

Gyraton Ultra Cordless Optical Mouse

User Manual



Product Specifications

Spec	Ultra Cordless Optical Mouse	RF Receiver
System Requirements	<ul style="list-style-type: none"> ■ Full functionality on Mac and IBM compatible PCs running Windows 2000, ME, XP or higher ■ Available USB port ■ CD ROM drive (for GyroTools installation) ■ Microsoft or Mac compatible mouse driver 	
Size	4.8"L x 2.0"W x 1.8"H (12.2cm x 5.1cm x 4.5cm)	5"L x 4"W x 2"H (13cm x 10cm x 5cm)
Weight	5.3 oz (150g) with battery pack	4 ounces (124g)
Operating Range	<p>Consumer model - Up to 25 feet (7.6m) typical with no line-of-sight requirement</p> <p>Professional model - Up to 100 feet (30.5m) typical with no line-of-sight requirement</p>	N/A
Radio	49 MHz (U.S.) with 8 channels and 65,000 security addresses	N/A
Batteries	<ul style="list-style-type: none"> ■ NiMH battery pack ■ 3 AAA batteries (AAA battery clip included with professional model only) 	N/A
Connector	N/A	USB with 5' (1.5m) cable
Operating Temp	+10 to 40 C (+50 to +104 F)	
Storage Temp	-30 to +70 C (-86 to +158 F)	

Gyration Ultra Cordless Optical Mouse

Identifying the Parts



Included with your mouse are the following components:

Ultra mouse - Consumer: mouse handset, charging station, RF receiver, NiMH battery pack, AC adapter

Ultra mouse - Professional: mouse handset, charging station, RF receiver, 2 NiMH battery packs, inline charger, AAA battery clip, GyroTools CD, AC adapter

Installing and Charging the Batteries

The Ultra mouse comes with a NiMH battery pack already installed but you will need to remove the plastic insulator tab located inside the battery com-

partment. This clear plastic tab prevents the battery from discharging until you are ready to use your mouse.

1. Press release button on the end of the mouse and lift battery pack off.
2. Remove and discard plastic tab.
3. Replace battery pack by snapping into place.

Important! Your mouse must be charged for 8 hours prior to first use. To charge your mouse:

1. Be sure that the NiMH battery pack is firmly in place.
2. Connect power adapter to charging cradle and plug into AC power source.
3. Place mouse handset into charging cradle. LED on cradle will light solid. LED indicator on mouse will flash slowly while batteries are charging and maintain a steady glow when fully charged. (You may remove the mouse from the charging cradle at anytime -- you do not need to wait for the LED to stop flashing.)

Note: When battery reaches 20% of a full charge the LED indicator will blink intermittently when transmitting data. To optimize the performance of your NiMH battery, it is best to recharge after every use.

The NiMH battery pack can also be charged in a remote location using an inline charger (included with the Ultra mouse professional model and available for purchase as add-on accessory):

1. Press release button on the end of the mouse and lift battery pack off.
2. Connect power adapter to inline charger and plug into AC power source.
3. Place battery pack into charger cradle to begin charging. LED indicator on cradle will light solid.

A standard alkaline battery clip may also be used with your mouse (included with the Ultra mouse professional model and available for purchase as add-on accessory):

1. Insert 3 AAA batteries into battery clip.
2. Attach battery clip to mouse by snapping into place.

Setting Up and Synchronizing Ultra Mouse and the Receiver:

1. Make sure the mouse is fully charged.
2. Power on your computer and connect the Receiver's USB cable into an available USB port on your computer. Follow standard USB device installation screens.
3. Press and hold the LEARN button on the Receiver for 2 seconds. The STATUS light will blink slowly, indicating that the receiver is in "Learn Mode."
4. Press the TEACH button located on bottom of the mouse handset. The status light on the Receiver will blink rapidly for 4 seconds, then will blink slowly. Push the TEACH button on any additional devices (*i.e.* keyboard or 2nd mouse) at this time.
5. OPTIONAL: To exit "Learn Mode," press the LEARN button on the Receiver for 2 seconds. Otherwise, after five minutes, Learn Mode will automatically time out.

If more than one Gyration device is being installed on the system, place the Receiver into Learn Mode (step 3 above) only once, then "Teach" each device before exiting Learn Mode. Do not push the Learn button on the receiver for each device to be added. (Also see "Installing 3 or More Devices" on page 9.)

