Smart Glasses MOVERIO BT-350



User's Guide



© 2017 Epson America, Inc., 6/17 CPD-54304

Information on the Moverio Website

Provides useful tips and support information.

https://moverio.epson.com/

Contents

Safety Instructions	.4
Notes on Usage	10
Included Items	11
Optional Items	12
Part Names and Functions	13
Controller	13
Headset	14
Charging	15
LED indicator status	
Wearing the Headset	17
Wearing over Glasses	18
Turning On and Off	19
Turning On	19
Turning Off	
Status Bar Icons	21

Using the Controller	.22
Using the Cross-key/Enter key	22
Using the Trackpad	23
Using the Neck Strap	.24
Replacing the Parts	.25
Attaching and Removing the Shade	25
Replacing the Temple Grip	26
Replacing the Nose pads	27
Maintenance	.28
Troubleshooting	.29
Specifications	.31
Intellectual Property Rights	.33
General Notes	.38
Contact List	.42

User's Guide Organization

User's Guide	This guide provides information on safely using this product, basic operating methods, and troubleshoot-
	ing. Make sure you read this guide before using the product.

Symbols Used in this Guide

Safety symbols



This symbol indicates information that, if ignored, could possibly result in serious personal injury or even death due to incorrect handling.



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 icons, menu items, and controller key names displayed on the screen.



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 attached 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.

\triangle

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 other power supply devices 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 (USB cable supplied) if it is damaged. Doing so could result in fire or electric shock.

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

For your safety, 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 plug during a thunderstorm. Doing so could result in fire or electric shock.

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.

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

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.

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.

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

\triangle

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 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.

Do not allow any conductive foreign objects to touch the charging connector, external device connector, or earphone microphone socket, 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 unless you are explicitly instructed to do so in the User's Guide. 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 naked flames, such as candles, on this product. Doing so may result in heat, fire, or explosion.

Λ

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 the 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.

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 surroundings.

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

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.

Safety Instructions

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.

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.

Marning Product abnormality precautions

In the following situations, turn off this product immediately, unplug the power plug, 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.

Marning 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. If the product has an auto power on

function, disable it before turning off the product. 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 LAN function in medical institutions.

- Do not bring this product into operating rooms, Intensive Care Units (ICUs), or Cardiac Care Units (CCUs).
- When in wards, turn off this product or stop the electromagnetic waves.
- Even when not in wards, 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.
- If the product has an auto power on function, disable it before turning off the product.

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 the wireless LAN function. The electromagnetic waves may influence the operation of implanted pacemakers or implanted defibrillators. Turn off this product or stop the electromagnetic waves if you are in a location where someone near you may have a pacemaker, such as a crowded train.

Ŵ

Caution Usage environment and condition precautions

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

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.

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

When performing maintenance, make sure you turn off the product, unplug the power plug and the power connector 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.

\triangle

Caution Product usage precautions

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.

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.

Hold the controller securely or place it on a stable surface and make sure the cables are not pulled with undue force. Dropping the head-set 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.

\triangle

Caution Viewing image precautions

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.

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. 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.

Safety Instructions

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.

This product must not be used by children under the age of thirteen.

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.

∧ Caution **Product abnormality precautions**

Contact an authorized Epson dealer when replacing batteries.

Data such as video, images, or music stored on the product may be lost or damaged when the product malfunctions, is repaired, or undergoes other services. Epson shall not be responsible for the loss of any data, damage to data, or loss of profits that occurs at such a time.



You can recycle used lithium-ion batteries. When the product's internal battery reaches the end of its service life, contact a service center for information on recycling.

Safety Instructions

Water Resistance (When using the optional controller case)

When the controller is placed correctly in the controller case, the product is compliant with the IPX2 standard based on JISC0920 (IEC60529:2001) confirmed by tests from a third party. The water resistance feature does not guarantee that the product will operate under all conditions or protect against malfunctions. The warranty is invalid if malfunctions are determined to have occurred due to incorrect handling of the product by the user.

Water resistance level compliant with IPX2

If the product is subjected to dripping water at a rate of 3 mm/minute for up to 10 minutes while the product is at an angle of 15 degrees, water does not enter the product and it can be operated normally.

Caution Precautions (When using the optional controller case)

When using the product, make sure the controller is placed correctly in the controller case. Do not disconnect from the controller connection port in a wet or dusty environment, and do not perform any operations with wet hands. If tiny pieces of trash such as hairs or sand become inserted in the port, the water resistance is not maintained.

Do not drop or damage the product. This could cause the water resistance to degrade.

Do not allow any liquids other than water (such as organic solvents, soapy water, hot spring water, and seawater) to splash onto the product, and do not place it in water intentionally.

Do not leave the product in locations subject to humidity such as bathrooms.

