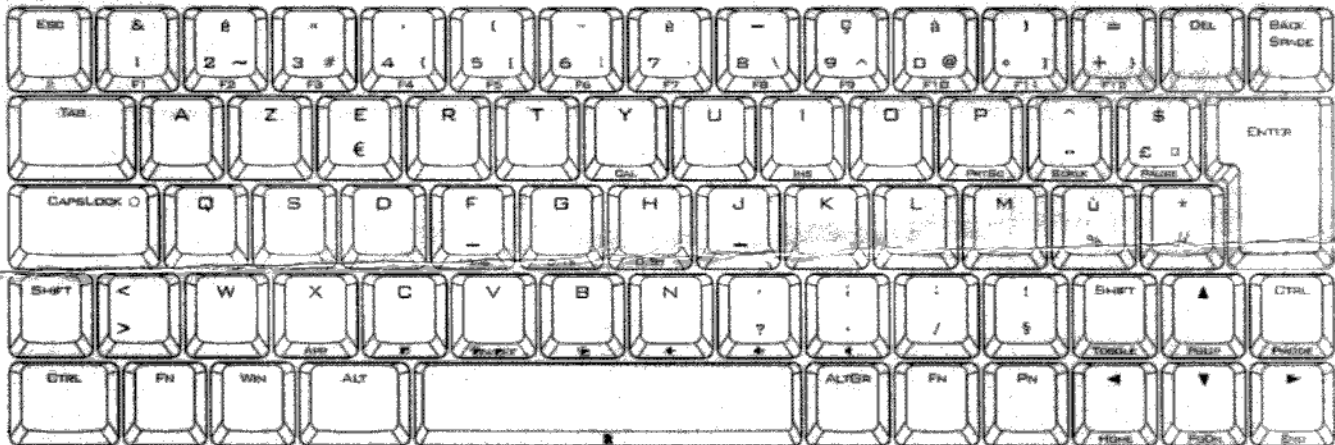


## User Manual

### FR Layout



### Main Features:

1. Removable
2. 60% keyboard with QWERTY layout (67/68 Keys)
3. Cherry MX key switch (Black, Blue, Brown, Red)
4. Dual layer PCB
5. Key cap material: ABS(UV coating- Backlit version only), PBT
6. LED backlight (Backlit version only)
7. USB Interface

### Package Material

1. Keyboard x 1
2. User Manual x 1
3. USB Cable x 1

### Technical Specification

#### Number of keys:

US ASCII (67 keys) = US Layout  
DE ASCII (68 keys) = DE Layout  
ES ASCII (68 keys) = ES Layout  
FR ASCII (68 keys) = FR Layout  
UK ASCII (68 keys) = UK Layout

#### Available layout:

US USA  
DE Germany  
ES Spain  
FR France  
UK United Kingdom

#### Dimension:

29.5 x 10.2 x 3.8cm (Keyboard)

#### Cable:

1.5 meters (mini USB B type)

#### Interface:

USB (DC5V ---300mA)

#### Key switch life time:

Cherry: >50 million actuations

#### Package:

20 keyboards / 1 outer box

### Programming Instruction

1. Press PMode(FN + Right CTRL) 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 + Right CTRL) to exit programming mode (PN LED off)

#### Note:

- Support FN layer programming, you can select the FN combination key (e.g., FN + A) to program it
- 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 + F) each time to delay 15ms, press 0.1s key(FN + G) each time to delay 0.1s, press 0.5s key(FN + H) 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 14 key strokes
- If there is no key pressed for 15 sec in programming, it will exit to normal mode

### Programming Usage

Press PN + Programmed key, OR

Press Toggle(FN + Right SHIFT) to light up right FN key 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 + Right CTRL, A, 1, 2, 3, PN
2. Continue to program FN + A as 456: FN + A, 4, 5, 6, PN
3. Continue to program B as CTRL + C: B, CTRL(Not release), C, Release CTRL and C, PN
4. Continue to program C invoking CMD under WIN7: WIN, C, FN + G, M, FN + G, D, FN + H, ENTER, PN
5. Finish programming: FN + Right CTRL
6. Invoking programmed A: PN + A => Output 123
7. Invoking programmed FN + A: PN + FN+ A => Output 456
8. Invoking programmed C: PN + C => Running CMD.EXE

9. Switch to PN layer: Toggle(FN + Right SHIFT) => Right FN LED on  
 (1) Invoking programmed B: B => Output CTRL + C (Same as copy)  
 (2) Invoking programmed FN + A: FN+ A => Output 456(No need to press PN)  
 (3) Invoking programmed C: C=> Running CMD.EXE  
 (4) If you need to get the A back (Now pressing A is 123): PN + A => A

#### 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	+	1	=	F1	Key code change
		2		F2	
		3		F3	
		4		F4	
		5		F5	
		6		F6	
		7		F7	
		8		F8	
		9		F9	
		0		F10	
		-		F11	
		= +		F12	
				INS	
		P		Print Screen	
		[ {		Scroll Lock	
		] }		Pause	
		X		APP	
		↑		Page Up	
		↓		Page Down	
		←		HOME	
		→		END	

FN Multimedia keys					Remark
FN	+	Y	=	Calculator	Key code change
		N		Volume Down	
		M		Volume Up	
		<		Mute	

FN LED Control keys					Remark
FN	+	V	=	Backlit LED on (Except Left FN, Right FN and PN)	Press the 1 <sup>st</sup> time
				Backlit LED off	Press the 2 <sup>nd</sup> time
		C		Reduce LED brightness	Totally 7 level of brightness, backlight status and brightness will be saved after power down
		B		Increase LED brightness	

FN Programming Control keys					Remark
FN	+	R	=	Restore to factory default	Need to hold for 12 sec
		Right SHIFT		Switch to program layer	Press the 1 <sup>st</sup> time (Right FN on)
				Switch to visible layer	Press the 2 <sup>nd</sup> time (Right FN LED off)
		Right CTRL		Enter Programming Mode	Press the 1 <sup>st</sup> time (PN LED flashing)
				Exit Programming Mode	Press the 2 <sup>nd</sup> time (PN LED off)
		F		Delay 15ms	Only valid in Programming Mode
		G		Delay 0.1s	
		H		Delay 0.5s	

FN Special keys					Remark
FN	+	Z	=	SHIFT key is down even when the SHIFT key is released. Press the SHIFT key again will make the SHIFT key up	Press the 1 <sup>st</sup> time (Left FN LED on)
				SHIFT key returns to normal	Press the 2 <sup>nd</sup> time (Left FN LED off)

DIP Switch				Remark
	ON	OFF		
SW 1	CAP = Left FN CAP LED = Left FN LED	CAP = CAP CAP LED = CAP LED		Default = OFF
	Left FN = CAP Left FN LED = CAP LED	Left FN = Left FN Left FN LED = Left FN LED		
SW 2	Right CTRL = ~	Right CTRL = Right CTRL		Default = OFF
SW 3	N/A	N/A		Default = OFF
SW 4	Write protect, try to press FN+R to program a key will cause PN LED flashing quickly for one sec and then returns to normal			Default = OFF