



Gaming Mouse User Manual

M-VM510, EG01A

Thank you very much for purchasing this product.

* "VM510" is referred to as "this product" in many parts of this manual.

Precautions



This manual describes the important precautions you should take for safe operation of this product.
Observe these precautions carefully to avoid personal injury, damage, fire, and other problems.

■ Meaning of symbols

DANGER

Failure to adhere to the precautions listed here carries the high risk of severe injury or death due to fire, electric shock, or other causes.

WARNING

Failure to observe precautions carries the possibility of serious personal injury or death due to fire, electric shock, or other causes.

CAUTION

Failure to observe precautions may result in personal injury due to electric shock or other causes, and may damage other equipment.



Prohibited action



Mandatory action



Situation that needs attention



Notes and reference information

DANGER



Please use the charging cable included with this product and observe our specified charging conditions.

Usage of other charging cables or failure to observe our charging conditions may cause the battery to overheat, leak, or rupture.



Do not attempt to disassemble, modify or repair this product.

Doing so may cause a fire, electric shock, or product damage.

Malfunctioning is not covered under warranty.



Do not use if there is any leaking.

If the built-in rechargeable battery leaks, do not use it. It may heat up or rupture.



If you notice any abnormalities with this product, stop usage immediately.

If you notice any leaking, discoloration, deformation, or any other abnormalities from past usage, stop usage immediately. Continued use may lead to overheating and rupturing.



If you or your clothes come into contact with any liquid from this product, wash with clean water.

If liquid from the built-in rechargeable battery comes into contact with the skin, it can lead to skin damage.



Liquid from the built-in rechargeable battery can cause blindness if it enters the eye. If the liquid enters the eye, do not rub it. Wash thoroughly with clean water and seek immediate medical attention.



Please use at the set voltage.

Usage outside the set voltage range can cause overheating, ignition, electric shock, or personal injury.

WARNING



If a foreign object (water, metal chips) enters this product, stop using immediately and remove the battery.

Continuing to use the product as it is may cause a fire or electric shock.



If this product is behaving abnormally, such as generating heat or smoke or strange smells, stop usage immediately. Shut off any connected device(s), and confirm that the product is safe to touch before removing the receiver unit or the USB cable from your PC. Afterwards, please contact your dealer.

Continuing to use the product as it is may cause a fire or electric shock.



Please do not drop or hit this product.

If the product is damaged, stop usage immediately, shut off power to this product and remove the receiver unit or USB cable

from your PC. Afterwards, please contact your dealer.

Fires or electric shocks may occur if this product is used when damaged.



Do not put this product in fire.

Ruptures may cause fire or injury.



Please do not remove or connect the USB connector with wet hands. In addition, do not modify or forcibly bend the product.

It can cause a fire or electric shock.



CAUTION



Do not place this product in any of the following environments:

- In a car exposed to sunlight or a place exposed to direct sunlight.
- In a place that becomes hot, such as around a heater.
- In a moist place or a place where condensation may occur.
- In an uneven place or a place exposed to vibration.
- In a place where a magnetic field is generated (such as near a magnet.)
- In a dusty place.



This product does not have a waterproof structure. Use or store in a place not exposed to liquids such as water.

Any liquid such as rain, water spray, juice, coffee, steam, and sweat, may cause this product to breakdown.



- Please do not use this product for anything other than as a mouse for PCs.
- Do not use this product with any device that may significantly be affected in the case of this product malfunctioning.
- If this product is used on a transparent surface such as glass or a highly reflective surface such as a mirror, the optical sensor will not function correctly and the mouse cursor movement will become unstable.
- Although the sensor light is not visible, please note that looking directly into the sensor may hurt your eyes.
- When you wish to dispose of this product, be sure do so in accordance with the local ordinances and laws of your area.

■ Cleaning this product

If the body of this product becomes dirty, wipe with a soft, dry cloth.



Using a volatile liquid such as paint thinner, benzene or alcohol may affect the material quality and/or discolor this product.

Please note the following for disinfection.



Gently soak a cleaning cloth, such as a microfiber cloth, in the disinfectant solution. Make sure there are no loose droplets and gently wipe the product using the cloth.

