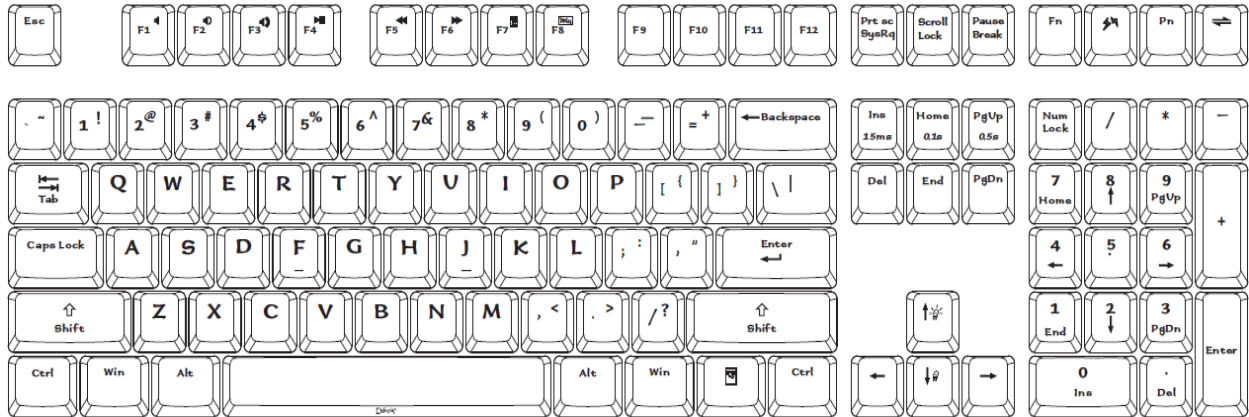# User Manual

Main Features:

1. 100% keyboard with QWERTY layout (108 Keys)
2. Cherry MX key switch (Black, Blue, Brown, Red)
3. Double layer PCB
4. Key cap material: Double Shot PBT
5. LED backlight
6. USB Interface

Package Material:

1. Keyboard x 1
2. User Manual x 1

Technical Specification

Number of keys:

US ASCII (108 Keys) = US Layout

Dimension:

44.1 x 13.8 x 4.3cm (Keyboard)

Cable:	**Interface:**
1.8 meters	USB (DC5V ----500mA)
Key switch life time:	**Available layout:**
Cherry: >50 million actuations	US USA
Package:	
20 keyboards / 1 outer box	

Programming Instruction

1. Press PMode(Fn + Pn) to enter the programming mode (Pn LED flashing)
2. Press the key you want to program (Pn LED on)
3. Key in the programming content and then press Pn (Pn LED flashing again)
4. Repeat step 2 and step 3 to program other keys
5. Press PMode(Fn + Pn) to exit programming mode (Pn LED off)

Note:

- Under SELECT state (step 1), you can press Pn + any key to view its content in a word processing software (e.g., Notepad)
- Support time delay, press 15ms key(Fn + Ins) each time to delay 15ms, press 0.1s key(Fn + Home) each time to delay 0.1s, press 0.5s key(Fn + PgUp) each time to delay 0.5s. Consecutive delay will add up but will only be counted as 1 key stroke
- Every key can program up to 64 key strokes
- Repeat step 2 and step 3 to program other keys
- If there is no key pressed for 15 sec in programming mode, it will exit to normal mode

Programming Usage

Press Pn + Programmed key, OR
Press Toggle (Two arrows key) to light up the Toggle LED first. Then press the programmed key directly. If you press Pn + Programmed key at this moment, it will output the original key code.

Programming Examples

1. Program A as 123: Fn + Pn, A, 1, 2, 3, Pn
2. Continue to program B as Ctrl + C: B, Ctrl(Not release), C, Release Ctrl and C, Pn
3. Continue to program C to run CMD under WIN7: Win, C, Fn + Home, M, Fn + Home, D, Fn + PgUp, Enter, Pn
4. Finish programming: Fn + Pn
5. Invoking programmed A: Pn + A => Output 123
6. Invoking programmed C: Pn + C => Running CMD.EXE
7. Switch to Pn layer: Toggle(Two arrows key) => Toggle LED on
   (1) Invoking programmed B: B => Output Ctrl + C (Same as copy)
   (2) Invoking programmed C: C=> Running CMD.EXE
   (3) If you need to get the A back (Now pressing A is 123): Pn + A => A

Rollover Mode Switch

Press Nkey (Lightning key), the Nkey LED will be flashing till stop. It means the keyboard is switching the rollover mode. Nkey LED is on for N-key rollover mode. Nkey LED is off for 6-key rollover mode.

Backlight Mode Switch

Press Fn + Nkey (Lightning key) to circulate different backlight modes: Individual Dimming → Laser Sidetrack → Ripple Explosion → Breathing → All LED off → All LED on. Under All LED on mode, you can press Fn + ↑ and Fn + ↑ to adjust brightness. There are 7 levels of brightness.

Restore to factory default

Press and hold Fn + R, Toggle LED is flashing after 3 sec. Continue to hold Fn + R until the Toggle LED flashes for 9 times will restore to factory default

Fn General keys					Remark
Fn	+	F1	=	Mute	Key code change
		F2		Volume Down	
		F3		Volume Up	
		F4		Play/Pause	
		F5		Previous Track	
		F6		Next Track	
		F7		Calculator	
		F8		Lock Win key	
		Pn		Enter/Exit Programming Mode	
		Rollover		Switch Backlight Mode	
		↑		Increase Brightness	
		↓		Decrease Britghtness	
		Ins		Delay 15ms	Only valid in programming mode
		Home		Delay 0.1s	
		PgUp		Delay 0.5s	