Do not use the product in heavy rain.

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

Notes on Usage

This product uses an Si-OLED display panel. Due to the characteristics of the Si-OLED, you may notice burn-in or decreasing luminance on the panel. This is not a malfunction. To reduce the burn-in, do the following.

- Do not display the same image for a long time.
- Hide markers or text that always appear in the same position.
- · Decrease the display brightness.
- Turn off the display using the tap to mute function or sleep function, or turn off the product when you are not viewing images for a long time.

Charge the battery at least once a year even if you do not use the product. If you do not use the product for a long period of time, the battery performance may deteriorate or you may not be able to charge the battery.

List of Safety Symbols (corresponding to IEC60950-1 A2)

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



Approved standards: IEC60417 No.5031

Meaning: Direct current

To indicate on the rating plate that the equipment is suitable for direct current only; to identify relevant terminals

Included Items



Headset

⇒ "Wearing the Headset" p.17



Controller

⇒ "Using the Controller" p.22



AC adapter

⇒ "Charging" p.15



USB cable

⇒ "Charging" p.15



Shade unit

→ "Attaching and Removing the Shade" p.25



Carrying porch



Neck strap

⇒ "Using the Neck Strap" p.24



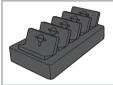
USB attachment

This is necessary when using the optional Quint Controller Dock. Be careful not to lose it.

Optional Items



Controller Case V12H889W01



Quint Controller Dock V12H882W02



Magnet Case V12H886W01



Shade Unit Pack V12H883W01

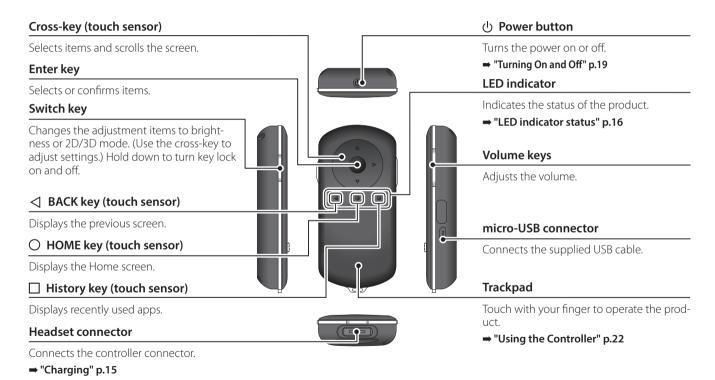


Temple Grip/Nose Pad/Neck Strap Pack

V12H884W01

Part Names and Functions

Controller



Headset

Tap to mute

This function allows you to tap twice to temporarily hide the image and mute the audio.

This is disabled by default.

Ambient light sensor

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

Camera/Indicator

Captures images and movies. The indicators flash while the camera is starting.

Remove the protective film before use.

Controller connector

Connects the controller.

⇒ "Charging" p.15



If the temple grip gets dirty or deteriorates, it can be replaced.

⇒ "Replacing the Temple Grip" p.26

Temples

Open the temples to wear.

⇒ "Wearing the Headset" p.17 Nose pads

If the nose pads get dirty, it can be replaced.

⇒ "Replacing the Nose Pads" p.27

Shade

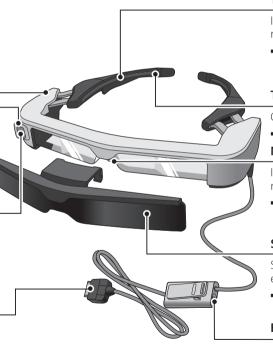
Shades the product from too much exterior light.

→ "Attaching and Removing the Shade" p.25

Earphone microphone socket

You can connect commercially available earphone microphones.

⇒ "Wearing the Headset" p.17



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 controller connector into the controller's headset connection port until it clicks.

0

Do not connect the controller connector to any other devices except for the product.

Connect the controller and AC adapter.

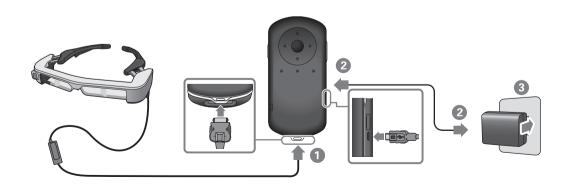
Connect the controller and the AC adapter with the USB cable.

3 Plug in the AC adapter.

The LED indicator flashes light blue.



If the battery is dead, the LED indicator does not turn on for a while when charging starts. Charge for at least 30 minutes, and then re-connect the USB cable.



When the battery is charged 90% or higher, the LED indicator stops flashing and remains on. The LED indicator turns off when the battery is fully charged. (The LED indicator provides a rough indication of the amount of remaining battery.)

Disconnect the AC adapter and the USB cable.

