SCOPE NODE

M-SN2DL Series **User's Manual**

Thank you for purchasing the ELECOM M-SN2DL Series wireless laser mouse.

This manual describes the operating instructions and safety precautions for using the M-SN2DL 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-SN2DL Series is referred to as "this product" in this manual

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

If you continue to use the product under these conditions, it may cause a fire or electric

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 in a damaged condition, it may cause a fire or electric

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.

■ Batteries

CAUTION



Use AAA alkaline batteries, AAA manganese batteries, or AAA nickel hydride 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

This product is wireless equipment using the entire range of the 2.4 GHz band and it is possible to avoid the band of mobile object identification systems. DS-SS is used for the radio wave method. The interference distance is 10 m.



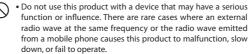
The 2.4 GHz band is also used by medical equipment, Bluetooth, and wireless LAN equipment conforming to the IEEE802.11b/11g standard.

• 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 like this product, other radio stations of this type, licensed radio station premises for 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 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.
- 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.

Cautions for Laser Mouse

Though this product complies with the IEC60825-1 Class 1 laser safety standard to ensure safety, pay special attention to the following before use.

(1) Never observe the laser beam by using an optical measure such as a microscope or magnifier or view the laser with the naked eye for a long period of time. Doing so may have an adverse effect on the eye. (Some laser beams cannot be seen with the naked eye.)

(2) Never aim the rear surface of the mouse at a person's eyes, as this is very dangerous.

(3) The laser sensor may not work on glass or mirrored surfaces.

(4) Do not use this product for any application other than as a PC mouse. (5) If this product is subjected to temperatures beyond its specifications. turn off the PC, and do not use the product until the temperature

returns to the operable range. (6) If this product is not operating normally, turn off the PC.

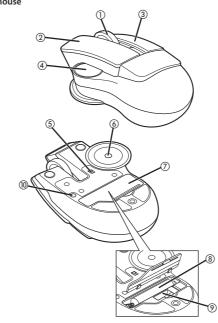
LASER PRODUCT

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 x1
- User's Manual x1 **Part Names**

■ Mouse



■ Receiver unit



1)Wheel

Scrolls back and forth to operate the PC.

②Right button

Used for right-click operation

3Left button

Used for left-click operation

4 Remaining battery level indicator lamp

Indicates when to replace the batteries. *When a battery has been inserted, if there are sufficient remaining battery levels, it will illuminate in red for a certain period of time. Flashes continuously when battery level gets low.

(5)Power switch

Used to turn the mouse body on and of

6)Laser sensor

When the mouse body is moved, this sensor detects mouse

* Avoid looking directly at the light of the sensor as doing so may cause eye damage.

This cover is removed to install batteries

®Battery housing

Batteries are inserted here

Used to store the receiver unit

(10) Maintenance switch For factory use only.

(II)USB connector (Male)

Connected to a PC USB port.

Preparation before Use

Installing-Replacing the Battery

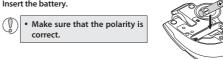
Before using this product, install one AAA battery in the mouse body.

Remove the battery cover. Press part 1) firmly



Insert the battery.

easily.



3 Install the battery cover.



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.

The remaining battery level indicator lamp is illuminated in red for a certain period.

* Flashes continuously when battery level gets low.

■ Turning off the mouse

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

Inserting and Taking Out the Receiver Unit

■ Inserting the receiver unit

Remove the battery cover.



2 Place the receiver unit into the receiver unit housing



3 Install the battery cover.



■ Taking out the receiver unit

Remove the battery cover.

Take the receiver unit out of the receiver unit housing.

Install the battery cover.



When using Windows®

Step 1 Check USB ports



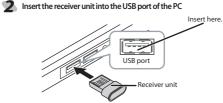
• Any USB port may be used. This product can be connected to a USB hub. However, it may not work depending on the power supply capability of the USB hub.

Step2 Installing the Receiver Unit

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.



· Carefully check the orientation of the connector and the place where you will connect the receiver unit.

Do not touch the USB connector terminals.

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.

The mouse driver is installed automatically

Step 3 Checking wheel operation

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

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

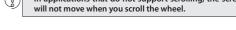
Scroll the wheel back and forth.





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®

Step Check USB ports

Check the USB port on your computer.

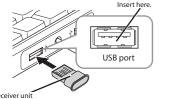


• Any USB port may be used.

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

Step 2 Installing the Receiver Unit

- Activate the Macintosh.
 - Wait until Mac OS X has started up completely.
- Insert the receiver unit into a USB port on your Macin-



- Carefully check the orientation of the connector and the place where you will connect the receiver
 - 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. Do not touch the USB connector terminals
- The mouse driver is installed automatically.

Step 3 Checking wheel operation

Check that the vertical and horizontal scrolling functions are working correctly in Safari

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



If Safari is not in the Dock, double-click If Safari is not in the Pock, do ... 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 and horizontal scrollbars appear.

*The sample website used here is the FLECOM homepage



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 laser mouse.
- →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.

Adjust the position of the receiver unit. The operable range of this product is the area within a circle with a radius of 10 m from the receiver unit. Depending on the usage environment, the mouse may not operate even when it is within approximately 10 m of

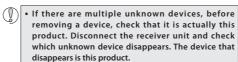


the receiver unit. In such cases, move the mouse closer to the receiver unit until operation stabilises.

- 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, change the channel of other wireless devices. (Multiple units of this product have an automatic channel avoidance function)
- 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 not using the mouse, turn it off to save battery power.
- → Check that the remaining battery level indicator lamp is on. When the mouse is turned on, the remaining battery level indicator lamp is illuminated in red for a certain period. If the lamp does not turn on, it is possible that the battery is flat. When the battery is low, the lamp flashes continuously.
- → Check that the power switch is correctly in the ON position. If the power switch is not slid all the way to the correct ON position, the mouse may not turn on.
- → It is possible that the standard Windows mouse driver did not install correctly and that this product is detected as an unknown $% \left(\mathbf{r}\right) =\mathbf{r}^{\prime }$ 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

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 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.

- 2 -

With the receiver unit connected to the PC, follow the procedure below

- * Be sure to log on using an administrator account when Windows starts
- Screen display may differ depending on operating system, but the

Display Device Manager

- Windows® 7 and Windows Vista®
- 1. From the [Start] menu, right-click [Computer].



3. Click [Device Manager]

System and Security + System • (4) Secure Control Part (6)
View basic information about your computer Violates addition Titlehood Vibrate
Capyright © 2009 Microsoft Capprosition, All rights reserved.

- Windows® XP
- 1. From the [Start] menu, right-click [My Computer].



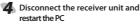


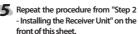
The Device Manager window appears. Right-click the unknown device, and click [Uninstall].

OK Cancel









Basic specifications Wireless Laser Mouse Article No. M-SN2DL Series 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) USB Radio frequency 2.4 GHz bandwidth Radio wave method DSSS modulation Non-magnetic substance (e.g. wooden desk): Approx Magnetic substance (e.g. metal desk): Approx. 3 m *Test values in the ELECOM environment Mouse body dimensions 75(W) x 110 (D) x 38 (H) mm Receiver unit dimensions 16 (W) x 19 (D) x 8 (H) mm 5 to 40°C, 90% RH max, (no condensation Operating temperature/ humidity 10 to 60°C, 90% RH max. (no condensation Storing temperature AAA alkaline battery, AAA manganese battery, AAA nickel hydride battery Measure of the operating time when an AAA alkaline Operating time Continuous operating time: Approx. 71 hours Continuous standby time: Approx. 95 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

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