After wiping, dry thoroughly and wipe off any residual liquid.

* Do not spray any liquid onto the product directly. Doing so can cause electric malfunctions.



IMPORTANT



Do not spray any liquid onto the product directly.

Doing so can cause electric malfunctions.



Do not use organic solvents or ultraviolet lights.

Usage can result in deterioration of the housing components or paints, which can cause damage to the exterior.



We recommend the usage of disposable gloves.



Please unplug the USB connector from this product and the PC.



When using any alcohol-based products, please check that it is appropriate for the specific purpose and that it is used properly.



Please note that in the event that damage or abnormal operation to the product is caused by the cleaning process, the customer will be fully responsible for the cost of repair.



We recommend that you disinfect your hands before and after using PCs and peripheral devices that are used by multiple people in order to prevent the spread of infection through the equipment.



Please turn off any connected devices.

* When in sleep or hibernation mode, turn off connected devices.

* Please unplug the AC adapter and power cable from the outlet.

Cautions for Wireless Equipment

This product is a wireless device that can use the entire 2.4 GHz band, and is able to avoid the mobile entity identification device range. The GFSK method is adopted as the radio wave method, and the interference distance is 10 m. The 2.4 GHz band is also used in medical devices, Bluetooth, and wireless LAN devices of the IEEE 802.11b/11g/11n standards.

· Before using this product, check that there are no other "radio stations"* operating nearby.

· If electromagnetic interference occurs between this product and other "radio stations"*, move this product to another location or stop using this product.

* Other "radio stations" refer to industrial, scientific and medical devices using the 2.4 GHz band, the same as this product, other radio stations of this type, licensed radio station premises for a mobile object identification system that is used in factory production lines, certain non-licensed low power radio stations, and amateur radio stations.



WARNING



· Do not use in equipment which may cause serious effects due to it malfunctioning. There are rare cases in which an external radio wave at the same frequency, or the radio wave emitted from a mobile phone, causes this product to malfunction, slow down, or fail to operate.

· Do not use this product in places where radio wave usage is prohibited, such as hospitals. Radio waves of this product may affect electronic devices and medical devices (for example pacemakers).

· Due to the possibility of hindering safe navigation of aircraft, use of wireless mouse in aircraft is prohibited by the Civil Aeronautics Act. Turn off the power of the wireless mouse before boarding and do not use after boarding.

* ELECOM is not liable for any accidents or any indirect or consequential damage incurred due to the failure of this product.

How to use



Items included in this package



The following are included in this package. Verify the package to ensure all items are accounted for prior to using this product. While every effort has been made to ensure proper packaging, in the event that any shortage or damage is discovered, please contact the retailer where the product was purchased.

•VM510 Main unit x 1

•Receiver unit x 1



At the time of shipment, it is stored in the receiver unit storage part of the mouse body.
Please remove before use.

•USB Type-C® to USB-A paracord charging cable (approx. 1.5 m / 5 ft) x1

•Receiver extension adapter x 1

•Additional mouse feet for 2-Mode system x 1

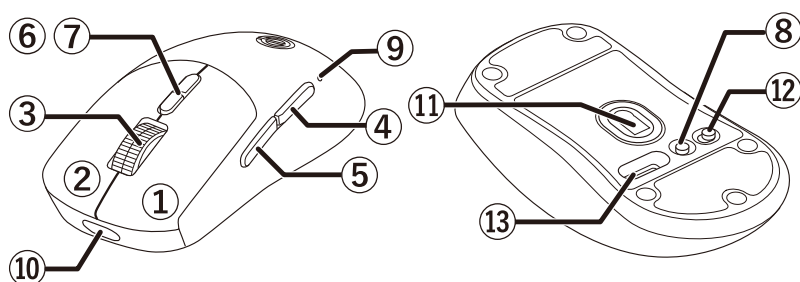
•Cleaning cloth x 1

•V custom logo sticker x 1

Name and function of each part



■ Mouse



① Left button

To left click on your PC.

② Right button

To right click on your PC.

