# See-Through Mobile Viewer MOVERIO BT-200



## **User's Guide**



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This product is a standalone, see-through mobile viewer for both eyes.

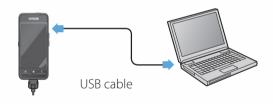
It allows you to enjoy movies on your home network, or images on your smartphones and tablet devices in comfort.

## **Saving and Viewing**

You can transfer movies and images saved on a computer to this product, and then view them.

Simply connect by USB

⇒ "Viewing Movies Copied from a Computer (Gallery)" on page 28



## **Viewing a Website**

You can view movies on a website by connecting to the Internet wirelessly.

Search for movies on a website

Use on-demand movie services

⇒ "Viewing Movies on a Website (Browser)" on page 29







NTERNE

## **Viewing Images on a Smartphone**

This product allows you to view images currently being played back on a smartphone.

#### **Supports Miracast**

Miracast is a technology that wirelessly connects supported devices directly with each other and streams movies and music between the devices. This product supports images being received from and streamed to other devices.

→ "Synchronizing Other Devices and Screens (MOVERIO Mirror)" on page 30







View at the same time on

Image played on smartphone

this product



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## **User's Guide Organization**

User's Guide (this guide)	This guide provides information on safely using this product, basic operating methods, and troubleshooting. Make sure you read this guide before using the product.	
Start Guide	This guide provides information on using this product for the first time.	
Reference Guide	This guide provides information on applications supported by this product, product settings, and troubleshooting. This guide can be viewed as a PDF file or Help application. See http://www.epson.com for more details.	

## Symbols Used in this Guide

5,1115015 05	ca iii tiiis caiac		
■ Safety syr	mbols		
Warning	This symbol indicates information that, if ignored, could possibly result in serious personal injury or even death due to incorrect handling.	Caution	This symbol indicates information that, if ignored, could possibly result in personal injury or physical damage due to incorrect handling.
■General in	nformation symbols		
Caution	Indicates procedures which may result in damage or injury if sufficient care is not taken.	Note	Indicates additional information and points which may be useful to know regarding a topic.
[]	Indicates icons and menu items displayed on the screen, and the names of controller keys.	<b>→</b>	Indicates a reference to related topics.

## **Safety Instructions**

For your safety, read the attached documents carefully to use this product correctly. After you have read all of the instructions, keep this information for later reference.



### Warning

# Usage environment and condition precautions

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

Only use the supplied USB cable and AC adapter. Using another USB cable or AC adapter could result in heat, fire, explosion, malfunction, or liquid leakage.

Take the following precautions when handling the plug. Failure to comply with these precautions could result in fire or electric shock

- Do not plug the AC adapter into an outlet being used by many other devices.
- Do not insert the plug into a dusty outlet.
- Insert the plug firmly into the outlet.
- · Do not hold the plug with wet hands.
- Do not pull the power cable when disconnecting the plug.

Do not use the power cable (supplied USB cable) if it is damaged. Fire or electric shock may result.

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

Unplug the product when it is not being used. The insulation may deteriorate, which may result in electric shock, fire, or malfunction

Do not touch the AC adapter during a thunderstorm.

Do not leave this product in locations subject to extreme environmental temperatures such as tropical environments, cars with the windows closed, in direct sunlight, or in front of air-conditioning or heater outlets. Also, do not use the product in locations subject to sudden changes in temperature. Doing so may result in fire, malfunction, or failure.

Do not use the product in locations where it may get wet or is subject to humidity such as in a bath or shower. Doing so may result in fire or electric shock.

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

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

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

#### Warning **Product usage precautions**



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 increase the volume after turning on the product. To prevent possible hearing damage, do not listen at high volume for prolonged periods of time.

Do not insert or drop metal, flammable, or foreign objects into the power connector, ports, or earphone microphone socket. 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. If the product housing cracks, it may result in electric shock, malfunction, or fire.

Do not disassemble or remodel this product. Doing so may result in injury or poisoning.

Do not throw the product into a fire and do not heat the product. Also, do not place objects that are on fire, such as candles, near the product. Doing so may result in fire or explosion.

#### Warning Viewing image precautions

Do not wear this product while driving a car, riding a motor bike or bicycle, cooking, 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 the product while walking in locations where there is a lot of traffic or where it is dark. Doing so may result in accident or injury.

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, and colliding with other people.

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

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

#### **Product abnormality precautions**

In the following situations, turn off this product immediately, unplug the AC adapter, and contact an authorized Epson dealer. 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 or foreign objects get into the product.
- If the product was dropped or the case was damaged.

