STANDARD RF OPTICAL MOUSE

USER'S MANUAL

Model #: MWP5016

Important Ergonomic Information

Some experts believe that using any mouse or trackball may cause serious injury to hands, wrists, arms, neck, or back. If you feel pain, numbness, or weakness in these areas, see a qualified health professional.

TO REDUCE THE RISK OF INJURY, FOLLOW THESE PRECAUTIONS:
- Take frequent breaks, Get up and walk around several times every hour.
- Vary your tasks throughout the day.
- Keep your shoulders relaxed with your elbows at your side. Position your keyboard and mouse so you do not have to reach.
- Adjust your chair and keyboard so your upper arms and wrists are straight.
- Avoid resting your wrists on sharp edges.

System Requirement
- Mouse compatible with standard Microsoft mode
- 3rd button and wheel function require Win98/2000/Me/XP
- If without driver installed: 4th & 5th button require Win2000/XP if without driver installed.

Before you begin
- Keep this installation guide for future reference! It contains Important Troubleshooting Information.
- Keep your old PS/2 mouse as a back-up device.

Getting Started

Congratulations on your purchase of an RF (Radio Frequency) wireless & multimedia mouse. By using the advanced RF technology, a 360° of operation is possible, and no line-of-sight is required between the receiver and the mouse. The MWP5016 Mouse doesn't have to aim at the receiver when using.

Package Contains

Your DC1095 Mouse package includes the following:
1. MWP5016 Mouse (Transmitter)
2. RX1085-2 Mini Receiver
3. User's manual
4. One AA size of lithium ion rechargeable battery
5. Charge base for RF Mouse.
6. CD-ROM Driver Windows 95/98/2000/NT/ME/XP

Note   If any part is missing, please contact your dealer for a replacement immediately.

Precaution

! For optimal performance, place the receiver at least 8 inches or 20 centimeters away from other electrical devices, such as the computer, the computer monitor, speakers or other external storage drives.

! For a better transmission distance, avoid using this device on a metal plate or desktop because a large surface of iron, aluminum, copper and other metal will be a shielding or ground to the RF antenna of the mouse and receiver. Operating on a metal may cause the transmission distance shorter.

! For this RF optical mouse, it is not suggested operate the mouse on a dark surface for the consideration of saving battery power, so the LED is not illuminated too bright. Although the working surface is not strictly restricted, it is strongly recommended to operate an optical mouse on a white paper to obtain the best performance.

! If your notebook computer or PC has a metal (contains Al or Mg) case, the metal housing of the LCD panel will isolate partial radiation of the RF signal from the mouse. This will possibly result in reducing the distance of transmission when you operate the mouse right in front of the notebook or PC, and the receiver is connected on the back of the notebook or PC.　However, the RF mouse should work properly while you are operating the mouse just beside your notebook computer or PC

Installation Guide

Step 1. Connecting the Receiver

By using this MWP5016 mouse, you need to keep a free USB port for the included receiver.

Please follow the steps below to finish the connecting:

1. Turn off your computer.
2. Plug the USB connector end of the receiver into the USB port. Of your notebook (or PC) or your charge base if the charge base is already connected to your notebook or PC through the USB cable.
3. Prepare your original Microsoft Windows CD.
4. Turn the notebook or PC power on, then follow the instructions of Windows to complete the registration of a new USB device.

Step 2. Setting up the correct channel for both of receiver and mouse

This RF wireless mouse provides 2 different RF channels, and 256 identification codes to avoid interference with other radio devices or other same model of RF wireless mouse. Before you using the wireless mouse, please select the same RF channel (indicated by A and B) by sliding the switch to A or B on both receiver and mouse. (See Fig. 3.1 and 3.2 for the location of channel switch.)

Step 3. <u>Connecting the power</u>

1. Connect the AC plug of power adaptor into AC power outlet.
2. Connect the DC output connector of the adaptor into the female DC jack on the back of charger.
3. Then the red LED will be lighten on.

Step 4. <u>Full charge the batteries</u>

1. Put the wireless optical mouse with its rechargeable batteries on the correct location of the charger.
2. Before you use the wireless optical mouse, you have to charge the batteries as full as possible. It will take about 3 to 4 hours to full charge the lithium-ion batteries inside the mouse.
3. During charging the lithium-ion battery, the lefts green LED on the charger base will be lighten on. When the battery is full charged, the green LED will be turned off.

Please follow the procedures to set up:

1. Installing the Batteries

   To apply the battery, please follow the following steps:

   ■ Turn the mouse to the bottom side and remove the battery cover by moving the opening tab and pull the battery cover out.
   ■ There are signs to indicate the polarity of the battery. Follow the signs to place the battery.
   ■ Place the battery cover back and make sure it is firmly closed.

Battery Warning!

Be sure to use the included lithium battery.

Do not use a standard AA battery, which does not have an enough voltage level to trigger the internal circuitry.