③ Wheel

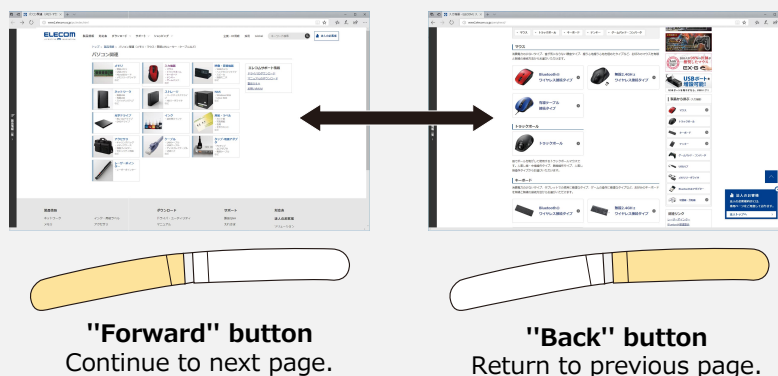
Rotate forward and backward or click like a button to operate your PC.

④ "Back" button

Performs the "Back" function on the Web browser.

⑤ "Forward" button

Performs the "Forward" function on the Web browser.



⑥ and ⑦ Additional buttons

Any function can be assigned to these buttons.

* At the time of purchase, nothing is set.

⑧ DPI stage switch button

Count number (pointer movement speed) can be changed between 5 levels.

- DPI1: 400 dpi
- DPI2: 800 dpi (default)
- DPI3: 1600 dpi
- DPI4: 2400 dpi
- DPI5: 3200 dpi

The count number for each stage can be adjusted. To adjust it, please install the EG Tool from our website.

For more information, see "Setting up the ELECOM GAMING Tool (EG Tool)" - "[Setting the DPI Stage](#)".



You can assign the function for all the buttons from ① to ⑧. To configure the button assignment, please install the EG Tool from our website.

For more information, see "Setting up the ELECOM GAMING Tool (EG Tool)" - "[Setting the function of the buttons](#)".

⑨ Notification LED

- When the power is turned ON, the LED will light up for 3 seconds in the color corresponding to the current DPI stage. (The default is ● DPI2: purple.)
- When the remaining charge is low, the LED will blink quickly in the color corresponding to the current DPI stage. (The default is ● DPI2: purple.)
- During charging, the LED will blink continuously in the color corresponding to the current DPI stage. (The default is ● DPI2: purple.)
- When the device is fully charged, the LED will light up in the color corresponding to the current DPI stage. (The default is ● DPI2: purple.)
- When the DPI stage switching button is pressed, the LED will light up for 3 seconds in the color corresponding to the current DPI stage.

- DPI1: Red
- DPI2: Purple
- DPI3: Indigo
- DPI4: Green
- DPI5: Yellow



To adjust the DPI stage, please install the EG Tool from our website.

For more information, see "Setting up the ELECOM GAMING Tool (EG Tool)" - "[Setting the DPI Stage](#)".

⑩ USB Type-C port

Port to connect the supplied charging cable.

⑪ Optical sensor

This sensor will detect mouse movements when you move the mouse.

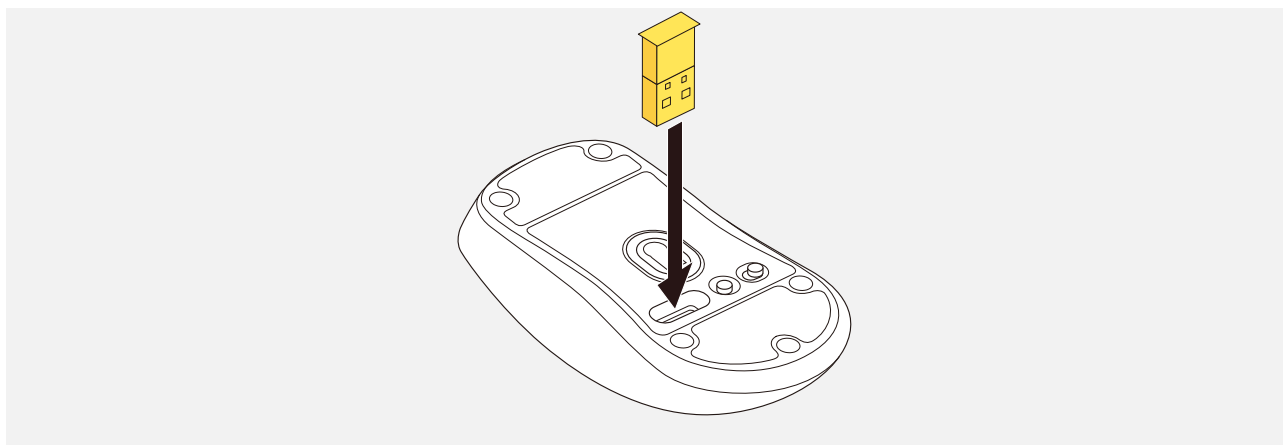
* The sensor uses invisible (transparent) light. Please note that direct viewing of the light source may hurt the eyes.

