

LANGTU

L99三模静音键盘

键盘使用模式：有线/2.4G/蓝牙5.0（支持三路蓝牙）



主键区背光灯效说明

FN + INS键切换以下灯效

左右涟漪、光谱循环、万花筒、静态常亮、整体呼吸、繁星点点、双向弹射、霞光飞掠、单键分区呼吸、烈马奔行、蛇王吐信、江山画卷、双向拖尾、色彩堆砌、光团灯光、音乐律动

灯箱背光灯效说明

FN+右ALT键灯箱灯效模式切换

流光涟漪、光谱循环、双向追托、七彩呼吸、七彩常亮、霞光飞掠、流光对影、涟光吐纳、音乐律动

旋钮功能

默认音量模式（屏显示喇叭符号）：按一下静音，向左旋转音量-，向右旋转音量+
旋钮长按5秒切换灯光模式（屏显示灯光符号）按一下旋钮切换背光模式，向左旋转是背光灯-，向右旋转是+；

电池低压设置

- 1、电池电压低于3.4V，关闭灯效，在有按键动作时（无论是BT或2.4G或有否正常连接成功，“电池符号”的红灯1Hz慢闪提示低电），
- 2、电池电压等于或低于3.0V，键盘功能关闭（BT休眠，RF连接断开，MCU进入低功耗睡眠），按键时（不发码），“电池符号”中的红灯1Hz慢闪5次提示低电。

电流功耗

充电电压	5 V
充电电流	800 mA
工作常亮模式电流	<180mA
关闭背光电流	30mA

充电指示灯说明

低压时红色慢闪，充电中常亮红色，充满绿色常亮，拔线熄灭。

合格证

功能描述 组合快捷键

按键	MAC系统	Windows	备注
ESC	恢复出厂模式	恢复出厂模式	长按3秒背光(白色光) 闪烁三次，恢复键盘默认状态
Ins	调节背光模式	调节背光模式	
右CTRL	调节LOGO灯模式		常亮/呼吸/灭
-, =	调节主灯区背光方向		
右ALT	灯箱灯效模式切换	灯箱灯效模式切换	
A/W	WIN与MAC系统切换	WIN与MAC系统切换	
数字8	灯箱亮度+	灯箱亮度+	灯箱灯效亮度五档调节
数字2	灯箱亮度-	灯箱亮度-	灯箱灯效亮度五档调节
数字4	灯箱灯效快慢-	灯箱灯效快慢-	灯箱灯效快慢调节五档调节
数字6	灯箱灯效快慢+	灯箱灯效快慢+	灯箱灯效快慢调节五档调节
Backspace	关闭背光	关闭背光	
WIN	IOS系统此项无	锁定/解锁	
方向上	背光亮度调节+	背光亮度调节+	背光亮度五级
方向下	背光亮度调节-	背光亮度调节-	背光亮度五级
方向左	动态背光速度-	动态背光速度-	调节动态背光速度五级
方向右	动态背光速度+	动态背光速度+	调节动态背光速度五级
1	蓝牙1	蓝牙1	长按3S进入蓝牙的相应通道配对模式 配对时快闪，回连时慢闪，配对成功常亮
2	蓝牙2	蓝牙2	
3	蓝牙3	蓝牙3	
4	2.4G	2.4G	长按3秒进入2.4G对码模式接收器符号，配对时快闪，回连时慢闪，配对成功常亮
5	有线连接	有线连接	有线符号常亮

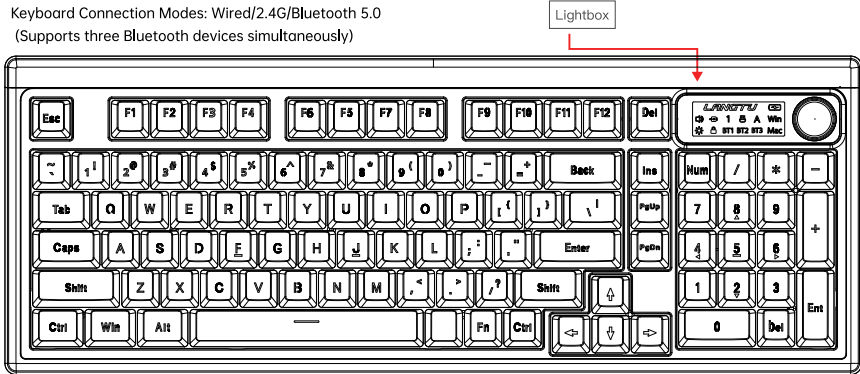
F区多媒体快捷键

按键	WIN系统(默认F1-F12功能)	Mac系统(默认多媒体功能)
F1	音乐	亮度-
F2	音量-	亮度+
F3	音量+	多任务窗口
F4	静音	调成Siri
F5	停止	背光亮度-
F6	上一曲	背光亮度+
F7	播放/暂停	上一曲
F8	下一曲	播放/暂停
F9	邮箱	下一曲
F10	返回桌面	静音
F11	键盘锁	音量-
F12	计算器	音量+