#### Warning Wireless function precautions

When taking this product into areas in which the use of electromagnetic waves is prohibited, such as in an aircraft or in hospitals, follow the instructions in the area and turn off this product or disable the Bluetooth or wireless LAN function. Do not use the Bluetooth or wireless LAN function near automatically controlled devices such as automatic doors or fire alarms. Before turning off the product, disable the auto power on function. The electromagnetic waves may cause electromagnetic interference with medical equipment or cause the equipment to malfunction.

Note the following points when using the Bluetooth or wireless I AN in medical institutions

- Do not bring this product into operating rooms, Intensive Care Units (ICUs), or Cardiac Care Units (CCUs).
- When in a ward, turn off this product or stop the electromagnetic waves.
- In all areas, turn off this product or stop the electromagnetic waves if there is any electronic medical equipment in the area.
- Follow any rules stipulated by medical institutions that prohibit the use of devices emitting electromagnetic waves, or that prohibit entry to certain areas with such devices.
- Before turning off the product, disable the auto power on function.

If you have an implanted pacemaker or implanted defibrillator, make sure you keep a distance of at least 22 cm between this product and the implanted device when using the Bluetooth or wireless LAN. Before use, make sure that there is no one with a pacemaker near you, and if you are in a crowded location such as a train, turn off this product or stop the electromagnetic waves.

## Caution

#### Usage environment and condition precautions

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

Confirm the safety of your surroundings and do not leave any

fragile items in your immediate vicinity while wearing the headset. The movie may cause you to move your body involuntarily. resulting in damage to nearby items or personal injury.

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

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

Stop charging the battery if the charging does not end in the stated period of time. Continuing the charge may result in liquid leakage, heat, explosion, or fire.

#### Caution **Product usage precautions**

Hold the controller securely or place it on a stable surface and make sure the cables are not pulled with undue force. Dropping the headset due to the weight of the controller may result in injury or malfunction.

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

#### **∧** Caution Viewing image precautions

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

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. Continuing to use this product may result in injury due to glass fragments.

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

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

This product should only be used for the purposes stated in the manuals. Using it for anything else may result in injury.

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.

Stop using this product if your skin feels unusual when wearing this product and consult your local dermatologist. Sometimes allergies may occur due to the coating or material of the product.

How a 3D image is perceived varies depending on the individual. Stop using the 3D function if you feel strange or cannot see in 3D. Continuing to view the 3D images could make you feel nauseous.

Children (especially under elementary school age) should not use this product as their eyesight is still developing.

Do not use this product if you are sensitive to light, or feel nauseous. Doing so may aggravate your pre-existing conditions. Do not use this product if you have prior eye conditions. Doing so may aggravate the symptoms such as strabismus, amblyopia, or anisometropia.

When wearing this product, do not look directly at the sun or at any bright lights regardless of the darkness of the lenses. Doing so may result in eye injury.

## $\triangle$

#### **Caution** Product abnormity precautions

Contact an authorized Epson dealer when replacing batteries.

Data stored on the product may be lost or damaged when the product malfunctions or is repaired. Epson shall not be responsible for the loss of any data or damage to data even during the warranty period.

## **Getting Ready**

### **Part Names and Functions**

#### Controller

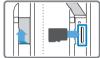
#### **Trackpad**

Touch with your finger to operate the product.

→ "Using the Trackpad" on page 17

#### microSD card slot

Insert a commercially available microSD card.



#### Switch key

Switches the operation performed when you press the Up/Down keys between adjusting the volume, adjusting the brightness, and switching between 2D/3D mode

#### **Æ** MENU key

Displays available menus for the current screen.



Press to return to the Home screen.

#### 

Slide to the [🖰] side to turn on and off the product.

Slide to the other side to turn on and off Key lock.

→ "Turning On and Off" on page 15

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#### **LED** indicator

Indicates the status of the product.

→ "Understanding the LED indicator" on page 13

#### micro-USB connector

Connects the supplied USB cable.

#### **Up/Down keys**

Adjusts the volume. Press the Switch key to change the mode between adjusting the volume, adjusting the brightness, and switching between 2D/3D mode.

#### 5 BACK key

Displays the previous screen.

#### Headset

#### Mute knock

By tapping here twice, you can activate the mute knock function which temporarily pauses play back, hides the image, and mutes the audio. See the Reference Guide for more details on enabling the mute knock function.

#### Camera/Indicator

Captures images and movies. The indicator flashes when the camera is operating.

→ "Preinstalled applications" on page 22

#### Shade

Shades the product from too much exterior light. The darkness of the shade changes how the surrounding environment and images are viewed.