⑫ Power switch

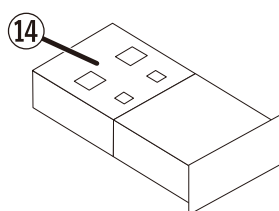
When using it with wireless connection, turn the power on / off on the mouse body.

⑬ Receiver unit storage part

The receiver unit can be stowed here when it is not being used with the mouse or it is being wirelessly connected.



■ Receiver unit



⑭ USB connector (male)

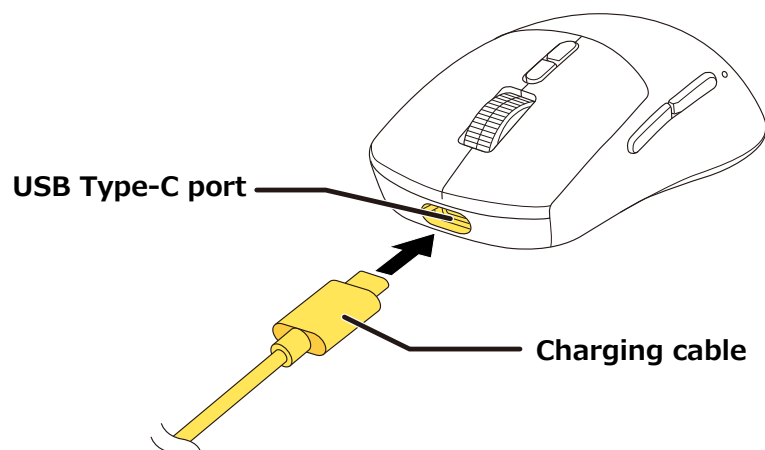
Connects to the PC USB-A port

Connecting and setting up the mouse

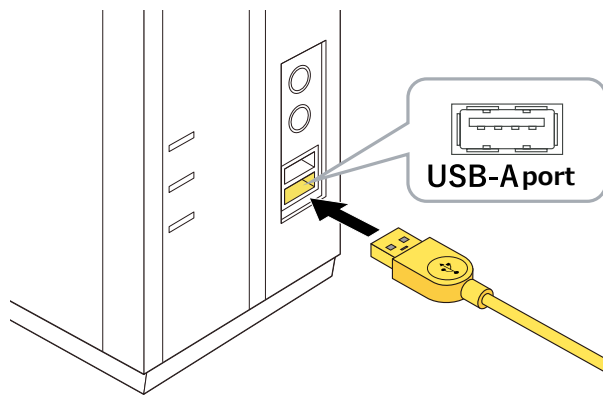
Using in wireless mode

1. Charging the battery

1) Connect the USB Type-C connector of the charging cable supplied to the USB Type-C port of this product.



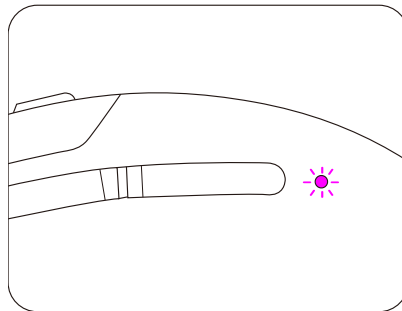
2) Connect the USB-A connector on the included charging cable to the USB-A port on your PC.



- Ensure that the connector is correctly oriented to the port.
- If there is strong resistance when inserting, check the shape and orientation of the connector. Forcibly inserting the connector may damage the connector, and there is a risk of injury.
- Do not touch the terminal portion of the USB connector.

