Wuhan Wuque Technology Co.,Ltd.

Velociraptor

Mouse Specification

Prepared by: _____

Reviewed by: _____

Approved by: _____

Contents

Revision Record

NO.	Version	Revision Content	Revised By	Revision Date

Velociraptor Mouse Specification

1 Product Description

a) Product ID :

Product ID：

1.1 Product Name

Chinese Name:

English Name:

1.3 Product Overview:

Features

	A Dual-mode wireless mouse	
1	/	
	/	
2	/	
	/	
3	/	
	/	
4	/	
	/	

2 Product Specifications

2.1 Appearance

2.1.1 Mouse

Dimensions（L×W×H）（mm）	(L) 119.75mm × (W) 63.15mm × (H) 37.8mm
Weight（g）	62.5g

Picture (dimensions required)	
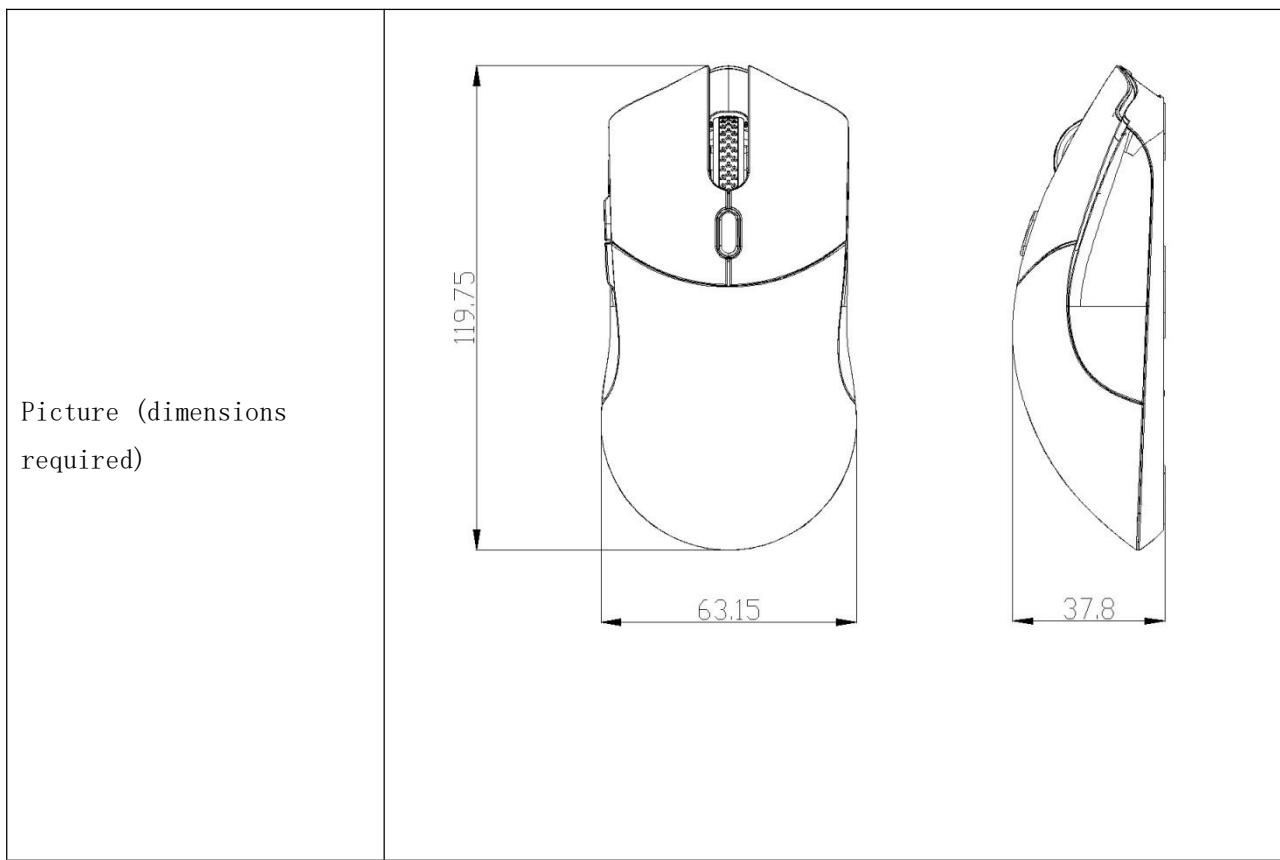
2.1.2 Receiver

Dimensions（L×W×H）（mm）	(L) 18.3mm × (W) 14.2mm × (H) 6mm
Weight（g）	1.6g
Picture (dimensions required)	
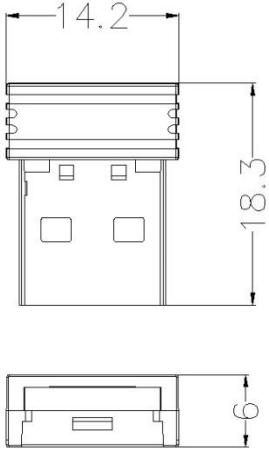
2.2 Operating Environment