#### **Headset connection port**

Connects to the controller.

→ "Charging" on page 12

#### Arms

Open the arms to wear.

→ "Wearing the Headset" on page 13

#### Nose pads

By changing the width and position of the pads, you can adjust the height of the lenses to a suitable position.

#### Earphone microphone socket

Connects the earphone microphones. (You cannot connect a microphone.)

→ "Wearing the Headset" on page 13

## Charging

The product is not fully charged at the time of purchase. Charge before use.

This section explains how to charge using the AC adapter. Initial charging takes approximately 5 hours.

- 1 Connect the headset and the controller.

  Insert the headset's connection cable into the controller's headset connection port until it clicks.
- 2 Connect the controller and AC adapter.
  Connect the controller and the AC adapter with the USB cable.
- 3 Plug in the AC adapter.
  The LED indicator flashes light-blue.



Charging is complete when the LED indicator stops flashing and changes to solid light-blue. Disconnect the AC adapter and the USB cable.

Battery life is approximately six hours. Battery life may vary depending on the applications running and environmental usage conditions.

### **Understanding the LED indicator**

The color and status of the LED indicator shows the status of the product.

Light-blue	Operating
Flashing light-blue (one second intervals)	Starting up / Shutting down
Flashing light-blue (two second intervals)	Charging
Flashing red	Battery running low/Startup error
Flashing red three times	Insufficient battery to start up
Blue	Sleep mode

## **Wearing the Headset**

1 Use both hands to open the arms, and then put on the headset.



#### Caution

Do not use too much force when opening the arms of the headset.

## Note

If the headset does not feel secure when worn, attach the supplied ear hooks. Adjust the ear hooks forward or backward so that they fit securely.



# Adjust the width and position of the nose pads so that the lenses are at eye level.

Adjust the height so that images can be viewed easily. Adjust the nose pads to fit the shape of your nose.



#### 3 Connect the earphone microphones to the earphone microphones socket.

Attach the earphone microphones before wearing or playing back any content. Noise may be heard if the earphone microphones are disconnected or connected while content is being played.



4 Wear the earphone microphones.

#### For people who wear glasses

The headset can be worn over glasses that are up to approximately 5.7 inches (14.5 cm) wide.

### Note

Adjust the nose pads as shown below.

• Pull the nose pads so that they rest on your nose over the frames of the glasses.



 Narrow the width of the nose pads so that they rest on your nose in the gap between the frames of the glasses.



• Flatten the nose pads so that they are pressed to the glasses.



By using the supplied lens holder, you can wear the headset without the problems normally associated with wearing a headset over glasses.

Contact your local optician to fit custom lenses into the lens holder, and attach it to the headset. (The user is responsible for the cost of the lenses. Depending on the optician, they may not be able to install the custom lenses into the lens holder.)



#### Lens holder supported lenses

Lens (W x H)	50 x 24 mm
Nose pads	20 mm
Frame PD	70 mm
Curve	4

#### Note

You may not be able to view images when using special lenses such as colored, mirrored, and polarized lenses.

## **Turning On and Off**

#### Turning on



Before turning on the product, check the charge level.

- ⇒ "Charging" on page 12
- 1 Slide the power switch to the [  $\bigcirc$  ] side and hold it there until the LED indicator turns light-blue.



The LED indicator flashes light-blue when starting up. Startup is complete when the indicator stops flashing and turns solid light-blue. Wear the headset and check that the Home screen is displayed.

## Note

- See the following for information on using the trackpad.
  - ⇒ "Using the Trackpad" on page 17
- Turning off the screen while the product is on (Sleep mode)

When you slide the power switch briefly to the [ $\emptyset$ ] side, the product enters Sleep mode and the LED indicator turns

blue. You can release Sleep mode by briefly sliding the power switch to the  $[\mathfrak{G}]$  side again.

• Disabling controller operations (Key lock)

Slide the power switch to the side opposite the [ $\upolesigma$ ] to turn on Key lock. To release Key lock, slide the power switch to the center.

#### **Turning off**

1 Slide the power switch to the [ (b)] side and hold it there for at least one second.



The [Power off] screen is displayed.

2 Touch the trackpad, move [ ] to [OK], and then tap the trackpad to confirm.



The power turns off.

#### Note

If the product freezes, you can force it to shutdown by using one of the following methods.

- Slide the power switch to the [ $\emptyset$ ] side and hold it there for at least eight seconds.
- Use something thin to press the reset button for at least two seconds.