Battery life is approximately six hours. Battery life may vary depending on application and environmental usage conditions.

LED indicator status

You can check the status of the product from the colors and the lit status of the LFD.

Green	Starting up/Shutting down		
Light blue	Charging/Operating		
Blue	Sleep mode		
Orange	ange Battery running low		
Pink	Error		

Wearing the Headset

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



0

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



You can connect the earphone microphone to the earphone microphone socket.

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



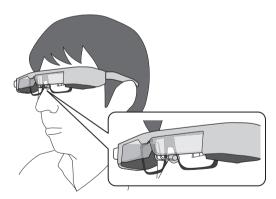
You can clip the earphone microphone to your clothes.

Wearing over Glasses

The headset can be worn over glasses. (The headset can only be worn over glasses that are approximately 5.8 inches [147 mm] wide.)



- 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 the glasses depending on the shape of your glasses.





The nose pads fit over your glasses.

Turning On and Off

Turning On



Before turning on the product, check the charge level.

⇒ "Charging" p.15

Press the Power button for one second.



When the startup begins, the start screen is displayed in the headset. When startup is complete, the Home screen is displayed.

When you cannot view the images, adjust the vertical position of the headset so that the lens is in line with your eyes.



- How an image is perceived varies depending on the individual.
- See the following for information on using the controller.
 - ⇒ "Using the Controller" p.22

Turning off the screen while the product is on (Sleep mode)

When you press the Power button briefly, the product enters Sleep mode and the LED indicator turns blue. Press the Power button briefly again to wake the product from Sleep mode.

• Disabling controller operations (Key lock)

When you hold down the Switch key, the key lock turns on. When you hold down the Switch key again, the key lock turns off.

Turning On and Off

Turning Off

1 Hold down the Power button for at least one second.



The [Power off] screen is displayed.

2 Select [Power off].



The power turns off.



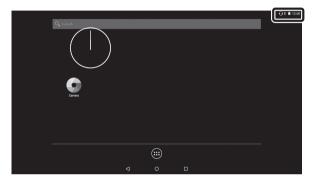
If operations are unstable, you can force the product to shutdown by holding down the Power button for at least 10 seconds.

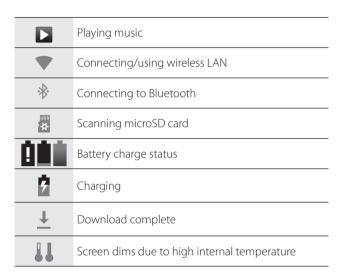


Do not force the product to shutdown unless operations are unstable. Stored data and settings may be lost.

Status Bar Icons

Status bar icons indicates the status of this product.





Using the Controller

You can operate the product using one of the following methods.





The controller may vibrate depending on the operation being performed.

Using the Cross-key/Enter key

Cross-key

The Cross-key is an electrostatic touch sensor, and will react to the lightest of touches.

The selection moves when you select icons or displayed items. When you hold down one direction, the selection moves continuously in that direction.

When you have not selected icons or displayed items, you can scroll the screen.



Enter key

Selects or confirms items or launches the app.



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.

Tap

Move the pointer to an icon or displayed item, and then tap the trackpad. Tap performs actions such as launching apps and selecting items.



Drag

Touch the track pad for about one second to select the icon or displayed item, and then drag your finger while holding down the trackpad. Drag performs actions such as moving icons, scrolling, or changing the screen.



Flick

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

Use two fingers to scroll the screen smoothly.



Pinch Out

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



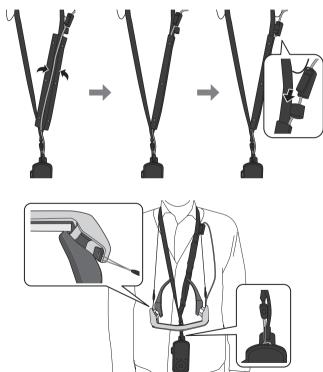
Pinch In

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



Using the Neck Strap

When using the neck strap, you can hang the headset and controller around your neck.



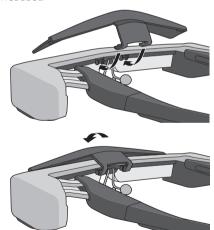
Replacing the Parts

Attaching and Removing the Shade

If it is too bright to view the screen when wearing the headset, attach the shade.

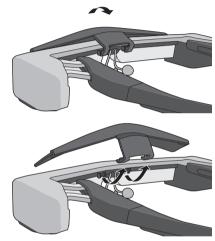
Attaching the Shade

Hold the shade at an angle and press it against the protruding sections (two points) at the center of the headset.



■ Removing the Shade

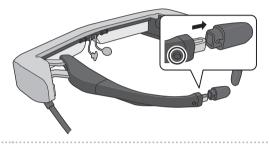
Raise the shade and slowly pull it towards you to remove it.



