ELECOM

USB UNIVERSAL SERIAL BUS

Wireless Optical Mouse

M-DY5DR Series

User's Manual

Thank you for purchasing the ELECOM M-DY5DR Series wireless optical mouse.
This manual describes the operating instructions and safety precautions for using the M-DY5DR Series. Ensure that you have read this manual before using the product. After reading this manual, store it somewhere safe for future reference.
* Except in certain cases, the M-DY5DR Series is referred to as "this product" in this manual.

TELEC | This product has been certified by the Telecom Engineering Centre (TELEC) as wireless radio station equipment that emits extremely weak radio waves as stipulated by paragraph 1 of Article 6 of the Ordinance for Enforcement of the Radio Act. http://www.telec.or.jp/

Safety Precautions

■ Meaning of symbols

⚠ WARNING	Failure to observe precautions may result in 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
☞	Information that is handy to know

Observe these precautions carefully to avoid personal injury, damage, fire, and other problems.

⚠ WARNING

❗	If a foreign object (water, metal chip, etc.) enters the product, immediately stop using the product and disconnect the receiver unit from the PC, and remove the battery from the mouse. If you continue to use the product under these conditions, it may cause a fire or electric shock.
❗	If an abnormality is found with this product (emission of heat, smoke or abnormal smell from the product), immediately stop using the product, shutdown the PC, and after thoroughly checking that heat from the product will not cause burns, disconnect the receiver unit from the PC, and remove the battery from the mouse. After doing this, contact the retailer from whom you purchased the product.
🚫	Do not drop or hit this product. If this product is damaged, immediately stop using the product and disconnect the receiver unit from the PC, and remove the battery from the mouse. If you continue to use the product under these conditions, it may cause a fire or electric shock.
🚫	Do not attempt to disassemble, modify or repair this product by yourself, as this may cause a fire, electric shock or product damage.
🚫	Do not put this product in fire, as the product may burst, resulting in a fire or injury.
🚫	Do not connect or disconnect the receiver unit with a wet hand, modify the receiver unit or bend it forcibly, as this may cause a fire or electric shock.

⚠ CAUTION

🚫	Do not place this product in any of the following environments: • In a car exposed to sunlight, a place exposed to direct sunlight, or a place that becomes hot (around a heater, etc.) • 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 (near a magnet, etc.) • In a dusty place
❗	This product does not have a waterproof structure. Use and store this product in a place where the product body will not be splashed with water or other liquid. Rain, water mist, juice, coffee, steam or sweat may also cause product damage.

⚠	• When you no longer need to use this product and the battery, be sure to dispose of it in accordance with the local ordinances and laws of your area. • Do not use this product with any device that may significantly affect other equipment in the event that it malfunctions. • 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 mouse cursor movement will become unstable.

■ Batteries

⚠ CAUTION

❗	Use AAA alkaline batteries, AAA manganese batteries, or AAA nickel hydride storage batteries with this product.
🚫	If this product will be unused for a long period of time, remove the battery to avoid battery leakage and failure.

■ Cleaning the Mouse

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

⚠	Use of a volatile liquid (paint thinner, benzene, alcohol, etc.) may affect the material quality and colour of the product.

Cautions for Wireless Equipment

⚠ WARNING

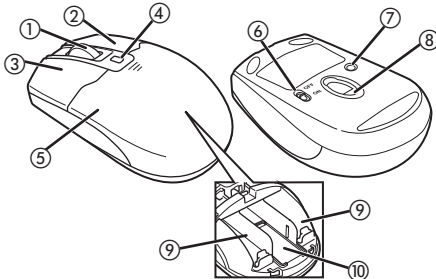| 🚫	• Do not use this product with any device that may significantly affect people or property in the event that it malfunctions. There are rare cases where an external radio wave at the same frequency or the radio wave emitted from a mobile phone causes this product to malfunction, slow down, or fail to operate. • Do not use this product in a hospital or other locations where the use of radio waves is prohibited. The radio waves of this product may affect electronic and medical devices (e.g. pacemaker). • The use of a wireless mouse in an aircraft is prohibited by aviation law because doing so may interfere with flight safety. Turn off the power of the mouse body before boarding an aircraft and do not use it in the aircraft. * ELECOM is not liable for any accident or social damages incurred by the failure of this product.

