

# Wireless Radio Frequency Multimedia Keyboard & Mouse

## Users Manual

FCC ID:NIYKW2033

## ERGONOMICS GUIDE

### 1. Introduction

Personalizing your environment so that it is comfortable for your work situation promotes a healthy physical and mental lifestyle. Studies show that a carefully planned work environment can actually increase productivity. Applying proper ergonomic principals will help make our office more comfortable. Of course, only you can judge what is best for you, so we encourage you to adapt the tips on the following pages to your own needs.

Ergonomics is a science that addresses human performance and well being in relation to various types of jobs, equipment, tools, and environment. Ergonomics as it relates to computers, is concerned with the interactions among a person using a computer, the methods and tools employed when using a computer, and the work area.

We've done extensive testing on the designs of our hardware and software products because we want to come up with the most easy -to-use and comfortable products possible. Use the tips in this booklet to take responsibility for your comfort and health when using the computer.

### COMPUTERS AND POSTURE

It is important when you're using your computer to make sure that your wrists are straight when typing. Position your hands above the keyboard with a minimum of a 90-degree right angle at the elbow. Keep your fingers curled under slightly. Your arms should fall relaxed at your side-don't shrug your shoulders to keep your arms at right angles. Place your monitor at eye level, minimizing the bending of your neck while typing. Ensuring that your chair, work surface, and keyboard are in the correct positions is important. Maintaining proper body posture can not only lessen your risk of injury, but also help you work more comfortably.

- ?? Adjust the height of the chair back so that there's contact between the seat back and the most curved part of your back.
- ?? If you have a chair with armrests, they should be height-adjustable so that you're not hunching or slouching your shoulders to use them.
- ?? Adjust chair positions and postures throughout the day. Changing positions reduces muscle fatigue.
- ?? Don't let the edge of your chair press into the backs of your knees.
- ?? Keep feet on floor or supported by a footrest.
- ?? Alternate between the mouse and other pointing device and the keyboard. This provides a recovery pause from both.

## ARRANGING YOUR SPACE

If possible, arrange your tools around your desk so that you minimize the distance you have to reach for them. Divide your workspace into three zones:

- ?? Primary work zone - the distance from elbow to hand.
- ?? Secondary work zone - within arm's reach. Use this zone to position those items that you use frequently, but don't need all the time.
- ?? Reference zone - outside arm's reach. Use this zone for your least-often used items.

Incorporate these tips into your space.

- ?? If you use a pointing device more than the keyboard, place the pointing device in front of you and the keyboard slightly to one side.
- ?? Use a document holder to position papers, large books, or printouts.
- ?? Keep noise to a minimum. Locate your desk away from high-traffic areas.
- ?? Place reference materials at same height as and next to the monitor for easy access.

## COMPUTERS AND BODY FATIGUE

Computer users sometimes experience such discomfort as back pain, stiff neck and shoulders, sore hands and wrists, or tired legs. Much of this discomfort can be prevented because the symptoms often arise from pushing the body beyond its natural limits.

In addition to improving the setup of your workspace, it's also important to consider your lifestyle. Healthful food, exercise, and rest can help improve your health and comfort. Seek medical assistance for any persistent discomfort.

Minimize the following actions:

- ?? Sitting in awkward or twisted postures. Clear area under and around desk to optimize your posture. Ensure reference materials storage does not require excessive reaching or twisting. Place materials between knee and shoulder height on shelves.
- ?? Maintaining the same posture for too long.
- ?? Reaching Frequently.
- ?? Using too much muscular effort, even for relatively easy tasks.
- ?? Pressing on the soft tissues of your body—for example, leaning against a hard desk edge.
- ?? Performing repetitive tasks that require awkward body positions or forceful exertions, without allowing the body a chance to recover.

## MAINTAINING GOOD HABITS

When you're not typing, rest your arms and wrists on a palm rest, rather than on a hard desk edge. Alternatively, move your keyboard well in from the edge of

the work surface so that you're not resting on the edge.

Performing different tasks gives your body a chance to recover while you keep up your productivity. Alternate among several different tasks so that you don't do the same task for long periods at a time.