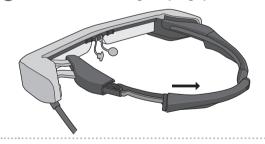
If the shade is pushed or pulled with too much force, the shade and the lens could be damaged. Do not use too much force on the shade.

Replacing the Temple Grip

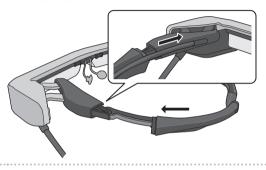
1 Press the part indicated by the circle (○) and remove the tip of the temple grip.



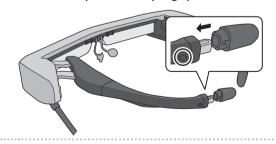
2 Slide off the remaining temple grip.



3 Slide the replacement temple grip into the groove in the headset.

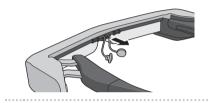


4 While pressing the part indicated by the circle (○), attach the tip of the temple grip.



Replacing the Nose Pads

1 Pull the nose pads forward to remove them.



2 Attach the nose pads.



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, fingerprints, and so on, on the lenses

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



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 packaging that it came in, or in the carrying pouch.
- 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 Charging Connectors

If either of the connectors on the controller or the batttery's connectors are dirty or if there are foreign objects stuck to them, you may not be able to charge correctly. Disconnect the AC adapter and the AC cable, and wipe off any dirt with a dry cloth or a cotton swab. We recommend cleaning the charging connectors regularly (once every three months).

Caution

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

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 indicator is lit orange for five seconds.
- If the battery is dead, the LED indicator does not turn on for a while when charging starts. Charge for at least 30 minutes, and then re-connect the USB cable.

⇒ "Charging" p.15

• Press the Power button for one second. When the startup begins, the start screen is displayed in the headset. When startup is complete, the Home screen is displayed.

⇒ "Turning On" p.19

 When charging cannot be performed or operations are unresponsive, hold down the Power button for at least 10 seconds to force the product to turn off. When the power turns off, restart the product.

⇒ "Turning Off" p.20

 Contact your local Service Center if you forget the password for the screen lock. If the operating system needs to be reinstalled, the device returns to the status at the time of purchase. • If the controller gets too hot due to prolonged use or the usage environment, battery charging stops, and the product may turn off for safety reasons. Wait for the temperature to fall, and then turn the product back on.

Cannot view movies or listen to audio

- The Gallery supports the following formats.
 - Supported video: MP4 (MPEG-4/H.264+AAC), MPEG-2 (H.264+AAC), VP8
 - Supported still images: JPEG, PNG, BMP, GIF
 - · Supported audio formats: WAV, MP3, AAC
- When images are not displayed while the LED indicator is lit, the device may be muted. Tap the right-hand side of the product twice lightly to release the mute function.
- If you accidentally activate the tap to mute function, you can set it to Off.
- Use the earphone microphone to input audio.
- You may not be able to use it depending on the type of switch earphone microphone or standard earphone microphone.

Images are fuzzy

- Switch between 2D or 3D.
- If the product gets too hot, the image brightness may be decreased for safety reasons. When you see []] [] on the home screen, wait for the temperature to fall.

Cannot perform controller operations

- When you hold down the Switch key, the key lock turns on, and you cannot operate the controller. Hold down the Switch key again to release the key lock.
- When the LED indicator is blue (during Sleep mode), press the Power button briefly to release Sleep mode.

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 network settings are correct.
 Contact your network administrator for more details.

Specifications

Model Number		BT-350 (H837A)		
Material		Si-OLED		
Panel size		0.43" wide panel (16:9)		
Panel pixel count		921,600 HD (horizontal 1280 x vertical 720 dots) x 3		
Angle of view		Approximately 23 degrees (diagonally)		
Virtual screen size		40" support (virtual viewing distance 8.2 ft [2.5 m])		
Color reproduction		24 bit color (approximately 16,770,000 colors)		
Platform		Android [™] 5.1		
Supported movie formats		MP4 (MPEG-4/H.264+AAC), MPEG-2 (H.264+AAC), VP8		
Supported still image formats		JPEG, PNG, BMP, GIF		
Supported audio formats		WAV, MP3, AAC		
Supported 3D		Side-by-side format		
Internal memory	Main memory	2 GB		
	User memory	16 GB		
	Built-in SD card	microSDHC (32 GB, Class10)		
Connector ports		micro-USB, controller connector, 4 pin mini jack (earphones with microphone complying with the CTIA standard)*1		
Operating tempera	ature	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)		
	Model Number	PSA05F-050QAL6E-H		
AC adapter	Manufacturer	PHIHONG TECHNOLOGY CO., LTD.		
	Electrical rating	100-240VAC 50-60Hz 0.15A		
Rated voltage/Current		5V/1A		

^{*1} Restrictions in operation may occur when using an adapter plug.

