# Manual

1.Overview

This specification defines this product as a Bluetooth and 2.4 double module wireless mouse,it can be used for iPad,laptop ,desk computer,cell phone;

Part size

HAS-QR-DD-030   4
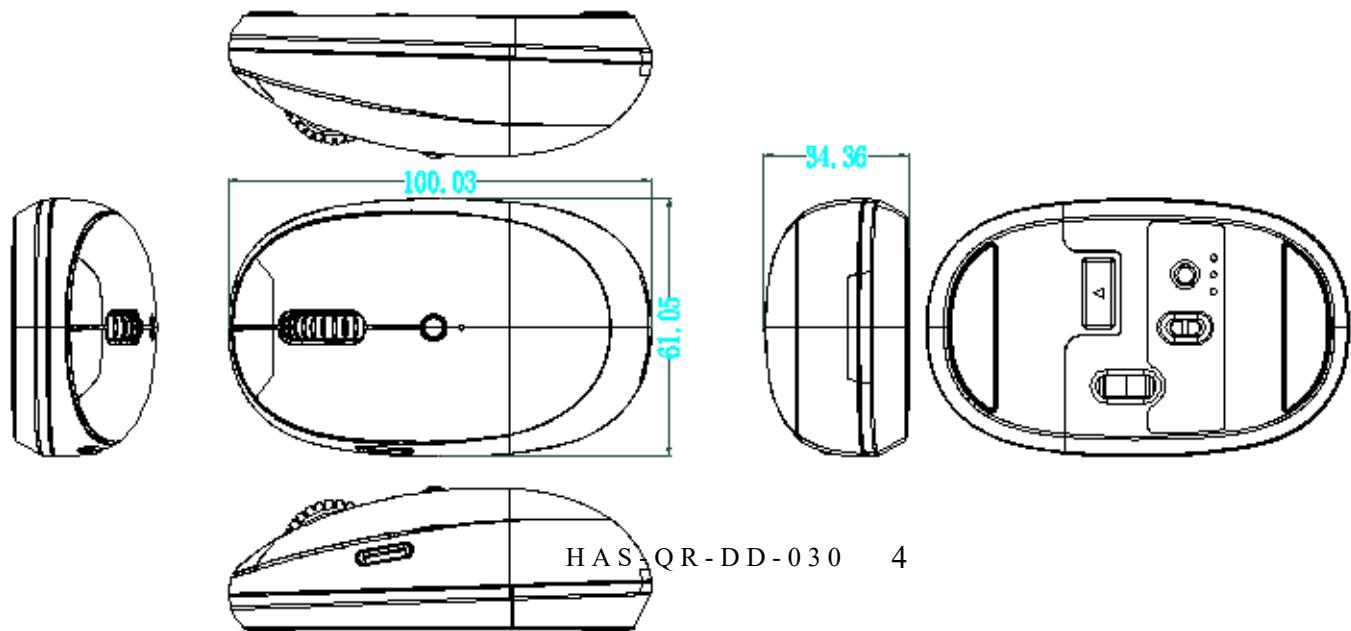
2. Part name and material

Part name	material	Surface finish	color
Top cover	ABS	texture	white
Middle cover	ABS	texture	white
Bottom cover	ABS	texture	white
DPI key	ABS	texture	white
Power on off	ABS	texture	white
wheel	ABS	texture	white
Lateral key	ABS	texture	white
Battery cover	ABS	texture	white
Wheel circle	silica	texture	white
Foot support	plastic	polishing	white
LED pillar	ABS	texture	nature

3. working state

Working temperature :	0℃ ~ +40℃	Working humidity	60+/-20%RH
Storage temperature	-20 ℃~ +65 ℃	Storage humidity	10% ~ 75%RH

Notes：temperature are about 40℃, surface can not be with water

4. mechanical function

item	state	Spe.
Pressing force	Press middle place,diameter ∮ 10mm	80 +/-30g
Left/right key force	Press middle place,diameter ∮ 10mm	30gf Max.
Moveable force	Slide flat surface for testing	120gf Max.
Max speed	testing X,Y direction	250mm/s Max.

5.electronic and indicator

Power	AA-battery	Working current	≤8.5mA
sensor	PAW3212	IC module	BK3632
Min working voltage	0.9V	Max working voltage	1.6V
Current when turn-on	≤20mA	Stand by current	≤1mA
Pairing current	≤35mA	Sleepy current	≤0.03uA
Wake up current	≤17mA	Sleep module time	30mins
Working distance	>8M (straight distance)	Waking up module	Pressing Any key
Low voltage warning	≤1.1V	DPI	800-1200-1600

DPI key

Change chanle   Pairing indicator

Low voltage indicator
Return key   DPI indicator
Pairing method   Power
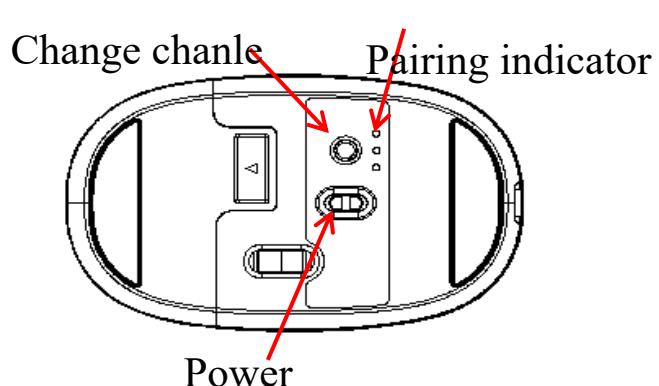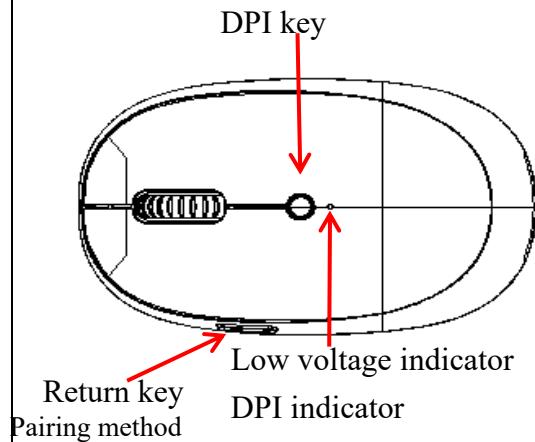
Bluetooth module：keep pressing the key of changing channel, the indicator will be flash quickly, then into pairing module，Choose the pairing name and click it to connect;

indicator	color	state
Low voltage indicator	red	When voltage are lower than 1.1V,the warning indicator will flash 1time/S,stop working after 10S;when voltage are lower than 1.0V,the indicator flash 10 times and then turn off;
DPI indicator	white	Level 1 flash 1 time; level 2 flash 2 times, level 3 flash 3 times;
Pairing	red	The indicator will flash 3times/S, Bluetooth pairing time keep 120S,，2.4G pairing time keep 20S; without pairing will be into sleepy module, whit pairing the indicator will be off;

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

Changes or modifications not expressly approved by the party responsible for compliance

could

 void the user's authority to operate the equipment.

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.