

RF Wireless Optical Mouse User's Manual

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FCC Statement on CLASS B

Dear Customer

Congratulations on your purchasing ! A creative, **non-ball and non-cable**, mouse was born ! Without mouse ball, make you comfortable to scroll the internet and document. Instead of wiry hassle, make you feel free to surf the net. **The RF Wireless Optical Mouse** is what you need for New Year and Century. Please take some time to read the following instructions carefully for protecting your mouse.

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 when the equipment is operated 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 manual 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 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 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.

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.
- (2) this device must accept any interference received, including interference that may cause undesired operation.

1. Hardware Installation

1-1.Installing a Mouse with Mouse Port (PS/2) Connector

If you have a mouse with a round mouse port connector, you must turn off the computer before connecting or disconnecting your mouse.

1-2.Installing a USB Mouse

When you use a mouse with USB connector , you don't have to shut off the computer. Just plug the USB connector into the USB port

1-3.Installing a Combo (USB→PS/2)Mouse

The Combo Mouse comes with a USB connector, together with a USB→PS/2 port adapter. Before plug your mouse into the computer, try to make sure what kind of mouse port you have. If you have a USB port, plug in the original USB connector; if you have a PS/2 port, please connect the adapter first to the cable, then plug into the PS/2 port.

1-4.Select a Suitable Channel and ID

1-4-1.First, check how many channels of the mouse on the package or the channel switch. Choose and switch 1 or 2 channel on the back of mouse and charger (receiver). There will be some interfere when your nearby classmates or colleagues and you are using the same channel. Change to the other channel immediately when it happened. If your mouse is only one-channel type, just skip this section.

1-4-2. Press the ID defining button on the back of charger, then press the ID defining button on the back of the mouse. The **RF Wireless Optical Mouse** will choose the best ID automatically after selecting a suitable channel and pressing the ID defining buttons. There are several changeable ID for each channel.

1-5.Battery Suggestion

1-5-1. Recommend battery: Two AAA Ni-MH rechargeable batteries for mouse. For first time using, put the mouse on the charger for charging over 8 hours at least. While charging, the red LED on the charger will flash unsteadily. When the power is enough, the indicator will be light steadily. Finished charge and pull out the mouse from the charger, then indicator will be disappear. The green LED on the charger will flash unsteadily, while moving the mouse or changing the ID way. Otherwise, the indicator will be light steadily..

1-5-2.Mouse will be on sleep mode, while non-used after 90~100 seconds. Press any button to use mouse again. When the mouse is almost out of power, the indicator on the rubber wheel will be light while moving the mouse. Please change the batteries or put the mouse on the charger.

2. Mouse Driver Installation

Mouse software supports DOS, Windows 3.1, Windows 95, Windows 98, Windows NT 3.51, Windows NT 4.0, Windows 2000 and Windows ME.

Before installing any software under Windows NT 4.0, we strongly recommend you create an Emergency Repair Disk using the Repair Disk utility provided by the system (RDISK.EXE).

Please note that USB mice are only supported under Windows 98, Windows 2000 and Windows ME.

2-1. Mouse Driver for DOS

Run Dosinst.bat to install the DOS mouse software.

* DOS Driver Options

The DOS mouse driver has several software options. To see these detailed options on the screen by typing :

```
mouse /?
```

2-2. Mouse Driver for Windows 3.1

Run Setup3x.exe to install the Windows 3.1 Mouse software.

2-3. Standard Installation for Windows 95, Windows 98, Windows NT 4.0, Windows 2000, and Windows ME.

Run Setup.exe to install the Mouse software.

2-4. Drivers Only Installation

You can load device drivers without running the Setup program. Loading the device drivers this way, however, the Setup program will be loaded automatically after the drivers installed.

Please execute the following steps to perform a drivers-only installation for Windows 2000:

- 1) Click on the "Start" button on the Windows Desktop.
- 2) Select "Settings", then "Control Panel".
- 3) From the Control Panel, double click on the "System" icon.
- 4) From the System Properties, click on the "Hardware" tab.
- 5) Click on the "Device Manager" button.
- 6) From the Device Manager, double click the "Mouse" icon.
- 7) Double click on the Mouse Type icon.
- 8) From the Mouse Properties dialog box, click on the "Driver" tab, then click on the "Update Driver" button.
- 9) From the "Update Device Driver Wizard", click the "Next" button.
- 10) Click on the radio button next to:
"Display a list of the known drivers for this device so that I
can choose a specific driver"
- 11) Click on the "Next" button.
- 12) Click on the "Have Disk" button.
- 13) When prompted, click the "Browse" button.
- 14) From the "Locate File" dialog box, go to the "Setup\Drivers\Win2kdrv"
folder on the Mouse Driver Disk/CD-ROM.
- 15) Click the "Open" button.
- 16) From the "Install From Disk" dialog box, click the "OK" button.
- 17) Under "Models", select the correct model that matches the pointing
device type and click on the "Next" button.
- 18) If the "Update Driver Warning" appears, click on the "Yes" button.
- 19) Click on the "Next" button.
- 20) Windows should now copy the updated mouse drivers to the system.
- 21) Click on the "Finish" button.
- 22) Click on the "Close" button.
- 23) Windows should now ask you to restart the system for the changes to
take effect, click on "Yes" to restart the system.

