

Smart Glasses  
**MOVERIO**  
BT-45C / BT-45CS

**EPSON**<sup>®</sup>  
EXCEED YOUR VISION

## User's Guide



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**Information on the MOVERIO Website**

Provides useful tips and support information.

**<https://tech.moverio.epson.com/en/>**



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## Manual Organization

<b>User's Guide</b>	This guide provides information on safely using this product, basic operating methods, and troubleshooting. Make sure you read this guide before using the product.
<b>Start Guide*</b>	Explains procedures for using this product for the first time.

\* Not available in all regions.

## Symbols Used in this Guide

### ■ Safety symbols

 <b>Warning</b>	This symbol indicates information that, if ignored, could possibly result in serious personal injury or even death due to incorrect handling.
 <b>Caution</b>	This symbol indicates information that, if ignored, could possibly result in personal injury or physical damage due to incorrect handling.

### ■ General information symbols

	Indicates procedures which may result in damage or injury if sufficient care is not taken.
	Indicates additional information and points which may be useful to know regarding a topic.
	Indicates a reference to related topics.

# Safety Instructions

For your safety, read the documents carefully to use the product correctly. After you have read the documents, keep them in a safe place so that you can refer to them quickly at a later date.

## **Warning** Usage environment and condition precautions

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Only use this product at the stated power-supply voltage.

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For your own safety, unplug the product's cable from the smart device or the dedicated controller when not using this product. The insulation may deteriorate, which may result in electric shock, fire, or malfunction.

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When plugging in or unplugging the USB Type-C connector, do not apply excessive force such as pulling on the cord, and make sure you plug the connector straight into the connector port. If the connection is incomplete or incorrect, it could result in fire, burns, electric shock, and so on.

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Do not leave this product in locations subject to temperatures beyond the specified operating range, such as cars with the windows closed, in direct sunlight, or in front of air-conditioning or heater outlets. Also, avoid locations subject to sudden changes in temperature. Doing so may result in fire, breakdown, malfunction, or failure.

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Do not touch the connectors and cables for any of the connector ports with wet hands. Failure to comply with these precautions could result in fire, burns, or electric shock.

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Do not use or leave the product outdoors in heavy rain, in locations that may be subject to water or rain, or in locations subject to high levels of

humidity such as in a bath or shower. Failure to comply with these precautions could result in fire or electric shock.

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Do not place this product in locations subject to smoke, steam, high humidity, or dust such as kitchen counters or near humidifiers. Doing so may result in fire, electric shock, or deterioration in image quality.

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Do not cover this product with a cloth or similar material during use. Doing so may change the shape of the case through heat, or fire.

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The earphone jack may become hot during operation. To avoid low-temperature burns, be sure to use the product while attached to a headband or the interface box holder.

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Do not expose the lens to direct sunlight for a long time. Doing so may result in fire or explosion due to condensed beams of light being emitted from the lens.

## **Warning** Product usage precautions

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The headset, headband, shade, interface box, and interface box holder use powerful magnets. For your own safety, do not use this product if you have a pacemaker or other implantable device.

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For your own safety, observe the following points when using this product by connecting it to a smart device or the dedicated controller.

- It is prohibited by laws and regulations to view the product's screen, the smart device, or the dedicated controller while driving a car, riding a motor bike or bicycle.

- Observe the safety precautions, use precautions, and all other safety precautions provided with the smart device or the dedicated controller.



Note the following points when using headset speakers or earphone microphones.

- Do not start using this product at a high volume. Doing so may result in hearing impairment.
- Lower the volume before turning off the product, and gradually increase the volume after turning on the product. To prevent possible hearing damage, do not listen at high volume for prolonged periods of time.

Using the headset speaker volume amplification feature provided by MOVERIO Link/MOVERIO Link Pro and listening for prolonged periods at a volume that exceeds the recommended level may result in hearing impairment.

Do not allow any conductive foreign objects to touch the USB Type-C connector or the earphone jack, and do not put any conductive foreign objects into the connection ports. Doing so may cause a short circuit and result in fire or electric shock.

Do not allow solvents such as alcohol, benzene, or thinner to touch the product. Also, do not clean this product with a wet cloth or solvents. Doing so may warp or crack the product housing and may result in electric shock, malfunction, or fire.

The product housing should only be opened by qualified service personnel. Also, do not disassemble or remodel the product (including consumable items). Many of the parts inside the product carry a high voltage and could cause fire, electric shock, accident, or poisoning.

Do not subject the lens of the product to strong shocks or knock it against hard objects. If the lens is damaged, it could splinter and cause serious injuries to the eyes and face.

Do not throw the product into a fire and do not heat the product. Do not place objects with open flames, such as candles, on this product. Doing so may result in heat, fire, or explosion.

### <When using this product for medical purposes>

- 1) This product is not certified as a medical device as defined by acts regarding medical products and medical devices. It can be used as an auxiliary monitor for the main monitor attached to medical devices, but do not use it for surgery or when determining diagnostic images that require high reliability.
- 2) This product has not been certified by the IEC60601-1 standard. When this product is incorporated into a medical system, the entire system must conform to the standard requirements.



### **Warning** Viewing image precautions

Do not wear this product while driving a car, riding a motor bike or bicycle, or performing any other dangerous tasks. Doing so may result in accident or injury.

Do not use this product in unstable locations such as stairs or at altitude. Also, do not use this product while walking in dangerous locations such as near machinery or equipment that might get caught on the cables,

where there is a lot of traffic, or where it is dark. Doing so may result in accident or injury.

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When walking while viewing images on the product, be aware of your surroundings. If you are too focused on the image, it could result in accidents, falling down, or colliding with other people.

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When viewing in dark locations, it is difficult to see your surroundings due to the brightness of the image. Be aware of your surroundings.

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When using this product in small locations, be aware of your surroundings.

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When wearing this product, do not look directly at the sun or other light sources even if you are using the shade. This could cause serious injury to your eyes or loss of eyesight.

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Make sure the cable does not catch on anything in the surrounding area while wearing the product. Also, make sure the cable does not wind around your neck. Doing so may result in accident or injury.

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Make sure the cable does not get damaged. Otherwise, it may result in fire or electric shock.

- Do not damage the cable.
- Do not place heavy objects on top of the cable.
- Do not bend, twist, or pull the cable with excessive force.
- Keep the power cable away from hot electrical appliances.



## Warning

### Product abnormality precautions

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In the following situations, unplug the power supply cable, and contact your local dealer or the Epson service call center. Continuing to use under these conditions may result in fire or electric shock. Do not try to repair this product yourself.