2. Establishing communication between the receiver and the mouse

   ■ First, make sure that channel switches on the mouse and the receiver are placed at the same channel, i.e., channel A or channel B.
   ■ Press and release the connect button, or ID SW, on bottom of the wireless mouse (refer to Fig-3.1).
   ■ Press and release the connected button, or ID SW, on the receiver (refer to Fig-3.2). Note: The location of the ID switch may vary according to different model of receiver.
   ■ The "connect" light on the top cover of receiver will flash while the same ID is selected on both of the receiver and the mouse.
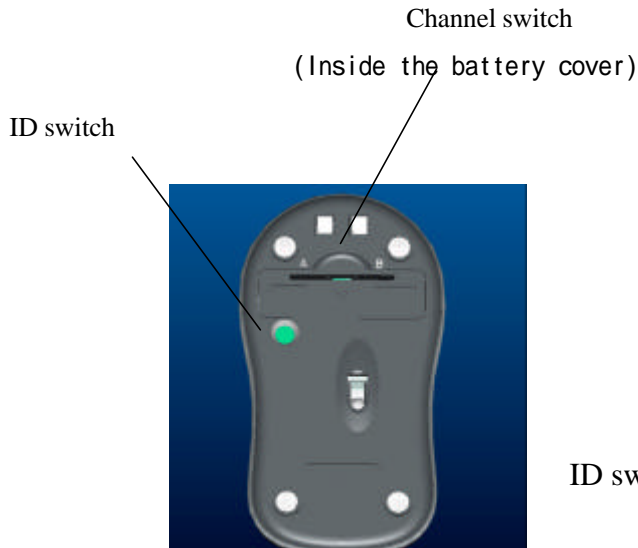
Channel switch

(Inside the battery cover)

ID switch

ID switch

Fig-3.1

Fig-3.2

Channel switch

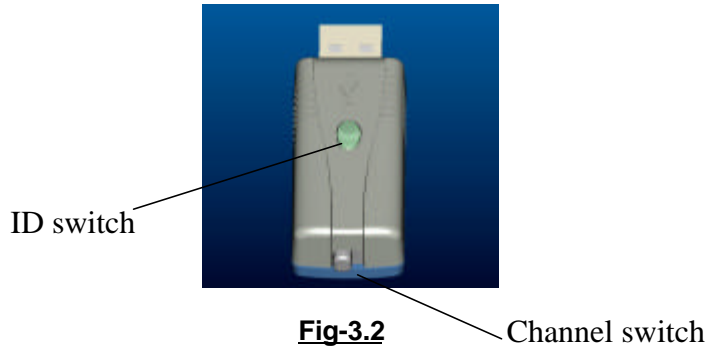## GENERAL SPECIFICATIONS

- Digital Radio Frequency wireless mouse with receiver
- 2 channels and 256 ID selections for your options to prevent interruption
- 5 buttons design for multimedia purpose to immediately play
- Ergonomic design for comfortable grip

Electromagnetic Characteristics (EMC)

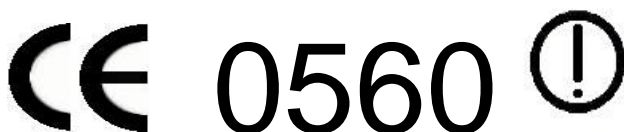**FCC ID:**
This unit complies with Part 15 of FCC Rules.
Operation is subject to following two conditions:

(1)This device may not cause harmful interference.

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

FC **Tested To Comply**
With FCC Standards

- **CE - Type acceptance**: ETS 300 220 short range devices

CE 0560 ①

Transmitter

- Distance: 3 feet typical
- Power: 3.7V DC (Lithium ion battery)
- Carrier Frequency: 27 MHz
- Dimensions: 98*59*38 mm
- Weight: 106 grams

Receiver

- Interface: USB
- Power: 5V DC, 100mA MAX connected to host computer
- Dimensions: 63*22*17 mm (without counting the extended USB connector)
- Weight: 16 grams

Recharger

- Charging Current: 70 mA typical
- Power : 5V DC 450 mA
- Dimensions: 112 * 87 * 54 mm
- Weight: 110 g

ELECTRIC SPECIFICATIONS

- Operating Voltage: Transmitter: 3.7V DC (powered by batteries)
                                    Receiver: 4.5 to 5.5V DC (powered by USB port)
- Operating Current：   Transmitter: 45~55mA
                                    Receiver: 30mA typical
- Standby Current：   Transmitter: 10mA or lower
- Sleep Mode Current: Transmitter: below 10uA
- Modulation Type: FSK
- Transmission Rate: 4K bps
- Error Detection: 8-bit CRC

Troubleshooting

1. Mouse does not function

- If mouse is not functional, please turn off the computer first.
- Check the receiver and make sure it is firmly attached to the USB port of the computer.
- Check the placement of the battery and see if it is properly connecting.
  The "+" and "-" ends of the battery must match the "+" and "-" on the slots. If the battery is not inserted correctly, the device won't work.
- Restart the computer again.

2. Reducing Interference with Other Wireless Devices

All 27MHz radio-based devices are subject to interference from other 27MHz radio-based devices, such as cordless telephones, cordless baby monitors, and cordless toys.

It may help to move the receiver unit and the base unit for the other wireless device (such as cordless telephone cradle) as far apart as possible. In order to have best performance, you may need to experiment and find a location best for your receiver.

Avoid to use this device on a metal surface because a large surface of iron, aluminum, copper, or other metal may act like a shielding to the RF antenna of the mouse and the receiver.

3. Interference with other RF wireless mouse

Please switch the channel to the other one. To do so, you need to slide the channel switch on both the receiver and the mouse to the other side. A new identification code may require if there happens a cross reception of RF signal from other same model of RF mouse. Please see Step 2 of the **Installation Guide** on "Establishing communication between the receiver and the mouse" to generate a new ID code.
 Normally, the effective transmission distance is about 4.5 feet, depending on the environment. If the effective distance between the mouse and the receiver is bad, try to change the location of the receiver.

4. If you have difficulty connecting the wireless mouse:

- Increase the distance between the set of wireless mouse and other radio device units.
- Turn off the other wireless devices, or their base units, which are in the proximity of the receiver.
- Try connecting the wireless mouse and its receiver again.
- To verify that your device is connected and working properly, open a document and try the device.

Federal Communication Commission Interference Statement

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

Information to User - The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.