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English

WARNING

To reduce the risk of fire or electric shock, do not expose the unit to rain or moisture.
To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

Owner's Record

The model number and the serial number are located inside the battery compartment of the mouse. Record the serial number in the space provided below. Refer to this number whenever you call your Sony dealer regarding this product.
Model No. VGP-BMS21
Serial No. _____

Safety information

- Do not look directly into the lens. The laser light may cause eye injury.
- In the following circumstances, set the power to off and have it checked by qualified personnel before continuing its use.
 - Water or a foreign object has entered the mouse.
 - Smoke is coming out of the mouse.
 - There is an unusual noise or smell.
 - The mouse is dropped or the exterior of the mouse has broken.

- Do not place the mouse in a location subject to:
 - On an unstable surface.
 - In very humid areas or where there is no ventilation.
 - Excessive dust.
 - Direct sunlight or extreme heat.
 - Mechanical vibration or shock.
 - Greasy fumes.
- If the mouse is brought directly from a cold to a warm location or is placed in a very damp room, moisture may condense on the inside of the mouse. If this occurs, the mouse may not work properly.

Precautions on using the batteries

- If the battery liquid is leaking:
 - Do not touch the battery liquid directly. If your eyes, skin, or clothing comes into contact with the battery liquid, wash well with pure water. If you have skin inflammation or a wound results, consult a doctor immediately.
 - Wipe the battery compartment carefully, and insert new batteries.
- Dispose of used batteries promptly and properly. Discard used batteries according to the manufacturer's instructions. In some areas, the disposal of batteries in household or business waste may be prohibited. Please use the appropriate public collection system.
- Batteries may explode or leak if recharged, or disposed of in fire.
- Do not disassemble, heat above 60 °C (140 °F) or incinerate.
- Replace only with the same or equivalent type recommended by the manufacturer. Do not mix old (used) and new batteries, or batteries of a different type. Be sure to use batteries specified in "Power requirements" or "Specifications." Danger of explosion if battery is incorrectly replaced.
- Keep away from children.
- Insert the batteries with the correct +/- orientation.
- When the batteries have run out, or when you intend not to use the mouse over a prolonged period, remove the batteries.
- Do not short-circuit the metal terminals of the battery or wet them with any liquid, for example, water, coffee, or juice.

Conditions of use

- Do not use this device on hospital premises. Doing so may cause medical devices to malfunction.
- Do not use this device on an aircraft, as doing so may cause the aircraft's equipment to malfunction.
- If using this device near a pacemaker, make sure it is at least 20 cm (8 inches) away from the pacemaker.
- Sony is not responsible for any interference that you may experience or that may be caused when operating this device.
- Check for and respect airline restrictions on use of wireless capabilities. If use of the wireless function is prohibited on the aircraft, set the power switch on this device to OFF before boarding.

The equipment is classified as a CLASS 1 LASER PRODUCT and complies with the Laser Products Safety Standard IEC/EN 60825-1:2007.
Caution - Repair and maintenance of this equipment should be made only by Sony authorized technicians. Improper repairs and use can create safety hazards.
Caution - Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
You can find the following sticker on the bottom of the equipment.



For customers in the U.S.A.

The following FCC statements apply only to the version of this model manufactured for sale in the USA.

Other versions may not comply with FCC technical regulations. 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.

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

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

For questions regarding your product or for the Sony Service Center nearest you, call 1-888-476-6972 in the United States or 1-800-961-7669 in Canada.

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, including interference that may cause undesired operation.

For customers in Canada

This Class B digital apparatus complies with Canadian ICES 003. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

For customers in the U.S.A. and Canada

This equipment complies with FCC/IC radiation exposure limits set forth for uncontrolled equipment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET 65 and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation (MPE). But it is desirable that it should be installed and operated with at least 20cm and more between the radiator and person's body (excluding extremities: hands, wrists, feet and ankles). This device and its antenna(s) must not be co-located or operating with any other antenna or transmitter except Grant condition.

Before use

This product is a laser mouse equipped with Bluetooth technology.

It can be used with IBM PC/AT compatible computers pre-installed with the Windows 7, Windows Vista or Windows XP (SP2 and after) operating system and featuring Bluetooth wireless technology (as of January 2011).

Depending on the personal computer or version of software you are using, the mouse may not operate by function correctly.

For additional information, visit our website.