Incorporate these tips into your lifestyle:

- ?? Let your arms fall relaxed at your sides to avoid shrugging.
- ?? Place hands above the keyboard, with elbows at 90-degree angles.
- ?? Hold your wrists in a neutral, straight position to achieve greater comfort while computing.
- ?? If your chair needs to be positioned high to accommodate a straight wrist position, use a footrest to support your legs. Consider support for your lower back.
- ?? Curl your fingers under slightly.
- ?? Use a light touch when pressing the keyboard keys and using a pointing device.
- ?? Keep the mouse or other pointing device close to the keyboard to minimize reaching from the shoulder.
- ?? Use short cuts. Learn as much as you can about your software programs to help you minimize keystrokes and become more efficient at using your computer.

## COMPUTERS AND VISION

Use proper lighting and adjust your computer screen and paperwork appropriately to help reduce eyestrain and fatigue.

When you work on a computer, the light level should be dimmer than when you work with paper. If you work with both, choose relatively dim room lighting plus an adjustable reading lamp that you can use for paperwork.

- ?? Position desk light away from the eyes and screen.
- ?? Remove sources of distracting reflective glare (paper, shiny posters, picture frames) around the monitor.
- ?? Adjust brightness and contrast controls on your monitor.
- ?? Ensure that screen is clean.
- ?? Place top of screen at eye level (lower for bifocal wearers).
- ?? Tip the monitor down to avoid reflecting ceiling lights.
- ?? Place the monitor 18 to 30 inches away from your eyes.
- ?? Place the monitor screen perpendicular to the window to reduce glare.
- ?? Adjust or close window coverings to reduce glare.
- ?? Schedule eye examinations.

## EXERCISES

Using a monitor, like other close work, places such demands on your eyes that it is important to take brief (30-second to 2-minute) but frequent pauses

throughout the time you are working with your computer. The recovery pause gives your eyes a chance to recover from fatigue.

During your recovery pause, try some of the following exercises to help you feel refreshed.

Note: Don't do any exercise that feels uncomfortable or causes straining.

Do these exercises to help your eyes feel refreshed:

- ?? Yawning and blinking can help to keep your eyes lubricated.
- ?? Changing focus can help to relax the muscles of your eyes. To try this, look at your fingertip with your arm stretched in front of you, then to a point far away from you, then back to your fingertip.
- ?? Palming can help to relieve eyestrain. To try this, cover your eyes with your hands, while you breathe deeply.
- ?? Do these body exercises during breaks:
- ?? Deep breathing can help relieve tension in your muscles.
- ?? Hand and finger massages can help to keep your hands warm and reduce cramping and stiffness.
- ?? The executive stretch is a good exercise for the entire upper body. To try this, clasp your hands behind your head and gently stretch your elbows back while taking in a deep breath.
- ?? Shoulder shrugs can help to reduce tension or stiffness in the upper back and neck. To try this, gently pull your shoulders up toward your ears and then relax your shoulders downward.

## THE JOYCE INSTITUTE

Ergonomic information was developed in conjunction with The Joyce Institute, a unit of A.D. Little, Seattle WA (206) 441-6745.

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### Package Contents:

Your RF (Radio Frequency) WIRELESS MULTIMEDIA KEYBOARD & Mouse package includes the following:

1. Wireless Multimedia Keyboard (batteries are included)
2. Wireless Mouse (batteries are included)
3. Receiver with cable
4. CD-ROM Driver
5. Quick Installation Guide

Note if any parts are missing, please contact your dealer for a replacement.

### Precaution

Use of this product with a notebook computer is not recommended. This RF wireless mouse is designed to use with desktop computer. PS2 ports of different notebooks have different data format. Some of them might not fully be compatible with this RF wireless mouse. Hence, we highly recommend using this RF wireless mouse with desktop computer. 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.

### Battery Warning!

When replace the batteries, use alkaline. You may use other heavy-duty NiMH 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 and keyboard as back-up devices.

