

# Product Specification

Description	wireless mouse
Model	RWM-001
Specification	2.4G,800~1600DPI,6 buttons
Color Requirement(mouse)	Upper Case (Button): Middle Post: Bottom Case:
Color Requirement(keyboard)	Upper Case (Button): Bottom Case:
Color Requirement(receiver)	

# **1. General**

## **1.1 Purpose**

This document contains a functional and performance specification of the 2.4G wireless mouse. It is mainly dedicated for ODM customers.

## **1.2 Scope**

This model is a 6D 2.4G wireless mouse with DPI button.

## **1.3 Product features**

2.4G RF technology offers greater range up to 33 feet away from the USB receiver, and enable less interferences in your WiFi environment

High resolution optical mouse delivers precise cursor movement and can be used on most surfaces.800/1600DPI Ajustable by DPI button.

Easy Installation. don't need the code, plug and play

Ergonomics design, comfortable for using

6 buttons with scrolling wheel and DPI/Forward/Backward button

## **2. Physical specifications**

### **2.1 Pictures**



### **2.1 Measurements**

106(L)\*64(W)\*39(H)mm

### **2.2 Weight**

63.5g

### **2.3 IC**

Mouse Sensor:8650

Receiver: 6206

### **2.4 PCB**

Material: FR-4

Flammability: 94 V0

### **2.5 Upper Case (Button)**

Material: ABS

Flammability: 94 HB

Color: **To be customized.**

Painting: **To be customized.**

### **2.6 Middle Post**

Material: ABS  
Flammability: 94 HB  
Color: **To be customized.**

## **2.7 Bottom Case**

Material: ABS  
Flammability: 94 HB  
Color: **To be customized.**

## **2.8 DPI button**

Material: ABS  
Flammability: 94 HB  
Color: **To be customized.**

## **2.9 Forward/Backward button**

Material: ABS  
Flammability: 94 HB  
Color: **To be customized.**

## **2.10 Label Image**

**To be customized.**

## **2.10 Logo Position**

**To be customized.**

# **3. Mechanical Characteristics**

Operating force of switch: 65~85gf (Switch only)  
Mouse button operating force: 120±20gf.  
Scroll rotate force: 50±30gf-cm

# **4. Functional Characteristics**

Mouse:  
Buttons Number:6 buttons.(left,right,middle,DPI,Forward,Backward)  
Switch Number:2 swithcs(wheel switch,power switch)  
Resolution:800/1600DPI,switched by press the DPI button

Receiver:  
Interface:USB

# **5. Electrical Characteristics**

Mouse:

Operating voltage: DC 2.2~3V.11  
Operating current: 15mA(Moving)  
Standby current: 200uA(1minute after no moving)  
Battery required:1\*AA alkaline battery.

Receiver:  
Operating Voltage: DC 4.5~5.5V  
Operating Current: 30mA  
Suspend Current: 100uA

## **6. Environment**

### **6.1 Operating temperature and humidity**

Temperature: 0°C to 40°C

Humidity: 90% RH or less

### **6.2 Storage temperature and humidity**

Temperature: -15°C to 60°C

Humidity: 90% RH or less

## **7. Reliability specifications**

### **7.1 Switch Life Test**

Switching speed: 2 cycles/sec.  
Operating force of mouse switch: 70±20gf.  
Operating cycles: 1,000,000 cycles.  
Operating force of keyboard switch: 50±20gf.  
Operating cycles of Scroll's switch: 500,000 cycles.  
Judging Criteria: No functional defect should be found for the switch actuation.

### **7.2 Scroll Wheel Life Test**

Switching speed: 1 cycle/sec.  
Operating rotate force: 50±30gf.-cm  
Operating cycles: 100,000 cycles  
Judging Criteria: No functional defect should be found for the switch actuation.

### 7.3 High Temperature Test

Temperature:  $60\pm 2^{\circ}\text{C}$   
Storage time: 96 hours.  
Humidity:  $50\pm 5\%$  R.H.  
After this test the mouse shall be left in room temperature for 1 hour.  
Judging Criteria: No functional defect should be found.

### 7.4 Low Temperature Test

Temperature:  $-15\pm 2^{\circ}\text{C}$   
Storage time: 96 hours  
After this test the mouse shall be left in room temperature for 1 hour.  
Judging Criteria: No functional defect should be found.

### 7.5 Moisture Test

Temperature:  $40\pm 2^{\circ}\text{C}$   
Humidity:  $96\sim 95\%$  R.H.  
Storage time: 96 hours.  
After this test the mouse shall be left in room temperature for 1 hour.  
Judging Criteria: No functional defect should be found.

### 7.6 Heat cycle test

Temperature:  $-15\pm 2^{\circ}\text{C}$  for 1hr and then  $60\pm 2^{\circ}\text{C}$  for 1hr  
Storage time: 3 cycles.  
Humidity:  $0\sim 90\%$  R.H.  
After this test the mouse shall be left in room temperature for 1 hour.  
Judging Criteria: No functional defect should be found.

## 8. System Requirement:

- An available USB port
- IBM-compatible PC or Mac
- Windows 98/SE/ME/2000/XP/Vista/Win7/Win 8/Win 10 Mac OS X(10.2x or later)

**FCC Caution:**

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.

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

**Note:** 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.

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