- If you see smoke, or notice any strange odors or noises.
- If any water, beverages, or foreign objects get into the product.
- If the product was dropped or the case was damaged.



## Caution

### Usage environment and condition precautions

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Do not place the product in locations subjected to vibrations or shocks.

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While using the product to view images, play games, or listen to music, make sure you confirm the safety of your surroundings and do not leave any fragile items in your immediate vicinity. The images you are viewing may cause you to move your body involuntarily, resulting in damage to nearby items or personal injury.

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Do not place this product near high-voltage lines or magnetized items. Doing so may result in breakdown, malfunction, or failure.

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When performing maintenance, make sure you unplug the power supply cable and disconnect all wires. Otherwise, it may result in electric shock.



## Caution

### Product usage precautions

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Since the headset, headband, shade, interface box, and interface box holder use powerful magnets, be sure to note the following points.

- Do not touch the magnet directly to bare skin. Doing so could cause skin irritation to occur.
  - Do not place it near items that are affected by magnetism such as smart devices, magnetic cards, compasses, watches, and so on.
  - Remove any metallic foreign objects and so on that stick to the magnet of the headset and shade before use.
- 

Stop using this product if the skin that touches the product (face and so on) feels itchy when wearing the product, or any unusual rashes occur, and consult your local dermatologist.

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If you sweat while using the product, wipe the sweat from your face and the product. Continuing to use under these conditions may result in itching or a rash.

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For your own safety, do not use a conversion adapter or extension cable. Failure to comply with these precautions could result in fire, burns, electric shock, or damage to the product due to incorrect wiring.

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Dispose of this product in accordance with your local laws and regulations.



## Caution

### Viewing image precautions

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Always take periodic breaks when viewing images using this product. Long periods of viewing images may result in eye fatigue. If you feel fatigued or uncomfortable even after taking a break, stop viewing immediately.

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Do not drop this product or treat it with unnecessary force. Also, if the product breaks due to an impact such as a fall, stop using the product. Damage to the product may result in injury.

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When wearing this product, be aware of the edges. Also, do not place your finger between the moving parts of this product. Doing so may result in injury.

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Make sure you are wearing this product correctly. Incorrect usage could make you feel nauseous.

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This product should only be used as stated in the manuals. Doing so may result in injury.

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If a problem or malfunction occurs, stop using this product immediately. Continuing to use this product may result in injury or could make you feel nauseous.

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Stop using this product if you notice any abnormalities such as itchiness, rashes, or eczema on the skin that touches the product, and consult your local dermatologist. Sometimes allergies may occur due to the coating or material of the product.

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**North America and Latin America:** This product must not be used by children under the age of thirteen as their eyesight is still developing. If a child of fourteen years or older uses the product, make sure they are supervised at all times and that they do not wear the product for extended periods. Pay close attention to the child's physical condition and make sure they are not suffering from eye strain.

**Other regions:** This product must not be used by children under the age of seven as their eyesight is still developing. If a child of seven years or older uses the product, make sure they are supervised at all times and that they do not wear the product for extended periods. Pay close attention to the child's physical condition and make sure they are not suffering from eye strain.

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Do not use this product if you are sensitive to light, or feel nauseous. Doing so may aggravate your pre-existing conditions.

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Do not use this product if you have any eye conditions. Doing so may aggravate the symptoms such as strabismus, amblyopia, or anisometropia.

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It is the customer's responsibility to check in advance that the product can be used in the environment in which the customer wishes to use the product.

### **Warning**

#### **Warning regarding ANSI standards**

- To meet ANSI standards, the shade must be installed correctly and it must be secured in the correct position.
- Conformance to ANSI standards does not guarantee that the product will protect your eyes from all foreign objects and prevent all injuries.

- When using this product, make sure that there are no issues such as the strength of the shade and headset attachments, scratches, cracks, breakage, or deformation of the lens surface.

## Notes on Usage

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This product uses an Si-OLED (Organic EL Panel) for the display panel. Due to the general characteristic of the Si-OLED, you may notice burn-in (after-images) or decreasing luminance on the panel. This is not a malfunction.

To reduce burn-in and decreasing luminance, do the following.

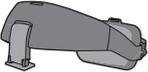
- Turn off the headset display when it is not in use.  
We recommend using the MOVERIO Link/MOVERIO Link Pro in power-saving mode (default). (You can download MOVERIO Link for smart devices from Google Play.)
  - Do not display the same image for a long time.
  - Hide markers or text that always appear in the same position.
  - Do not brighten the screen more than necessary.
- 

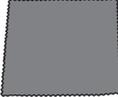
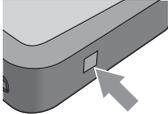
Be sure to consider other people when using this product in public locations.



- This product operates using the battery of the connected smart device or dedicated controller (hereinafter, known collectively as "the connected device"). While using it, pay attention to the amount of charge remaining in the connected device.
- The BT-45C does not come with a dedicated controller. Make sure that your smart device supports USB Type-C DisplayPort Alternate Mode. We cannot guarantee that any device can connect.

## Included Items

	<b>Headset</b> ➔ "Headset - Headband" p.12
	<b>Headband (attached at time of purchase)</b> ➔ "Headset - Headband" p.12
	<b>Shades (dark/clear)</b> ➔ "Using the Shade" p.22
	<b>Overhead strap</b> ➔ "Attaching to the headband and wearing" p.14
	<b>Cable clips (for headband/helmet)</b> ➔ "Attaching to the headband and wearing" p.14 ➔ "Attaching to the helmet and wearing" p.17
	<b>Spare screws (M3) for attaching headband/helmet (x2)</b>

	<b>Helmet attachment bracket</b> ➔ "Attaching to the helmet and wearing" p.17
	<b>Interface box holder (for attaching helmet)</b> ➔ "Attaching to the helmet and wearing" p.17
	<b>Cloth for cleaning glasses</b>
	<b>Carrying case</b> *This is not waterproof.  <ul style="list-style-type: none"><li>• Remove the products vertically and slowly.</li><li>• Make sure you lock both sides until it clicks into place when closing the case.</li></ul> 

The BO-IC400N controller and the other items shown below are only included with the BT-45CS. For more information about the BO-IC400N, see the "BO-IC400N User's Guide".



**Dedicated controller (BO-IC400N)**

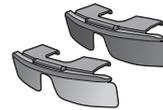


**SD card slot pin**



**USB cable**

## Optional items



**Shade Pack (BO-SP450)**



**Headband Pack (BO-IP450)**



# Part Names and Functions

## Headset - Headband

The headband is attached to the headset at the time of purchase. Check the following when attaching the product to a helmet.