When the Receiver is put into Learn Mode, it erases its memory of learned devices and looks for new devices. Therefore, when adding a new device to a system it is necessary to put the Receiver into Learn Mode then Teach all devices that will be used on the system.

Note: After the Teach/Learn sequence is performed, the Receiver and the device will remain synchronized after powering down and changing channels. It is only necessary to perform the Teach/Learn sequence when setting a device up for the first time or when adding additional devices to the system.

Determining Which Channel Ultra Mouse is Using

The Ultra mouse has eight individual channels available to it. To determine which channel a device is currently using:

1. Press and quickly release the CHANNEL button on the bottom of the mouse handset. Count the number of times the red LED on the bottom of the handset or the green LED on the top of the handset flashes. The number of flashes indicates the channel the handset is using.

Changing the Channel Ultra Mouse is Using

When two devices are being used in the same proximity, each device should be set to operate on a unique channel. For best reception, space the channels apart by one or more channels.

To change the channel:

1. Press and hold the CHANNEL button on the bottom of the mouse handset for 2 seconds. When you release the button, the mouse will change to the next channel and the red LED on the bottom of the handset and the green LED on the top of the handset will flash. The number of flashes indicates the new channel the handset is using.

If a Teach/Learn sequence has already been performed, it will not be necessary to re-synchronize the devices after a channel change.

Note: If the mouse's channel is changed when the computer is powered down or the receiver is not connected, the devices will become unsynchronized. When the system is running, click and release the channel button as described above to initiate a "channel confirm" operation. The mouse broadcasts a message across all eight channels that informs the receiver what channel it is currently operating on. The receiver then automatically restores synchronization.

Tip: If you are installing three or more devices on a single receiver, see "Installing 3 or More Devices" on page 9.

Using Ultra Mouse on the Desktop

The Ultra mouse provides great flexibility in how you control your computer

and its optical sensor allows for precise tracking on virtually any surface (for optimal performance, avoid highly reflective glass or mirrored surfaces). To use on the desktop:

1. Set up and synchronize the mouse with the Receiver (see page 3).
2. Remove the fully charged mouse from the charging cradle and place it on a flat surface. The LED light on the receiver base will flicker rapidly when communicating with the mouse handset.
3. Use the mouse like a standard desktop mouse.

In addition to its optical sensor, Ultra mouse features an advanced reflective sensor that detects when the mouse is being lifted off the desktop. To conserve battery life, this sensor powers on the Gyro and shuts down the optical sensor each time the mouse is picked up.

The Ultra mouse uses standard Windows and Mac mouse drivers. Cursor tracking speeds, mouse double-click speeds, and other options can be customized using the Mouse Control Panel under Windows 98, 2000, ME, XP or Mac OS 8 and above (see operating system documentation for further information about customizing mouse properties).

Using Ultra Mouse in the Air



The Ultra mouse has no line-of-sight requirements so it's not necessary to point the device at the computer, receiver or monitor. Find a comfortable, relaxed position and move the cursor with easy wrist movements.

1. Set up and synchronize the mouse with the Receiver (see page 3).
2. Hold the mouse in a comfortable, relaxed position with your index finger on the ACTIVATION TRIGGER and your thumb at the base of the scroll wheel (see illustration).
3. Press and hold the ACTIVATION TRIGGER with your index finger.

While holding the ACTIVATION TRIGGER, flex your wrist up, down, sideways, in a manner similar to using a flashlight. The mouse cursor tracks the motions of your hand.

4. Use your thumb to press the left/right mouse buttons or to operate the scroll wheel.
5. Double-click the ACTIVATION TRIGGER to keep the cursor continuously active. To stop the cursor, click the ACTIVATION TRIGGER once.

Powering Off Ultra Mouse

To power off the Ultra mouse:

1. Simultaneously press and release the CHANNEL button and TEACH button on the bottom of the unit. The mouse will immediately enter deep sleep mode and will be unresponsive to button clicks. The unit will confirm it is powering off by flashing its LED three times.
2. Repeat this sequence to power the unit back on. The unit will confirm it is powering on by flashing its LED for 1 second.

Note: It may be necessary to power off the unit when traveling on commercial airlines due to FCC regulations regarding radio-emitting devices.

