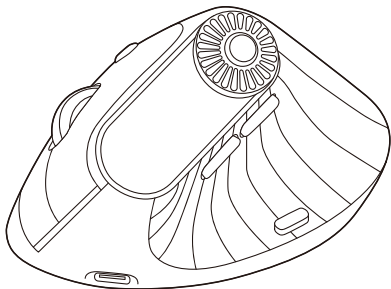# SANWA®

# 2.4G Wireless & Bluetooth Ergonomic Mouse With LED Screen
## User Manual
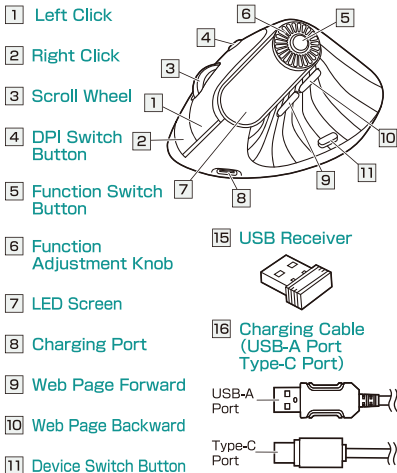


User Manual

**GMAERGWBT2-DP**
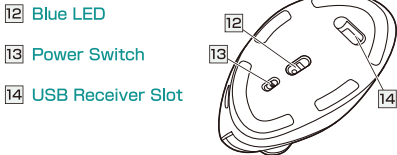FCC ID: 2AMSUGMAERGWBT2-DP
DID: RO70240
Ver. A241112

## 1.At a Glance

1 Left Click

2 Right Click

3 Scroll Wheel

4 DPI Switch Button

5 Function Switch Button

6 Function Adjustment Knob

7 LED Screen

8 Charging Port

9 Web Page Forward
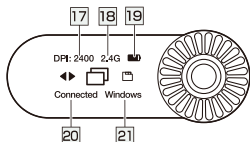
10 Web Page Backward

11 Device Switch Button

Double-click it to switch between connected devices, and the corresponding connection channel name will be displayed on the LED. For more details, please refer to page 7, "4. Device connection method"

12 Blue LED

13 Power Switch

14 USB Receiver Slot

15 USB Receiver

16 Charging Cable (USB-A Port Type-C Port)

USB-A Port

Type-C Port

## 2.Display Screen and Function Adjustment Knob Introduction



**7** LED Screen

DPI: 2400   2.4G
Connected   Windows

**17** **18** **19**
**20** **21**

1) Single-click the function button to enter the function selection window. With each click of the function button, you can cycle through one of the six functions.

2) Long-press the function switch button to change the operating system.

**17** **DPI Display** ⋯ Show the current cursor moving speed.

**18** **Mode LED** ⋯ Connection Channel Display (Wired, 2.4G Wireless, 2 Bluetooth).

**19** **Power Status Display** ⋯ Display remaining power or charging status.

**20** **Connection Status** ⋯ Pairing, Reconnecting, Connected

**21** **Operating System** ⋯ Windows/Mac

### Function Adjustment Knob Introduction



DPI: 2400   2.4G
Connected   Windows

DPI: 2400   2.4G
Connected   Windows

**22** **23** **24** **25** **26** **27**
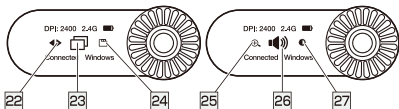
**22** **Scroll left and right** ⋯ Scroll left and right after selection

**23** **Multi task window switch** ⋯ Select to switch between multiple work windows

**24** **Web page switch** ⋯ You can switch between browser tabs

**25** **Zoom in/out** ⋯ After selected, you can zoom in or out the page or files

**26** **Volume adjustment** ⋯ Selected to change the volume up/down

**27** **Screen brightness** ⋯ Selected to change the screen brightness

※The current mode is shown with the icon zoomed in.

# 3.Preparation before usage

**Charge the battery when using it for the first time.**
- Until the charging LED changes from red to green or the power bar of the charging LED turns all white. (Charging time/approx. 3 hours)
- Be sure to charge with the included charging cable. About multi-device connections (plural connections)
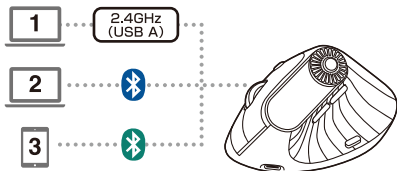
| 1 | ···· 2.4GHz (USB A) |
| 2 | ···· 🔵 |
| 3 | ···· 🔵 |

This product supports connect and switch with 3 devices (1 2.4GHz USB A device 2 Bluetooth devices) at the same time.

| 4 | ···· wired connection (USB A) |

※When using a wired connection, it is not possible to switch to a wireless connection or Bluetooth connection.