➔ "Attaching to the helmet and wearing" p.17

### Angle adjustment part (2 axes)

Adjusts the angle of the headset.

### Camera

Captures images and movies. Remove the protective film before use.

### Shades (dark/clear)

Complies with ANSI Z87.1. The dark shade shades the product from too much exterior light.

➔ "Using the Shade" p.22

### LED indicator

Flashing green	Camera operating
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### Overhead strap

The headband is supported at the top of the head to improve comfort when it is worn for extended periods.

### Cable clip

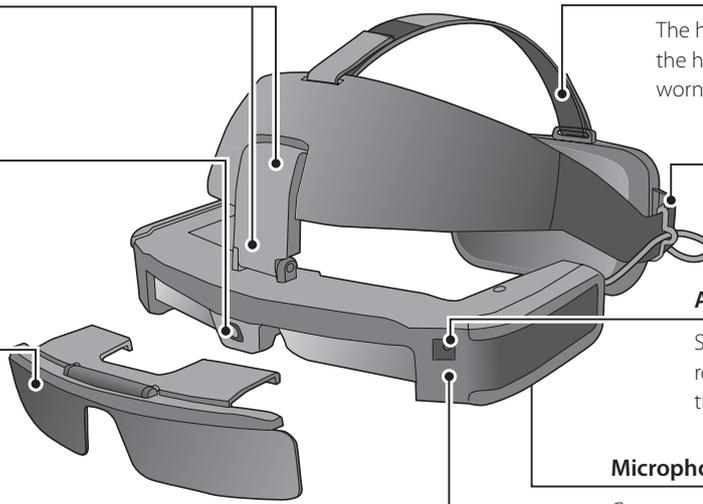
Secures the cable to the headset.

### Ambient light sensor

Senses the brightness of your surroundings and automatically adjusts the brightness of the screen.

### Microphones (both sides and the bottom)

Captures your voice.



### Front pad

Supports the headband on your forehead. This can be removed and replaced.

### Rear pad

Supports the headband at the back of your head.

### Interface box

You can use the magnet on the box to attach/detach it.

### Adjustment wheel

Adjusts the size of the headband.

### Earphone jack

You can connect commercially available CTIA-compliant earphone microphones. Audio is output from the headset speakers by default. When using an earphone microphone, change the audio output setting in the dedicated app (MOVERIO Link/MOVERIO Link Pro) to increase the volume. See the app's tutorial for details.

### Speakers (both sides)

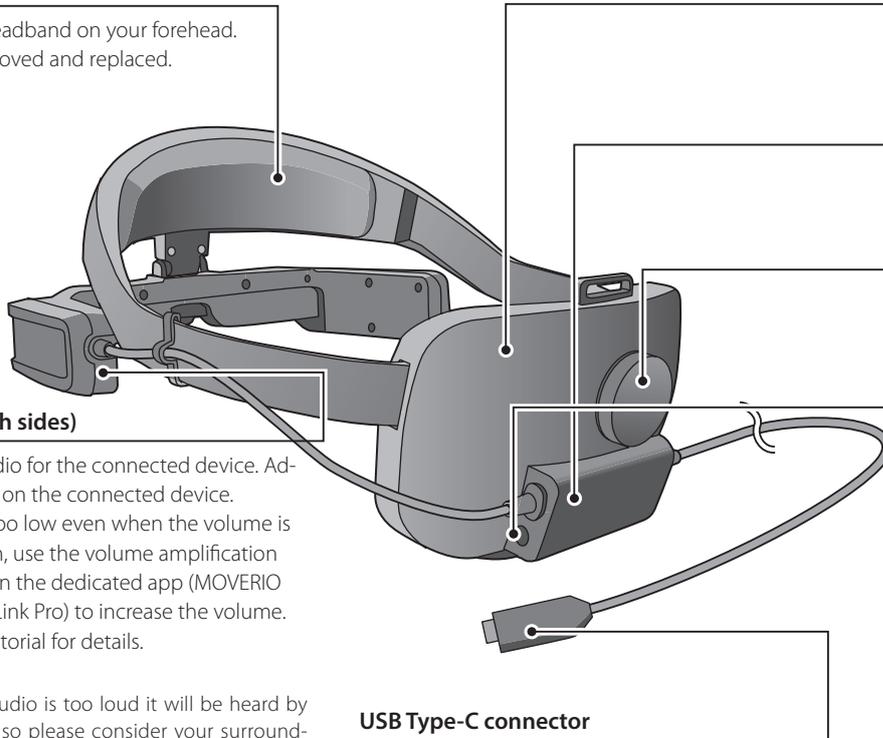
Outputs the audio for the connected device. Adjust the volume on the connected device. If the sound is too low even when the volume is set to maximum, use the volume amplification control feature in the dedicated app (MOVERIO Link/MOVERIO Link Pro) to increase the volume. See the app's tutorial for details.



If the audio is too loud it will be heard by others, so please consider your surroundings when outputting audio.

### USB Type-C connector

Connects the dedicated controller (BO-IC400N) or smart device.

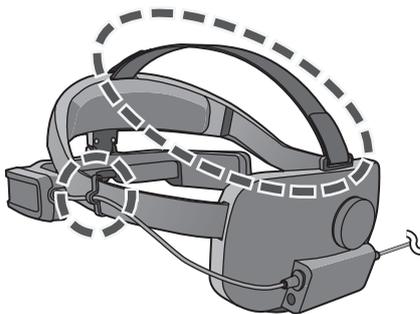


## Wearing the Headset

### Attaching to the headband and wearing

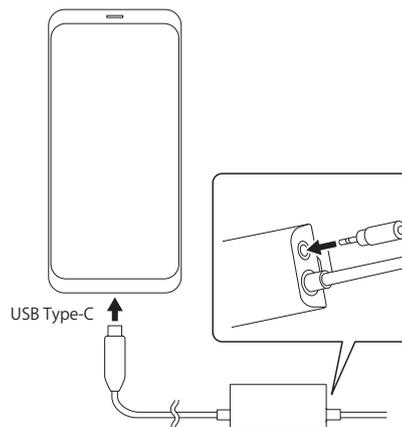
Follow the steps below when using the headband.  
If you are using a shade, attach it to the headset beforehand.

- 1 Secure the cable with the cable clip.