Please execute the following steps to perform a drivers-only
installation for Windows 95 and Windows NT 4.0:

- 1) Click on the "Start" button on the Windows Desktop.
- 2) Select "Settings", then "Control Panel".
- 3) From the Control Panel, double click on the "Mouse" icon.
- 4) Select the "General" tab.

- 5) From the "General" tab, click on "Change".
- 6) Insert the Mouse Driver Disk/CD-ROM into the disk drive.
- 7) Click the "Have Disk" button.
- 8) When prompted, click the Browse button.
- 9) Double Click on the drive letter that Mouse Driver Disk resides.
- 10) Click the "Open" or "OK" button.
- 11) Click on the "OK" button.
- 12) Select "Show all Devices"
- 13) Under "Models", select the correct model that matches the pointing device type and click on the "OK" button.
- 14) Windows should now copy the updated mouse drivers to the system.
- 15) Click on "Close".
- 16) Windows should now ask you to restart the system for the changes to take effect, click on "Yes" to restart the system.

Please execute the following steps to perform a drivers-only installation for Windows 98 and Windows ME:

- 1) Click on the "Start" button on the Windows Desktop.
- 2) Select "Settings", then "Control Panel".
- 3) From the Control Panel, double click on the "System" icon.
- 4) Select the "Device Manager" tab.
- 5) Double click on the "Mouse" icon.
- 6) Double click on the Mouse Type icon.
- 7) Click on the "Driver" Tab.
- 8) Click on the "Update Driver" button.
- 9) From the "Update Device Driver Wizard" box, click the "Next" button.
- 10) Click on the radio button next to:
"Display a list of all the drivers in a specific location, so you can select the driver you want."
- 11) Click on the "Next" button.
- 12) Insert the Mouse Driver Disk/CD-ROM into the drive.
- 13) Click on the "Have Disk" button.
- 14) When prompted, click the "Browse" button.
- 15) Double Click on the drive letter that Mouse Driver Disk resides.
- 16) Click the "OK" button.
- 17) Click the "OK" button again.
- 18) Under "Models", select the correct model that matches the pointing

device type and click on the "Next" button.

19) Click the "Next" button, then click on "Next" again.

20) Click on the "Finish" button.

21) Windows may request that you restart your system. Click on the "Yes" button to restart.

2-5. Mouse Driver for PnP mouse and USB mouse.

When computer system detects your PnP mouse or USB mouse, it will show a dialog with "New Hardware Found" displayed. Follow the steps below to install the mouse drivers.

(1) When system shows dialog "Add New Hardware Wizard", click "Next" icon.

(2) On next screen, select "Display a list of all the drivers in a specific location, so you can select the driver you want." then click "Next".

(3) Click "Have Disk" on next screen.

(4) Popped the dialog "Install From Disk", on Windows 95, 98, 2000, ME, NT4.0, type the drive letter that Mouse Driver Disk resides. After the path typed, click "OK".

(5) Click "Next" on next screen.

(6) Click "Next" on next screen.

(7) Follow the instructions on the following screens.

(8) Click "Finish" on last screen then the drivers will be installed completely.

3. Uninstall Program

Mouse Software can be removed from Windows (except Windows 3.1x) by clicking the Add/Remove Programs icon in the Control Panel or clicking the "Uninstall" icon in the folder that setup.exe created in "Programs" of "Start" button on Windows desktop.

Select Mouse Software installed and click the "Remove" button.

Windows 9x, Windows NT4.0, Windows 2000 and Windows ME:

Mouse software will be removed from the system if setup finds alternate compatible drivers for a device in MSMOUSE.INF. Should this not be the case you can manually change the driver to another one as described in section 2-5.

4. Trouble Shooting

4-1.Moving problems

4-1-1.First please avoid to the following places for the proper installation.

- 1) The direct rays of the sun
- 2) Hot, cold, dusty, moisture or unstable places
- 3) Under the magnetic force.
- 4) Near fax machine, TV sets, radio, cellular phones and other RF products
- 5) On metal board

4-1-2.Check the following notes for moving precisely.