### SYSTEM REQUIREMENTS

Before installing the Yahoo! RF Multimedia Keyboard software, please make sure that the hardware connections of your keyboard are correctly set up. The following system specifications are required:

- ?? IBM PC compatible system
- ?? Microsoft? Windows? 95,98,2000 or NT4.0
- ?? CD-ROM drive (for CD and Video operation)
- ?? Standard sound card (for CD and Video operation)

### When using the 3 power management buttons, particular requirements are needed:

- ?? Microsoft Windows 98 or 2000 Operating System
- ?? The system supporting ACPI or APMII
- ?? ATX mother board and ATX power supply

Please note that not all motherboards support this feature. Please consult with your PC manufacturer to verify compatibility.

### INSTALLATION

#### Step 1. Connecting the Receiver

Before using this RF wireless keyboard, you need to connect the included receiver to your computer.

1. Please close any open programs and shut down your PC as you normally would when exiting Windows.
2. Turn off your computer
3. Remove your current keyboard and mouse connectors.
4. Plug the keyboard cable end into the PS/2 keyboard port or to the AT keyboard port by applying a PS/2 to AT adapter

5. Plug the mouse cable end into the PS/2 mouse port

#### PS/2 version

If you are purchasing a PS/2 version, the receiver comes with a two-headed cable. One is keyboard cable and the other one is mouse cable. There is a small icon on the molding head of each cable, so you can easily recognize the keyboard cable and the mouse cable.



Keyboard cable connector



PS/2 mouse cable connector

#### Selecting the ID Channel

The wireless keyboard & mouse have 256 different ID's to avoid interference with other users of the same model of wireless keyboards or mice. Before using the wireless keyboard and mouse, you must ensure that the same ID is set for the receiver, keyboard and mouse.

#### Please follow the steps as below to set up:

##### Step 1. Installing the Batteries

This RF wireless keyboard uses a AA battery. To apply the battery, please follow the steps below:

1. Turn the keyboard to the upside down.
2. Remove the battery cover by pressing the two tabs and pulling the cover up.
3. There are signs to indicate the placement of the batteries positive and negative poles. Follow these signs very carefully to insert the batteries properly. **Improper insertion of the batteries may cause damage to the keyboard.**
4. Place the batteries cover back and make sure it is firmly closed

##### Step 2.

1. Turn to the bottom of the receiver and you will see a small rectangular hole (take the cover as Fig-1) and a tact switch ID code connection.

##### Step 3.

Establish communication between the receiver and the mouse (select identification codes).

Press and release the "connect" switch on bottom of the receiver.

Within about 6 seconds of the previous step, press and release the "connect" switch on the top-right of the keyboard.



Now the same ID is selected on both of the receiver and the keyboard.

Please press any key of the keyboard to check if it works. If there is problem, please repeat the connection setting procedure once again or check the troubleshooting guide.

#### Step 4. Installing the Software

##### [PLEASE READ THIS BEFORE YOU INSTALL ANY DRIVER](#)

Before installing the mouse driver, it is strongly recommended that you remove all other mouse drivers and application programs

1. Insert the software CD into your CD-ROM drive.
2. The installation program should start automatically. However, if the program does not start automatically, simply locate the 'setup.exe' file in the CD's main directory and double-click on its icon to continue the installation procedure.
3. Follow the on-screen instructions.

**PLEASE NOTE:** After software installation, your keyboard should automatically function in any Windows environment. The wireless mouse controller will be automatically detected by window 95,NT, 2000, ME or XP.

#### To Uninstall the Software

1. **Keyboard Multimedia Functions** - From the Windows Start Menu, locate the Uninstall program under Programs\Media key\, and click on Uninstall Media key to uninstall the keyboard software.

**PLEASE NOTE:** The Media key application should be closed first before you uninstall the multimedia functions.

2. **Mouse Scrolling Functions** - From the Windows Start Menu, locate Uninstall program under Programs\Wireless Scroll Mouse V1.20\, and double-click on Uninstall Wireless Scroll Mouse to uninstall the mouse software

#### Hot-Key Functions

Note: Please make sure that both hardware and software are correctly installed in your system before proceeding to use the Multimedia Keys.