Operating Temperature（℃）	-20~60℃
Storage Temperature（℃）	-40~75℃

Operating Humidity（% RH）	\
Storage Humidity（% RH）	\

2.3 Component Specifications

Category	Component Name	Specifications
Mouse	Buttons	ABS
	Middle Frame	ABS
	Bottom Cover	ABS
	Scroll Wheel	ABS
	DPI	ABS
	Light Cover	ABS
	Toggle Switch	ABS
	Foot Pads	Teflon
Receiver	RX Housing	ABS
Accessories	/	/
	/	/

2.4 Mechanical Performance

Performance	Parameter
Left Button Operating Force（gf）	70± 30 gf
Right Button Operating Force（gf）	70± 30 gf
Middle Button Operating Force（gf）	200± 50 gf
Forward Button（gf）	80± 30 gf
Backward Button（gf）	80± 30 gf
DPI Button Operating Force（gf）	80± 30 gf
Encoder Torque（gf）	30± 10 gf
Toggle Switch（gf）	200± 80 gf
Key Travel （mm）	0.4mm+0.45/0.15mm
Left/Right Button Life(times)	1,000,000 times
Middle Button Life(times)	1,000,000 times
Forward/Backward Button Life(times)	1,000,000 times
DPI Life(times)	1,000,000 times
Encoder Life(times)	400,000 times

Battery	Lithium 300mAh

Note: All operating points are at the center of the buttons; other performance specifications require tolerance except for button lifespan.

2.5 Electronic Specifications

2.5.1 Main Performance

2.5.2

Category	Function/Performance			Parameter/Description
Mouse	Solution Provider			Pix Art
	Optical Sensor			PAW3950
	Resolution（dpi）			30,000 dpi
	Max Tracking Speed（inches/sec）			750 IPS
	Max Acceleration（G）			50 G
	USB Reporting Rate（Hz）			8,000 Hz
	Operating Voltage(V)(Li-ion，AA)			3.2-4.2 V
	Operating Current			Operating modes
	Static Mode Activation Time （s）	Sleep Mode（10min）		4.09mA(8k)
		Max Operating Current（mA）		94.05uA
		60 s		15.8mA(8k)
	Deep Sleep Mode Activation（min）			30 min
	Wake-Up Method			Button Press
	Shutdown Voltage（V）			3.1V
	Button Functions			Left, Right, DPI, Forward, Backward; hold Forward 2 s for voice- input wake
	Power Switch			On/Off
	RF Pairing Indicator			Flashing blue during pairing; Solid green when paired
	Interface Type			USB
Receiver	Voltage（V）（DC）			5 V
	Current（mA）			500 mA
	Battery Type			Li- ion
Battery	Battery Capacity（mAh）			300mAh
	Voltage Range（V）			3.2-4.2V

	Charging Voltage（V）（DC）	4.2V
	Charging Current(mA)	0.5C Max（stand charge）
	Charging Time（h）	3.5-4h(standard)
	Reference Use Time（8 hours of computer usage per day, with 20% of the time spent using the mouse, meaning the mouse is in working mode)	~13 days（varies by usage）
	Note: Actual use time may vary depending on personal usage environment and conditions.	

2.5.3 RF Specifications

Performance	Parameter
Carrier Frequency（MHz）	2400~2480MHz
Bluetooth Standard	/
Auto Frequency Hopping	Yes
Modulation Method	Carrier mode
Operating Range（without interference）	5－10 m（depending on orientation）
RF Output Power（dBm）	6 dBm
RF Transmission Rate（Mbps）	1 Mbps

3 Software Specifications

3.1 Driver Availability

■ Yes

3.2 Driver Software Specifications

Specifications		Parameter
VID/PID		VID: 0x36B5 PID 0x27CD
Customizable Buttons		Left, Right, Middle, Forward, Backward, DPI
Modes		2.4GHz/USB
Config Storage		Supported
DPI	DPI Levels	4
	DPI Custom Range	800,1600,3200,6400
	Mode-specific DPI	No
	Customizable DPI Range	50-30000
	Independent Adjustment X/Y DPI	No
Macros	Max Length	240 bytes

	Max Loop Count	65,535
	Delay Time Range	0-1270ms
	Recording	Yes
USB Report Rate	Mode-specific Report Rate	Yes
	Report Rate Range	125,250,500,1000,2000,4000,8000
	Default Report Rate	1000
LED Control		-
Enabled at Startup		-
Button Function Options	Basic Function	√
	Advanced Function	√
	Media Function	√

4 System Requirements

System requirements include: Windows XP/Vista/7 or higher

5 Certifications

FCC   BSMI & NCC

☑   ☐

CE   KC

☑   ☐

SRRC   USB IF

☑   ☐

Domestic Quality Inspection   IC

☑   ☐

C-Tick   BQB

☐   ☑

Other

☐

The certification information above is for reference only. Specific certification details will be notified after the shipping region is confirmed.

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

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.

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

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