- 1) Install the driver properly
- 2) Examine the distance between receiver and transmitter
- 3) Check the power source of the battery in transmitter and the receiver is plugged in computer properly
- 4) Select a suitable channel

4-1-3.Too much interfere

- 1) Change the location of receiver
- 2) Put the unit at a certain distance from high voltage and other electronic equipments.

4-1-4.Wheel operating problems

- 1) Verify that the "Browser Mouse" or "Mouse Control Panel" application is installed properly. If you do not find the "Browser Mouse" or "Mouse Control Panel" icon in the system tray, you need to reinstall mouse software.
- 2) Some other applications with mouse scrolling function may conflict with this mouse function. Remove these applications before install this mouse software.

4-2.Cursor trouble

4-2-1.If the cursor on the screen remains at one spot or moves erratically, check the mouse cable for any breaks or sharp twists and examine the cable closely where it connects to the mouse.

4-2-2. When the cursor movement stops at a corner and no longer responds to the mouse movement, please run the mouse driver to check which mode the mouse is operating in.

4-2-3.While mouse movement does not produce corresponding cursor movement or there is a brief pause during movement, try to clean the silicon rubber-coated ball and rollers.

5-2.Installation problems

5-2-1.Detection problems with PS/2 Pointing Devices

If your mouse is connected to the mouse port and is not detected by the system, attempt the following step(s):

- 1)Your mouse port might need to be enabled through the SETUP menu of your computer. Please check your computer documentation regarding the SETUP menu.

- 2) If you have a mouse with both serial and mouse port adaptors, connect the mouse to the computer through the serial port. Reboot and check if the mouse is detected properly.
- 3) If adaptor(s) were not included in your package, your mouse was designed to work only on USB port. Refer to your package for the type of port your mouse supports.

If the problem persists, please check for a possible computer BIOS ROM upgrade from your computer manufacturer. Some notebook systems, such as IBM Thinkpad, have both an external Mouse Port and an integrated Pointing Stick, which is connected to the Mouse Port. If your mouse is having difficulty running on the Mouse Port of this type of system, try using the serial port instead.

5-2-2.Conflicts with other Serial Devices

Some software provided by other manufacturers with mouse functions, such as Logitech MouseWare, which may conflict with this mouse. Recommended strongly to remove the software installed previously before install this mouse software.

- #### 5-2-3.After select mouse type for Windows 95, the mouse would be disable when you clicked "OK".
- Using keyboard to close the current window and wait for Windows 95 to give any instruction to restart your computer. After restart Windows 95 the mouse will work normally.

5-2-4.Displayed error number -115 on screen when install mouse driver software.

The error usually occurs because a virus-checking program is being used on the System to prevent files from being renamed. Please shutdown any virus checking software running on the system and then run the setup again.

5-2-5.Special Notes

- 1) Don't try to change the frequency and power of **RF Wireless Optical Mouse** by yourself or modify its function and characteristic.
- 2) When using **RF Wireless Optical Mouse**, please avoid to interfere with aircraft's navigation equipment. This **RF Wireless Optical Mouse** is applied to legalized communication including radioactive interference of industrial, scientific, medical equipment.
- 3) Users will be strictly punished in accordance with the administration regulations on radio waves if they changed the frequency and power of **RF Wireless Optical Mouse**.

Specifications

1. Description:

It is a 27MHZ Two Channel RF & Optical Mouse , It use switch to select channel .

2. Feature:

- a) FSK Modulation/Demodulation.
- b) Designed for **27.1MHZ /27.045MHZ** ISM Band wireless communication.
- c) Two Channel Transmitter/Receiver.
- e) AAA(UM-4, 1.5V) battery : 2 pcs.
- f) 2400 bps data rate communication.

3. Specifications of RF Module

Item	Parameter	Description	Tx Module		Rx Module	
1	Frequency Range		Channel 1	Channel 2	Channel 1	Channel 2
			27.1 MHZ	27.045 MHZ	27.555 MHZ	27.5 MHZ
2	Number of channels		Two channels		Two channel	
3	Modulation/Demodulation		FSK		FSK	
4	Data Rate (bps)	Maximum	2400 bps		2400 bps	
5	Receiver Sensitivity	Minimum			-90 dBm	
6	RF frequency Tolerance		± 30 ppm		± 30 ppm	
7	Power Supply	Nominal	+2.2Vdc		+3.3Vdc	
8	Temperature range	Operating Storage	0 to +50 °C -10 to +60 °C		0 to +50 °C -10 to +60 °C	