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Package Contents

This product's packaging contains the items listed below. Before using the product, check that all items are present. We make every effort to ensure that all products are packaged correctly. However, in the event that an item is missing or damaged, contact the retailer from whom you purchased the product.
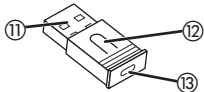• Mouse x1
• Receiver unit x1
• AAA alkaline battery x2
• User's Manual x1

Part Names

■ Mouse

■ Reciever unit

①Wheel
The wheel can be turned back and forward with your finger or pressed like a button to operate the PC.

②Right button
Used for right-click operation.

③Left button
Used for left-click operation.

④Remaining battery level indicator lamp
Indicates when to replace the batteries. If the remaining battery level becomes low during use, it will flash continuously in red for a certain period of time.

⑤Battery cover
This cover is opened to install batteries.

⑥Power switch
Used to turn the mouse body on and off.

⑦ID setting button
Used to set the product's ID.

⑧Optical sensor
Illuminates red when the mouse body is turned on. When the mouse body is moved, this sensor detects mouse movement.
* Avoid looking directly at the light of the sensor as doing so may cause eye damage.

⑨Battery housing
Batteries are inserted here.

⑩Receiver unit housing
Used to store the receiver unit.

⑪USB connector (Male)
Connected to a PC USB port.

⑫ID setting button
Used to set the ID of this product.

⑬ID Setting Indicator
Illuminates while setting the ID of this product.
(Turns on when there is input from the mouse.)

Preparation before Use

Installing·Replacing the Battery

Before using this product, install two AAA battery in the mouse body.

1 Press the top of the battery cover and open it.
Press top of battery cover to open

2 Insert the battery.

⚠	• Make sure that the polarity is correct. • Do not mix different types of batteries or use old batteries with new batteries to avoid battery leakage and failure.

3 Close battery cover.
Click cover into place

Turning On and Off the Mouse

■ Turning on the mouse
When using this product, turn the mouse body power on.
Slide the power switch to the ON position.
* When the remaining battery level is low, the remaining battery level indicator lamp is illuminated in red for a certain period.

OFF / ON

■ Turning off the mouse
When not using this product, turn the mouse body off to save battery power.
Slide the power switch to the OFF position.

OFF / ON

■ Restoring from sleep state
Click the right mouse button.

| ✎	To reduce battery drain, the mouse enters sleep mode automatically if it is left without being operated for a certain period of time with the power or switch turned on.

Inserting and Taking Out the Receiver Unit

■ Inserting the receiver unit

1 Press the top of the battery cover and open it.
Press top of battery cover to open

2 Place the receiver unit into the receiver unit housing.

3 Install the battery cover.
Click cover into place

■ Taking out the receiver unit

1 Press the top of the battery cover and open it.
Press top of battery cover to open

2 Take the receiver unit out of the receiver unit housing.

3 Close battery cover.
Click cover into place

When using Windows®

Step1 Check USB ports
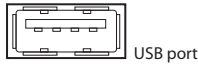
Check the USB port on your computer.

USB port

⚠	• Any USB port may be used. • This product can be connected to a USB hub. However, it may not work depending on the power supply capability of the USB hub.

Step2 Installing the Receiver Unit

1 Activate the PC
• If Windows® prompts you to choose an account (a user name) when it starts up, be sure to log on using an administrator account.
• Wait until Windows® has started up completely.

2 Insert the receiver unit into the USB port of the PC.
Insert here.
USB port
Receiver unit
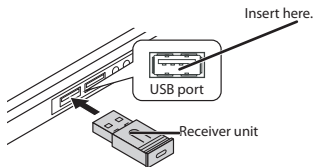
⚠	• Carefully check the orientation of the connector and the place where you will connect the receiver unit. • If you feel strong resistance when inserting the receiver unit, check that the shape and orientation of the connector is correct. Using excessive force may damage the connector and cause injury.

3 The mouse driver is installed automatically.

Step3 Checking wheel operation

Check that the mouse scrolls up and down correctly in Windows® Internet Explorer.

1 From the [Start] menu, select [All Programs], and then [Internet Explorer].
Internet Explorer will launch.

2 Display your favourite web site in Internet Explorer and change the size of the window so that the vertical scrollbar appears.
* The sample website used here is the ELECOM homepage.

Scrollbar

3 Scroll the wheel back and forth.

The mouse is operating normally if the screen moves up and down as you scroll the wheel.

⚠	In applications that do not support scrolling, the screen will not move when you scroll the wheel.

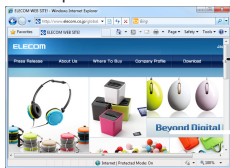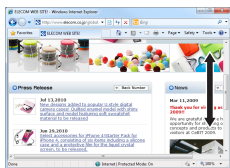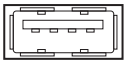## When using Mac OS X®

Step1 Check USB ports

Check the USB port on your computer.