#### Caution

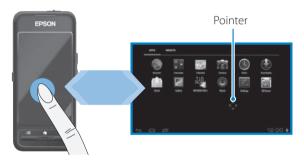
Do not force the product to shutdown unless it freezes. Stored data and settings may be lost.

## **Operations**

## **Using the Trackpad**

This section explains how to operate the product using the trackpad.

When you touch the trackpad with your finger, a pointer is displayed on the screen. Move the pointer to operate the product.



#### Operation methods

#### Тар

Move the pointer to an icon or display item, and then tap the trackpad. Do this to launch applications and select items.

Pointer format: <<sup>\*</sup>>



#### Drag

Touch the track pad for about one second to select the icon or display item, and then drag your finger on the trackpad to move it. Do this to move icons and scroll or change screens.

Pointer format: <\$>



#### Flick

Swipe your finger with a dragging motion, or swipe the trackpad with two fingers.



#### Pinch out

Enlarges the size of the screen by moving two fingers apart.



#### Pinch in

Reduces the size of the screen by moving two fingers closer together.



#### **Cross-key function**

Allows you to move and confirm selected items.

#### ■Up/Down keys

Move your finger up or down along the edge of the screen to move the selected item up or down. Hold your finger in place to keep moving up or down beyond the current screen view.



#### Left/Right keys

Move your finger right or left along the edge of the screen to move the selected item right or left. Hold your finger in place to keep moving right or left beyond the current screen view.



#### Select key

Tap any corner to confirm the selected item.



#### Note

You can select whether or not to display the following when operating the cross-key function. See the Reference Guide for more details.

Up/Down operations: [ M ] [ M ]Left/Right operations: [ M ] [ M ]

### **Entering text**

Tap a location where text entry is possible to display the software keyboard. Tap the keyboard to enter text.

#### Changing the character type

Tap the [AB12] key on the keyboard to change the character type of the keyboard.



## Note

You can make detailed settings in [Settings] - [PERSONAL] - [Language & input]. See the Reference Guide for more details.

## **Using the Home Screen**

You can launch applications and manage various settings from the Home screen.

The following screen is the initial screen you see when using this product.



#### 1 App/Widget area

This area allows you to layout shortcuts and widgets for apps displayed on the Home screen.

- 2 App/Widget list Displays the APPS/WIDGET list screen.
- 3 **Status bar** Indicates the status of the product.
- 4 Virtual buttons

: Returns you to the previous screen.

: Displays the Home screen.

: Displays recently used apps.

#### Launching an application

Launch an application from the APPS list screen.

Home screen





APPS list screen





App screen



#### Arranging apps and widgets on the Home screen

Select apps and widgets you want to display on the Home screen from the APPS/WIDGET list screen, and then arrange them.

 On the APPS/WIDGET list screen, move the pointer to the app/widget, and then hold down your finger on the app/widget.



The screen that allows you to select the location to place the icon on the Home screen is displayed.

2 Drag to the location you want to place the icon, and then remove your finger.



#### Deleting apps and widgets from the Home screen

Delete apps and widgets that have been placed on the Home screen.

- 1 On the Home screen, hold down your finger on the app/widget you want to delete.
  - [ $\times$ ] is displayed at the top of the screen.
- Drag the app/widget you want to delete over the [X], and then remove your finger.



Status bar icons		
	Playing music	
Ψ	Communicating via USB	
<b>\$</b> \$	Connecting/using wireless LAN	
*	Communicating via Bluetooth	
**	Scanning microSD card	
	Battery charge status	
7	Charging	
<u>+</u>	Download complete	
M	Dolby Digital Plus is on	
-	Unmounting microSD card	
<b>3</b>	Connecting with MOVERIO Mirror Source mode	
8	No connection with MOVERIO Mirror Source mode	
$\Xi$	Connecting with MOVERIO Mirror Sink mode	

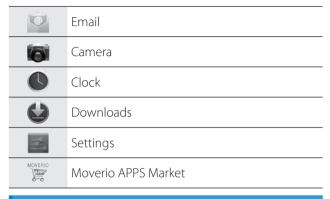


No connection with MOVERIO Mirror Sink mode

## Preinstalled applications

See the Reference Guide for more details on each application.

A.	Gallery
BERRY.	⇒ on page 28
0	Music
	Browser
	⇒ on page 29
SEV	SEViewer
FIR	MOVERIO Mirror
	⇒ on page 30
3	Calendar
Q	Search
Q	People
	Sound Recorder
	Calculator



## Available widgets

Widgets are small applications that display information on the Home screen. The following widgets are available for this product.

