XY旋钮版三模转圈跑马.产品说明书

合格证 Certification 检验员 Inspector QC6 PASS

炫彩真机械键盘
Colorful real mechanical keyboard

XY旋钮版三模转圈跑马.产品说明书
Manual of three-mode Knob Turning Lighting Effect Product

保修条例：

1、自购买之日起，由电器性能不稳定引起的产品故障，可有一年保修服务，但人为破坏（如自行拆卸、运输损坏、磕碰摔损、进水泡水、输入电压电流不当）自然灾害（如地震、火灾、水灾等）所引起的损坏，不在保修范围内。

2、本保修卡所列各栏，请如实填写，并盖有经销店印章方视为有效。

3、本保修卡一旦遗失不再补发，请务必妥协保管。

产品维修登记表 Product maintenance registration form			
序号serial number	日期date	故障原因fault reason	备注 notes

机械键盘功能及规格

❑MCU 硬件规格：

本款机械键盘采用高性能 Flash 单片机，支持 USB2.0 (全速 12Mbps)传输模式下，控制、中断和批量数据传输功能，全键无冲设计。 MCU 工作频率高、响应速度快、工作电压宽泛。工业级规格，工作环境温度宽泛，可在复杂外部条件下保持正常工作。

MCU 硬件参数如下：

Flash ROM：32K 字节
EEPROM：内建 2K 字节
工作电压：VDD = 3.3V ~ 5.5V

❑功能说明：

1. 本款机械键盘可运行于Win7，Win8, Win10等操作系统。
2. 支持常用游戏模式按键背光功能及自定义按键背光功能。
3. 支持多种超炫LED灯光特效(请以实物效果为准)
   标准版模式：支持常亮模式
4. 支持常亮、呼吸、流光等模式下亮度调节。
   调至最高或最低级时，支持 M1、M2、M3 、三个指示灯同闪烁显示。
5. 支持呼吸、流光等模式下速度调节。

其他组合键功能定义：

FN+F1=计算机　FN+F2=搜索　FN+F3=计算器　FN+F4=播放器
FN+F5=上一曲　FN+F6=下一曲　FN+F7=播放/暂停　FN+F8=停止
FN+F9=静音　FN+F10=音量-　FN+F11=音量+　FN+WIN-L=锁WIN和APP

灯光特效模式切换顺序（标准版）：

插USB上电开机，先展示跑马灯效动画，然后进入常亮模式。在未断电前，将保持用户在最后一次使用的功能模式状态。USB断电后记忆最后一次使用的功能模式状态。
关机重启或重新插拔USB，将重新启动前述上电开机流程。除了之前用户在自定义模式下的设定仍会被存储保留外，其他键盘功能设定均恢复为默认状态。
按FN+INS，进入“常亮模式”键盘整体背光常亮，亮度以之前调节的记忆参数为准。
FN+INS 20种光效模式切换

模式切换说明：

FN+BackSpace=查询电量，按下组合键Fn+BackSpace，背光熄灭，数字键1到0键亮灯显示电量占比，仅无线模式才能查询,例如:1亮，表示10%电量，1和2亮，表示20%电量.
FN+空格键=关闭灯光
蓝牙连接方式
FN+Q/W/E长按5秒蓝牙对码广播，指示按键灯分别快闪对码成功后恢复默认灯效. 回连时，短按FN+Q/W/E进行蓝牙通道切换，相应指示灯以0. 5Hz快速闪烁，回连成功后停止闪烁，恢复默认灯效.

2.4G连接方式
首次使用短按FN+R，把2.4G适配器插到设备USB2.0接口即可使用（出厂时已对码），回连时慢闪.
重新对码:长按FN+R 5秒 切换为 2.4G 对码模式(距离键盘50CM)，R键以 2.5H快速闪烁，插上2.4适配器，对码成功后停止闪烁，恢复默认灯效。

FN+T切换有线
充电时空格键灯常亮，充满后充满之后与背光同步. 低电压3.3V左右空格键灯闪烁提示要充电
无线模式键盘2min钟键盘无任何动作灯光关闭，30min键盘深度休眠
电池满电4.2V，电量低于3.4V左右空格键低电报警闪烁，