Specifications

Power consumption		1900 mW when playing movies, 2100 mW when connected by Wi-Fi	
Battery	Туре	Lithium polymer battery 2950 mAh	
	Lithium content	Less than 0.053 ounces (1.5 g)	
	Amount of watt hour rating	Less than 20 Wh	
requency band		IEEE 802.11a/b/g/n/ac, Miracast (Source/Sink)	
requency range		2.4 GHz band 1 to 13 ch, 5 GHz band 36 to 144 ch	
Modulation		ODFM, DS-SS	
Potential interference range		32.8 ft (10 m)	
Battery life		Approximately 6 hours (standard life under Epson's evaluation conditions)	
Exterior dimensions (D x W x H)	Headset	7.6 x 6.9 x 1.2 inches (193.5 x 176 x 30 mm) (without the shade)	
	Controller	4.6 x 2.2 x 0.9 inches (116 x 56 x 23 mm) (without protruding section)	
Mass	Headset	Approx. 4.2 ounces (119 g) (without shade and cables)	
	Controller	Approx. 4.6 ounces (129 g)	
Camera		5 million pixels	
Earphone output		Max. voltage 150 mV or less Voltage with broadband characteristics 75 mV or more	
Sensors		GPS/geomagnetic sensor/accelerometer sensor/gyroscopic sensor/ambient light sensor	
Bluetooth	Standard	V4.1 (Bluetooth Smart Ready Class2)	
	Profiles	HSP/A2DP/HID/OPP/SPP/AVRCP/PAN	

Trademarks

iWnnIME @ OMRON SOFTWARE Co., Ltd. 2011 All Rights Reserved.



microSDHC Logo is a trademark of SD-3C, LLC.

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

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc., and any use of such marks by the Seiko Epson Corporation is under license.

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.

SOFTWARE LI-CENSE

OPEN SOURCE As well as software owned by Epson, this product also uses open source software.

- ${\tt SOFTWARE\ LI-} \quad {\tt The\ following\ provides\ information\ on\ the\ open\ source\ software\ used\ in\ this\ product.}$
 - 1. This product includes open source software programs according to the license terms of each program.

 The open source software programs are without warranty; however, any malfunctions (including malfunctions caused by the open source software programs) that occur in this product do not influence the warranty conditions provided for this product.
 - 2. We provide the source code of some open source software programs. If you desire to receive the source code above, please see the "http://www.epson.com" and contact the customer support of your region. We provide the source code until five (5) years after the discontinuation of this product. 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 PAR-TICULAR 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.

INTEL END USER SOFTWARE LICENSE AGREEMENT

IMPORTANT - READ BEFORE COPYING, INSTALLING OR USING.

Do not use or load software from this site or any associated materials until you have carefully read the following terms and conditions. By loading or using the Software, you agree to the terms of this Agreement. If you do not wish to so agree, do not install or use the Software.

LICENSE. You have a license under Intel's copyrights to copy Intel's Software in binary form, (with the accompanying documentation, the "Software") solely for your organization's personal internal use only in connection with Intel products for which the Software has been provided, subject to the following conditions:

- (a) You may not disclose, distribute, rent, lease or transfer any part of the Software except as provided in this Agreement, and you agree to prevent unauthorized copying of the Software.
- (b) You may not reverse engineer, decompile, or disassemble the Software.
- (c) You may not sublicense the Software.
- (d) The Software may contain the software and other property of third party suppliers, some of which may be identified in, and licensed in accordance with, an enclosed license.txt file or other text or file.
- (e) Intel has no obligation to provide any support, technical assistance or updates for the Software.

NO IMPLIED LICENSES OR OTHER RIGHTS. The consideration under this Agreement is only for the licenses that Intel expressly grants to You in the preceding paragraphs. Any other rights including, but not limited to, patent rights, would require an additional license and additional consideration. Nothing in this Agreement requires or will be treated to require Intel to grant any such additional license. An essential basis of the bargain in this Agreement is that Intel grants You no licenses or other rights including, but not limited to, patent, copyright, trademark, trade name, service mark or other intellectual property licenses or rights, by implication, estoppel or otherwise, except for the licenses expressly granted in the preceding paragraphs. Specifically, except for the licenses expressly granted in the preceding paragraphs, Intel grants no licenses or other rights, expressly or by implication, estoppel or otherwise, to:

- (1) make, use, sell, offer for sale, or import modifications of the Software;
- (2) sell or offer to sell the Software;
- (3) combine the Software or modified versions of the Software with other items or to use any such combination; or
- (4) any claims of any patents, patent applications, or other patent rights of Intel.