Analog clock	
Bookmark	
Calendar	
Contacts	

Email
Music
Music playlist
Power control
Find
Settings
MOVERIO Mirror

## **Initial Settings**

Set up the following settings before using the product.

#### Setting up network

Setup Wi-Fi so that the product can connect to the Internet over a wireless LAN environment.

#### Note

Check the following before setting up.

- The SSID (network name) for the wireless LAN access point or public wireless LAN service you want to connect to.
- The password and the type of the security for the network you want to connect to.
- 1 Tap [ **!!!** ] on the Home screen.



The APPS list screen is displayed.

2 Tap [ 📰 ] on the APPS list screen.



3 Tap [WIRELESS & NETWORKS] - [Wi-Fi] - [OFF] to turn the Wi-Fi [ON].



Available SSIDs (network names) are displayed.

4 Tap the SSID (network name) you want to connect to.



5 Enter the password, and then tap [Connect].



When [ is displayed on the status bar, setup is complete.

#### Note

- See the following for details on how to enter text.
  - ⇒ "Entering text" on page 19
- You can add an SSID manually if the network you want to connect to is not found. See the Reference Guide for more details

#### Setting the language

You can set the display language.

- 1 Tap [ ] on the APPS list screen.
- 2 Tap [PERSONAL] [Language & input] [Language].



3 Tap the language you want to use.



The display language changes to the selected language.

#### Setting the date and time

Set the date and time.

- 1 Tap [ ] on the APPS list screen.
- 2 Tap [SYSTEM] [Date & time] [Automatic date & time].



The date and time are set automatically.

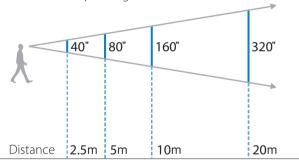
## Note

- If the product is not connected to the Internet, the date and time are not set automatically.
- When setting the date and time manually, you can also set other settings such as the time zone and display format. See the Reference Guide for more details.

## **Viewing Tips**

#### How the screen is displayed

You can change the size of the screen depending on the distance from your point of view. If your point of view is in the distance, it will feel as if the screen is in the distance and larger. If your point of view is in close, it will feel as if the screen is close and smaller. The sense of size for the screen varies depending on the individual.



#### Caution

It is difficult to see all of your surroundings while viewing with the product. Do not leave any fragile items in your immediate surroundings, and do not move around while wearing the product.

#### Note

- How an image is perceived varies depending on the individual.
- If there is a difference between the strength of your eyesight in your left and right eyes, you may not be able to view 3D images correctly.
- How an image is perceived may vary depending on the brightness of your surroundings.

#### Replacing the shade

By attaching the replacement shade (dark), you can reduce the amount of exterior light that enters the product to increase the color saturation for the image.

1 Place your finger below the shade and pull forward.



Place the center of the replacement shade over the center of the headset, and then press the center until it clicks to the headset.



#### Caution

If the shade is pushed or pulled with too much force, the shade could be damaged. Do not use too much force on the shade

## **Viewing Images**

# Viewing Movies Copied from a Computer (Gallery)

This section explains how to view images saved on your computer. Copy movie data from your computer to this product's internal storage or to a commercially available microSD card

View the copied data using Gallery.

#### Note

Check the following points in advance.

 When copying movie data from a computer, connect the computer to this product with a USB cable. The computer recognizes it as a portable device, and you can copy data to the internal storage or microSD card. See the Start Guide for more details

# ⇒ "Viewing Movies Copied from a Computer" (Start Guide)

- The capacity for this product's internal storage is 8 GB.
- A microSD card is not included with this product. This product supports commercially available microSD cards (up to 2 GB) and microSDHC cards (up to 32 GB). Insert the card into the controller's microSD card slot, and then copy data.

# 1 Tap [ ] on the APPS list screen.

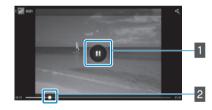
The Gallery's main screen is displayed.

#### 2 Tap the data you want to view.



Tap [ ] to display the application selection screen. Tap [Video player] to start playing the data.

#### Operations while playing movies



#### 1 Pause

The pause button is displayed when you tap the screen. Tap [ 1 to pause play back.

#### 2 Movie positioning

Drag [ ] to the right or left to change the position where you want to start playing.

# Viewing Movies on a Website (Browser)

This section explains how to connect to the Internet and view movies on a website.

Connect to the Internet using Browser.

#### Note

Check the following points in advance.

- A wireless LAN environment is available.
- The Wi-Fi setting is on.
- ⇒ "Initial Settings" on page 24

The Browser screen is displayed.

