



USER MANUAL

1 CRUX87

Functions

KEY DESCRIPTION

Mac/Win Type-C 2.4G/BT/OFF

WIN KEY
When the WIN key is locked, it cannot be used; in MAC mode it functions as the OPTION key.

ALT KEY
In MAC mode, it functions as the Command Key.

Windows/MAC

When connected to Windows and if you switch to MAC mode..

WIN

ALT

Swap the WIN key and ALT key

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FN Combination Keys

FN Combination Keys			
KEYS	Function(WIN)	Function(MAC)	Description
F1	Screen Brightness -		
F2	Screen Brightness +		
F3	Home page	Mission Control	
F4	Mail	Launchpad	
F5	Calculator	Keyboard Brightness -	
F6	Media player	Keyboard Brightness +	
F7	Previous song	Previous song	
F8	Pause/Play	Pause/Play	
F9	Next song	Next song	
F10	Mute	Mute	
F11	Volume Down	Volume Down	
F12	Volume Up	Volume Up	
BACKSPACE	Check battery level	Check battery light	
↑	Backlight brightness +	Backlight brightness +	When at the limit, the logo light flashes white three times
↓	Backlight brightness -	Backlight brightness -	
←	Backlight effect speed +	Backlight effect speed +	
→	Backlight effect speed -	Backlight effect speed -	
↘	Backlight effect switch	Backlight effect switch	
ENTER	Backlight Color Switch	Backlight Color Switch	(Some lights are adjustable)
PGUP	Backlight saturation +	Backlight saturation +	
PGDN	Backlight Saturation -	Backlight Saturation -	
1!	BT1	BT1	Blue light indicator
2@	BT1	BT2	
3#	BT1	BT3	
4\$	2.4G Mode	2.4G Mode	Green light indicates

Note: Since this solution uses an intelligent algorithm, whenever you switch modes, change the MAC/WIN system, or switch the six-key full-key mode, don't cut the power immediately after switching. Wait a few seconds and the system will automatically save the state.

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Backlight effect

Backlight effect

Backlight effect description

Standard QMK lighting effects, up to 46 types, default flowing light mode

Mode Settings and Pairing

4.1 The 3-position toggle switch controls USB, BT, and 2.4G modes! Flip the switch to the corresponding position to enter the matching keyboard mode!
4.2 If the keyboard is inactive for 3 minutes, it automatically enters level 1 sleep mode. At this point, the lights turn off, Bluetooth or 2.4G stays connected, and pressing any key will wake it up while registering key input.
4.3 Working current is less than 300mA, and in level 1 sleep mode, current is less than 400μA.
In wireless mode, supports mode switching, pairing, and code matching:
Bluetooth 1: Fn+1! (short press to switch, long press to pair)
1! Blue light indicator flashes quickly when pairing, slowly when reconnecting, stays solid for 2 seconds after successful connection before returning to the overall backlight effect; if pairing fails within 1 minute, goes to sleep; if reconnection fails in 20s, goes to sleep.
Bluetooth 2: Fn+2@ (short press to switch, long press to pair)
2@ Blue light indicator flashes quickly when pairing, slowly when reconnecting, stays solid for 2 seconds after successful connection before returning to the overall backlight effect; if pairing fails within 1 minute, goes to sleep; if reconnection fails in 20s, goes to sleep.
2.4G: Fn 4\$ (short press to switch, long press to pair) 4\$ Green light indicator flashes quickly during code matching, slowly when reconnecting, stays solid for 2 seconds after successful connection before returning to the overall backlight effect; if code matching fails within 1 minute, goes to sleep; if reconnection fails in 20s, goes to sleep.
USB: Fn 5% switches to USB mode, and the white light stays on for 2 seconds before turning off.

Battery indicator: Lithium battery (3.7V)
Charging indicator: When charging, press FN + Backspace to check. In charging mode, 1~10% shows green waves! Fully charged 1~10% shows solid green.
Battery level check: Numbers 1~10% constantly display the battery percentage. 1! means 10%, 1!-2@ means 20%, and so on. Above 80%, the LED lights green; 40%-60% lights yellow; below 20% lights red.
Low battery indicator: When battery voltage is below 3.3V, the LOGO flashes red slowly to indicate charging is needed.

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QMK-VIA Connection

QMK-VIA CONNECTION

Connection steps

1. Enter the ELECFox Lab official website <http://www.ElecFox.Co>. click"- Sup-port-Software Downloading" in the upper right menu, and down-loadthe CRUX 87 related ison fle.
2. Enter the VIA ofcial website: <https://usevia.app/>
3. After clicking SETTINGS icon in the upper right, open the "Show Design Tab" in the menu.
4. After clicking the DESIGN icon above, click "LOAD" on the right side of Load Draft Definition below, and open the json file in the pop-up box to import (select the corresponding json according to the keyboard configuration/ connection method).
5.After clicking the CONFIGURE icon in the upper left, click "Authorize device+" below, select the device " CRUX87 " in the pop-up box and click "Connect".
6. Return to the CONFIGURE page, you can see that via has recognized the keyboard. Now you can change the keys
7. Function introduction
KEYMAP: basic key modifcation
MACROS: macro editing
SAVE+ LOAD: save/load key layout
LIGHTING: lighting settingsLAYER 0 1 2 3: modify the key settings of different "layers" to achieve a variety ofeffects (Fn is "1" layer).
CRUX87 is a standard QMK lighting effect, including up to 50 lighting modes,the default is streamer mode.

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FAQ

FREQUENTLY ASKED QUESTIONS

Q Why is my WIN key not working?

A In the case of locking the WiN key by pressing FN+WIN, the WiIN key cannot be triggered for use. To unlock it, simply press FN+WIN again.

Q "Why have my WIN key and ALT key swapped, and my F1-F12 keys become non-responsive or turned into function keys?"

A There is a Win/Mac switch at the Type-C port of the keyboard. when the keyboard is switched to Mac mode, the WIN key and ALT key will be swapped in Windows system, and F1-F12 will become function keys.

Q How can I customize keybindings and use macro functions?

A Go to the official websitewww.ElecFox.Co, to download the latest driver and json file to experience the full keyboard functions of CRUX 87.
CRUX 87 supports QMK-VA to customize keys and edit macro functions.

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.

Driver download and firmware upgrade

www.ElecFox.Co

Driver downDownload the latest driver and firmware to experience the full functionality of the keyboard.load and firmware upgrade