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L99 Triple-Mode Silent Keyboard

Keyboard Connection Modes: Wired/2.4G/Bluetooth 5.0
(Supports three Bluetooth devices simultaneously)



Backlight Effect Description for Primary Key Zone

FN + INS keys to cycle through the following lighting effects

Ripples Left and Right, Spectral Cycle, Kaleidoscope, Static Constant On, Whole Breathing, Twinkling Stars, Bidirectional Projection, Glowing Down Single-Key Zone Breathing, Galloping Steed, Serpent King's Tongue, Landscape Scroll, Bidirectional Trailing, Color Accumulation, Light Off/On, Music Rhythm

Lightbox Backlight Effect Description

FN + Right ALT Key Lightbox Lighting Effect Mode Switch

Ripple of Light, Spectrum Cycle, Bidirectional Echo, Breathing Rainbow, Rainbow Constant Glow, Glowing Down, Mirrored Light, Breathing Ripples, Rhythmic Music

Knob Function

Default Volume Mode (Screen displays speaker icon): Press once to mute, rotate left for Volume-, rotate right for Volume+.
Press and hold the knob for 5 seconds to switch to Light Mode (Screen displays light icon).
Press once to toggle backlight mode, rotate left for Backlight-, rotate right for Backlight+.

Low Battery Voltage Setting

1. When battery voltage falls below 3.4V, lighting effects are disabled. During key presses (regardless of BT or 2.4G mode, or whether a connection is established), The red light in the "battery symbol" flashes slowly at 1Hz to indicate low power).
2. When battery voltage equals or falls below 3.0V, keyboard functions shut down (BT enters sleep mode, RF connection disconnects, MCU enters low-power sleep). Pressing keys (no code transmission) triggers the red light in the "battery symbol" to flash slowly at 1Hz five times, indicating low power.

Current power consumption

Charging voltage	5 V
Charging current	800 mA
Current in constant-on mode	<180mA
Turn off backlight current	30mA

Charging Indicator Light Guide

Low voltage: Slow red flash Charging: Steady red light Fully charged: Steady green light Unplugged: Light turns off

FCC Warning

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 1: 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.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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

Function Description

Keyboard shortcut

Button	MAC	Windows	Note
ESC	Restore factory settings	Restore factory settings	Press and hold for 3 seconds until the backlight (white light) flashes three times, then the keyboard will return to its default state.
Ins	Adjust Backlight Mode	Adjust Backlight Mode	
Right CTRL	Adjust LOGO Light Mode		Constant On/Breathing/Off
-, =	Adjust the backlight direction of the main lighting zone		
Right Alt	Lightbox Lighting Effect Mode Switching	Lightbox Lighting Effect Mode Switching	
A/W	Switching Between Windows and Mac Systems	Switching Between Windows and Mac Systems	
The number 8	Lightbox Brightness+	Lightbox Brightness+	Lightbox brightness with five adjustable levels
The number 2	Lightbox Brightness-	Lightbox Brightness-	Lightbox brightness with five adjustable levels
The number 4	Lightbox Lighting Speed -	Lightbox Lighting Speed -	Lightbox lighting effect speed adjustment with five-level settings
The number 6	Lightbox Lighting Speed +	Lightbox Lighting Speed +	Lightbox lighting effect speed adjustment with five-level settings
Backspace	Turn off the backlight	Turn off the backlight	
WIN	This feature is not available on iOS systems.	Lock/Unlock	
in terms of direction	Backlight Brightness Adjustment+	Backlight Brightness Adjustment+	Backlight brightness: Five levels
in the direction of	Backlight Brightness Adjustment-	Backlight Brightness Adjustment-	Backlight brightness: Five levels
Turn left	Dynamic Backlight Speed-	Dynamic Backlight Speed-	Adjust dynamic backlight speed in five levels
Turn right	Dynamic Backlight Speed+	Dynamic Backlight Speed+	Adjust dynamic backlight speed in five levels
1	Bluetooth 1	Bluetooth 1	Press and hold for 3 seconds to enter Bluetooth pairing mode. Pairs with a fast flash, reconnects with a slow flash, and stays solid when pairing is successful.
2	Bluetooth 2	Bluetooth 2	
3	Bluetooth 3	Bluetooth 3	
4	2.4G	2.4G	Press and hold for 3 seconds to enter 2.4G pairing mode. Receiver symbol flashes rapidly during pairing. Receiver stays solid when pairing is successful.
5	Wired connection	Wired connection	Wired indicator stays lit

Zone F Multimedia Shortcut Keys

Button	Windows System (Default F1-F12 Functions)	Mac OS (default multimedia features)
F1	Music	Brightness-
F2	Volume -	Brightness+
F3	Volume +	Multi-tasking Window
F4	Mute	Set to Siri
F5	Stop	Backlight Brightness-
F6	Previous Track	Backlight Brightness+
F7	Play/Pause	Previous Track
F8	Next song	Play/Pause
F9	Email	Next song
F10	Return to Desktop	Mute
F11	Keyboard Lock	Volume -
F12	Calculator	Volume+