- 2 Tap the URL field and then enter a search keyword or a URL.
  - → "Entering text" on page 19

## (Note)

If the URL field is hidden, tap the tab to show it again.



- 1 Tab
- 2 URI field

#### **Browser basic operations**

You can perform the following operations on web pages.

- Tap: Click links and buttons.
- Flick: Scroll pages. Flick using two fingers to scroll smoothly.
- Pinch out/Pinch in: Enlarge/reduce the page.
- ⇒ "Using the Trackpad" on page 17

## Using the Browser's menu



- Return to the previous page [ ← ], go to the next page [ → ], refresh the page [ c ]
- 2 Menu list [ ]

Menu list allows you to add new tabs or browse text on a page.

See the Reference Guide for more details on each menu.

# Synchronizing Other Devices and Screens (MOVERIO Mirror)

This section explains how to connect this product to computers, smartphones, and televisions that support Miracast. You can then use the product to view content playing on your computer or smartphone, or watch on television the content playing on this product.

Watch contents using MOVERIO Mirror.

## Note

Check the following points in advance.

- The device being used supports Miracast.
- [Settings] [WIRELESS & NETWORKS] [Wi-Fi direct] is checked.
- To sync with devices that do not support Miracast, you can use the supplied or optional Wireless Mirroring Adapter.
- · Connections are not guaranteed for all devices.

## 1 Tap [ is a screen.

The MOVERIO Mirror main screen is displayed.

#### 2 Select the connection mode.

- When receiving images from other devices: Select [Sink].
- When sending images to other devices: Select [Source].



#### 3 Tap [Target Device].



#### 4 Connect to devices.

When receiving images from other devices:
 Check the ID of this product, and then press the [ 3] key.



 When sending images to other devices:
 Tap the ID of the device you want to connect to, and then press the [ 3] key. This product's screen is displayed on the connected device.



#### 5 Playing the content

 When receiving images from other devices:
 Select the ID of this product on the device you want to connect to. The screen for the connected device is displayed on the product's screen. · When sending images to other devices:

Launch Gallery to select the content you want to play. When selecting content, the application selection screen is displayed.

When you select [MOVERIO Mirror], the content is played on the connected device and this product's screen turns black.

When you select [Video player], the content is played on both this product and the connected device but audio is only output from this product.

#### Note

- While MOVERIO Mirror is running, icons showing the connection status and mode are displayed on the status bar.
- By placing the MOVERIO Mirror widget on the Home screen, you can check the connection status to devices and the connection mode.

## **Troubleshooting**

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

#### The product does not turn on

- · Check that the product is fully charged
- If the product cannot turn on due to insufficient power, the LED flashes red three times.
- If the battery is completely drained, it takes a while for the LED to turn on after starting a charge. Charge for at least 30 minutes.

#### ⇒ "Charging" on page 12

• Slide the power switch to the [ <u>(</u>)] side and hold it there until the LED indicator turns light-blue. When the LED indicator flashes light-blue, the product is starting up. Startup is complete when the indicator changes from a flashing to a solid light-blue light.

#### ⇒ "Turning on" on page 15

- Contact your local Service Center if you forget the password for the screen lock. If the operating system is reinstalled, the product will be reset to its default factory settings.
- When the controller becomes extremely hot due to extended continuous usage or the operating environment, this product may shut down. Cool it down to turn it back on.

#### Cannot view movies or listen to audio

• Check if the movie format for the application being used is supported.

Gallery	MP4 (MPEG4+AAC/Dolby Digital Plus), MPEG2 (H.264+AAC/Dolby Digital Plus)	
MOVERIO Mirror	MPEG2 (H.264+AAC/Dolby Digital Plus)	

- Supported still images (JPEG, PNG, BMP, GIF)
- Supported audio formats (WAV, MP3, AAC)
- If images are not displayed when the LED is light-blue, the product may be muted. Tap the right-hand side of the product twice lightly to release the mute function.
- If content is muted unexpectedly, disable the mute knock function. See the Reference Guide for more details.
- When inputting audio, use the supplied earphone microphone. See http://www.epson.com for recommended earphone microphones that can be used with this product.

### Images are fuzzy

• Switch between 2D or 3D.

#### Cannot perform controller operations

- You cannot perform controller operations when the power switch is slid to the side opposite the [ 也] (Key lock enabled). Slide the switch to the center.
- If the LED is blue (Sleep mode), slide the power switch briefly to the [ψ] side.
- If the direction in which the pointer moves differs from the trackpad operation, the controller's rotation setting may be set to On. Tap [ ] on the APPS list screen, and then check [Language & input] [Auto-rotate trackpad].

