

# SCOPE NODE

L A S E R   S E N S O R

## M-SN1UL Series

### User's Manual



Thank you for purchasing the ELECOM M-SN1UL Series laser mouse.






This manual describes the operating instructions and safety precautions for using the M-SN1UL 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-SN1UL Series is referred to as "this product" in this manual.







### Safety Precautions





#### ■ Meaning of symbols

	<b>WARNING</b> Failure to observe precautions may result in serious personal injury or death due to fire, electric shock, or other causes.
	<b>CAUTION</b> 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.

 <b>WARNING</b>	
	If an abnormality is found with this product (emission of heat, smoke or abnormal smell from the product), immediately stop using the product, disconnect the product from the PC. After doing this, contact the retailer from whom you purchased the product. If you continue to use the product under these conditions, it may cause a fire or electric shock.
	Do not drop or hit this product. If this product is damaged, immediately stop using the product and disconnect the product from the PC. After doing this, contact the retailer from whom you purchased the product. If you continue to use the product in a damaged condition, 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 connector with a wet hand, modify the connector or bend it forcibly, as this may cause a fire or electric shock..

 <b>CAUTION</b>	
	Do not place this product in any of the following environments: <ul style="list-style-type: none"><li>• In a car exposed to sunlight, a place exposed to direct sunlight, or a place that becomes hot (around a heater, etc.)</li><li>• In a moist place or a place where condensation may occur</li><li>• In an uneven place or a place exposed to vibration</li><li>• In a place where a magnetic field is generated (near a magnet, etc.)</li><li>• In a dusty place</li></ul>
	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.
	<ul style="list-style-type: none"><li>• <b>Do not use this product with any device that may significantly affect other equipment in the event that it malfunctions.</b></li><li>• <b>If this product is used on a transparent surface such as glass or a highly reflective surface such as a mirror, the laser sensor will not function correctly and mouse cursor movement will become unstable.</b></li><li>• <b>When not using the mouse for one month or more, disconnect the connector from the PC.</b></li><li>• <b>When you no longer need to use this product, be sure to dispose of it in accordance with the local ordinances and laws of your area.</b></li></ul>

#### ■ Cleaning the Mouse

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

	<b>Use of a volatile liquid (paint thinner, benzene, alcohol, etc.) may affect the material quality and colour of the product.</b>
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### 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.

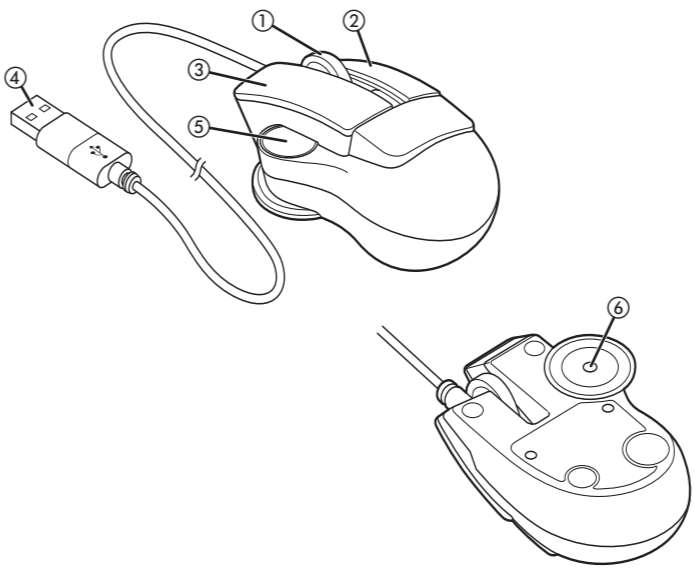
- (1) Never observe the laser beam by using an optical measure such as a microscope or magnifier or view the laser with the naked eye for a long period of time. Doing so may have an adverse effect on the eye. (Some laser beams cannot be seen with the naked eye.)
- (2) Never aim the rear surface of the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

### 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 (cable length: 1.5 m)
- User's Manual x1

### Part Names

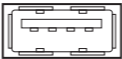


<b>①Wheel</b>
The wheel can be turned back and forward with your finger or pressed like a button to operate the PC.
<b>②Right button</b>
Used for right-click operation.
<b>③Left button</b>
Used for left-click operation.
<b>④USB connector (Male)</b>
Connected to a PC USB port.
<b>⑤Operation check indicator</b>
Flashes red for a certain period of time and then illuminates in red when the PC is turned on or when the product's USB connector is inserted into a USB port on the PC.
<b>⑥Laser sensor</b>
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.

## When using Windows®

### Step1 Check USB ports

Check the USB port on your computer.



USB port



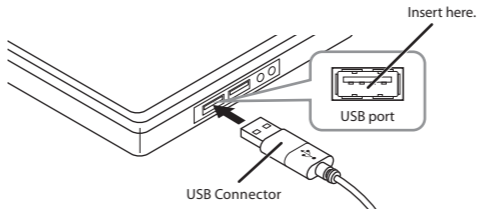
- Any USB port may be used.
- This product can be connected to a USB hub. However, it may not work depending on the power supply capability of the USB hub.

