

The Revolution of Freedom

3D Cat eye

makes your OS.

Fantastic



Cordless

No cable connection with computer.
RF interface design.

New principle

Operation based on gravity acceleration
measuring principle.

No Pad Required. No flat table space required.

Ergonomic Design

More cursor movement on the screen with less
movement of the arm.

Only human natural and instinctive movements
of the hand wrist to control screen cursor.

No additional movements of the hand between
keyboard and pointing device.

Software drivers

Use Standard mouse drivers for Serial or PS/2
mouse.

All necessary drivers already included into OS
package.

Connecting port

Plug into Serial or PS/2 mouse port.

Automatic port recognition and calibration.

Operating system

Not dependable on operating system.

Compatible almost with any OS.

24-bit Personal Code

Allows operation of many devices of this type in
one room with no harmful interference between
them.

No undesired operation from other RF devices.

Microcontroller-based

Both Transmitter and Receiver are equipped
with microcontrollers.

Distance

Stable operation on distance around ~~5-8~~ ²⁻³ meters
away from computer.

Frequency

Operating frequency is 433.92 MHz.
(Any frequency according to local regulations is
available.)

Small size and light weight

Just suit your finger size.

Power

2 pcs. of 1.5V alkaline LR-44 batteries.



Luckytech

Luckytech Technology Co., Ltd.
<http://www.luckytech.com.tw>

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This product is a Wireless Pointing device for a computer.

Advantages:

- Cordless. No cable connection with computer. It allows to operate from the distance around 2-5 meters away from computer.
- Free of Mechanical Parts. High performance reliability. No cleaning required.
- Operation based on gravity acceleration measuring principle. No Pad Required. No flat table space required.
- Ergonomic Design. More cursor movement on the screen with less movement of the arm. Only human natural and instinctive movements of the hand wrist to control screen cursor. No additional movements of the hand between keyboard and pointing device.
- Now it is possible to type on keyboard with pointing device on your hand.
- Each device has an individual code. It allows operation of many devices (up to 16) of this type in one room with no harmful interference between them.

How to Use

This cordless pointing device includes 2 units: Transmitter and Receiver. Receiver is plugged to computer port. Transmitter is placed on the finger of your hand. Screen cursor is operated by hand wrist movements. Operating distance is around 2-5 meters.

Individual Code

Transmitter and Receiver are preprogrammed at factory to recognize only each other. Code Number (0-15) can be found on the sticker on the front side of package. No Transmitter from the other pair, no other cordless device can operate your Receiver and cause undesired operation.

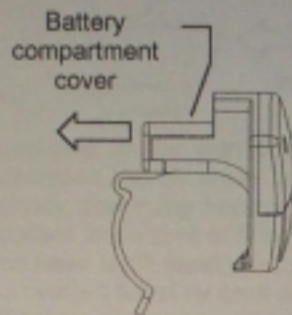
Important note: *If you want to use several devices near each other (in the same room), please choose devices with different Code Numbers.*

Connecting the Receiver

Connect Receiver plug into PS/2 6-pin mouse port. Place Receiver in any suitable location – on the table or on top of computer housing or near a monitor or on top of a monitor. Receiving conditions are different in different locations, so find suitable one according to your requirements. For better performance keep computer cables as far as possible from the Receiver unit. Receiver is powered from computer port.

Note: Receiver also can be plugged into serial computer port. Optional adapter required.

Installing the Batteries into Transmitter



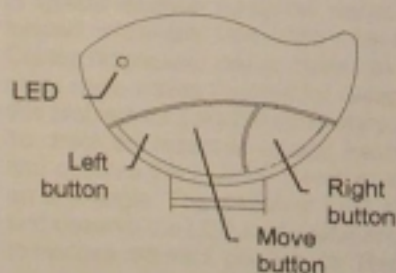
1. Remove the battery compartment cover from the bottom of Transmitter unit by pressing it by the thumb and sliding down.
2. Place two LR44-type 1.5V alkaline batteries inside the Transmitter unit. Observe the polarity printed near the battery contacts. A diagram shows the correct battery position.
3. When the batteries are installed, carefully slide the cover back into place.
4. To check the battery, press Right button on Transmitter. In the case of correct battery installation LED on top of Transmitter unit will flash.

Installing Drivers

According to the connection type, Standard Serial Mouse driver or Standard PS/2 Mouse driver should be installed. It is correct for any operating system. For some operating systems computer should be switched off before PS/2 mouse installation.

Operation

Place the Transmitter unit on a pointing or middle finger of your hand. Make sure you feel comfortable to press buttons by you thumb.



Totally there are 2 buttons on Transmitter unit. First button is double-action button. Pressing to the right side will cause pressing of Movement button. Pressing more strong or to the left side will activate Left mouse button. Movement button initiates cursor movement. Left button function is equivalent to Left button function of standard mouse. Right button

function is equivalent to Right button function of standard mouse.

To move the mouse cursor on screen press and hold Movement button. Then tilt your hand wrist on some angle and cursor will begin to move. When cursor will reach the destination, release all buttons and cursor will stop. The cursor movement direction and speed depends on hand wrist tilt and tilt angle.



Tilt to the right - cursor will go right.

Tilt to the left - cursor will go left.

Tilt forward - cursor will go up the screen.