#### Cannot connect to the network

- Check that the wireless LAN (Wi-Fi) environment where you are using the product can be accessed.
- Check that the product's wireless LAN setting is turned on. Turn on your Wi-Fi.

#### ⇒ "Initial Settings" on page 24

#### When using at home

- Check that the wireless LAN router or access point is turned on.
- Check the SSID and security password for the wireless LAN router or access point. See the documentation provided with the wireless LAN router or access point for more details.

#### When using a public wireless LAN service

- Check that the public wireless LAN service is available.
- You may need a contract with the service supplier to use the public wireless LAN service.

#### How do I acquire apps?

You can find applications that are supported by this product in the Moverio APPS Market. Make sure you are connected to the Internet, and then tap [ From the APPS list screen.

#### Maintenance

If you can see dust on the image or the image becomes unclear, make sure there is no dust or fingerprints on the lenses.

If there is dust or dirt on the lenses, wipe them carefully with a soft cloth.

# **Specifications**

### Main Specifications

_			
Model Number		BT-200	
Material		Polysilicon TFT active matrix	
LCD panel size		0.42" wide panel (16:9)	
LCD panel pixel co	ount	518,400 QHD (horizontal 960 x vertical 540 dots) x 3	
Angle of view		Approximately 23 degrees	
Virtual screen size		40" support (virtual viewing distance 8.2 ft [2.5 m])	
Color reproductio	n	24 bit color (approximately 16,770,000 colors)	
Platform		Android <sup>™</sup> 4.0	
Supported movie	formats	MP4 (MPEG4+AAC/Dolby Digital Plus), MPEG2 ( H.264+AAC/Dolby Digital Plus)	
Supported still im	age formats	JPEG, PNG, BMP, GIF	
Supported audio formats		WAV, MP3, AAC	
Supported 3D		Side-by-side format	
Internal memory Main memory		1 GB	
	User memory	8 GB	
External memory		microSD (2 GB maximum)	
		microSDHC (32 GB maximum)	
Connector ports		micro-USB, headset connector port, 4 pin mini jack (earphones with microphone complying with the CTIA standard)*1, microSD card slot	
Operating temperature		41 to 95 °F (5 to 35 °C); humidity 20 to 80% (no condensation)	
Storage temperature		14 to 140 °F (-10 to 60 °C); humidity 10 to 90% (no condensation)	
Power voltage Controller 5 VDC (when using USB connector)		5 VDC (when using USB connector)	
	Model Number	PSM05F-050Q(VP)-R	
AC adapter	Manufacturer	PHIHONG TECHNOLOGY CO., LTD.	
	Electrical rating	100 to 240 VAC 50 to 60 Hz 0.15 A	
**			

<sup>\*1</sup> Restrictions in operation may occur when using an adapter plug.

Power consumption		1600 mW when playing movies, 1800 mW when connected to Wi-Fi, 80 mW when standing by
Battery	Туре	Lithium polymer battery 2720mAh
	Lithium content	Less than 1.5 g
	Amount of watt hour rating	Less than 20 Wh
Frequency band		IEEE 802.11 b/g/n
Frequency range		2.4 GHz band (1 to 13 ch)
Modulation		ODFM, DS-SS
Potential interference range		32.8 ft (10 m)
Battery life		Approximately 6 hours (when playing movies)
Exterior dimensions	Headset	7.28 x 6.69 x 1.26 inches (185 x 170 x 32 mm) without the shade 7.28 x 6.69 x 1.46 inches (185 x 170 x 37 mm) with the shade
$(W \times D \times H)$	Controller	2.17 x 4.72 x 0.75 inches (55 x 120 x 19 mm); not including raised section
Mass	Headset	3.10 oz (88 g) without shade and cables
		3.39 oz (96 g) with cables
	Controller	4.37 oz (124 g)
Camera		300,000 pixels
Earphones	Reception	96 dB/mW
	Playback frequency band	20 to 20 kHz
	Impedance	At least 16 ohm
	Output	Maximum output voltage: less than 150mV Wide Band Characteristic Voltage (WBCV): more than 75mV
Audio function	Surround	Dolby Digital Plus
	Sound quality modes	OFF/Classical/Pop/Vocal/Live/Movie/Stadium
Sensors		GPS*2/geomagnetic sensor/accelerometer/gyroscopic sensor
Bluetooth	Standard	V3.0
	Profiles	HSP/A2DP/HID/OPP/SPP/AVRCP

<sup>\*2</sup> The GPS automatically acquires satellite information from the server over a network by using GPStream PGPS™.