3) Turn on the PC, if it has not been already switched on.

The RGB LED light flashes in the color corresponding to the DPI stage currently set (the default is DPI2: purple) and starts charging. When the device is fully charged, the LED will light up in the color corresponding to the current DPI stage (the default is DPI2: purple).

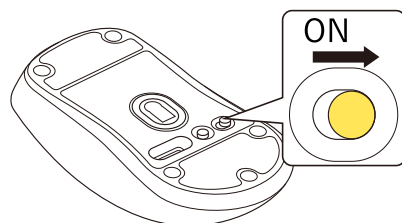


It takes about 5 hours to fully charge this product.

If the RGB LED light continues to be lit up in the color corresponding to the current DPI stage (the default is ● DPI2: purple) even after the stipulated charging time, remove the charging cable and stop charging for a moment. Otherwise, this can cause overheating, rupturing or fires.

2. Turn the power ON

1) Slide the power switch on the underside of this product to the ON position.



The RGB LED light will light up for 3 seconds in the color corresponding to the current DPI stage (the default is ● DPI2: purple).

* When the battery level is low, the LED light will blink quickly in the color corresponding to the current DPI stage (the default is ● DPI2: purple). (The default is ● DPI2: purple)



Power-saving mode

When the mouse is left untouched for a fixed period of time while the power is ON, it automatically shifts to power-saving mode.

The mouse returns from power-saving mode when it is moved.

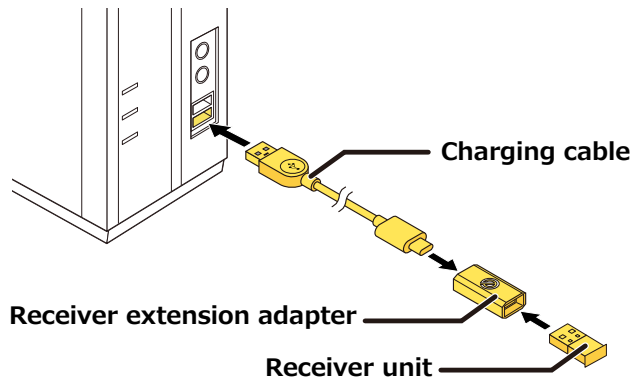
* Mouse operation may be unstable for 2-3 seconds after returning from the power-saving mode.

3. Connect to a PC

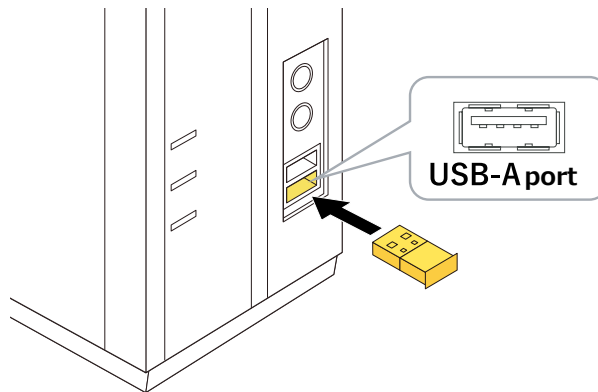
1) Start up your PC.

Please wait until your PC has started up and can be operated.

2) Connect the receiver unit and charging cable to the receiver extension adapter and insert them into the USB-A port of your PC.



- You may use any USB-A port.
- You can also connect the receiver unit directly to your PC.



- Ensure that the connector is correctly oriented to the port.
- If there is strong resistance when inserting, check the shape and orientation of the connector. Forcibly inserting the connector may damage the connector, and there is a risk of injury.
- Do not touch the terminal portion of the USB connector.



When removing the receiver unit

This product supports hot plugging. You can remove the receiver unit even when the PC is running.

3) The driver will be automatically installed, and you will then be able to use the mouse.