You acknowledge that there are significant uses of the Software in its original, unmodified and uncombined form. The consideration for the license in this Agreement reflects Intel's continuing right to assert patent claims against any modifications or derivative works (including, without limitation, error corrections and bug fixes) of, or combinations with, the Software that You or third parties make that infringe any Intel patent claim.

OWNERSHIP OF SOFTWARE AND COPYRIGHTS. Title to all copies of the Software remains with Intel or its suppliers. The Software is copyrighted and protected by the laws of the United States and other countries, and international treaty provisions. You may not remove any copyright notices from the Software. Except as otherwise expressly provided above, Intel grants no express or implied right under Intel patents, copyrights, trademarks, or other intellectual property rights. Transfer of the license terminates your right to use the Software.

DISCLAIMER OF WARRANTY. [Intel warrants that the media on which the Software is furnished will be free from defects in material and work-manship under normal use for a period of 90 days from the date of purchase. Intel's entire liability and your exclusive remedy will be the replacement of the Software if the media on which the Software is furnished proves to be defective. This warranty is void if the media defect has resulted from accident, abuse, or misapplication. [Except as provided above, the] [The] Software is provided "AS IS" without warranty of any kind, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

LIMITATION OF LIABILITY. NEITHER INTEL NOR ITS SUPPLIERS WILL BE LIABLE FOR ANY DAMAGES WHATSOEVER (INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF PROFITS, LOSS OF USE, INTERRUPTION OF BUSINESS, OR INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY KIND) WHETHER UNDER THIS AGREEMENT OR OTHERWISE, EVEN IF INTEL HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

LICENSE TO USE COMMENTS AND SUGGESTIONS. This Agreement does NOT obligate You to provide Intel with comments or suggestions regarding the Software. However, if You provide Intel with comments or suggestions for the modification, correction, improvement or enhancement of (a) the Software or (b) Intel products or processes that work with the Software, you grant to Intel a non-exclusive, worldwide, perpetual, irrevocable, transferable, royalty-free license, with the right to sublicense, under Your intellectual property rights, to incorporate or otherwise utilize those comments and suggestions.

TERMINATION OF THIS LICENSE. Intel or the sublicensor may terminate this license at any time if You are in breach of any of its terms or conditions. Upon termination, You will immediately destroy the Software, and return to Intel all copies of the Software.

THIRD PARTY BENEFICIARY. Intel is an intended beneficiary of the End User License Agreement and has the right to enforce all of its terms.

U.S. GOVERNMENT RESTRICTED RIGHTS. No Government procurement regulation or contract clauses or provision will be considered a part of any transaction between the Parties under this Agreement unless its inclusion is required by statute, or mutually agreed upon in writing by the Parties in connection with a specific transaction. The technical data and computer software covered by this license is a "Commercial Item," as that term is defined by the FAR 2.101 (48 C.F.R. 2.101) and is "commercial computer software" and "commercial computer software documentation" as specified under FAR 12.212 (48 C.F.R. 12.212) or DFARS 227.7202 (48 C.F.R. 227.7202), as applicable. This commercial computer software and related documentation is provided to end users for use by and on behalf of the U.S. Government, with only those rights as are granted to all other end users under the terms and conditions in this Agreement. Use for or on behalf of the U.S. Government is permitted only if the party acquiring or using this Software is properly authorized by an appropriate U.S. Government official. This use by or for the U.S. Government clause is in lieu of, and supersedes, any other FAR, DFARS, or other provision that addresses Government rights in the computer Software or documentation covered by this license. All copyright licenses granted to the U.S. Government will only have the right to reproduce, distribute, perform, display, and prepare Derivative Works as needed to implement those rights.

EXPORT LAWS. You acknowledge that the Software and all related technical information or materials are subject to export controls under the laws and regulations of the United States and any other applicable governments. You agree to comply with these laws and regulations governing export, re-export, import, transfer, distribution, and use of the Software, technical information and materials. In particular, but without limitation, the Software, technical information and materials may not be exported or re-exported (a) into any U.S. embargoed countries or (b) to any person or entity listed on a denial order published by the U.S. government or any other applicable governments. By using the Software, technical information and materials, you represent and warrant that you are not located in any such country or on any such list. You also agree that you will not use the Software, technical information and materials for any purposes prohibited by the U.S. government or other applicable government's law, including, without limitation, the development, design, manufacture or production of nuclear, missile, chemical or biological weapons. You confirm that the Software, technical information and materials will not be re-exported or sold to a third party who is known or suspected to be involved in activities including, without limitation, the development, design, manufacture, or production of nuclear, missile, chemical or biological weapons. You agree that any Software, technical information or materials subject to control under defense laws

and regulations (e.g., the International Traffic in Arms Regulations [ITAR]) must not be transferred to non-U.S. persons, whether located in the U.S. or abroad, without a government license. You will indemnify Intel against any loss related to Your failure to conform to these requirements.