## Device switching method

Turning on the power, double-click to switch to the next connection channel, cycling through 3 available options.
※The mode LED will go out some time after operating the device switch button.

Display Screen    Mode LED

DPI: 2400   RU  🔋
◄► 🖵 🖵
Connected  Windows
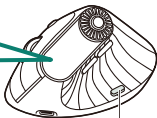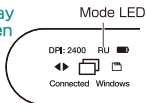
Device Switch Button

# 4.Device connection method

## \<Wired connection (USB A)\>

> ⚠ Recommend to close all other applications (resident programs such as virus scanning software) before connecting the charging cable.

1. Connect the product to the computer with the included charging cable, the mode LED will show "RU".



Display Screen

Mode LED

DPI: 2400   RU ▭

◀▶  ▭  ▯

Connected   Windows

Charging Cable

2. Hardware detection will begin and driver installation will be completed automatically.

The mouse is now ready to use.

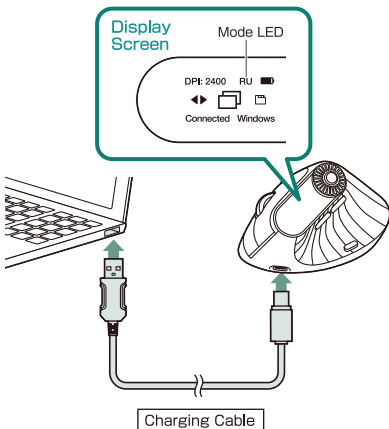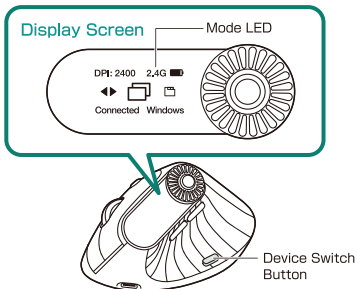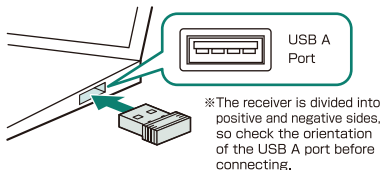# 4.Device connection method

## <2.4G Wireless Connection>

⚠ Recommend to close all other applications (resident programs such as virus scanning software) before connecting the USB receiver.

1.With the power on, double-click the device switch button to switch to the 2.4 GHz wireless mode.

Display Screen — Mode LED

DPI: 2400   2.4G

Connected  Windows

Device Switch Button

2.Plug the receiver to the USB A port of your computer.

USB A Port

※The receiver is divided into positive and negative sides, so check the orientation of the USB A port before connecting.

3.Hardware detection will begin and driver installation will be completed automatically.
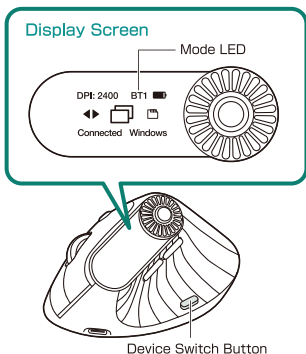
The mouse is now ready to use.

# 4.Device connection method

## &lt;Bluetooth Connection&gt;

> **If not in pairing mode, press the device switch button several times until the Bluetooth mode LED shows up.**

1.With the power on, double-click the device switch button to switch to "BT1" or "BT2".

Display Screen

Mode LED

DPI: 2400  BT1

Connected  Windows

Device Switch Button

2. Press and hold the device switch button to enter pairing (connection) mode.

　※Please use an existing mouse or touchpad to complete the pairing (connection).

　※The following instructions are examples of pairing (connection) methods for different operating systems. If you are using an external USB Bluetooth adapter, please refer to its user manual.

# 4.Device connection method

## &lt;Bluetooth Connection&gt;

### For Windows 11

1. Click the Windows icon in the bottom left to open the "Start Menu."
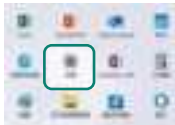
2. Click "Settings."