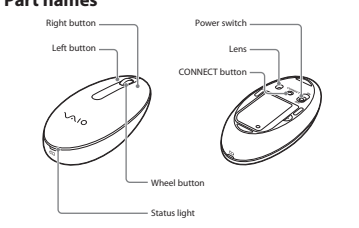
For North America: <http://www.sony.com/valo>
For Europe: <http://www.valo.eu>

For other countries and regions: <http://valo-online.sony.com>

Notes

- Operation cannot be guaranteed for all computers meeting the above system requirements.
- Operation is not guaranteed for home-built computers, whitebox PCs, and computers with an upgraded OS or multihost system environment.

Part names



Status light indicator	Description
Lights up green (steady), then turns off	If you set the power switch to ON, this mode is entered after a few seconds. When lit, the mouse is attempting to connect to a computer.
Light is orange (flashing)	Battery power is low. Replace the batteries.
Light is green (rapid flashing)	If you push the CONNECT button, the flashing status light indicates that the mouse is waiting to connect to the personal computer. About connecting, see "Enabling communication between the mouse and your personal computer."

Inserting batteries into the mouse

- Turn off the mouse.
- Open the battery compartment cover. Insert the two supplied batteries using the correct +/- orientation.



Close the battery compartment cover.

Replacing the batteries

If cursor movement becomes sluggish, or the communication distance between the mouse and your personal computer decreases, check the status light on the mouse. The status light flashing orange indicates that the battery life is running low. Replace the batteries.

When not using the mouse, set the power to off. This will extend battery life.

Enabling communication between the mouse and your personal computer

Use the Bluetooth software installed on your personal computer to enable communication between the mouse and your personal computer.

Note
Activate the Bluetooth software on your personal computer. Operation of the Bluetooth software may vary depending on your personal computer. For details, refer to the manuals provided with your personal computer.

The step instructions are based on your operating system.

If your computer is pre-installed with Windows 7, go directly to the instructions in Case A.

If your computer is pre-installed with Windows XP, go directly to the instructions in Case D.

If your computer is pre-installed with Windows Vista, follow these steps (In certain situations, you may be directed to the instructions in Case B, Case C or Case D):

- Click (Start), then "Control Panel".
 - Click the "Hardware and Sound" icon.
 - If the "Bluetooth Devices" icon is in the "Hardware and Sound" window:
 - Go to step 4.
 - If the "Bluetooth Devices" icon is not visible in the "Hardware and Sound" window:
 - Close the "Control Panel" and go to Case D.
 - Click the "Bluetooth Devices" icon, and verify the contents of the window displayed.
- Note**
If you switch to Classic View, double-click the "Bluetooth Devices" icon.
- Review the Bluetooth Devices windows shown here.
- If you see window 1, go to the instructions in Case C. If you see window 2, go to the instructions in Case C.

Window 1



Case A

- Click (Start), then click "Devices and Printers."
 - Turn on the mouse.
 - Press the CONNECT button on the bottom of the mouse. The status light flashes green.
 - Click "Add a device" in the "Devices and Printers" window.
 - In the device list, select "VGP-BMS21," and click "Next."
- Hint**
If the "Select a pairing option" window is displayed, select "Pair without using a code" and click "Next."
- Click "Close" in the "Add a device" window.
 - Move the mouse. If the pointer displayed on your screen moves appropriately, the connection is complete.

Case B

- Turn on the mouse.
 - Press the CONNECT button on the bottom of the mouse. The status light flashes green.
 - On the "Bluetooth Devices" window, click the "Add Wireless Device" icon.
 - In the device list, select "VGP-BMS21," and click "Next."
- Hint**
If the "Select a pairing option" window is displayed, select "Pair without using a code," and click "Next."
- On the "Pair with a Wireless Device" window, click "Close."
 - Close the "Bluetooth Devices" window.
 - Move the mouse. If the pointer displayed on your screen moves appropriately, the connection is complete.

Case C

- Turn on the mouse.
 - On the "Bluetooth Devices" window, select the "Devices" tab and click "Add." The "Add Bluetooth Device Wizard" appears.
 - Press the CONNECT button on the bottom of the mouse. The status light flashes green.
 - Select the "My device is set up and ready to be found" check box and click "Next."
 - In the device list, select "VGP-BMS21," and click "Next."
 - Select "Don't use a passkey" and click "Next."
 - Click "Finish."
 - Click "OK."
- Move the mouse. If the pointer displayed on your screen moves appropriately, the connection is complete.