### Step2 Connecting the Mouse

#### 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 product's USB connector into a PC USB port.



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

#### 3 The mouse driver is installed automatically.

The operation check indicator flashes red for a certain period of time, and then illuminates in red.

#### ■ Disconnecting the Mouse

This product is hot-pluggable. It is possible to disconnect the mouse when Windows® is running.



Operation may become unstable if the mouse is disconnected and reconnected several times when Windows® is running. If this occurs, restart Windows®.

### Step3 Checking wheel operation

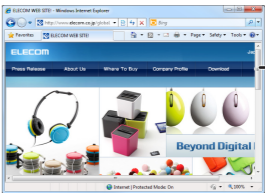
Check that the mouse scrolls up and down correctly in Windows® Internet Explorer.

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

Internet Explorer will launch.

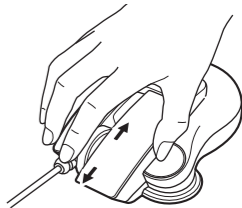
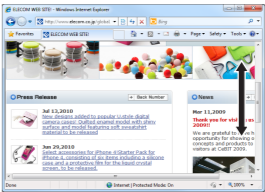
#### 2 Display your favourite web site in Internet Explorer and change the size of the window so that the vertical scrollbar appears.

\* 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.

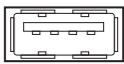


In applications that do not support scrolling, the screen will not move when you scroll the wheel.

## When using Mac OS X®

### Step1 Check USB ports

Check the USB port on your computer.



USB port



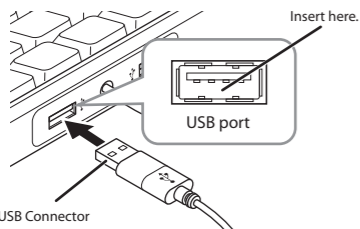
- Any USB port may be used.
- This product can be connected to a USB hub. However, it may not work depending on the power supply capability of the USB hub.

### Step2 Connecting the Mouse

#### 1 Activate the Mac.

- Wait until Mac OS X has started up completely.

#### 2 Connect the product's USB connector to a USB port on your Mac.



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

#### 3 The driver is installed automatically.

The operation check indicator flashes red for a certain period of time, and then illuminates in red.

#### ■ Disconnecting the Mouse

This product is hot-pluggable. It is possible to disconnect the mouse when Mac OS X is running.



Operation may become unstable if the mouse is disconnected and reconnected several times when Mac OS X is running. If this occurs, restart Mac OS X.

### Step3 Checking wheel operation

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

#### 1 Click the Safari icon in the Dock.

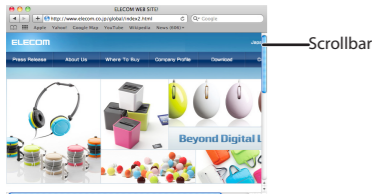
Safari will launch.



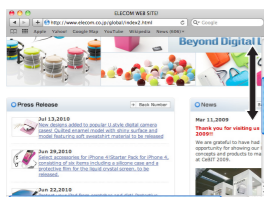
If Safari is not in the Dock, double-click the Safari icon in the Applications folder.

#### 2 Display your favourite web site in Safari and change the size of the window so that the vertical and horizontal scrollbars appear.

\*The sample website used here is the ELECOM 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 a laser mouse.

➔When the mouse was connected to the USB port, 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 - Connecting the Mouse" on the front of this sheet.

➔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.

### 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 - Connecting the Mouse" on the front of this sheet.



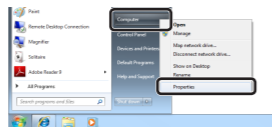
- If there are multiple unknown devices, before removing a device, check that it is actually this product. Disconnect the receiver unit and check which unknown device disappears. The device that disappears is this product.
- If the unknown device does not disappear even after you have deleted the driver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

With the product connected to the PC, follow the procedure below to remove the unknown device.

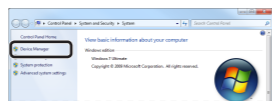
#### 1 Display Device Manager.

- Windows® 7 and Windows Vista®

- From the [Start] menu, right-click [Computer].
- Click [Properties].



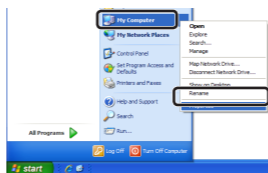
- Click [Device Manager].



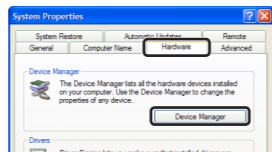
- Windows® XP

- From the [Start] menu, right-click [My Computer].
- Click [Properties].

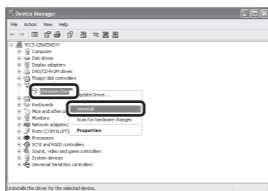
- Click the [Hardware] tab.



- Click Device Manager.



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



- Click OK.



- Disconnect the receiver unit and restart the PC.

- Repeat the procedure from "Step 2 - Connecting the Mouse" on the front of this sheet.

### Basic specifications

Product name	Laser Mouse
Article No.	M-SN1UL Series
OS	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)	1600
Interface	USB
Dimensions	75(W) x 110 (D) x 38 (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)

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