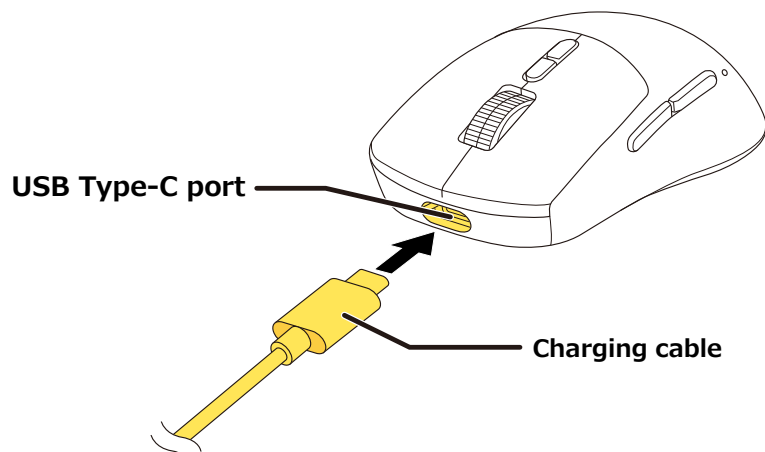
You can now use the mouse.

Using in wired mode



1. Connect to a PC

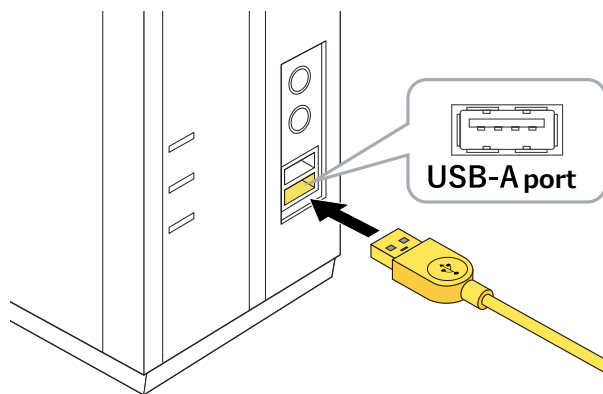
1) Connect the USB Type-C connector of the charging cable supplied to the USB Type-C port of this product.



2) Start up your PC.

Please wait until your PC has started up and can be operated.

3) Connect the USB-A connector on the included charging cable to the USB-A port on your PC.



- Ensure that the connector is correctly oriented to the port.
- If there is strong resistance when inserting, check the shape and orientation of the connector. Forcibly inserting the connector may damage the connector, and there is a risk of injury.
- Do not touch the terminal portion of the USB connector.

4) The driver will be automatically installed, and you will then be able to use the mouse.

You can now use the mouse.

You will be able to assign functions to all the buttons and setup the DPI count by installing the settings software "EG Tool". Please continue to "[Setting up the ELECOM GAMING Tool \(EG Tool\)](#)".

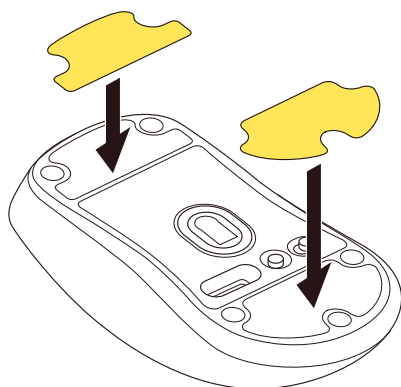
Installing the mouse feet



This product comes with a mouse feet that attaches to the bottom of the mouse.

By changing the surface area of the mouse feet, it can be adjusted to your preferred comfort.

* Please peel off the blue protective film before attaching the mouse feet.



ELECOM also has a lineup of replacement mouse feet that are sold separately.

Click [here](#) for the product page

Specifications



Connector type	USB Type-A plug
Connection method	Supports USB 2.4 GHz wireless or wired
Compatible models	USB port-equipped Windows PC
Radio frequency	2.4 GHz
Supported OS	Windows 10/11 * Update for each new version of the OS or the installation of a service pack might be required. * Compatibility information was retrieved during operation confirmation in our verification environment. There is no guarantee of full compatibility with all devices, OS versions and applications.
Communication method	GFSK
Radio frequency	2.4 GHz
Radio wave range	Maximum distance approximately 10 m *May vary depending on the environment.
Sensor	PAW3311DB-T2MU
Sensor Resolution	100 to 12,000 DPI (can be set in 100 DPI increments)
Maximum tracking speed	300 IPS
Maximum detected acceleration	35 G
Polling rate	Maximum 1,000 Hz
Main switch (left and right click)	OMRON (endurance of 50 million or 20 million)
Buttons	8

