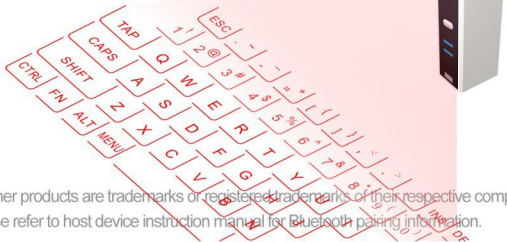


Laser Projection Keyboard User Manual



All other products are trademarks or registered trademarks of their respective companies.
Please refer to host device instruction manual for Bluetooth pairing information.

CONTENTS

1. Product Features.....	2
2. Package Contents.....	2
3. Safety Precautions.....	3
4. Identifying Parts and their Functions.....	9
5. Connecting via Bluetooth.....	11
6. Special Function of “SHIFT” Key.....	14
7. Power Saving Mode Guide.....	14
8. Making Adjusting.....	15
9. Mouse Mode.....	16
10. Spectifcation.....	18

1. Product Features

- English QWERTY keyboard layout.
- Mouse function.
- Truly portable design: perfect for on-the-go
- Full size key pitch and shortcut keys for ease of operation
- Superior durability (No moving component inside)
- Built-in Lithium-ion Polymer rechargeable battery for mobility and convenience
- Compatible with latest operating systems: Windows XP & later, Windows Phone 7 & later, iOS4 and later, Android 2.1 and later, Mac OS X & later.

2. Package Contents

- Laser projection keyboard
- USB Cable
- User's Manual

3. Safety Precautions

1. Avoid exposing this product to direct sunlight for extended periods of time, and keep it away from heat sources.
2. There is a risk of malfunction if product is used in places where sudden or extreme temperature changes occur.
3. Applying excessive force or impact to this product may result in product damage, and will void warranty.
4. Never attempt to disassemble or service this product yourself. Doing so can result in electrical shock and will void the warranty.
5. This is a Class 2 Laser product. For your safety, please do not stare directly into the laser source. Doing so could damage your eyes.
6. Avoid placing any object within the space between the main unit and the laser projection keyboard layout.
7. Please do not use this product on uneven or irregular surfaces. Place the product on a flat surface. Avoid table or surface that is as transparent or reflective as glass or

mirror.

Note:Because this product uses infrared rays, strong infrared radiation from direct or reflected sunlight or from tungsten (halogen or incandescent) lighting may cause operating error.

4. Identifying Parts and Their Functions.

1. Projector: laser projects an image of keyboard pattern onto a flat surface in front of the typist
2. Sensor: detects reflection of infrared and triangulates the location to determine a keystroke
3. IR Light: emits an invisible plane of light to blanket operational area

LED Indicator

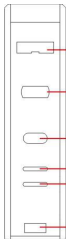
Left LED	
Searching bluetooth device	Blue(Blinking)
Seccessfull pairing	Blue out

Right LED	
"SHIFT" Tap	Blue
"SHIFT" Cancel	Blue out
Text Input	Blue(Blinking)

Low battery	Red(Blinking)
Battery charging	Red

FRONT VIEW

SIDE VIEW



Keyboard Pattern
Projector

Sensor

Power switch

LED for Bluetooth Status

Blue LED for "SHIFT" Status
and Input Status

Red LED for Charging Status

IR Light



Micro USB connector
for charging

5. Connecting via Bluetooth

- Projection Keyboard supports Bluetooth HID:
- Connection via Bluetooth HID does not require installation of separate driver as long as the host device has HID compatibility.
- Bluetooth 2.1 or higher required for connecting to some devices.

Note:Projection Keyboard will automatically attempt to re-connect to the recently connected devices. If no previous device is found then it will listen for a new connection with any available HID compatible device.

Bluetooth HID Compatible Devices

- iOS4 and later
- Android 2.0 and later
- Windows XP/Vista/7/8 or higher
- Windows Phone 7/8 or higher
- Mac OS
- Blackberry 10
- PS3

Bluetooth Connection Instruction

1. Power on Projection Keyboard
2. Left blue LED will be blinking indicating the Projection Keyboard is searching for a new device or previously paired devices within its proximity . Projection Keyboard will automatically attempt to re-connect to the recently connected devices

This feature is added for convenience, assuming there is a single host device.