APPLICABLE LAWS. This Agreement is governed by the laws of the state of Delaware, excluding its principles of conflict of laws and the United Nations Convention on Contracts for the Sale of Goods. You may not export the Software in violation of applicable export laws and regulations.

Your specific rights may vary from country to country.

General Notes

Notes Regarding Wireless
I AN

Do not use the Wireless LAN 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
- Using the 5 GHz bandwidth LAN when outdoors

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 such as transportation devices related to aviation, rail, marine, automotive; disaster prevention devices; various safety devices; or functional/precision 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 Frequency

This device operates in the same frequency bandwidth as industrial, scientific, and medical devices such as microwave ovens 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 device causes RF interference between the device and "other radio stations", promptly move to a different location, stop using the device, 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 device and "other radio stations", contact your local dealer.

Authentication information

U.S.A.

Canada

Europe

FCC ID: SKSH837A

IC ID: 1052D-H837A





Authentication information

Singapore

Complies with IMDA 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: Smart Glasses

Model: H837A

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 quarantee 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.

FCC Compliance Statement

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 Notices

FCC/Industry Canada (IC) 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.

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 numèrique 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.

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

(1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

DECLARATION of CONFORMITY DÉCLARATION DE CONFORMITÉ Address / Adresse 3-5, Owa 3-chome, Suwa-shi Telephone /Téléphone: 81-266-52-3131 Nagano-ken 392-8502 Japan 81-266-52-8409 Fax Fax: Representative Représentant. EPSON EUROPE B.V Address /Adresse: Atlas Arena. Asia Building. Telephone Téléphone: 31-20-314-5000 Hoogoorddreef 5,1101 BA Amsterdam Zuidoost The Netherlands

Declares under our responsibility that the product:

La présente déclaration est établie sous la seule responsabilité du producteur:

Brand Name /Nom de la marque: EPSON Product Name /Nom du produit: Smart Glasses Model Model:

For more details, please refer to the product description

Pour plus de détails, merci de vous référer à la description du produit

Conforms to the following Directive(s) and Norm(s): Conforme selon les Directives et Normes suivantes: Directive 1999/5/EC:

EN300 328 V1.9.1(2015-02) EN300 489-1 V1.9.2(2011-09) EN300 489-17 V2.2.1(2012-09) EN301 893 V1.8.1(2015-03) EN55022(2010)ClassB

EN55024(2010) EN61000-3-2(2014) EN61000-3-3(2013)

EN60950-1(2006)+A11(2009)+A1(2010)+A12(2011)+A2(2013)

EN50566:2013+EN50566:2013/AC:2014

Directive 2011/65/EU: EN 50581(2012)

Supplemental Information:

The AC Adapter (PSA05F-050OAL6) complies with the followings Directive 2014/30/EU:

EN 55022 (2010)Class B EN 55024 (2010)

EN61000-3-2(2014) EN61000-3-3(2013)

Directive 2014/35/EU:

EN60950-1(2006)+A11(2009)+A1(2010)+A12(2011)+A2(2013)

Directive 2009/125/EC:

Commission Regulation (EC) No 1275/2008

Directive 2011/65/EU:

EN 50581 (2012)

The year in which the CE marking was affixed, is 2017. /L'année où le marquage CE a été apposé, est 2017.

April 11, 2017

Atsunari Tsuda

General Manager of HMD Business Management Dept.

Visual Products Operations Div.

Declared based on "Technical Data File, April 11st, 2017. Déclaration basée sur le "Technical Data File. April 11st, 2017."

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

Manufacturer: SFIKO FPSON CORPORATION

Address: 3-5, Owa 3-chome, Suwa-shi, Nagano-ken 392-8502 Japan

Telephone: 81-266-52-3131

Importer: EPSON EUROPE B.V.

Address: Atlas Arena, Asia Building Hoogoorddreef 5, 1101 BA Amsterdam Zuidoost

The Netherlands

Telephone: 31-20-314-5000

Contact List

This address list is current as of March 2016.

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.