3. In the settings window, click "Bluetooth & Devices," then click "Add Device."
   ※Please make sure Bluetooth is turned "On."

4. In the "Add a Device" screen, click "Bluetooth."

5. After a moment, "BT1:GMAERGWBT2-DP-1 BT2:GMAERGWBT2-DP-2" will appear. Click on one of them.

6. The following screen will indicate that the pairing is complete. Click "Done."

7. Please check if the device name is displayed.

# 4.Device connection method

## \<Bluetooth Connection>

### For Windows 10

1. Click the Windows icon in the bottom left to open the "Start Menu."

2. Click "Settings."

3. In the settings window, click "Devices."

4. In the devices window, click "Bluetooth & Other Devices," then click "Add Bluetooth or Other Device."
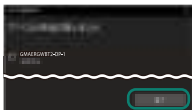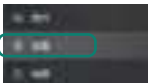
確認

※Please make sure Bluetooth is turned "On."

5. In the "Add a Device" screen, click "Bluetooth."

6. After a moment, "BT1:GMAERGWBT2-DP-1 BT2:GMAERGWBT2-DP-2" will appear. Click on one of them.

GMAERGWBT2-DP-1

7. The following screen will indicate that the pairing is complete. Click "Done."

GMAERGWBT2-DP-1

8. Please check if the device name is displayed.

GMAERGWBT2-DP-1

# 4.Device connection method

## <Bluetooth Connection>

### For mac OS 10.15~ and later

1. Click "System Preferences" from the Apple menu, then click the "Bluetooth" icon.
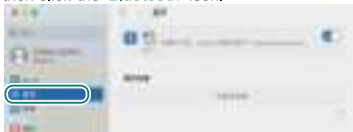


2. After a moment, "BT1:GMAERGWBT2-DP-1、BT2: GMAERGWBT2-DP-2" will appear, click "Connect."
※ If Bluetooth is turned off, please turn it on to begin detecting the mouse.



3. The pairing is complete when the status changes to "Connected."



4. Please configure the mouse settings in "System Preferences."

# 4.Device connection method

## <Bluetooth Connection>

For Chrome OS

1. Open "Bluetooth" and click "Connect".



2. After a moment, "BT1:GMAERGWBT2-DP-1、
   BT2:GMAERGWBT2-DP-2" will appear, click "Connect."



GMAERGWBT2-DP-1

3. The pairing is complete when the status changes
   to "Connected".



GMAERGWBT2-DP-1
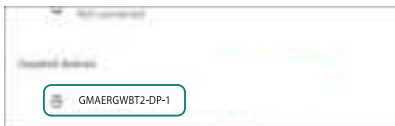
## 5.Custom Key Function

You can customize the key functions of this product by downloading the driver from the SANWA website.

Please scan the QR code below, install the software, and follow the instructions to set up custom key functions.



SANWA Plus

▶ **https://www.sanwa.com/cn/wp-content/
download/driver/SANWA_Plus.rar**

## 6.Troubleshooting

### 2.4GHz Wireless Connection / Bluetooth Connection - Common Issues

**Q. After not using the mouse for a while, it takes some time to use it again, and the mouse (pointer) won't move.**

A. This product has a power-saving feature, so it will enter sleep mode after being idle for some time. Moving the mouse will wake it up, but it may take a few seconds to respond.

**Q. The mouse (cursor) won't move.**

A. ● Please check if the power switch is turned on.
   ● The battery might be low. Please recharge and try again.
   ● Press the device switch button to confirm the mode LED.

**Q. The mouse cursor movement is not smooth.**

A. ● The tracking performance may decrease when used on reflective surfaces, glass, or materials with regular patterns.
   ● On metal surfaces, wireless signals may scatter, leading to less smooth operation. Try using the mouse on a thick magazine or mouse pad.

### For 2.4GHz Wireless Connection

**Q. The mouse (cursor) won't move.**

A. Please check if the receiver is properly connected to the USB port.

**Q. The mouse cursor movement is not smooth.**

A. If the receiver is connected in a location that is difficult to see, such as the back of the computer, use an extension cable (sold separately) to bring the receiver into a visible position.