#### The Multimedia Keys on the keyboard are labeled as follows:

**Fig-1**



The Multimedia Buttons on the keyboard are labeled as follows:

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

### **Troubleshooting**

1) I cannot put my computer to sleep using the Suspend Hot Key- If you press the Suspend Hot Key to place your computer into suspend, standby, or hibernation mode. And nothing happens, then you may not have a computer with power management functionality.

#### **To fix this problem**

Refer to your computer hardware documentation regarding power-management operation. Ensure that the power-management settings for your operating system are correct, as described in Windows Help.

2) I cannot wake up my computer by pressing a key- If you pressed the Suspend Hot Key to place your computer into a suspension, standby, or hibernation mode, but cannot then awaken your computer by pressing another key, you may have encountered a problem with the power management functionality. Some systems will not wake up, once they have been placed into a suspend, standby, or hibernation mode.

#### **To fix this problem**

Do not press the Suspend Hot Key to wake up your computer. The Suspend Hot Key is designed to only place your computer into a suspend, standby, or hibernation mode. Refer to your computer hardware documentation regarding power-management operation. Some computers may require you to press a particular button on the computer to wake it up. Ensure that the power-management settings for your operating system are correct, as described in Windows Help.

3) My keyboard or mouse does not work or does not work properly after installation.

#### **To Fix This Problem**

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.

4) My keyboard or mouse is not detected

#### **To Fix This Problem:**

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.

#### **Interference with other radio devices**

Please try to keep the keyboard and the receiver away from other radio devices at least 8 inches (20cm) to avoid any interference.

#### **Interference with other RF wireless keyboard**

Please switch the channel to a different ID. To do so, you need to adjust both receiver and keyboard to the new channel ID. To adjust the channel ID of the receiver, turn to the bottom of the receiver and select a different channel ID from other RF wireless keyboards. To adjust the channel ID of the keyboard, turn the keyboard upside down and remove the battery cover and the batteries. You will see the ID switcher. Select the channel ID to the **exact** same ID of the receiver. If you are using the keyboard within 30 feet of the receiver try to change the location of the receiver. You can use the magnetic pad on the bottom of the receiver to stick at up/left/right side of the computer case.

#### **Keyboard or pointing device is not functioning:**

If keyboard or/and pointing device is/are not functional, please exit from any open programs and turn off the computer as you normally would when exiting Windows.

?? Check that both the keyboard cable and mouse cable is properly and firmly connected to the proper port. Additionally, check that the channel IDs (DIP Switches) of both receiver and keyboard are the same.

?? Make sure that the batteries are properly installed and well connected. When testing use new batteries.

Restart the computer again. If the keyboard or pointing device is still not functional, please contact technical support

## Mouse Installation Section

### Before you begin

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

### Step 1. Installing the Batteries

#### Battery Warning!

**When replace the batteries, use alkaline. You may use other heavy-duty NiMH batteries, but do not mix them with alkaline. Do not mix used and new batteries.**

This RF wireless mouse uses 2 AAA batteries. To install the batteries, please follow the steps below:

1. Turn the mouse up side down (refer to Fig-3.1).
2. Remove the batteries cover by moving the opening tabs and pull the battery cover (the top cover of the mouse) out.
3. There are signs to indicate batteries' positive and negative poles. Follow the signs to insert the batteries.
4. Replace the battery cover and make sure it is firmly closed.

### Step 2. Setting Up The ID Connection

This RF wireless mouse provides 256 identification codes to avoid a wrong linkage with other (same model) wireless mice. Before you using the wireless mouse, please set the same ID channels for both receiver and mouse.

**Please follow the steps as below to set up:**

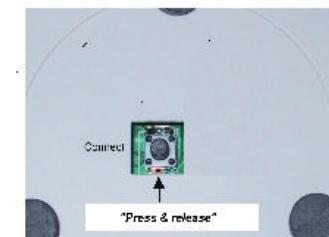
1. Turn to the bottom of the receiver and you will see a small rectangular hole (take the cover as Fig-2.1) and a tact switch (ID code selection, refer to FIG-3.2).
2. Establish communication between the receiver and the mouse (select identification codes).
3. Press and release the connect button on bottom of the wireless mouse.
4. Right after (within about 5 seconds) the previous step, press and release the connect button on the receiver (refer to Fig-3.2).
5. Then the same ID is selected on both of the receiver and the mouse.
6. Please move the mouse to operate its cursor.