## **Intellectual Property Rights**

#### Trademarks

DOLBY.
DIGITAL PLUS

Manufactured under license from Dolby Laboratories.

Dolby and the double-D symbol are trademarks of Dolby Laboratories.

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Wi-Fi<sup>®</sup>, Wi-Fi Direct<sup>™</sup>, and Miracast<sup>™</sup> are the trademarks or registered trademarks of the Wi-Fi Alliance.

GPStream PGPS™ is a trademark of RX Networks. Inc.

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.

# **CENSE**

OPEN SOURCE 1. This product includes open source software programs according to the license terms of each program.

- SOFTWARE LI- 2. We provide the source code of some open source software programs, until five (5) years after the discontinuation of this product. If you desire to receive the source code above, please see the "http://www.epson.com" and contact the customer support of your region. You shall comply with the license terms of each open source software program.
  - 3. The open source software programs are WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. See the license agreements of each open source software program for more details, which are described in the product.
  - 4. The license terms of each open source software program are described in Home screen > Settings > About device > Legal information > Open source licenses of the product.

## **General Notes**

Notes Regarding Wireless I AN

Do not use the Wireless I AN function in France unless you are indoors.

If you purchase this product outside of North America and Taiwan, please note that this product emits wireless LAN electromagnetic waves on channels 1 to 13. Therefore, do not use the wireless LAN function in North America and Taiwan where wireless LAN channels are limited to 1 to 11 by the Wireless Telegraphy Act.

Follow local laws and regulations when using in other regions.

Wireless Telegraphy Act Regulations

The following acts are prohibited by the Wireless Telegraphy Act.

- · Modifying and disassembling (including the antenna)
- Removing the label of conformance

Restriction of Use

This product is manufactured based on the specifications of the country of sale. When using this product outside the country of sale. contact your nearest support center.

When this product is used for applications requiring high reliability/safety of function and precision, such as transportation devices related to aviation, rail, marine, automotive; disaster prevention devices; various safety devices, you should use this product only after giving consideration to including fail- safes and redundancies into your design to maintain safety and total system reliability. Because this product was not intended for use in applications requiring extremely high reliability/safety such as aerospace equipment, main communication equipment, nuclear power control equipment, or medical equipment related to direct medical care.

please make your own judgment on this product's suitability after a full evaluation.

Notes on Frequen-CV

This product operates in the same frequency bandwidth as industrial such as microwave ovens, scientific, and medical devices and mobile object identification (RF-ID) systems (licensed premises radio stations, amateur, and unlicensed specified low-power radio stations (hereafter "other radio stations")) used in factory production lines.

- 1. Before using this product, make sure there are no "other radio stations" being used in the vicinity.
- 2. If this product causes RF interference between the product and "other radio stations", promptly move to a different location, stop using the product, and contact your local dealer to ask for advice on preventing interference (for example setting up partitions).
- 3. In addition, when harmful radio wave interference occurs between the product and "other radio stations", contact your local

conformity

JIS C 61000-3-2 This product conforms to the current "JIS C 61000-3-2" harmonic standard.

Authentication information

U.S.A.

Canada

Europe

FCC ID: SKSH560A

IC ID: 1052D-H560A



Authentication information

Japan

Singapore





Complies with IDA standards DB101624



In France, WLAN usage is only permitted indoors.

The purpose of the WLAN function is to connect to a 2.4 GHz access point.

CONFORMITY

DECLARATION of 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: 3840 Kilroy Airport Way MS: 3-13 Long Beach, CA 90806

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 2.909. 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: See-Through Mobile Viewer

Model: H560A

#### 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.

#### 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.

#### FCC/Industry Canada (IC) Notices

#### **FCC Notices**

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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End-users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Caution:

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

#### Industry Canada (IC) Notices

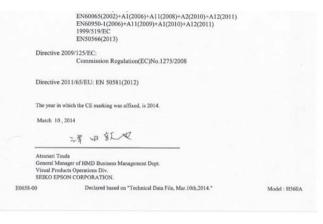
CAN ICES-3 (B)/NMB-3(B)

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.

This equipment complies with RF radiation exposure limits set forth for an uncontrolled environment. End-users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.





Indication of the manufacturer and the importer in accordance with requirements of directive 2011/65/EU (RoHS)

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Telephone: 81-266-52-3131

Importer: SEIKO EUROPE B.V.

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Telephone: 31-20-314-5000

### **Contact List**

This address list is current as of August 2012.

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.

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пери, поперионной

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