EUROPE, MIDDLE EAST & AFRICA

ALBANIA ITD Sh.p.k. http://www.itd-al.com	AUSTRIA Epson Deutschland GmbH http://www.epson.at	BELGIUM Epson Europe B.V. Branch office Belgium http://www.epson.be	NA NET d.o.o. Computer Engineering http://www.net.com.ba
BULGARIA Epson Service Center Bulgaria http://www.kolbis.com	CROATIA MR servis d.o.o. http://www.mrservis.hr	CYPRUS Mechatronic Ltd. http://www.mechatronic.com.cy	CZECH REPUBLIC Epson Europe B.V. Branch Office Czech Republic http://www.epson.cz
DENMARK Epson Denmark http://www.epson.dk	ESTONIA Epson Service Center Estonia http://www.epson.ee	FINLAND Epson Finland http://www.epson.fi	FRANCE & DOM-TOM TER- RITORY Epson France S.A. http://www.epson.fr
GERMANY Epson Deutschland GmbH http://www.epson.de	GREECE Oktabit S.A. http://www.oktabit.gr	HUNGARY Epson Europe B.V. Branch Office Hungary http://www.epson.hu	IRELAND Epson (UK) Ltd. http://www.epson.ie

ISRAEL KAZAKHSTAN ITAIY I ATVIA Epson Israel Epson Italia s.p.a. Epson Kazakhstan Rep. Office **Epson Service Center Latvia** http://www.epson.co.il http://www.epson.it http://www.epson.kz http://www.epson.lv **LITHUANIA** LUXEMBURG **MACEDONIA NETHERLANDS Epson Service Center Lithuania** Epson Europe B.V. **Digit Computer Engineering** Epson Europe B.V. http://www.epson.lt **Branch office Belgium** http://www.digit.com.mk Benelux sales office http://www.epson.be http://www.epson.nl **NORWAY PORTUGAL** POLAND ROMANIA **Epson Norway** Epson Europe B.V. Epson Ibérica S.A.U. Epson Europe B.V. **Branch Office Poland Branch Office Portugal Branch Office Romania** http://www.epson.no http://www.epson.pl http://www.epson.pt http://www.epson.ro RUSSIA UKRAINE **SERBIA** SLOVAKIA **Epson CIS** Epson Kiev Rep. Office AVG d.o.o. Beograd Epson Europe B.V. **Branch Office Czech Republic** http://www.epson.ru http://www.epson.ua http://www.a-v-g.rs http://www.epson.sk **SLOVENIA SPAIN SWEDEN SWITZERLAND** Epson Ibérica, S.A.U. **Epson Sweden Epson Deutschland GmbH** Birotehna d.o.o. Branch office Switzerland http://www.birotehna.si http://www.epson.es http://www.epson.se http://www.epson.ch **AFRICA** TURKEY UK **SOUTH AFRICA** Tecpro Bilgi Teknolojileri Tic. ve Epson (UK) Ltd. http://www.epson.co.za **Epson South Africa** San, Ltd. Sti. http://www.epson.co.uk http://www.epson.co.za http://www.tecpro.com.tr http://www.epson.fr

MIDDLE EAST

Epson (Middle East)

http://www.epson.ae

NORTH, CENTRAL AMERICA & CARIBBEAN ISLANDS

CANADA Epson Canada, Ltd.

http://www.epson.ca

COSTA RICA

Epson Costa Rica, S.A.

http://www.epson.co.cr

MEXICO

Epson Mexico, S.A. de C.V. http://www.epson.com.mx **ECUADOR Epson Ecuador**

http://www.epson.com.ec

U. S. A.

Epson America, Inc.

http://www.epson.com

SOUTH AMERICA

ARGENTINA

Epson Argentina S.R.L.

http://www.epson.com.ar

BRAZIL

Epson do Brasil

http://www.epson.com.br

CHILE

Epson Chile S.A.

http://www.epson.cl

COLOMBIA

Epson Colombia Ltd.

http://www.epson.com.co

PERU

Epson Peru S.A.

http://www.epson.com.pe

VENEZUELA

Epson Venezuela S.A.

http://www.epson.com.ve

ASIA & OCEANIA

AUSTRALIA

Epson Australia Pty. Ltd.

http://www.epson.com.au

CHINA

Epson (China) Co., Ltd.

http://www.epson.com.cn

HONG KONG Epson Hong Kong Ltd.

http://www.epson.com.hk

INDIA

Epson India Pvt., Ltd.

http://www.epson.co.in

Contact List

INDONESIA PT. Epson Indonesia http://www.epson.co.id	JAPAN Seiko Epson Co. Toyoshina Plant http://www.epson.jp	KOREA Epson Korea Co., Ltd. http://www.epson.co.kr	MALAYSIA Epson Malaysia Sdn. Bhd. http://www.epson.com.my
NEW ZEALAND Epson New Zealand http://www.epson.co.nz	PHILIPPINES Epson Philippines Co. http://www.epson.com.ph	SINGAPORE Epson Singapore Pte. Ltd. http://www.epson.com.sg	TAIWAN Epson Taiwan Technology & Trading Ltd. http://www.epson.com.tw
THAILAND Epson (Thailand) Co.,Ltd. http://www.epson.co.th			