**Fig-2.1**



**Fig-3.1**



**Fig-3.2**

### Step 3. Installing the Software

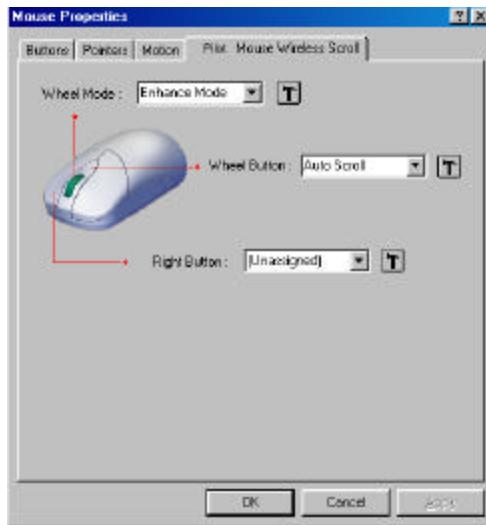
1. Insert the Auto-Run CD-ROM onto CD-ROM driver, simply locate the "setup.exe" file inside the "mouse" icon of the CD's main directory and double-click on it (setup.exe) to start the installation procedure.
2. The setup program will guide you to complete the installation step by step

After you finish the installation of keyboard and mouse driver, select "Restart" to reboot your system to activate the multimedia hot keys and wheel scrolling functions.

### **Operation**

#### **Using the Multimedia Functions**

When you install the included software driver, the left, middle, and right buttons are all definable to perform up to 34 different functions such as AutoScroll, Backspace, Zoom, Page up, Page down.... F1 ...F12, etc.



### Power Saving Mode & Wake Up

When the mouse is idle (not in use) for 2 minutes, it will turn into power saving mode. Please move this mouse for more than 0.3 second or double click any key switch to wake up the mouse (to come out of the power saving mode).

### Troubleshooting

#### 1. Mouse does not function

- ☒ If mouse is not functional, please close all of your open programs and shut down your PC as you normally would.
- ☒ Check the cable is firmly attached to the computer mouse port.
- ☒ Check the channel selection of both the receiver and mouse are the same.
- ☒ Check if the batteries are properly inserted. 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 you used another brand of mouse, did you [uninstall](#) the software for those devices? For more information, refer to the other device's documentation or the original documentation that came with your computer.

#### 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, and other wireless mice.

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. You may need to experiment to determine the locations that are best for your environment.

Normally, the effective transmit distance is about 4 to 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.

#### 3. 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.

For additional suggestions, read the FCC Compliance Statement on the follow page.

### GENERAL SPECIFICATIONS

Digital Radio Frequency wireless mouse with receiver

- ☒ 256 ID selections for your options to prevent interruption.
- ☒ 3 buttons design for multimedia purpose to immediately play
- ☒ The Second, Third buttons assignment
- ☒ Ergonomic design for comfortable grip

### Electromagnetic Characteristics (EMC)

- ☒ EMI: FCC part 15
- ☒ CE - Type acceptance: ETS 300 220 Short range devices

### ELECTRIC SPECIFICATIONS

- ☒ Operating Voltage: Transmitter: 1.8 to 3.2V DC (powered by batteries)  
Receiver: 4.5 to 5.5V DC (powered by PS/2 port)
- ☒ Operating Current: Transmitter: 11mA  
Receiver: 30mA typical
- ☒ Standby Current: Transmitter: 0.2mA or lower
- ☒ FSK transmission, 4K transmission rate with one way error detection

**Federal Communications Commission (FCC) 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. 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 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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**Canadian Department of Communication Notice**

The Canadian department Of Communications (DOC) label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational and safety requirements. The Department does not guarantee the equipment will operate to the user's satisfaction

**Features:**

1. Frequency band : 27.092MHz
2. Auto sleep mode.
3. Phantom key detection.
4. Low power design for stand by state of keyboard.
5. 4K bps band rate in air.
6. ID change solution to resist interference.
7. Compatible with PS/2 Protocol.