充电时空格键灯常亮，充满后充满之后与背光同步.　低电压3.3V左右空格键灯闪烁提示要充电
无线模式键盘2min钟键盘无任何动作灯光关闭，30min键盘深度休眠
电池满电4.2V，电量低于3.4V左右空格键低电报警闪烁，

❑其他组合键功能定义：

FN+ “↑/↓”5级亮度调节　FN+ “←/→”5级快慢调节　FN+ Esc 一 恢复出厂设置

游戏模式及按键自定义设定：

FN+1= 游戏模式1（FPS）- ASDW ↑↓←→ ESC 亮
FN+2= 游戏模式2（CF）- ASDW Ctrl Shift Alt Space RGQEB 1-5 Tab F1-F3 ASDW Home End PrtSc Scroll lock PGUP PGDN 亮
FN+3= 游戏模式3（COD）- QWERTASDFGCV 1-7 Ctrl Shift 亮

多媒体M1：1-5 QWETASDFZCVBM TAB CapsLcok Shift Ctrl Alt
多媒体M2：1-6 QWERASDFGHCBM TAB CapsLcok Alt
多媒体M3：1-4 QWERASD TAB Alt Shift Ctrl Enter Ins Home Del End PgUp

❑多媒体按键功能说明

编码器：默认为普通模式：滚轮指示灯亮，短按切换灯光模式，左旋灯光亮度变暗，右旋灯光亮度变亮（灭和最亮指示灯会闪烁），
长按**编码器**进入多媒体模式：滚轮指示灯常亮，短按静音，左旋音量减，右旋音量加
多媒体按键 M1：默认为普通模式：滚轮指示灯亮，短按默认游戏亮灯模式 1，长按录制灯光滚轮指示灯闪烁，灯光录制完成，再次按下按键结束灯光录制！
长按**编码器**进入多媒体模式：滚轮指示灯常亮，按下按键上一曲
多媒体按键 M2：默认为普通模式：滚轮指示灯亮，短按默认游戏亮灯模式 2，长按录制灯光滚轮指示灯闪烁，灯光录制完成，再次按下按键结束灯光录制！
长按**编码器**进入多媒体模式：滚轮指示灯常亮，按下按键播放/暂停
多媒体按键 M3：默认为普通模式：滚轮指示灯亮，短按默认游戏亮灯模式 3，长按录制灯光滚轮指示灯闪烁，灯光录制完成，再次按下按键结束灯光录制！
长按**编码器**进入多媒体模式：滚轮指示灯常亮，按下按键下一曲

Certification Inspector QC6 PASS

Colorful real mechanical keyboard
Instruction Manual
Manual of three-mode Knob Turning Lighting Effect Product

Warranty regulations:

1. From the date of purchase, the product failure caused by the unstable electrical performance can be guaranteed for one year, but it is damaged artificially (such as self disassembly, transportation damage, bump damage, water flooding, improper input voltage and current) natural disasters (such as earthquake, fire The damage caused by flood is not covered by the warranty.

2. The columns listed in this warranty card shall be filled in truthfully and stamped with the seal of the dealership.

3. If this warranty card is lost, it will not be reissued. Please compromise and keep it.

Product maintenance registration form			
serial number	date	fault reason	notes

Function and specification of mechanical keyboard

MCU hardware specifications:

This mechanical keyboard adopts a high-performance Flash single-chip microcomputer, supports USB2.0 (full speed 12Mbps) transmission mode, control, interrupt and batch data transmission functions, and a full-key non-punch design.
MCU has high working frequency, fast response speed and wide working voltage.
Industrial grade specifications, wide working environment temperature, can maintain normal operation under complex external conditions.
The MCU hardware parameters are as follows:
Working voltage: VDD = 3.3V-5.5V
Function Description:

1. This mechanical keyboard can run on Win7, Win8, Win10 and other operating systems.
2. Support the key backlight function of common game mode and custom key backlight function.
3. Support a variety of super dazzling LED lighting effects (please subject to the actual effect)
4. Supports brightness adjustment under constant light, breathing, streamer and other modes.
When it is adjusted to the highest or lowest level, the three indicator lights of M1, M2, M3 are supported flashing.
5. Support speed adjustment in breathing, streamer and other modes.