USB port

- Any USB port may be used.
- This product can be connected to a USB hub. However, it may not work depending on the power supply capability of the USB hub.

Step2 Installing the Receiver Unit

1 Activate the Macintosh.
- Wait until Mac OS X has started up completely.

2 Insert the receiver unit into a USB port on your Macintosh.
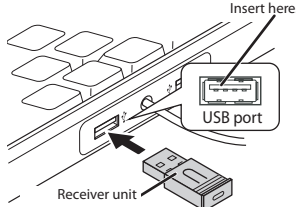
Insert here.

USB port

Receiver unit

- Carefully check the orientation of the connector and the place where you will connect the receiver unit.
- If you feel strong resistance when inserting the receiver unit, check that the shape and orientation of the connector is correct. Using excessive force may damage the connector and cause injury.

3 The mouse driver is installed automatically.

Step3 Checking wheel operation

Check that the vertical scrolling functions are working correctly in Safari.

1 Click the Safari icon in the Dock.
Safari will launch.

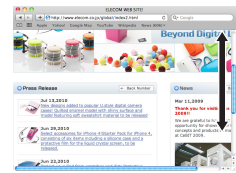✐ If Safari is not in the Dock, double-click the Safari icon in the Applications folder.

2 Display your favourite web site in Safari and change the size of the window so that the vertical scrollbars appear.
* The sample website used here is the ELECOM homepage.
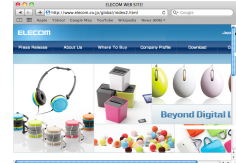
Scrollbar

3 Scroll the wheel back and forth.

The mouse is operating normally if the screen moves up and down as you scroll the wheel.

⚠ In applications that do not support scrolling, the screen will not move when you scroll the wheel.

Troubleshooting

When the product appears to be malfunctioning

■ **When the mouse pointer on the screen does not move, or moves unstably, when the mouse is moved**

➔ It is possible that the reflectivity of the surface on which this product is being used is not suitable for an optical mouse. Use this product on a mouse pad that is designed for use with optical mice.

➔ When using this product on a metallic surface such as a steel desk, radio wave outreach may be shortened. In such cases, move the receiver unit closer to the mouse until mouse operation stabilises.

➔ It is possible that the receiver unit is not connected correctly to the USB port. Disconnect the receiver unit from the USB port and reconnect it.

➔ The receiver unit and the mouse body are too far apart or there is a possibility that the receiver unit is facing in a direction from which it cannot receive radio signals.

The operable range of this product is 1 m when the receiver unit and the mouse are used on a non-magnetic surface (such as a wooden desk,) and approximately 0.2 m when used on a magnetic surface (such as a metal desk.) Depending on the usage environment, the mouse may not operate correctly even when it is within the operable range. In such cases, move the mouse closer to the receiver unit until operation stabilises.

Approximately 0.2 m to 1.0

Receiver unit

➔ Interference may occur if multiple units of this product are used together or if this product is used with other wireless devices. In this case, see "Changing the ID" and change the ID of this product or change the channel of other wireless devices.

➔ Operation becomes unstable when battery power is low. See "Installing-Replacing the Battery" on the reverse of this sheet, and replace the batteries as soon as possible.
- The alkaline batteries supplied with this product are for checking product operation. These batteries may discharge and drain during storing and shipping.
- When the mouse's remaining battery level is low, the remaining battery level indicator lamp on the top of the mouse is illuminated in red for a certain period.
* When not using the mouse, turn it off to save battery power.

➔ It is possible that the standard Windows mouse driver did not install correctly and that this product is detected as an unknown device by Windows®. This product is usually detected as a USB human interface device. If it is detected as an unknown device, see "Removing an unknown device," and after removing the device from Device Manager, repeat "Step 2 - Installing the Receiver Unit" on the front of this sheet.

➔ If you have installed drivers and settings utilities produced by the original manufacturer for a previous mouse, uninstall them first. This product may not operate correctly if a driver made by another company is installed. See the instruction manual that was supplied with your previous mouse for uninstall instructions.

➔ It is possible that the driver is conflicting with another driver such as that for a laptop touch pad. To use this product correctly, you must delete the touch pad driver. However, if you delete this driver, you may not be able to use the touch pad or touch pad functions. Contact the PC manufacturer for more details.

■ **The wheel moves, but the mouse cursor does not**

➔ In certain applications that do not support the scrolling function, the mouse cursor will not move when you move the wheel.

