

2.4GHz Multimedia Keyboard Mouse Set

USER'S MANUAL (Model #: KS-28103)

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

- The mouse is compatible with standard Microsoft mode.
- 3rd button and wheel function require Win98/ ME/ 2000/ XP/ Vista
- 4th & 5th buttons require Windows 2000 or XP, Vista, or driver installation
- If your operating system (OS) is Windows98/98SE, please prepare the Windows98 or 98SE compact disk for system's request during the installation of mouse.
- Keyboard is compatible with standard Microsoft mode.
- The Multimedia, Internet hot-keys of the keyboard require XP, Vista, or driver installation

Getting Started

Congratulations on your purchase the KS-28103 set, wireless optical mouse and multimedia-internet keyboard set. The slim type keyboard is an all new design keyboard with convenient hot keys. The wireless mouse is designed with an optical tracking engine. The product will bring you a special experience in using computer and surfing web.

Package Contains

Your Radius Keyboard Mouse set package includes the following:

1. Wireless optical mouse (MWP103-P6N) **FCC ID : NIYMWP103-P6N**
2. Wireless keyboard (KB28-6N) **FCC ID : NIYKB28-6N**
3. Dongle Receiver (RX22-6N) **FCC ID : NIYRX22-6N**
4. User's manual
5. 2 AAA batteries for mouse, 2 AAA batteries for keyboard

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

Precaution

The optical mouse **can not** work on a glass or mirror surface. Avoid operating this mouse on a glossy surface; otherwise, this mouse may not operate normally.

For consideration of saving battery power, it is strongly recommended to operate an optical mouse on a bright surface with fine texture to obtain lower power consumption of the high illumination LED. A very dark surface will cause higher power consumption.

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 act as a

shield or ground to the RF antenna of the mouse and receiver. Operating on a metal surface may shorten the transmission distance.

If your notebook computer 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 could possibly result in reducing the distance of transmission when you operate the mouse right in front of the notebook and when the receiver is connected on the back of the notebook. However, the RF mouse should work properly while you are operating the mouse just beside your desktop computer.

Battery Warning!

When replace the batteries, use alkaline. You may use rechargeable NiMH or other type of batteries, but do not mix them with alkaline. Do not mix used and new batteries together!

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.

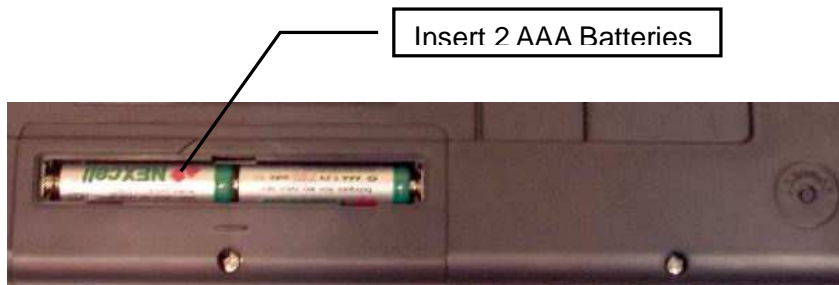
HARDWARE INSTALLATION

Inserting the Batteries

The wireless keyboard uses 2 AAA batteries. They are inserted as follows:

1. Turn the keyboard over to show the underside.
2. Release the battery cover.
3. There are signs to indicate positive and negative orientation for the batteries. Take care to insert the batteries correctly.

4. Clip the battery cover back into place and make sure it is firmly closed.



The wireless mouse uses 2 AAA batteries. They are inserted as follows:

1. Remove the battery compartment cover.
2. Install batteries with the positive (+) & negative (-) in the correct direction indicated by the battery compartment label.
3. Replace battery compartment cover.



PAIRING THE MOUSE & KEYBOARD WITH THEIR RECEIVER

Connect the receiver with computer.

