

# Wireless Optical Mouse Specifications

## Introduction

2.4-GHz, New Low power RF technology, high processing speeds

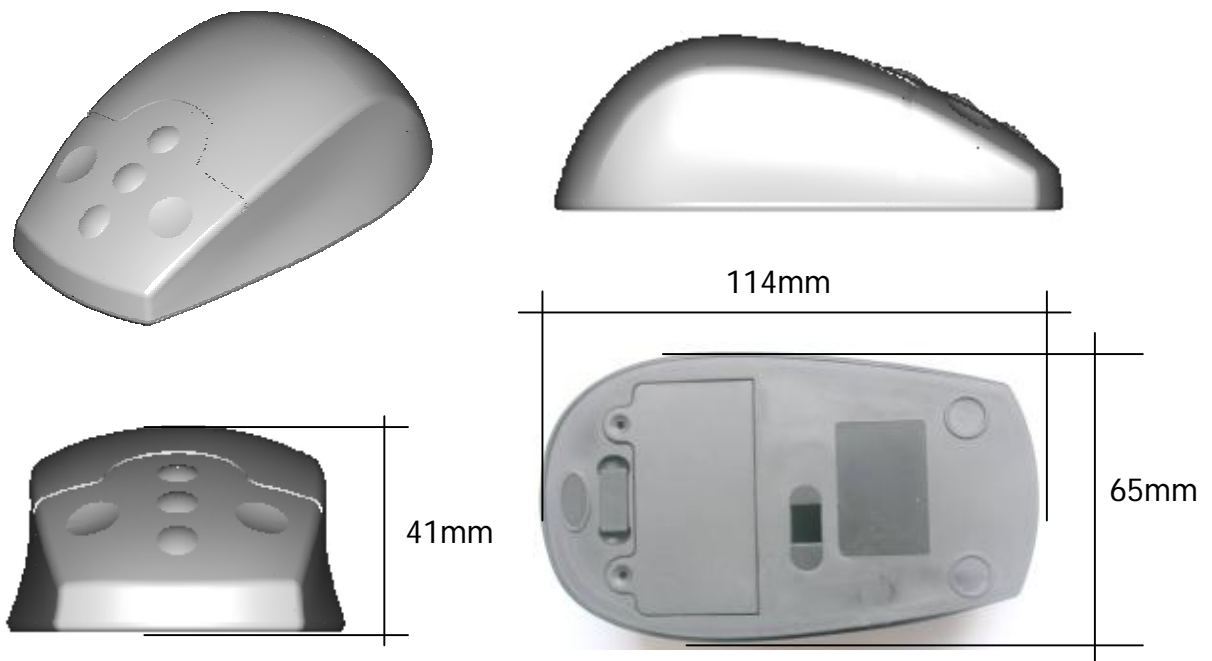
- I Housing Color: TBD
- I Resolution: - 1000 DPI
- I Compatibility: - Mac, Microsoft® Windows®7/8/Vista®/XP/2000/ME/98
- I Working Range: - up to 10 meters (30 feet, Straight line, without barriers)
- I battery: - AAA Dry cell x 2 pcs (TBD mAh)

## Physical Specification

### Dimension

#### Mouse

- Height: 114.00 mm
- Length: 65.00 mm
- Width: 41.00 mm



### Weight

Mouse : 100 g  $\pm$ 5 g (without battery)

### Button/Switch

Mouse : Wireless Optical mouse is full sized and features a 5-button design for right & left clicking and scrolling up & down just like a conventional mouse.

### PCB

- Material: FR4/Bakelite

- Flammability: 94V0

### Enclosure

- Material: 100% Silicone rubber
- Hardness: > 60 degrees
- Flammability: FV- 0
- Heat resistance: 200 ° at 10,000 hours of continuous use;
- Cold resistance: -50 degrees to -70 degrees still has good elasticity,

### Button Force

Mouse:

Left & Right Button : 80 ± 15 gf

3 pcs Operating force of middle Button: 80 ± 15 gf

### Foot Pads

Mouse:

- Material: U.P.E.

### Wireless Specification

#### Mouse

- I Wireless USB
- I Fully integrated 2.4-GHz radio on a chip
- I Mbps over-the-air data rate
- I Transmit power typical: 0 dBm
- I Receive sensitivity typical: -87 dBm

### Electrical Characteristics

#### 4.1 Mouse Mode

##### 4.1.1 Power consumption

Test Condition : +3V DC±15%

STATUS	MAX. CURRENT
Operating voltage	1.2 V to 3.3 V
Working Current	≤6.0 mA ±5%
I Sleep (10 sec) (8 sec)	0.12 mA ±5%
II Sleep (sleeping) (10 mins)	0.09 mA ±5%

### Battery Life

- Maximum 48.0 weeks based on below calculation formula.

## Tracking Performance

- I Speed: 3000 frame / s
- I Transmission speed: 256 K bit / sec
- I Report Speed: 125 RPS
- I Frequency range: 2402MHz ~ 2479MHz

## Environment

### Operating Temperature and Humidity

- I Temperature: 0°C to 70°C (32°F to 158°F)
- I Humidity: 100%

### Storage Temperature and Humidity

- I Temperature: -20°C-70°C (-4°F to 158°F)
- I Humidity: 100%

## Reliability Specifications

### Switch Life Test

Operating force of Left & Right Button:	100±5 gf
Operating cycles:	100,000 Cycles
Switching speed:	≤3 cycles/sec
Operating force of Middle Button:	100±5gf
Operating cycles:	100,000 Cycles
Switching speed:	≤3 cycles/sec

Judging Criteria: The switch actuation has to be functional.

### Moisture Test

Protection level: IP65

### Heat Cycle Test

Temperature: -30 ±2°C for 1 hour and then 70 ±2°C for 1 hour

Storage time: 10 cycles.

After this test the mouse shall be left in room temperature for 1 hour.

Judging Criteria: No functional defect should be found.

### Drop Test

Number of Drops: 6 times

Height: 80 cm

Direction: 6 faces.

Floor surface: Carpet.

Judging Criteria: No functional defect should be found

**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 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 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.

To assure continued compliance, any changes or modifications not expressly approved by the party.

Responsible for compliance could void the user's authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices).

**RF warning statement:**

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

**Caution:**

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