85% see-through holographic waveguides</li><li>• Greater than 2,500 nits to the user's eyes</li><li>• 30° FOV, landscape design</li><li>• Crystal30 Waveguide Gen3</li></ul>
Projector	<ul style="list-style-type: none"><li>• LCoS and LED light engine with HD display</li></ul>

## Compute

- Qualcomm Snapdragon™ XR2 Gen 1 Platform, SoC based, 12 GB memory
- 8-encrypted-cores (FIPS 140-2 Level 1 & Level 2 capable)
- Multi-core neural/machine learning engine
- Inside-out tracking (3 DoF, 6 DoF, and SLAM)
- 128 GB UFS FLASH storage

## Camera

- 48MP with autofocus, lossless digital zoom, and low-light support
- Support for high-res video streaming and media capture applications
- Support for scanning barcodes and QR codes
- Optical and electrical image stabilization

## **Audio**

- Multi-microphone system (user, environment, and target)
- Integrated stereo spatial speakers
- Lossless Bluetooth® connectivity

## **Connectivity**

- Wi-Fi 6E MIMO (multi-antenna system) with Bluetooth 5.2
- GNSS (GPS, GLONASS)
- USB 3.1 Gen 2 on USB-C

## **Design and Safety**

- Industrial and military grade
- Built for noisy environments
- IP65
- Compliant to MIL-STD-810H
- ANSI Z87.1 eye safety
- Optional head strap

## **UI/UX**

- Always-On VoiceUI; multiple languages and sound beam forming
- Integrated wheel and click with glove/weather compatibility
- Spatial head-pose interaction (3 DoF and 6 DoF)
- Hand tracking/Gesture UI
- Multi-microphone (beamforming) and stereo spatial speakers

## **DigiOS**

- AOSP Android 12, SDK, and APIs
- OpenXR, WebXR, and Snapdragon Spaces compatible
- DigiOS head-worn Android APIs
- DigiOS OTA updates (software builds and security patches)

## **Power**

- Dual 800 mAH temple batteries
- Supports USB type-C 1.2 and USB PD charging

## Troubleshooting

- If you are experiencing any abnormalities with the performance of your device, such as ARGO does not turn on even when fully charged or if the device is frozen, press and hold the power button for 10 seconds to initiate a hard reboot.
- If ARGO's batteries were completely discharged and it does not turn on after waiting a few moments after plugging in a charger, wait until batteries have charged to full before attempting to turn on the device.
- If you are experiencing any software related issues, you may need to factory reset your device. Before performing a factory reset, please ensure all important personal data is backed up. DigiLens is not responsible for any personal data loss.
  - Settings > About >Power options (last icon) > Reset > CONFIRM

**Warning section:****FCC**

§ 15.19 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 of the device.

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

§ 15.105 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.

Notice to Users in Canada for IC compliance: This equipment complies with the Class B limits for radio noise emissions from digital apparatus as established by the Radio Interference Regulations of Industrial Canada.

**RF Exposure Information (SAR)**

This device meets the government's requirements for exposure to radio waves. This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy.

The exposure standard for wireless devices employs a unit of measurement known as Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/Kg. For head operation, this device has been tested and meets the FCC RF exposure guidelines for use with an accessory that contains no metal and positions the device a minimum of 0 cm from the head. RF exposure compliance with any head accessory that contains metal was not tested and certified and use of such head accessory should be avoided. Any accessory used with this device for head operation must keep the device a minimum of 0 cm away from the head.

The device for operation in the band 5150–5350 MHz and 5925–6425 MHz is only for indoor use.

**6XD:**

Transmitters in the 5.925–7.125 GHz band are prohibited from operating to control or communicate with unmanned aircraft systems.

Indoor use only.