1. Turn off your computer
2. Disconnect the current mouse
3. Plug the USB connector (receiver) into USB port (computer).
4. Turn the computer on
 - a. USB is a PnP device; you can plug the device no matter the computer is on or off. Of course, you can remove USB device in the same way.
 - b. If the device is HD or pen drive or any device which can store files, stop the device than remove is the best way to protect.

Pairing the mouse, please follow the steps as below:

If the mouse is in sleep mode click the mouse button once to wake it up.

1. Bring the mouse within 1ft range from the receiver.
2. Power on the mouse.
3. Hold the mouse upside-down and use a pointed object, such as a pen tip, to click the CONNECT button (ID button) once.
4. Click the receiver's connect button once, within 5 seconds after clicking the connect button on the mouse. The LED will start blinking, when the connection is established.



Move the mouse around to test if it was successful.

** The LED on the receiver will light up or blink while the mouse is being used

If the synchronization is not successful for some reason please

- a. Remove the batteries and unplug the receiver
- b. Wait for 20 sec then to try the step 1 to 4 again

Pairing the keyboard, please follow the steps as below:

1. Click the receiver's connect button once
2. Press and release the "connect" button on bottom of the wireless keyboard.



Test some keyboard's function to test if it was successful.

If the synchronization is not successful for some reason please

- c. Remove the batteries and unplug the receiver
- d. Wait for 20 sec then to try the step 1 to 2 again

Note: * During normal use, please make sure that the mouse & keyboard are no more than 5M away from the receiver in order to have reliable connection.

Operation Guide

Mouse Button Definition



MOUSE BATTERY LOW INDICATION

When battery voltage level goes under the preset level, battery indicator

LED on the wheel of the mouse will flash frequency when moving or clicking the mouse. Although the mouse can still work for a while, the user, at this time, should have a new set of batteries ready for replacement as soon as possible.

POWER ON/OFF MOUSE

DC103 designed for power saving, you can power ON/OFF by sliding ON/OFF switch on the mouse bottom.

OPERATIONS ON POWER SAVING MODE

In order to conserve battery power, the mouse is designed to reduce power consumption gradually from standby mode to sleep mode, if it is not being used.

Standby mode – Around 1 second after the mouse stops moving, it enter into standby mode.

Sleep mode – If the mouse is left intact for around 8 minutes, it goes to sleep mode and shuts down the optical sensor to maintain minimum power consumption. No moving operation is possible in this mode.

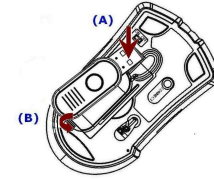
Wake up the mouse – This mouse can work promptly under Standby mode so users might not be able to tell the existence of this mode. But, in sleep mode, users have to press any button to wake up the mouse for normal operation.

RECEIVER STORAGE

For travel and loss prevention, store receiver in cavity on the bottom of the mouse.

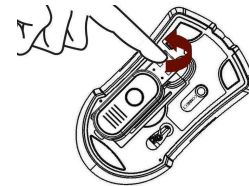
Storing receiver:

To store in the mouse bottom, place USB plug end of receiver (A) into place then snap bottom of receiver into position (B). Receiver will now be locked into position.



Removing Receiver:

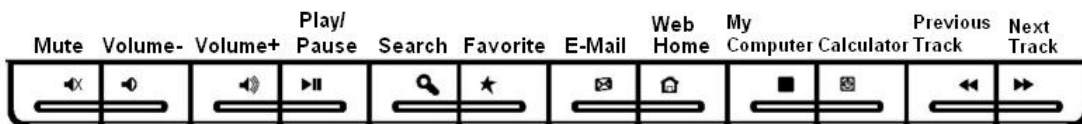
Using the tip of your finger, lift receiver from USB plug end first and remove from cavity. The USB is now active and ready to be inserted into your computer's USB port.