Case D

- Turn on the mouse.
- Double-click in the notification area in the bottom right corner of your personal computer's desktop. The "Bluetooth Settings" screen appears.
- Click "New Connection." The "Add New Connection Wizard" screen appears.
- Press the CONNECT button on the bottom of the mouse. The status light flashes green.
- Select "Express Mode" and click "Next." The search for Bluetooth devices begins.
- In the device list, select "VGP-BMS21," and click "Next."
- If the "Add New Connection Wizard" disappears, connection is complete. Go to step 10.
- If the prompt to connect the HID (Human Interface Device) device appears, click "OK."
- Verify the contents of the window displayed, and click "Next."
- Move the mouse. If the pointer displayed on your screen moves appropriately, the connection is complete.

Disconnecting

Turn off the mouse.

Reconnection

Turn on the mouse, then reconnect.

Note

It may take time to reconnect after turning off the mouse.

Notes on use

- Due to the characteristics of the laser sensor, the mouse may not work properly on transparent surfaces or on a mouse pad that has a clear surface. Avoid using on such materials, or use a commercially available mouse pad that is compatible with a laser sensor mouse.
- Although the polytetrafluoroethylene (PTFE) fluorocarbon polymer in the sole is a low-friction, non-stick material, the level of friction may vary depending on the material of the desktop and mouse pad.

Hint

If necessary, you can adjust the mouse pointer speed under "Mouse Properties." To display "Mouse Properties" with the Windows 7 operating system, click "Hardware and sound," then "Mouse" in the "Control Panel." To display "Mouse Properties" with Windows Vista and Windows XP operating system, click "Mouse" in the "Control Panel." (If you use Windows XP operating system, switch to Classic View.)

Wireless communication

- The 2.4 GHz band used by Bluetooth devices and wireless LAN devices is also used by various other devices. Bluetooth devices and wireless LAN devices use the technology to minimize the interference from other devices that use the same wave length. Simultaneous use of the Bluetooth devices and wireless LAN devices, however, may cause radio interference and result in reduced communication speeds and distance than the standard values.
- If data transfer rate will vary depending on distance and obstacles between devices, device configuration, radio interference, operating system, software application, and so on. In some cases, communication may be interrupted.
- Communication range will vary according to whether walls or other obstacles are located between devices, the material used in walls, the presence of radio frequency interference and other environmental conditions, and the type of software being used.
- If Bluetooth functionality and wireless LAN functionality are used at the same time on the same personal computer, communication speed may be reduced due to electromagnetic interference, and other unwanted effects may occur.

Maintenance

When you clean the mouse, make sure to remove the batteries. Clean the outside of the mouse with a soft, dry cloth. Do not use any type of abrasive pad, scouring powder, or solvent such as alcohol or benzine.

Specifications

Buttons / Wheel	2 buttons / 1 wheel
Position tracking method	Laser sensor
Sensor resolution	300 dot/cm (800 dpi)
Communication method	Bluetooth Standard Ver. 3.0
Communication distance	10 m (32 ft.) max. line of sight *
Frequency band	2.4 GHz
Power requirements	Two 1.6V (size AA) alkaline batteries **
Battery life	Approx. 3 months (alkaline batteries) **
Dimensions	Approx. 53.0 x 31.0 x 112.4 mm (2.1 x 1.3 x 4.5 in) (w x h x d)
Mass	Approx. 105 g (3.8 oz.) (including batteries)
Operating temperature	5 °C to 35 °C (41 °F to 95 °F) (temperature gradient less than 10 °C (18 °F) hourly)
Operating humidity	20% to 80% (not condensed), provided that humidity is less than 65% at 35 °C (95 °F) (hygrometer reading of less than 29% RH) -20 °C to +60 °C (-4 °F to +140 °F)
Storage temperature	(temperature gradient less than 10 °C (18 °F) hourly)
Storage humidity	10% to 90% (not condensed), provided that humidity is less than 20% at 60 °C (140 °F) (hygrometer reading of less than 15% RH)
Accessories	LR6 (size AA) alkaline batteries (2) Operating Instructions (this document)

* The communication range varies, due to walls or other obstacles between devices, the environment used in the walls, environmental conditions such as radio frequency interference, and the software program used.

** This estimate is based on five hours of use per day, five days per week. These could be different depending on the usage environment.

Design and specifications are subject to change without notice.

Troubleshooting

If you are not able to locate a solution in this section, contact a Sony authorized dealer.