Tilt backwards - cursor will go down the screen.

The speed of cursor movement depends on tilting angle relative to the start angle. The start angle is fixed at the moment of any button pressed. Later, during holding any button pressed, cursor speed depends on current tilting angle

relatively to the start position. Tilt hand wrist more - cursor will move faster, decrease the tilt angle back to the start position - cursor on screen will move slowly. Returning hand wrist to starting position will stop cursor on screen. The correct movement of hand wrist see on pictures. To move cursor on long distance no need to tilt hand wrist more and more - just tilt on any comfortable angle and cursor will travel by itself until you release buttons or return tilt to start angle.

To move cursor on screen with Left or Right buttons pressed, just press button you need and control cursor by wrist tilt. No need to press Movement button in this case.

The LED on top of Transmitter unit flashes only when Right button is pressed. The main purpose of this LED is to check the battery. LED does not flash when other buttons pressed in order to extend battery life.

To change or adjust cursor movement speed is also possible by software. Refer to the manual on your operating system or manual on standard mouse driver currently in use.

Finding the Right Position for Receiver

In typical desktop computer serial port connectors and/or PS/2 connectors are located on the rear side of the main unit, where almost all computer cables located. Cables (especially power cable) as well as uncovered slots in computer housing emits radio waves harmful for reception quality of any cordless device. Almost no this problem for portable computers.

To check the reception quality, keep the Transmitter unit close to the Receiver unit and observe the LED on Receiver side. Press any button on Transmitter and tilt it on any angle. The Receiver LED should flash steadily. Try more longer distance and observe the LED flash behavior. If at longer distance LED flashes unstable, try to choose different position for Receiver or arrange computer cables away from

receiver, place all slot covers to isolate Receiver from harmful interference. Check reception quality again. Usually good results can be obtained by placing Receiver on top or on bottom of monitor. Adjust Receiver position in order to observe LED status easily.

Maintenance

This device is free of moving mechanical parts that require cleaning.

There are not user-adjustable parts outside and inside this device.

Transmitter battery check can be performed by pressing and holding Right button and tilt device on any angle. In case of enough battery power, LED on top cover of transmitter will flash. If LED does not flash or goes off after a short period of time, change the batteries. Refer to the appropriate chapter of this manual.

Battery life

Battery life depends on the type of batteries installed and on the frequency of use and on the type of application. In average, when LR44 alkaline batteries installed, battery life will be around 100 hours of permanent movement. For typical business application it is approximately equal to 3-5 months of operation. For action game applications this time can be much shorter.

Battery Warning

When replacing the batteries, use only alkaline 1.5V LR44-type batteries. Do not mix batteries of different types. Discard all used batteries according to the battery manufacturer's instructions. Exercise care when handling batteries. When batteries are misused, they may explode or leak, causing burns and personal injury. Do not open a battery or mutilate, dispose of in a fire, expose to heat above 212 F (100 C), immerse in water, install improperly, or recharge. Conducting materials, such as rings, bracelets, and keys, can short out a battery causing it to overheat and possibly leak or explode. When you are not using your cordless device for a long periods of time, remove the batteries and store them in a dry place at normal room temperature.

Troubleshooting

Mouse not detected

- The receiver should be plugged into the right port - serial COM1, COM2, COM3 or COM4 or to PS/2 port.
- Reboot the system. Make sure that correct mouse driver is loaded.
- During plugging into the port connector or during initialization by drivers the LED on the Receiver unit should flash at least once.
- If plugged into the serial port, take in consideration that Receiver consumes 10mA from serial port. Serial ports from different manufacturers can have

different specification. Check the computer manual. If power capability for serial port is less than 10mA and after plug-in mouse initialized but cannot move – change connection to PS/2 port.

- If plugged into the serial port, make sure that the serial port is configured correctly (IRQ and ADDRESS settings have standard values). Refer to your computer documentation for serial port configuration. Also try to connect this device to another serial port.
- Some portable computers with pointing device built-in do not initialize any mouse on serial ports. In this case try to plug your device into PS/2 mouse port.
- If plugged into PS/2 mouse port, make sure PS/2 port is configured properly. The PS/2 mouse port uses IRQ 12. Check your computer documentation. Also try to connect device into serial port of your computer.
- You may have other system devices (e.g., a modem card) that conflicts with the mouse driver. Check the IRQ/address settings of these devices and change the settings as required.

The cordless device does not work or the cursor does not move.

- Check the battery by pressing Right button on Transmitter unit. If LED does not flash or goes off after a short period of time, change the batteries. Refer to the appropriate chapter of this manual.
- Check the reception quality. Keep Transmitter unit close to the Receiver unit and observe the LED on Receiver side. Press any button on Transmitter and tilt it on any angle. The Receiver LED should flash steadily. Try more longer distance and observe the LED flash behavior. If at longer distance LED flashes unstable, try to arrange computer cables away from receiver, place all slot covers to isolate Receiver from harmful interference. If can not achieve acceptable results, install optional antenna for the Receiver unit. Refer to the appropriate chapter of this manual.

Using Cordless Devices on Airplanes

Aviation regulations do not permit the use of radio devices on airplanes because such devices interfere with an aircraft's electronic systems. When travelling by air, do not use your cordless device. Make sure that you have removed the batteries from the Transmitter unit.