Other key combination function definitions:

FN + F1= Computer　FN + F2= Search　FN + F3= Calculator　FN + F4= CD
FN + F5= Prev Track　FN + F6= Next Track　FN + F7= Play/Pause　FN + F8= CD Stop
FN + F9= Mute　FN + F10= Volume-　FN + F11= Volume+　FN + win-l = lock win and app

Lighting effect mode switching sequence (standard version):

Plug in the USB and power on, first display the marquee effect animation, and then enter the constant light mode. Before the power is turned off, the state of the function mode used by the user last time will be maintained. After the USB is powered off, the state of the last function mode used is memorized.
Shut down and restart or re-plug the USB, will restart the aforementioned power-on process. Except for the previous user settings in the custom mode will still be stored and retained, other keyboard function settings are restored to the default state.

Switching of 20 light effciency modes in FN + ins

Other key combination function definitions: FN+ Esc = restore factory settings
FN+"↑/↓" 5-level brightness adjustment. FN+"←/→" 5-level speed adjustment.
FN + BackSpace = query power quantit, Press the key combination Fn+BackSpace, and the backight turns ot,The number keys 1 to 0 correspond to the light on the kevdisplay the power ratio.Only the wireless mode can be queried, for example: If 1 is light on, it means 10% remaining battery capacity. If 1 and 2 are light on, it means 20% remaining battery capacity.

FN + Space bar* = Turn off the backlight, Turn off the side light, Default steady on.

Game mode and button customization settings:

FN+1 = Game Mode 1 ASDW 1↓←→ ESC
FN+2 = Game Mode 2 ASDW Ctrl Shift Alt Space RGQEB 1-5 Tab F1-F3 ASDW Home End PrtSc Scroll lock PGUP PGDN
FN+3 = Game Mode 3 QWERTASDFGCV 1-7 Ctrl Shift
M1: 1-5 QWETASDFZCVBM TAB CapsLcok Shift Ctrl Alt
M2: 1-6 QWERASDFGHCBM TAB CapsLcok Alt
M3: 1-4 QWERASD TAB Alt Shift Ctrl Enter Ins Home Del End PgUp

Bluetooth connection mode: FN + Q / W / E for 5 seconds long press the Bluetooth to broadcast the code, indicating that the key lights are flash to restore the default light effect after the successful code.When connecting back, short press FN + Q / W / E to switch the Bluetooth channel, the corresponding indicator light flickers quickly with 0.5Hz to stop flickering after successful connecting back to the default light effect.
2.4G Connection:First use short press F N+ R, the 2.4G adapter plug into the device USB2.0 interface can be used (factory code).New code:Long press FN + R for 5 seconds to switch to 2.4G pair of code mode, R key to 2.5H flash quickly, plug in 2.4 adapter, stop flashing after the success of the code, restore the default light effect.

FN+T:toggle wired

The spacebar light is always on while charging, and synchronizes with the backlight when fully charged. When the voltage is about 3.3V, the space bar indicator blinks, indicating that you need to charge. In wireless mode, the keyboard does not operate for 2 minutes, and the lights will be turned off. If you do not perform any operation within 30 minutes, you will enter deep sleep. The battery is fully charged at 4.2V. When the battery is below 3.4V or so, the space bar will flash a low battery alarm.

Multimedia button function description
Encoder: The default is the normal mode: the wheel indicator is on, short press to switch the light mode, the left-handed light will dim, and the right-handed light will become brighter (off and the brightest indicator will flash),
Long press to enter multimedia mode: the wheel indicator is off, short press to mute, the left-handed volume is reduced, and the right-handed volume is increased.

Multimedia button M1: The default is the normal mode: the wheel indicator light is on, short press the default game light mode 1, long press the recording light wheel indicator light flashes, the light recording is completed, press the button again to end the light recording!
Long press to enter multimedia mode: The roller indicator is steady o**press** the button to go to the previous song
Multimedia button M2: The default is normal mode: the wheel indicator light is on, short press the default game light mode 2, long press the recording light wheel indicator light flashes, the light recording is completed, press the button again to end the light recording!
Long press to enter the multimedia mode:The roller indicator is steady o**press** the button to play/pause
Multimedia button M3: The default is the normal mode: the wheel indicator light is on, short press the default game light mode 3, long press the recording light wheel indicator light flashes, the light recording is completed, press the button again to end the light recording!
Long press to enter multimedia mode:The roller indicator is steady o**press** the button to next song