Fine-tuning Cursor Control

The Ultra mouse uses your standard Windows mouse driver. Any settings that are available to a standard desktop mouse are also available to Ultra mouse. Multiple factors will determine how you adjust your mouse to suit your preference including screen resolution, mouse driver version and overall personal preference. While becoming familiar with your mouse and getting a feel for the GyroPoint method of cursor control, Gyration recommends adjusting your mouse driver to the following settings:

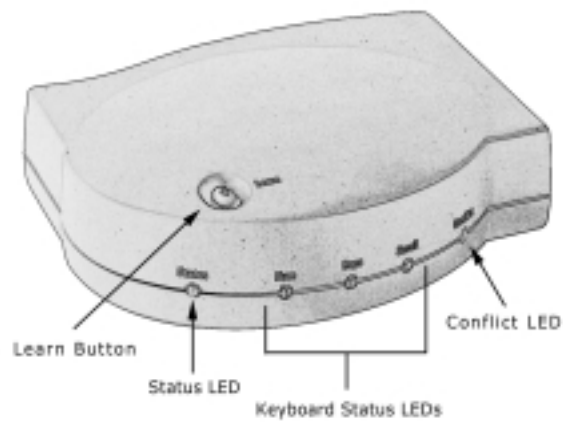
- Pointer Speed – Average. Some new users prefer this setting to be slightly slower than average. Advanced users will increase the speed so that less wrist movement gives them more screen

- coverage with the cursor.
- Acceleration – Low or Off.

Ultra Mouse Troubleshooting Tips

Symptom	Reason	Solution
Mouse LED comes on when activate button is pressed, but receiver is unresponsive	Mouse and Receiver not Synchronized	Perform a Teach/Learn sequence. (See "Getting Started" on page 1.)
Cursor is visible but shows no movement	Gyro not activated	Squeeze or double-click trigger on bottom of mouse.
Cursor movement is choppy or erratic	Radio interference	<ol style="list-style-type: none"> 1. Change the device's channel setting. (See "Changing the Channel Ultra Mouse is Using" on page 4.) 2. Move receiver away from other electronic devices (e.g. monitor, speakers, radio, etc.).
When pressing the activate button, the LED on the mouse is flashing	Batteries are low	Replace or recharge batteries (see page 1)
When pressing the activation trigger, the LED on the mouse is off	Batteries are dead	
Cursor moves too fast or too slow	Speed or acceleration not set properly	Change the cursor tracking speed in the mouse control panel (see OS documentation for details).

Gyration RF Receiver



Learn Button

Pressing the LEARN button for 2 seconds puts the receiver into “Learn Mode” allowing you to synchronize one or more devices with the receiver. After devices have been synchronized, pressing the LEARN button again for 2 seconds takes the receiver out of Learn mode. If the receiver is not manually taken out of Learn Mode, it will automatically return to Normal Mode after five minutes.

Status LED

The Status LED displays useful information about modes of operation and the connection between receiver and transmitter(s).

- The Status LED remains off when the receiver is operating in “Normal Mode” and no devices are transmitting.

- The Status LED flickers rapidly when the receiver is operating in “Normal Mode” and a synchronized device is transmitting. If there is radio interference, the flickering light will be inconsistent.
- The Status LED blinks slowly (1 blink per second) when the receiver is in Learn Mode and is awaiting a Teach instruction from a device.
- The Status LED blinks rapidly for a 4-second burst when it is in Learn Mode and processing a Teach instruction and synchronizing the receiver with the device.

Keyboard Status LEDs

The Keyboard Status LEDs will indicate whether your computer has the Num Lock, Caps Lock and/or Scroll Lock features activated.

Conflict LED

If an unrecognized Gyration device is attempting to operate on the same channel as a device that has been synchronized, the red “Conflict” LED on the receiver will flicker and input control may be intermittent.

The Conflict Light will only detect interference from another Gyration RF device (i.e. not cordless phones, personal radios, etc.).

Installing 3 or More Devices

The Receiver can be taught to recognize up to eight devices (mice, remotes, keyboards, etc.) on a system, but only two of those devices may be used simultaneously. When setting up a system with a single receiver and 3 or more devices, the following guidelines must be followed:

- Select two channels that are free of outside interference and install all devices on either of those two channels. When possible, it is recommended that the two chosen channels be separated by at least one unused channel.
- Any of the devices installed on one channel may be used

simultaneously with any of the devices on the other channel. Two devices that share a channel may not be used simultaneously. When installing the devices try to determine which devices will be used simultaneously and set them on opposite channels.