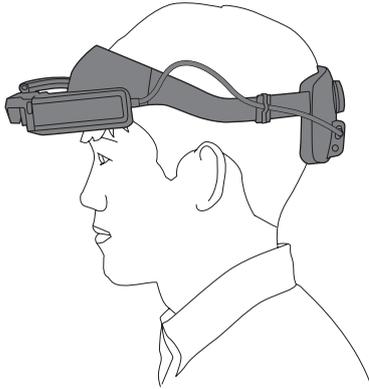
.....  
If necessary, attach the overhead strap. The overhead strap is not required, but it can be more comfortable when wearing the headset for extended periods.

- 2 Connect to the dedicated controller (BO-IC400N) or smart device. When using an earphone microphone, connect it to the earphone jack on the interface box.

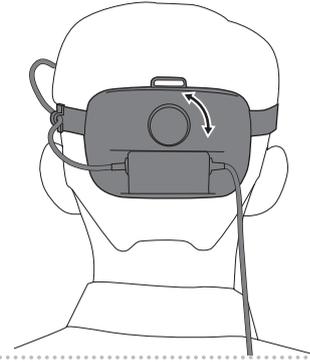


.....  
When using an earphone microphone, change the audio output setting in the dedicated app (MOVERIO Link/MOVERIO Link Pro) before use.

- 3** Place the front pad on your forehead and the rear pad at the back of your head.



- 4** Turn the adjustment wheel to adjust the size of the head-band.



If necessary, adjust the length of the overhead strap.



- 5 Move the angle adjustment part with both hands to adjust the angle of the headset so that you can see the image.



Make sure that the four corners of the image are visible in one eye and in both eyes.

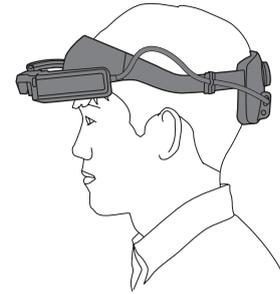
You can make smooth adjustments by moving the upper axis of the angle adjustment part, and then moving the lower axis.

If necessary, you can adjust the position of the headset by moving the front pad part.

When wearing the headset over glasses, angle the headset outward beforehand to give yourself enough room to make adjustments.



When you need to shift the headset to get a better view, move the angle adjustment part to raise the headset up.

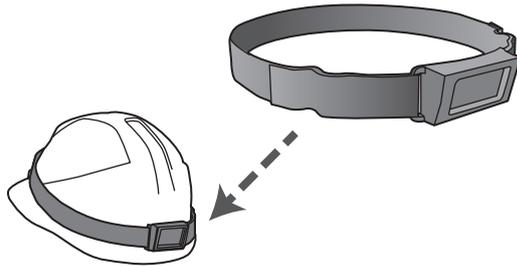


### Attaching to the helmet and wearing

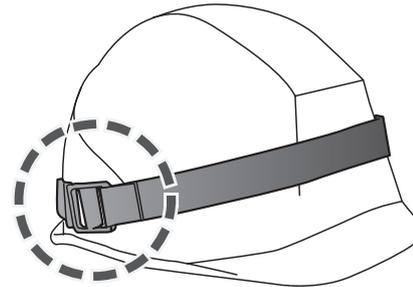
Follow the steps below when using a helmet.

You may not be able to attach the product depending on the shape of the helmet. The product cannot be attached to MP type helmets.

- 1 Attach the interface box holder to the helmet and adjust it so that the interface box attachment position is at the back of the head.**

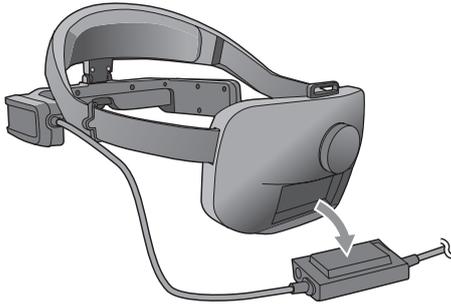


- 2 Adjust the length of the interface box holder with the buckle and attach it securely to the helmet.**

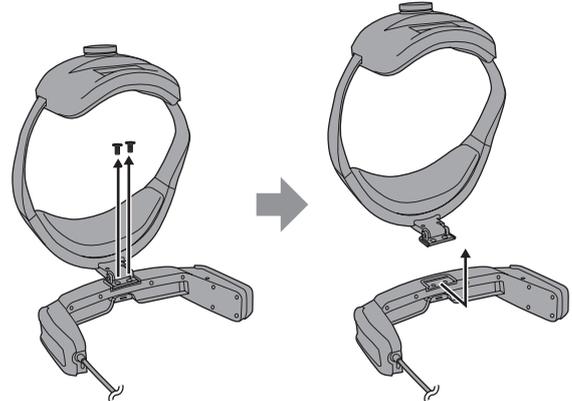


## Wearing the Headset

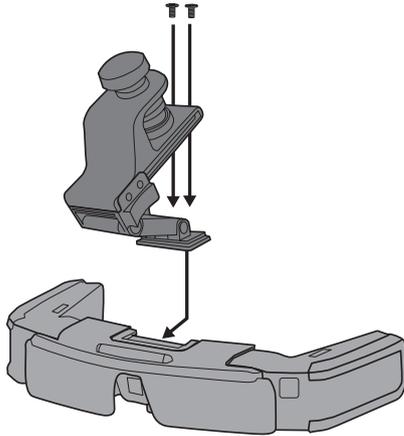
- 3 Remove the interface box from the headband.



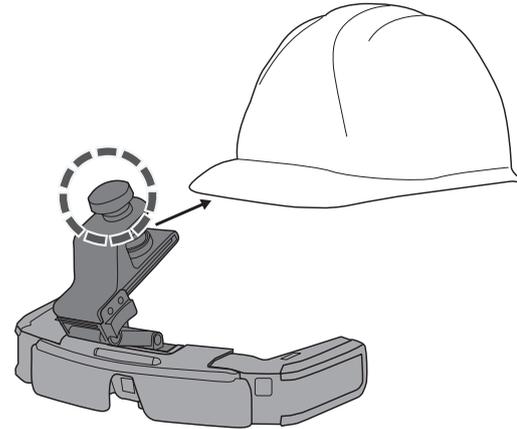
- 4 Remove the screws (M3) from the angle adjustment part, and slide the headband toward you to remove it.



- 5** Attach the helmet attachment bracket to the headset with the screws (M3).



- 6** Turn the adjustment screw on the helmet attachment bracket to securely attach the headset to the helmet.

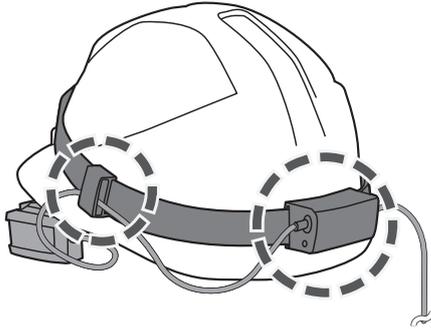


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Align the adjustment screw with the center of the brim of the helmet, and insert the tip of the brim all the way in to secure it.