	* including wheel button
Number of wheels	1
Receiver unit storage compartment	Supported
Power Supply (Mouse)	Built-in lithium-ion battery (rechargeable)
Battery life	Maximum duration approximately XX months (estimated operating time when using alkaline batteries) * May vary depending on the usage conditions.
Cable length	Approximately 1.5 m / 5 ft
Size category	L size
External dimensions (main unit)	Width approx. 61.2 mm × Depth approx. 121.3 mm × Height approx. 37.2 mm / W 2.4 × D 4.8 × H 1.5 in.
External dimensions (receiver)	Width approx. 13.3 mm × Depth approx. 24.0 mm × Height approx. 5.7 mm / W 0.5 × D 0.9 × H 0.2 in.
Weight (main unit)	Approximately 54 g / 1.9 oz * excluding batteries
Mass (receiver unit)	Approximately 2 g / 0.07 oz
Mass (receiver unit)	Approximately 2 g / 0.07 oz
Operating environment conditions	Temperature: 5 °C to 40 °C / 41 °F to 104 °F, humidity: 90 % RH (without condensation)
Storage environment conditions	Temperature: -10 °C to 60 °C / 14 °F to 140 °F, humidity: 90 % RH (without condensation)
Accessories	Charging cable (1.5 m), receiver extension adapter, mouse feet, sticker

Model/모델명/设备型号/型號: M-VM510, EG01A

▼ China / 中国

RoHS Compliance (产品中有毒有害物质或元素的名称及含量)

https://www.elecom.co.jp/global/certification/pdf/RoHS_China.pdf

▼ EU



CE Declaration of Conformity

https://www.elecom.co.jp/global/certification/pdf/CE_DoC.pdf

RoHS Compliance

https://www.elecom.co.jp/global/certification/pdf/RoHS_EU_UK_Vietnam.pdf

CE Authorised representative:

Amazon Services Europe S.à r.l

38 avenue John F. Kennedy, L-1855 Luxembourg



WEEE Disposal and Recycling Information

This symbol means that waste of electrical and electronic equipment (WEEE) should not be disposed as general household waste. WEEE should be treated separately to prevent possible harm to the environment or human health. Consult your retailer or local municipal office for collection, return, recycle or reuse of WEEE.

FR: INFORMATION DES CONSOMMATEURS SUR LA RÈGLE DE TRI

<https://www.elecom.co.jp/global/certification/pdf/FR-Info-Tri.pdf>

▼ Singapore

Complies with
IMDA standards
DA106058.

Operating Frequencies: XXXX-XXXX MHz

Maximum field intensity / RF Output power: X.XX dBm / X.XX mW



BSMI RoHS Compliance (限用物質含有情況標示聲明書)

https://www.elecom.co.jp/global/certification/pdf/RoHS_Taiwan.pdf



型號 **M-VM510**: XXXXXXXXXXXXXXX

型號 **E01A**: CCAH23LP5360T8

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。



UK Declaration of Conformity

https://www.elecom.co.jp/global/certification/pdf/UK_DoC.pdf

RoHS Compliance

https://www.elecom.co.jp/global/certification/pdf/RoHS_EU_UK_Vietnam.pdf



WEEE Disposal and Recycling Information

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FCC ID: YWO-M-VM510

FCC ID: YWO-E01A

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.

NOTE; 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 instruction, may cause harmful interference to radio communication. 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 tuning 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

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

In order to make improvements to this product, the design and specifications are subject to change without prior notice.

FCC Caution: To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 0.5 cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The antennas used for this transmitter must be installed to provide a separation distance of at least 0.5 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

Responsible party

ELECOM USA, Inc.

4041 MacArthur Blvd Suite 400, Newport Beach, CA 92660 USA

elecomusa.com

▼ Vietnam / Việt Nam

RoHS compliance (Chứng Nhận Đạt Tiêu Chuẩn RoHS)

https://www.elecom.co.jp/global/certification/pdf/RoHS_EU_UK_Vietnam.pdf