The laser does not light up when I turn on the mouse.
The laser light from the lens is invisible. This is not a malfunction.

The pointer/cursor does not move when I move the mouse.
Your computer's operating system may not be compatible with this equipment. Use a supported operating system.

- The mouse is not turned on.
 - If the mouse is turned off, the mouse and your personal computer are not communicating. Turn on the mouse.
 - With sufficient battery power, if you turned on the mouse, after a few seconds, the status light lights green momentarily. If not, there are no batteries in the mouse, or the batteries are exhausted. Insert new batteries. For more information, see "Inserting batteries into the mouse."

→ The mouse and the personal computer are not communicating.

→ For more information, see "Cannot connect to the personal computer."

→ The mouse is being used on an unsuitable surface.

→ Due to the characteristics of the laser sensor, the mouse may not work properly on transparent surfaces. Avoid using on such surfaces, or use a commercially available mouse pad that is compatible with a laser sensor mouse.

→ The CONNECT button is pressed while operating the mouse.

→ If the CONNECT button is pressed while operating the mouse, the mouse goes into a standby mode for about 3 minutes and cannot be operated during this time. If you press the CONNECT button, turn off the mouse once before starting to work with the mouse.

→ The mouse may have difficulty communicating in an environment with 2.4 GHz wireless LAN or other Bluetooth communication.

→ It is best to use the mouse away from interference from wireless devices.

→ Processing performed by Windows or other software may temporarily disable the mouse. Wait a few moments for the processing to finish before using the mouse.

→ You may find some useful solutions in your personal computer's operating instructions. Refer to the manuals provided with your personal computer.

Cannot connect to the personal computer.
The mouse is not turned on.

→ For more information, see "The pointer/cursor does not move when I move the mouse."

→ Communication status between the mouse and your personal computer may not have been properly established.

→ Make sure your personal computer is set as below.

→ The WIRELESS switch is set to ON.

→ Bluetooth function is in operation.

→ For details on how to set the WIRELESS switch or Bluetooth function, refer to the manuals provided with your personal computer.

→ Turn off the mouse, after a few seconds, turn on the mouse to connect to the personal computer. For details on connecting, see "Enabling communication between the mouse and your personal computer."

→ If the mouse and the personal computer are too far apart, transmission may be affected. The maximum communication distance between the mouse and the personal computer is about 10 m (32 ft.). If used on a metal table or if obstacles are between the mouse and the personal computer, the communication distance may be less. Connect the mouse and the personal computer as close as practically possible.

→ Depending on usage environment, communication distance may decrease, and improper operation may result. In such a case, keep other electronic equipment away from the host device.

The scrolling features do not work.
→ Your computer's operating system may not be compatible with this equipment. Use a supported operating system.

→ The program you are using is not compatible with the scrolling features.

When I am using the mouse, the display goes dark or the personal computer enters power saving mode.

→ The computer's power saving mode is ignoring mouse activity.

→ Change the power management settings for the personal computer to prevent it from entering power saving mode. For details, refer to the manuals provided with your personal computer.

→ Touch the touchpad or press any key on the keyboard to exit power saving mode.

The mouse pointer does not move smoothly across the screen.

→ The mouse may not work properly on transparent surfaces due to the characteristics of the mouse's laser sensor.

→ Avoid using on such materials, or use a commercially-available mouse pad that is compatible with a laser sensor mouse.

→ Your mouse may be experiencing interference from other Bluetooth devices that are connected to your computer.

→ Disconnect them all once, wait a few seconds, then connect them again.

Exiting power saving mode with the mouse is not possible.

→ Press any key on the keyboard to exit power saving mode.

The mouse does not move smoothly after returning from the power saving mode.

→ Deactivate the Bluetooth connection, wait a few seconds, and then reestablish connection.

I am asked to enter a key when connecting to my personal computer.

→ Enter "0000" as the key.

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In this manual, Microsoft® Windows® XP Home Edition and Microsoft® Windows® XP Professional are referred to as Windows XP.

In this manual, Microsoft® Windows Vista® Home Basic, Microsoft® Windows Vista® Home Premium, Microsoft® Windows Vista® Business and Microsoft® Windows Vista® Ultimate are referred to as Windows Vista.

In this manual, Microsoft® Windows 7® Ultimate, Microsoft® Windows 7® Professional, Microsoft® Windows 7® Home Premium, Microsoft® Windows 7® Home Basic and Microsoft® Windows 7® Starter are referred to as Windows 7.

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