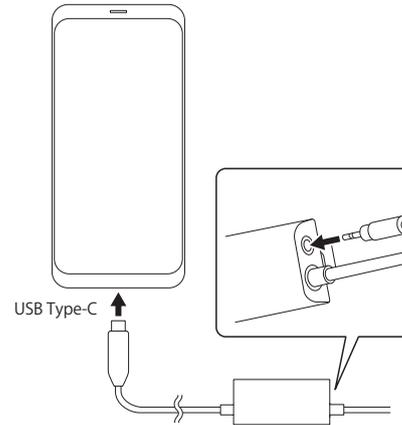
## Wearing the Headset

- 7 Attach the interface box to the interface box holder and secure the cable with the cable clip.



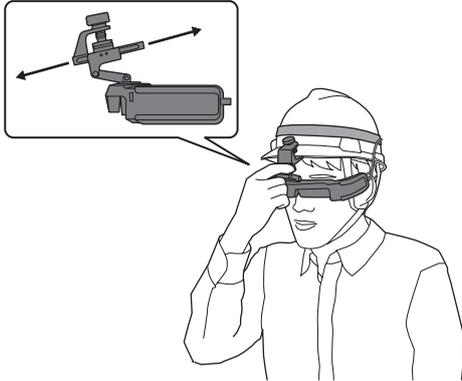
Make sure the top and bottom of the interface box are correct before attaching it.

- 8 Connect to the dedicated controller (BO-IC400N) or smart device. When using an earphone microphone, connect it to the earphone jack on the interface box.

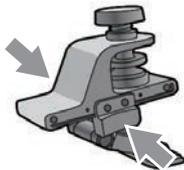


When using an earphone microphone, change the audio output setting in the dedicated app (MOVERIO Link/MOVERIO Link Pro) before use.

- 9** Wear the helmet and adjust the position of the headset by moving the slider on the helmet attachment bracket back and forth.

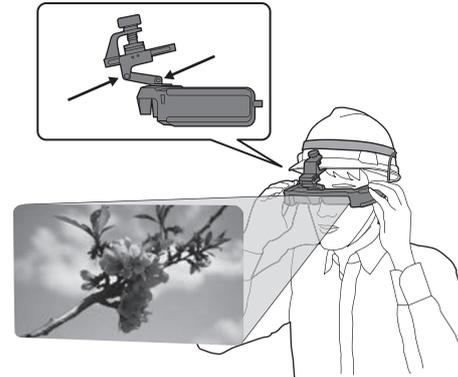


When moving the slider, hold the part of the helmet attachment bracket shown in the following figure.



When wearing the headset over glasses, adjust the slider of the helmet attachment bracket beforehand by shifting it forward to give yourself enough room to make adjustments.

- 10** Move the angle adjustment part of the helmet attachment bracket to adjust the headset so that you can see the image.



### Wearing over Glasses

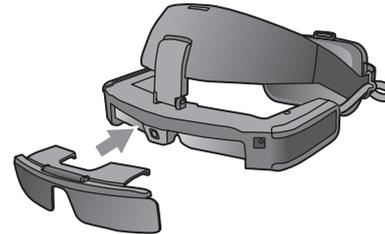
The headset can be worn over glasses.



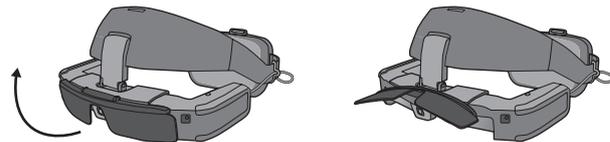
- Make sure that you do not damage the glasses and the lens of the headset when wearing.
- You may not be able to wear the headset over glasses that are wider than approximately 144 mm.
- You may not be able to wear the headset over the glasses depending on the shape of your glasses.

### Using the Shade

You can use the magnet on the shade to attach/detach it.



When the shade is unnecessary, leave it flipped up.



You can adjust the brightness of the screen with the dedicated app (MOVERIO Link / MOVERIO Link Pro).

## Supported Equipment and Software

### Supported equipment

<b>Movie display</b>	<b>Supported equipment</b>	Computers and smart devices with USB Type-C ports that support DisplayPort Alternate Mode on USB Type-C*1
	<b>Resolution (frame rate)</b>	1920 x 1080 (60 Hz)
	<b>EDID</b>	Supported
	<b>HDCP</b>	Supported
<b>Sensors and camera</b>	<b>Supported operating systems</b>	Windows 10 and Android™ OS Ver. 8.0 or later

\*1 We cannot guarantee that any device can connect.

Movies may not be displayed correctly at other resolutions.

When using the headset's sensors or camera, you need to install a sensor or camera-enabled application on the external device that you want to connect to.

### Supported Software

The following website provides information on app development and firmware updates for this product.

<https://tech.moverio.epson.com/en>

## Dedicated app

### MOVERIO Link/MOVERIO Link Pro

If you are using an Android device, you can adjust the headset's screen brightness and other features with the dedicated app.

BT-45C : Install the "MOVERIO Link" app on your smart device using Google Play.

BT-45CS: Use "MOVERIO Link Pro" from the app list screen of the dedicated controller BO-IC400N.

The following outlines the main features of the dedicated app.

- Adjust the brightness of the headset screen
- Power saving mode (on the connected device side and the headset)
- Screen lock (to prevent accidental operations)
- Display distance
- Set the audio output destination for the headset
- Volume amplification control for headset speakers

This may not be available depending on the version of the app you are using.

# Maintenance

## Cleaning the Headset

- If you can see marks in the image or if the image is hazy, check that there is no dirt, dust, or fingerprints on the lenses.  
If there is dust or dirt on the lenses, wipe them carefully with the included cloth for cleaning glasses.
-  When wiping the lenses, do not use lens cleaning liquids or organic solvents.
- If the camera is dirty, wipe it carefully with a soft cloth.
- If any parts other than the lens or camera are dirty, wipe them with a wet tissue.

## Storing the Headset

- When storing the headset, place it in the dedicated carrying case.
- When placing the headset, make sure it is placed horizontally so that it does not touch against hard objects. If the headset is placed with the lens facing down and the lens touches hard objects, the lens could be damaged.

