


SPECIFICATION AND USER MANUAL

Model NO.		GX968WR-RGB	Product Type	Mechanical Gaming keyboard
Date		2023/10/15	Patent No	ZL 2023 3 0310675.6
ID Design 6 Sides Products Picture				
Class	Project	Specifications	Project	Specifications
Basic Specifications	Keyboard type	Mechanical illuminated keyboard	language version	US/UK/optional
	Interface Type	USB	Keyboard size	319.5mm*112mm* 41.5mm
	Connection	USB+2.4G+Bluetooth (3.0 - 5.0)	Net weight	634 g
	Multimedia	Key combination	Receiver size	18.5*14.5*6.5mm
	Operating Voltage	UBS 5V	Receiver net weight	1.6g
	Battery	3.7V - 1850mAh	Wire color	As required by order
	Recharging current	600mA	charging method	Computer USB-5V power supply
	Switch type	Mechanical switch	Switch	Have
	Button load	60g±10g	Interface	USB1.1/2.0/3.0
	Switch Life	50 million times	System compatibility	Win7 and above / MacOS X 10.5/Android
	Wireless light	Default 2 minutes	Backlight color	RGB
	Sleep mode	Default 30 minutes	Low pressure	About 3.3V
	Switch type	Plug Shaft (Brown/Black/Blue/Red)	low voltage	About 3.0V
	Programmable	Yes “Software”	Anti-Ghosting	Full Anti Ghosting - No Conflict for full keys
	Plug and play	Support	memory	Internal Memory
	Key action recording	Support (driver)	Keycap Layout	Double shot keycap + laser engraving
Electrical parameters	(IC model)	YC3121-SOC	IC manufacturer	Shenzhen Rongyuan Technology Co., Ltd.
	IC package	QFN56	receiver chip	RY6010 package QFN32
	operating current	480mA (full white light)	Wireless current	220mA
	2.4G current	14mA (no light)	Bluetooth 3.0 current	12mA (no light)
	Bluetooth 5.0 current	9mA (no light)	sleep current	≤300uA (Wireless state)
	Operating temperature	0~45℃	storage temperature	-20~+60℃
	Working humidity	20~90%	Storage humidity	≤93% (40℃)

Featured selling points	1	Multi connection methods Wired + Wireless 2.4Ghz + Bluetooth 5.0 + 5.0 + 3.0 V Distance 8-10 meters, strong anti-interference ability - convenient and fast shafting between devices.		
	2	Dynamic multicolor per key backlighting , Programable Backlight “Driver Support “ Adjust key's illumination level, Speed, Direction, the double-shot injection molded keycaps for crystal clear backlighting.		
	3	100% Anti-Ghosting - Full Key Rollover: Ensure your commands and simultaneous keystrokes always register the way you intend.		
	4	Full Multimedia function Shortcuts Key: Press FN+ "F1~F12" to control multi-media function calculator, email, web browser, volume, media etc.		
	5	GX driver - Programable Software Supports multi-color backlight design, button function customization, etc.;		
	6	Durable build OUTEMU 50 million Plug Shaft MX- Blue Switches: “Optional Red / Brown / Black “ 50 million clicks, this durable Keyboard will play hard for a long time. PCBA Double-sided copper sleeve plug-shaft		
	7	ABS Structure + Premium Electrophoresis iron Metal structure and durable frame are designed unyielding strength to persevere under the most strenuous use.		
	8	High Quality Anti-Skid Rubber + 3 ANGLES + 8 PCS RUBBER FEET The three-step adjustment allows you to customize the angle of the keyboard to the position you find comfortable.		
	9	Excellent alternative for gamers 60% form factor A 60% Form Factor keyboard is an excellent alternative for gamers - 68 Keycap		
Material Specifications				
Parts		Color/ Specification	Material	Surface treatment
Upper cover		Black / White	ABS	OEM / Injection finish
Lower cover		Black / White	ABS	OEM / Injection finish
Keycap		Black / White / Red / Gray	ABS / PBT	Double Injection finish
Decorative strip		Transparent	ABS	OEM / Injection finish
Lampshade		Transparent	ABS	OEM / Injection finish
Toggle switches		Black / White	ABS	OEM / Injection finish
Panel		Black / White	ABS	OEM / Injection finish
Tripod		Black / White	ABS	OEM / Injection finish
Foot pads		Black / White	Rubber	OEM / Anti Sliding
Mechanical switches		Plug shaft: Blue/Brown/Black/Red, etc.		OEM / Customer required
PCB		1.2mm	RF-4	Soldering/Non-Soldering Operation
PCBA process				Soldering/Non-Soldering Operation
Wire		Black / White	1.8m ϕ3.2mm	USB Type C Cable Braided Fiber