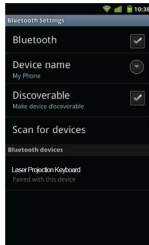
If the Projection Keyboard has re-connect the recently connected devices but it need pair for a new device, Turn the connected device Bluetooth off, the left blue LED will be blinking again.

3. On primary device,go to Bluetooth setting;search for Bluetooth devices.
4. When the device discovers"Laser projection keyboard",tap to connect.
5. Upon successful pairing, the LED will stop blinking and go out.

Screen shot of successful Pairing on **iOS**



Screen shot of pairing on **Android**



6. Special Function of “SHIFT” Key

Normally we need press “Shift” key all the time on the normal keyboard. To improve projection keyboard typing convenience and accuracy, this product has special using method. We need type “Shift” key only one time and the function of shift will keep. meanwhile the right LED light turn blue, which we called “locking shift”. Press “Shift” key again to cancel the shift function, meanwhile the right blue LED light will stop.

Note: If the right LED is keeping blue, which means “Shift” key has been locked.

7. Power Saving Mode Guide

- The brightness will change to low level if there is no operation on the keyboard within 30 seconds.

Press any key to resume to standard brightness.

Factory default brightness is the highest level during power on.

- The product will be automatically standby if there is no operation on the keyboard

within 5 minute.

Press Power Switch to restart the product.

8. Making Adjustments

>Sound Feedback Adjustment

- There are total of 5 levels;sound level remains as adjusted when device is turned off and on.
- To incese sound level:Tap and hold “FN” key and tap “RIGHT” arrow key.
- To decrease sound level:Tap and hold “FN” key and tap “LEFT” arrow key.

>Projection Brightness Adjustment

- There are total of 4 brightness levels.
- To increase brightness:Tap and hold “FN” key and tap “UP”arrow key.
- To decrease brightness:Tap and hold “FN” key and tap “DOWN”arrow key.

Note:All adjustments must be repeated for each level.

9.Mouse Mode

To change keyboard mode to mouse mode on the keyboard, press the  key. The projection keyboard brightness will change to low level.

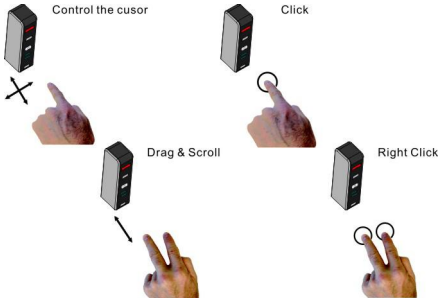
To Change mouse mode to keyboard mode, on the keyboard, press the  key. The projection keyboard resume to standard brightness.

+Mouse/cursor function is available on devices that support such feature (Most Windows,Android and Mac OS).

Note: iOS devices do not support mouse function.

Note: If the projection keyboard brightness change to low level,and tap the keyboard has not any response,please confirm whether it into mouse mode,Press the  key change to keyboard mode

Default mode on power on is keyboard function



10. SPECIFICATION

Pattern Projector

Item	Specification
Light Source	Red Laser Diode
Keyboard Layout	Approx. 19mm Pitch, QWERTY Layout
Keyboard Size	Approx. Width : 240mm, Height: 100mm
Keyboard Location	Approx. 80mm from the bottom of device
Project Surface	Non-reflective, opaque flat surface

Keyboard Sensor

Item	Specification
Recognition Rate	Approx. up to 350 characters per minute
Operating Surface	Any firm flat surface

Electrical Characteristics

Item		Specification
External	Power	USB Power / less than 5V 500mA
Battery & Capacity		Lithium-ion Polymer Battery, 600mAh(MA X) @ 3.7V
Battery	Operating	Approx. 120min
Battery	Charging	Approx. 120min
Bluetooth		V3.0, HID Profile Ver 1.0
Frequency Range		2402-2480MHz
Channel		79
Modulation		GFSK

Environmental Conditions

Item	Specification
Operating Temperature	0 ~ 35°C / 90%RH
Storage Temperature	-5 ~ 35°C / ~90%RH

Dimensions and Weight Specifications

Item	Specification
Size (mm)	76mm x 20mm x 26mm
Weight (g)	Approx. 40 g