## Cleaning the Connector ports

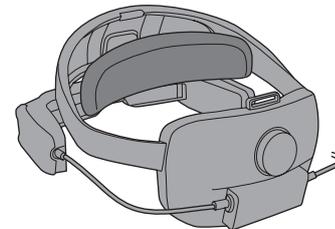
- If the connectors on the interface box are dirty or if there are foreign objects stuck to them, they may not work correctly. Wipe away any dirt with a dry cloth or cotton swab at least once every three months.

### Caution

- Do not damage the connector ports with your finger or a hard object.
- Do not expose the connector ports to water. When cleaning the connector ports, use a dry cloth or a cotton swab.

## Replacing the Front Pad

- Remove the front pad from the headband and replace it.



# Troubleshooting

Has a malfunction occurred? If you think a malfunction has occurred, check the following.

## No image is displayed

- Check if any cables are disconnected.
- If movies are not displayed when you use a USB Type-C connection, check that the connected equipment supports movie output via USB Type-C. This product supports DisplayPort Alternate mode (DP ALT mode) for USB Type-C.

## Images are fuzzy

- Reconnect the USB-C cable.
- Restart the connected equipment.

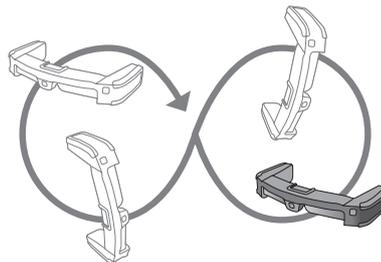
## Cannot hear audio

- Check that the audio output setting in the dedicated app (MOVERIO Link/MOVERIO Link Pro) is correct.
- Check that the earphones are connected securely.
- Check that the volume is set correctly.
- Check that audio is being output from the connected equipment.
- You may not be able to use it depending on the type of standard earphone microphone you are using such as

earphone microphones with a switch.

## Compass is not accurate

- If the compass is inaccurate for apps that use the headset's geomagnetic sensor, you can correct it by moving the headset in a figure-eight motion while the smart device or dedicated controller is connected.



# Specifications

## Product Specifications

<BT-45CS users: See the "BO-IC400N User's Guide" for product specifications for the supplied controller.>

Model number	BT-45C (H970A)	
Display method	Si-OLED	
Panel size	0.453" wide panel (16:9)	
Resolution	1920 x 1080 pixels	
Angle of view	Approximately 34 degrees (diagonally)	
Virtual screen size	120" support (virtual viewing distance 5 m [16.4 feet] )	
Color reproduction	24 bit color (approximately 16,770,000 colors)	
Connector ports	USB Type-C, 4 pin mini jack (earphones with microphone complying with the CTIA standard)*1	
Data communication	USB Type-C	USB 2.0
	Supported operating systems	Windows 10 or later and Android 8 or later
Exterior dimensions (W x D x H)	Headset and headband	200 x 290 x 57 mm (7.9 x 11.4 x 2.2 inches) (without shade, cables and overhead strap)
	Headset and helmet attachment bracket	194 x 190 x 57 mm (7.6 x 7.5 x 2.2 inches) (without shade, cables, interface box holder and helmet)
	Interface box holder	74 x 19 x 33 mm (2.9 x 0.7 x 1.3 inches)
Mass	Total mass of headband attachment	Approx. 445 g (1.1 lb.) (without shade, cables and overhead strap)
	Total mass of helmet attachment	Approx. 270 g (0.6 lb.) (without shade, cables, interface box holder and helmet)
	Headset	Approx. 185 g (0.5 lb) (without shade and cables)
Camera		8 million pixels (auto focus)
Speaker output		80 dBA (when not using the MOVERIO Link volume amplification feature) 92 dBA (when using the MOVERIO Link volume amplification feature)
Earphone output		Max. voltage 150 mV or less Voltage with broadband characteristics 75 mVrms or more
Microphone output		Microphone with noise reduction feature

Sensors	geomagnetic sensor/accelerometer sensor/gyroscopic sensor/ambient light sensor	
Power	USB Type-C	USB Power Delivery
	Rated electricity consumption	7.5 W
	Rated output voltage/current	5.0V/1.5 A
Operating temperature	5 to 35°C (41 to 95°F) humidity 20 to 80% (no condensation)	
Storage temperature	-10 to 60°C (14 to 140°F) humidity 20 to 90% (no condensation)	
Dust and water resistance	IP52 (except for connector ports) *2	
Drop test	MIL-STD-810H compliant *3	
Reliability	Life span	20,000 hours (based on our evaluation conditions*4, such as when the brightness of the screen drops below 50% of its initial level, indicating the point at which the product enters the wear-out failure period. Screen burn-in does not indicate a malfunction.)
	Mean-Time Between Failure (MTBF)	180,000 hours (failure means a random failure during the random failure period.)
Shade	ANSI Z87.1 compliant*5 when attached to the headset	

\*1 Restrictions in operation may occur when using an adapter plug.

\*2 Although this product provides daily water resistance (not including the USB connector), this does not guarantee protection against damage or malfunctions under all conditions. The warranty is invalid if malfunctions are determined to have occurred due to incorrect handling of the product by the user. The USB Type-C connector (contact section) of this product is not water resistant. Do not operate this product with wet hands and do not expose it to water or dust.

Do not allow other liquids (such as organic solvents, soapy water, hot spring water, and seawater) to splash onto the product.

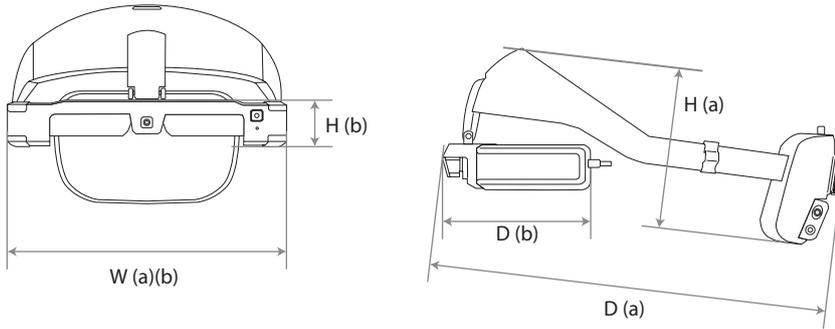
If rain or water splashes onto this product, wipe it with a dry cloth as soon as possible.

\*3 MIL-STD is the procurement standard of the U.S. Department of Defense in which tests are conducted by dropping the product from a height of 122 cm (4 ft) onto plywood (lauan wood) in 26 directions. Note that the product was checked under test conditions and operation is not guaranteed against all drops. Furthermore, we cannot guarantee that no damage or malfunction will occur.