MULTIMEDIA/ INTERNET SLIM KEYBOARD

Hot-Key Functions

The hot keys on the keyboard are labeled as follows:



1. Mute: Press this button once to mute the volume, press again to un-mute
2. Vol +/ Vol-: Increase volume/ Decrease the volume.
3. Play/Pause: Press this button once to play CD/VCD, press again to pause playing
4. Search: Press this button to bring up "Search window" for web address, Press again to close "Search window"
5. Favorite: Press this button to bring up "My Favorites Window", Press again to close "My Favorites Window".
6. E-mail: Press this button to launch the default E-mail application.
7. WWW: Press this button to launch the default Internet browser application.

8. My computer: Press this button to launch the default File-Manager browser.
9. Calculator: Press this button to launch the default calculator application.
10. Previous Track: Press this button to change the previous media track
11. Next Track: Press this button to change the next media track

GENERAL SPECIFICATIONS

- 800dpi hardware resolution wireless optical mouse
- Wireless Keyboard with Multimedia/Office/Web function keys design.
- 2.4GHz Digital Radio Frequency wireless mouse, keyboard with receiver
- Multi-channels selection for your options to prevent interruption
- 5 buttons design with scrolling wheel mouse
- Ergonomic design for comfortable grip

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 batteries and see if they are properly connecting.
- The "+" and "-" on the batteries must match the "+" and "-" on the slots. If the batteries aren't inserted correctly, the device won't work.
- Restart the computer again. If the LED inside the receiver does not light up when moving the mouse, please re-connect the mouse to the receiver.

Q: The mouse cursor can only move left & right during operation (it could be

caused by low battery or the optical sensor's data error).

A: Please take out one of batteries and put it back for a power reset and then redo the connect procedure.

Q: The mouse does not work after waking up from power off mode by pressing the connect button once.

A: This might be caused by imprecisely depressing the connect button to wake up the mouse. Users can gain back normal operation by pressing connect button on the mouse first, and then pressing the one on the receiver. As soon as the LED inside the receiver starts flashing, the mouse is ready to operate.

Optical Sensor Mouse functions best on surfaces with details for tracking. It may not function on reflective, reflective pattern or non-visible detail surfaces!

2. Reducing Interference with Other Wireless Devices

- Reducing Interference with Other Wireless Devices:
All 2.4GHz radio-based devices are subject to interference from other 2.4GHz 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 of other wireless devices (such as cordless telephone cradle) as far apart as possible. You may need to try several times for a location that is best in your operating environment.
- Move the receiver and the mouse closer to each other so that the receiver is relatively shorter in distance to the mouse than to other 2.4GHz transmitters. You may need to re-establish the "connection".

Note: Avoid using 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

If the interference comes from other same model of RF wireless mice, please "Setting up connection between mouse and receiver" of the installation guide to switch to a new RF channel. A new identification code is also generated

upon the completion of channel switching. Normally, the effective transmission distance is about 3 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 that are in close proximity to the receiver of this wireless mouse. 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.

5. My keyboard or mouse does not work or does not work properly after installation

Make sure you have connected the receiver correctly. 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, or external storages devices.

Make sure you have installed the batteries correctly.

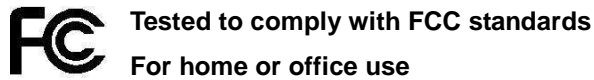
Make sure you have set the same ID on both transmitter (mouse and keyboard) and the receiver (see setting the ID under Hardware Installation).

If the problem persists, try an alternative ID selection to avoid possible interference. Remember to set the same ID on both transmitter and receiver.

6. My keyboard or mouse is not detected

Make sure you have connected the receiver correctly. Do not plug or unplug the receiver cables while the computer is running. You may have other system devices that conflict with the mouse and keyboard. Check the IRQ / address settings of these devices for conflicts and change the settings as required.

Electromagnetic Characteristics (EMC)



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.

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.

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FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. To maintain compliance with FCC RF exposure compliance requirements, please avoid direct contact to the transmitting antenna during transmitting. End users must follow the specific operating instructions for satisfying RF exposure compliance.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

CE - Type acceptance: EN300 328 FHSS Device