### For Bluetooth Connection

**Q. The mouse (cursor) won't move.**

A. Please check if the pairing (connection) has been disconnected.

**Q. It's asking for a password.**

A. No password is required, or try entering "0000" or "1234."

**Q. The Bluetooth mouse suddenly stopped working.**

A. If the Bluetooth mouse suddenly stops working, the Bluetooth power-saving mode might have been activated. You can avoid this by disabling Bluetooth power-saving mode.

(1) In the System Properties, click "Device Manager."

(2) Open the "Bluetooth" properties and double-click on the Bluetooth adapter in your computer.

> ⚠ The Bluetooth adapter may vary depending on your computer. For details, please refer to your computer's user manual.

(3) Click on "Power Management".

(4) Not select "Allow the computer to turn off this device to save power", then click "OK".

## 7.Precautions

●Our company is not responsible for any data loss, device damage, or other losses caused by the use of this product or software.
●This product does not guarantee compatibility with all Bluetooth-enabled devices.
●This product is intended for office work and home use only. Our company is not responsible for any losses incurred from usage beyond these purposes.
●Do not use this product, either directly or indirectly, with medical devices or systems related to personal safety, and avoid using it in environments where high safety and reliability are required.
●Do not use this product, either directly or indirectly, with systems or equipment that require high safety and reliability.
●As this product may interfere with aircraft communication systems, do not use it on airplanes.
●Customers with medical devices such as pacemakers should consult their doctor before using this product.

## 8.Health Notice

Prolonged use of a mouse and keyboard can place strain on your arms, head, shoulders, and neck, leading to pain or numbness. Over time, this may result in serious physical injury. If you experience pain or numbness while using a mouse or keyboard, stop using them immediately and consult a doctor based on your condition. Additionally, be mindful to take frequent breaks and stay active while using a computer to avoid putting excessive strain on your body.

## 9.Compatible Devices

**<2.4GHz Wireless Connection / Bluetooth Connection>**
●Computers equipped with Windows (DOS/V)
**<Bluetooth Connection Only>**
●Tablets equipped with Windows (DOS/V)
※The side button function on the mouse is not available for Apple Mac devices.
<2.4GHz Wireless>
※For models with a standard USB A port.
※If using a conversion adapter to connect to a model with a Type-C port, the device may not function properly.
<Bluetooth>
※Compatible with devices that have a built-in Bluetooth module and support Bluetooth mice.
※Compatible with devices that support Bluetooth 5.0 HID.

## 10.Compatible OS

**<2.4GHz Wireless Connection / Bluetooth Connection>**
●Windows 11・10、macOS 10.15～、Chrome OS、Linux
※Compatibility may vary depending on the device.
※All other product names mentioned in this document are registered trademarks or trademarks of their respective manufacturers.

## 11.Specifications

### <2.4GHz Wireless Specifications>

| Applicable Specifications | USB 3.1/3.0/2.0/1.1 |
|---|---|
| Wireless Mode | 2.4GHz RF wireless signal<br>※The ID recognition code between the mouse and the receiver is fixed. |
| Interface Type | USB-A |

### <Bluetooth>

| Bluetooth Version | Bluetooth Ver.5.0 (BLE) Class2 |
|---|---|
| Frequency Range | 2.402～2.480GHz |

### <General>

| Resolution | 800・1200・1600・2400 DPI |
|---|---|
| Tracking Method | Optical sensor (Blue LED) |
| Transmission Range | Wooden surfaces (non-magnetic): approx.10m radius<br>Steel surfaces (magnetic): approx. 2m radius<br>※Transmission range may vary depending on the environment. |
| Dimensions・Weight | Mouse:Approx. W115.37×D81.58×H66.28mm・67.9g<br>Receiver:Approx. W14.15×D18.5×H6mm・1.7g |
| Battery Performance | Continuous usage time/Approx. 84 hours,<br>Continuous standby time/Approx. 26,000 hours,<br>Working days: Approx. 200 days<br>※Calculated based on 8 hours of computer use per day, with mouse operation accounting for 5% of the time.<br>※Data is based on internal company testing; actual usage time may vary depending on the product received.<br>※Battery performance may gradually decline over time. |
| Battery Capacity | 500mAh |

## 12.Warranty

1 Year

## 13.Customer Service

support@sanwa.com

## FCC 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 equipmentand 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.

"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."

## Correct Disposal of This Product

(Waste Electrical& Electronic Equipment)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

$=$ SANWA ®

CE/BB/RlDaCh

## RF warning statement:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.