Changing the ID

Match the ID of the receiver unit and the mouse.
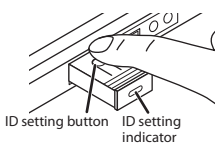
1 Connect the receiver unit to the PC, and turn the PC on.

2 Move the mouse close to the receiver unit so that the unit will receive a reliable signal.
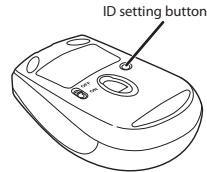
Move close
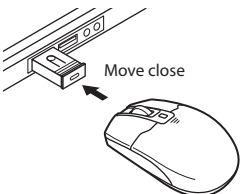
3 Press the ID setting button on the receiver unit.
The ID setting indicator on the receiver unit flashes.

ID setting button   ID setting indicator

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4 Press the ID setting button on the bottom of the mouse.
The mouse ID is set and the ID setting indicator on the receiver unit turns off.

ID setting button

5 Operate the mouse to check that it is working correctly.
If the mouse is not working correctly, reset the ID by repeating steps **3** to **4**.

⚠ Performance may be reduced even if the channel is changed to avoid interference, as the channel is changed to a nearby frequency.

Removing an unknown device

If the standard Windows mouse driver did not install correctly and this product is detected as an unknown device, remove the unknown device from Device Manager, and then repeat "Step 2 - Installing the Receiver Unit" on the front of this sheet.

⚠
- If there are multiple unknown devices, before removing a device, check that it is actually this product. Disconnect the receiver unit and check which unknown device disappears. The device that disappears is this product.
- If the unknown device does not disappear even after you have deleted the driver following the instructions below, it is possible that there is something wrong with the PC. Contact the PC manufacturer.

With the receiver unit connected to the PC, follow the procedure below to remove the unknown device.
* Be sure to log on using an administrator account when Windows starts up.
* Screen display may differ depending on operating system, but the procedure remains the same.
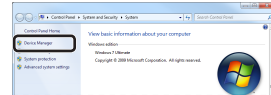
1 Display Device Manager.

• **Windows® 7 and Windows Vista®**
1. From the [Start] menu, right-click [Computer].
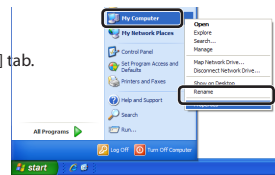*2.* Click [Properties].
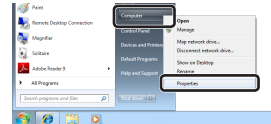
3. Click [Device Manager].
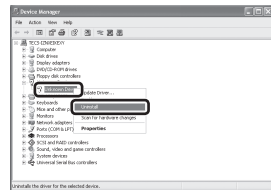
• **Windows® XP**
1. From the [Start] menu, right-click [My Computer].
2. Click [Properties].
3. Click the [Hardware] tab.

4. Click [Device Manager]

2 The Device Manager window appears. Right-click the unknown device, and click [Uninstall].

3 Click [OK].

4 Disconnect the receiver unit and restart the PC.

5 Repeat the procedure from "Step 2 - Installing the Receiver Unit" on the front of this sheet.

Basic specifications

Product name	Wireless Optical Mouse
Article No.	M-DY5DR Series
OS	Windows 7, Windows Vista (up to SP2), Windows XP (SP2 to SP3) Mac OS X (10.5 to 10.5.8, 10.6 to 10.6.4)
Resolution (dpi)	1000
Interface	USB
Radio frequency	27 MHz bandwidth
Radio wave outreach	Non-magnetic substance (e.g. wooden desk): Approx. 1 m Magnetic substance (e.g. metal desk): Approx. 0.2 m * Values indicated are those obtained by ELECOM and are not guaranteed.
Dimensions	Mouse : 58.2 (W) x 98.5 (D) x 35.4 (H) mm Receiver : 14.5 (W) x 32.5 (D) x 5.5 (H) mm
Operating temperature/ humidity	5 to 40°C, 90% RH max. (no condensation)
Storing temperature/ humidity	-10 to 60°C, 90% RH max. (no condensation)
Batteries	AAA alkaline battery, AAA manganese battery, AAA nickel hydride storage battery
Operating time	Measure of the operating time when an AAA alkaline battery is used Continuous operating time: Approx. 66 hours Continuous standby time: Approx. 312 days Estimated serviceable time: Approx. 32 days (when the PC is operated for eight hours a day and 25% of the PC operation is assigned to mouse operation)

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