\*4 The screen brightness was set to the default value of 12/20, and the evaluation movie was displayed continuously in an environment of 25°C (77°F). If the screen brightness (brightness setting and display gradation) is brighter than the evaluation conditions, the life span will be reduced.

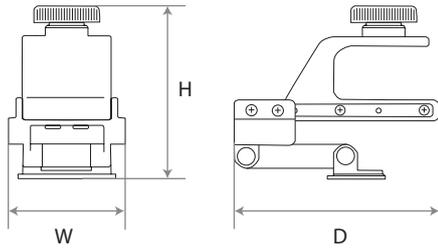
\*5 U.S. industrial standard for protective eyewear.

## Appearance



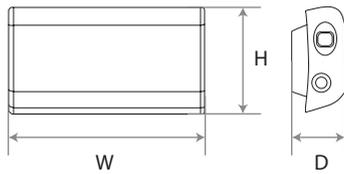
	Headset and headband (a)	Headset (b)
W	202 (8.0)	202 (8.0)
D	290 (11.4) (maximum)	110 (4.3)
H	111 (4.4)	34 (1.3)

Units: mm / (inches)



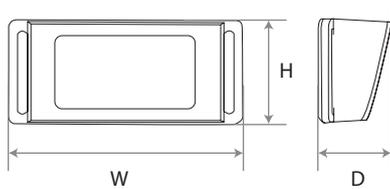
Helmet attachment bracket	
W	37 (1.5)
D	63 (2.5)
H	55 (2.2)

Units: mm/(inches)



Interface box	
W	61 (2.4)
D	17 (0.7)
H	35 (1.4)

Units: mm/(inches)



Interface box holder	
W	75 (3.0)
D	22 (0.9)
H	34 (1.3)

Units: mm/(inches)

# Intellectual Property Rights

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Notations

In this guide, the Microsoft® Windows® 10 operating system is referred to as "Windows 10".

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Trademarks

"EPSON" is a registered trademark of the Seiko Epson Corporation. "EXCEED YOUR VISION" is a registered trademark or a trademark of the Seiko Epson Corporation.

Windows is a registered trademark of the Microsoft Corporation in the USA and other countries.

USB Type-C™ is a trademark of the USB Implementers Forum.

Android and Google Play are trademarks of Google LLC.

Other product names used herein are also for identification purposes only and may be trademarks of their respective owners. Epson disclaims any and all rights in those marks.

# General Notes

## Restrictions on Use

This product has been manufactured according to the specifications of the country in which it is sold. Contact your nearest Epson dealer when using this product outside of the country in which it is sold.

If this product is used for applications that require high reliability, safety, and so on in their functionality, accuracy, and so on, such as disaster prevention equipment, and various safety devices directly related to the operation of aircraft, trains, ships, automobiles, and so on in order to ensure the reliability and safety of these systems, we ask that you take into account safety designs of the entire system, such as implementing a failsafe and taking redundancy measures when using this product.

Since this product is not intended for use in applications that require high reliability and safety, such as aerospace equipment, trunk line communication equipment, nuclear power control equipment, medical equipment, and so on, we ask that you consider the suitability of using this product for any of these applications.

## Authentication information

### U.S.A/Canada



### Europe



## Supplier's DECLARATION of CONFORMITY

According to 47CFR, Part 2 and 15  
Class B Personal Computers and Peripherals; and/or  
CPU Boards and Power Supplies used with Class B Personal Computers

**We : Epson America, Inc.**

**Located at : 3131 Katella Avenue, Los Alamitos, CA**

**Tel : 562-981-3840**

Declare under sole responsibility that the product identified herein, complies with 47CFR Part 2 and 15 of the FCC rules as a Class B digital device. Each product marketed, is identical to the representative unit tested and found to be compliant with the standards. Records maintained continue to reflect the equipment being produced can be expected to be within the variation accepted, due to quantity production and testing on a statistical basis as required by 47CFR 2.906. 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.

**Trade Name : EPSON**

**Type of Product : Smart Glasses**

**Model : H970A**

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 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.
- 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.

**WARNING**

The connection of a non-shielded equipment interface cable to this equipment will invalidate the FCC Certification or Declaration of this device and may cause interference levels which exceed the limits established by the FCC for this equipment. It is the responsibility of the user to obtain and use a shielded equipment interface cable with this device. If this equipment has more than one interface connector, do not leave cables connected to unused interfaces. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Canada

CAN ICES-3 (B)/NMB-3(B)

This Class B digital apparatus complies with Canadian ICES-003.  
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Indication of the manufacturer and the importer in accordance with requirements of EU directive

Manufacturer: SEIKO EPSON CORPORATION  
Address: 3-5, Owa 3-chome, Suwa-shi, Nagano-ken 392-8502 Japan  
Telephone: 81-266-52-3131  
<http://www.epson.com/>

Importer: EPSON EUROPE B.V.  
Address: Atlas Arena, Asia Building Hoogoorddreef 5, 1101 BA Amsterdam Zuuidoost The Netherlands  
Telephone: 31-20-314-5000  
<http://www.epson.eu/>

Indication of the manufacturer and the importer in accordance with requirements of United Kingdom directive

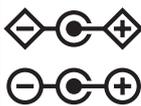
Manufacturer: SEIKO EPSON CORPORATION  
Address: 3-5, Owa 3-chome, Suwa-shi, Nagano-ken 392-8502 Japan  
Telephone: 81-266-52-3131  
<http://www.epson.com/>

Importer: Epson (UK) Ltd.  
Address: Westside, London Road, Hemel Hempstead, Hertfordshire, HP3 9TD, United Kingdom  
<http://www.epson.co.uk>

## List of Safety Symbols and Instructions

The following table lists the meaning of the safety symbols labeled on the equipment.

No.	Symbol Mark	Approved Standards	Description
1		IEC60417 No.5007	Power ON Indicates the product is connected to the power supply.
2		IEC60417 No.5008	Power OFF Indicates the product is disconnected from the power supply.
3		IEC60417 No.5009	Standby Indicates a switch or its position for supplying power to only a part of the equipment or device or, and placing the equipment or device in standby mode.
4		ISO7000 No.0434B IEC3864-B3.1	Caution Indicates general precautions to be followed when handling the product.
5		IEC60417 No.6042 ISO3864-B3.6	Caution (risk of electric shock) Indicates that the equipment or device poses a risk of electric shock.