Instructions for use:

1. Unpack the product, remove the tie of the keyboard cable, and insert the cable into the USB port of the computer.
2. The first time you use this keyboard, the system may need to install the USB driver. At this time, the computer will automatically search for and install the keyboard driver.
3. After the driver installation is completed, the keyboard can work normally.
 1. **FN+;** : Switchable lighting modes (18 modes) drift with the flow, rippling blue waves, stars, endless streams, shadows, mountains, sine waves, colorful springs, no trace on the snow, flowers blooming, killing two birds with one stone, twists and turns, colorful vertical and horizontal, snow in the sky, shooting stars, always bright, dynamic breathing, spectrum cycle.
 2. **FN+''** : Can switch between Modes Backlight color.
 3. **FN+↑ / FN+↓** : Adjustable backlight brightness in 5 levels.
 4. **FN+ ← / FN+ →** : Adjustable backlight speed in 5 levels.
 5. **FN+WINDOWS Key**: can lock/unlock WINDOWS function (at the same time the key light turns white)
 6. **FN+Delete** : can switch the side light mode (6 modes) light wave, horse racing, constant light, breathing, neon, and off.
 7. **FN+Home** : adjustable side light color
 8. **FN+.>** : Adjustable side light brightness in 5 levels (+)
 9. **FN+,<** Adjustable side light speed, adjustable in 5 levels (-)
 10. **FN+Pgup** can adjust the side light brightness in 5 levels (+)
 11. **FN+Pgdn** adjustable side light brightness adjustable in 5 levels (-)
 12. **FN+ Back** can turn off all lights (power saving mode)
 13. **Bluetooth pairing**: Turn the switch to Bluetooth mode, press and hold the **FN+ A or S or D key** combination for 3 seconds, the keyboard will enter the pairing state, the blue indicator light will flash quickly, and the indicator light will stay on after connecting. It goes off after 2 seconds. If the device is not connected, the indicator light goes off and the keyboard goes to sleep.
 14. **Battery inquiry**: Press the key combination **Fn + space key**, the backlight goes out, and the numeric keys 1 to 0 light up to show the battery percentage. For example: 1 lights up, indicating 10% power, and 2 light up, indicating 20% power. And so on. (Red below 30%, yellow below 50%, green above 50%) **(Battery query is not supported during charging)**
 15. **Charging tips**: Charging indicator light_red light is always on, full green light is always on
 16. **Low Battery indicator**: charging indicator light flashes red (at the same time, the side lights automatically turn off)

	Windows Key combination	Mac Key combination	Windows/MacKey combination
Fn + Tab	Hold 3 sec to restore factory settings	Hold 3 sec to restore factory settings	
Fn + Esc	`	`	
Shift + Esc	~	~	
Fn + Q	My computer		FN+1=F1
Fn + W	Browser		FN+2=F2
Fn + E	Mail		FN+3=F3
Fn + R	Search	Focused search	FN+4=F4
Fn + T	Previous piece	Previous piece	FN+5=F5
Fn + Y	Pause playback	Pause playback	FN+6=F6
Fn + U	Next track	Next track	FN+7=F7
Fn + I	Mute	Mute	FN+8=F8
Fn + O	Volume-	Volume-	FN+9=F9
Fn + P	Volume +	Volume +	FN+0=F10
Fn + [Turn down screen brightness -	Turn down screen brightness -	FN+_- =F11
Fn +]	Increase screen brightness+	Increase screen brightness+	FN+=+ =F12
Fn + Win	Lock WIN key (WIN key lights up white)		