The following example describes a single-receiver system with two mice and a keyboard that requires one mouse to be used by a presenter for cursor control while another presenter inputs data on the keyboard. Mouse #1 is set to channel 3 and the keyboard and mouse #2 are set to channel 5. With this configuration, mouse #1 and the keyboard can be used simultaneously, but mouse #2 and the keyboard cannot.

Note: Gyration carries both a consumer and professional line of RF products. Please note that a low-power consumer device (*i.e.* Ultra mouse with 25-ft. range) should not be used simultaneously with a high-power professional device (*i.e.* RF Keyboard with 100-ft. range). One or both devices may not work properly if data is being transmitted by the two units at the same time. For optimal performance, it is recommended that you alternate usage between the devices.

REGULATORY INFORMATION

ATTENTION! THIS DEVICE EMITS RADIO FREQUENCIES AND HAS NOT BEEN CERTIFIED BY THE FAA FOR USE ONBOARD AIRCRAFT. DO NOT USE THIS DEVICE AT ANY TIME ONBOARD CIVIL AIRCRAFT. TO MINIMIZE THE POSSIBILITY OF INTERFERENCE, POWER OFF MOUSE TO ENSURE THAT IT REMAINS OFF DURING FLIGHT.

FCC Statement

The Ultra Cordless Optical Mouse and RF Receiver have 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 radiates 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:

1. Reorient or relocate the receiving antenna (television, radio, etc.).
2. Increase the separation between the equipment and receiver.
3. Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for additional help.

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Contact Gyration, Inc., 12930 Saratoga Avenue, Bldg. C, Saratoga CA 95070. Technical Support phone: 408-973-7086. These devices comply with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1. these devices may not cause harmful interference, and
2. these devices must accept any interference received, including interference that may cause undesired operation.

The mouse operates in the frequency band of 49.82 to 49.9 MHz with RF output power of less than 30 MicroWatts EIRP (Effective Isotropic Radiated Power).

Warning: Using these products in any way other than as described in this manual or altering the antenna in any way may violate FCC rules.
FCC ID: JJ4-AS00245 (Ultra Cordless Optical Mouse)
Receiver: AS00216-001

Canadian Radio Interference Regulations

This Class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouil-leur du Canada.

Contacting Gyration

If you have any questions on your new Gyration product, please use any of the phone/FAX numbers or addresses below:

Main Office

Gyration, Inc.
12930 Saratoga Avenue, Bldg. C
Saratoga, CA 95070
USA
Phone: 408-255-3016
Fax: 408-255-9075

Sales

Phone: 800-316-5432 (Toll-free in US and Canada)
Fax: 408-351-4433
E-mail: sales@gyration.com

Technical Support

Phone: 408-973-7086
E-mail: support@gyration.com

World Wide Web

www.gyration.com

Warranty Information

Gyration products come with a one-year hardware warranty. Gyration, Inc., (Gyration) warrants products against defects in material and workmanship for a period of one year from the date of purchase from Gyration or an authorized Gyration agent. This warranty applies only to the original purchaser and is not transferable. This warranty does not cover any incompatibilities due to the user's computer, hardware, software or any other related system configuration in which the product interfaces. Proof of purchase will be required before any warranty consideration by Gyration occurs. This warranty does not cover any damage caused by negligence, non-authorized modifications, or parts installed without prior written

permission from Gyration. This warranty does not apply if the product has been damaged by accident, abuse, misuse, or misapplication, nor as a result of service to the product by anyone other than by Gyration.

Gyration is not responsible for any lost profits, lost savings or other incidental or consequential damages arising out of the use of, or inability to use, this product. This includes damage to property and, to the extent permitted by law, damages for personal injury. This warranty is in lieu of all other warranties including implied warranties of merchantability and fitness for a particular purpose.

Some states do not allow limitation of implied warranties, or exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you. This warranty gives you specific legal rights. You may have other rights which may vary from state to state. This warranty applies only to these products, and is governed by the laws of the State of California.



Gyration Ultra Cordless Optical Mouse
User Manual

Gyration, Inc.
12930 Saratoga Avenue, Bldg. C
Saratoga, CA 95070
1.800.316.5432
www.gyration.com