No.	Symbol Mark	Approved Standards	Description
6		IEC60417 No.5957	Indoor use only Indicates that the electronic equipment or device is intended for indoor use only.
7		IEC60417 No.5926	DC power connector polarity Indicates the positive and negative electrodes of the device that can be connected to a DC power supply.
8		IEC60417 No.5017	Grounding Indicates that this is a grounding (earth) terminal.
9		IEC60417 No.5032	Alternating current Indicates that the equipment or device is suitable for alternating current only, and to identify terminals that support alternating current.
10		IEC60417 No.5031	Direct current Indicates that the equipment or device is suitable for direct current only, and to identify terminals that support direct current.

No.	Symbol Mark	Approved Standards	Description
11		IEC60417 No.5172	Class II equipment Indicates that the equipment or device conforms to the safety requirements as specified for Class II equipment in JIS C 9335-1/JIS C 8105-1.
12		ISO 3864	General prohibitions Indicates a general, non-specific prohibition notice.
13		ISO 3864	Do not touch Indicates that touching a specific part of the device may result in injury.
14		IEC60417 No.5266	Standby / Partial standby Indicates that part of the equipment or device is standing by.

## Contact List

This address list is current as of April 2022.

A more up-to-date contact address can be obtained from the corresponding website listed here. If you do not find what you need on any of these pages, please visit the main Epson home page at [www.epson.com](http://www.epson.com).

### EUROPE, MIDDLE EAST & AFRICA

**ALBANIA**

ITD Sh.p.k.

<http://www.itd-al.com>

**AUSTRIA**

Epson Deutschland GmbH

<https://www.epson.at>

**BELGIUM**

Epson Europe B.V.

Branch office Belgium

<https://www.epson.be>

**BOSNIA AND HERZEGOVINA**

NET d.o.o. Computer Engineering

<https://netcomp.rs>

**BULGARIA**

Epson Service Center Bulgaria

<http://www.kolbis.com>

**CROATIA**

MR servis d.o.o.

<http://www.mrservis.hr>

**CYPRUS**

A.T. Multitech Corporation Ltd.

<http://www.multitech.com.cy>

**CZECH REPUBLIC**

Epson Europe B.V.

Branch Office Czech Republic

<https://www.epson.cz>

**DENMARK**

Epson Denmark

<https://www.epson.dk>

**ESTONIA**

Epson Service Center Estonia

<https://www.epson.ee>

**FINLAND**

Epson Finland

<https://www.epson.fi>

**FRANCE & DOM-TOM TERRITORY**

Epson France S.A.

<https://www.epson.fr>

**GERMANY**

Epson Deutschland GmbH

<https://www.epson.de>

**GREECE**

Info Quest Technologies S.A.

<https://www.infoquest.gr>

**HUNGARY**

Epson Europe B.V.

Branch Office Hungary

<https://www.epson.hu>

**IRELAND**

Epson (UK) Ltd.

<https://www.epson.ie>

**ISRAEL**

Epson Israel

<https://www.epson.co.il>

**ITALY**

Epson Italia s.p.a.

<https://www.epson.it>

**KAZAKHSTAN**

Epson Kazakhstan Rep. Office

<https://www.epson.kz>

**LATVIA**

Epson Service Center Latvia

<https://www.epson.lv>

**LITHUANIA**

Epson Service Center Lithuania

<https://www.epson.lt>

**LUXEMBURG**

Epson Europe B.V.

Branch office Belgium

<https://www.epson.be>

**NORTH MACEDONIA**

Digit Computer Engineering

<http://digit.net.mk/>

**NETHERLANDS**

Epson Europe B.V.

Benelux sales office

<https://www.epson.nl>

**NORWAY**

Epson Norway

<https://www.epson.no>

**POLAND**

Epson Europe B.V.

Branch Office Poland

<https://www.epson.pl>

**PORTUGAL**

Epson Ibérica S.A.U.

Branch Office Portugal

<https://www.epson.pt>

**ROMANIA**

Epson Europe B.V.

Branch Office Romania

<https://www.epson.ro>

**RUSSIA**

Epson CIS

<http://www.epson.ru>

**UKRAINE**

Epson Kiev Rep. Office

<http://www.epson.ua>

**SERBIA**

Nepo System d.o.o.

<https://neposystem.rs>

AIGO Business System d.o.o. Beograd

<https://aigo.rs>

**SLOVAKIA**

Epson Europe B.V.

Branch Office Czech Republic

<https://www.epson.sk>

**SLOVENIA**

Birotehna d.o.o.

<http://www.birotehna.si>

**SPAIN**

Epson Ibérica, S.A.U.

<https://www.epson.es>

**SWEDEN**

Epson Sweden

<https://www.epson.se>

**SWITZERLAND**

Epson Deutschland GmbH

Branch office Switzerland

<https://www.epson.ch>

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### **TURKEY**

Tecpro Bilgi Teknolojileri Tic. ve  
San. Ltd. Sti.  
<http://www.tecpro.com.tr>

### **UK**

Epson (UK) Ltd.  
<https://www.epson.co.uk>

### **AFRICA**

<https://www.epson.co.za>  
or  
<https://www.epson.fr>

### **SOUTH AFRICA**

Epson South Africa  
<https://www.epson.co.za>

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### **MIDDLE EAST**

Epson (Middle East)  
<https://www.epson.ae>

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## **NORTH AMERICA**

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### **CANADA**

Epson Canada, Ltd.  
<https://epson.ca>

### **U. S. A.**

Epson America, Inc.  
<https://epson.com/usa>

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## **ASIA & OCEANIA**

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### **AUSTRALIA**

Epson Australia Pty. Ltd.  
<https://www.epson.com.au>

### **CHINA**

Epson (China) Co., Ltd.  
<https://www.epson.com.cn>

### **HONG KONG**

Epson Hong Kong Ltd.  
<https://www.epson.com.hk>

### **INDIA**

Epson India Pvt., Ltd.  
<https://www.epson.co.in>

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### **INDONESIA**

PT. Epson Indonesia  
<https://www.epson.co.id>

### **JAPAN**

Seiko Epson Co.  
<https://www.epson.jp>

### **KOREA**

Epson Korea Co., Ltd.  
<http://www.epson.co.kr>

### **MALAYSIA**

Epson Malaysia Sdn. Bhd.  
<https://www.epson.com.my>

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### **NEW ZEALAND**

Epson New Zealand

<https://www.epson.co.nz>

### **PHILIPPINES**

Epson Philippines Co.

<https://www.epson.com.ph>

### **SINGAPORE**

Epson Singapore Pte. Ltd.

<https://www.epson.com.sg>

### **TAIWAN**

Epson Taiwan Technology & Trading Ltd.

<https://www.epson.com.tw>

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### **THAILAND**

Epson (Thailand) Co.,Ltd.

<https://www.epson.co.th>

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