A2

1 2 3 4 5 6 7 8

A2

H

1 2 3 4 5 6 7 8

H

G

1 2 3 4 5 6 7 8

G

F

1 2 3 4 5 6 7 8

F

E

1 2 3 4 5 6 7 8

E

D

1 2 3 4 5 6 7 8

D

C

1 2 3 4 5 6 7 8

C

B

1 2 3 4 5 6 7 8

B

A

1 2 3 4 5 6 7 8

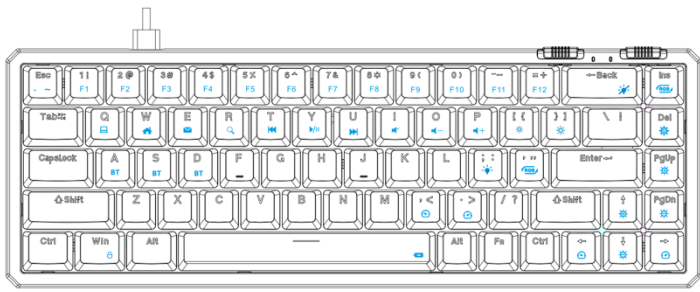
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A2

1 2 3 4 5 6 7 8

A2

AIKUN-GX968WR-US-001



REVISION		O
RELEASED FOR SOURCING		
		A

PLASTIC TOLERANCES CLASS			
DIMENSION	A	B	D
BELOW 6	±0.05	±0.15	
6 ~ 50	±0.1	±0.2	
51 ~ 120	±0.2	±0.4	
121 ~ 300	±0.4	±0.8	
301 ~ 600	±0.6	±2.0	
601 ~ 1200	±2.0	±4.0	
ANGLE		±0.5°	
UNLESS OTHERWISE SPECIFIED			

SHEET 1 OF 1

AKUN 深圳市爱坤电子科技有限公司	
DESCRIPTION: 6x968三模	SERENG DWG NO: ETHNOCEN
DRAWN BY: 20231106	CHECKED BY: APPROVED BY:

A2

1 2 3 4 5 6 7 8

A2

H

1 2 3 4 5 6 7 8

H

G

1 2 3 4 5 6 7 8

G

F

1 2 3 4 5 6 7 8

F

E

1 2 3 4 5 6 7 8

E

D

1 2 3 4 5 6 7 8

D

C

1 2 3 4 5 6 7 8

C

B

1 2 3 4 5 6 7 8

B

A

1 2 3 4 5 6 7 8

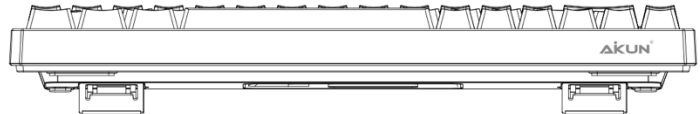
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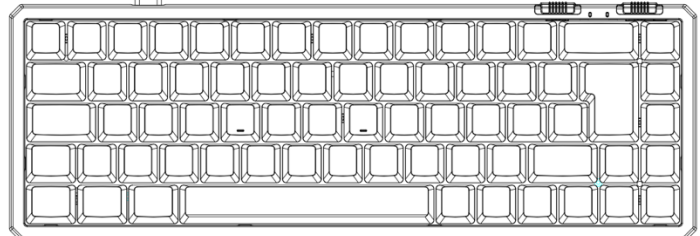
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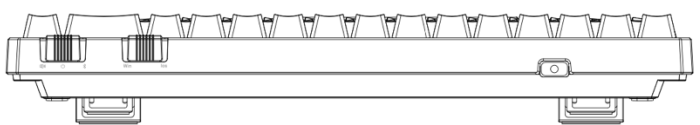
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A2

GX968WR










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		A

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DRAWN BY: 20231106	CHECKED BY: APPROVED BY:

GX968WR	
Logo	colour:
AKUN®	
size: 25x6.2mm	PANTONE Cool Gray 7C
On/Off indication	colour:
	
size: 59x2.1mm	PANTONE Cool Gray 7C
<p style="font-size: 24px; font-weight: bold;">AKUN®</p> <p style="font-weight: bold;">2023.9.16</p>	