Three-mode mechanical keyboard

## HJK942XY三模转跑马.产品说

HJK942XY Three Mold Turn Horse Racing. Product says

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。

4.充电注意事项：禁止使用USB充电器给键盘充电，只可以使用电脑USB端口充电。

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 |
|---|---|---|---|
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### 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。

❑**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。

    调至最高或最低级别，支持NumLock、CapsLock、ScrollLock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。

其他组合功能键定义：

| | | | | |
|---|---|---|---|---|
| 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 | | | |

**标准版：**

支持20种灯效模式，开机动画、常亮、等。

插USB上电开机，先展示跑马灯灯效动画，然后进入常亮模式。在未断电前，将保持用户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。除了之前用户自定义灯效下的设定仍会被存储保留外，其他键盘功能设定均会恢复到默认状态。

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+INS20种光效模式切换

FN+ "↑/↓" 5级亮度调节。

FN+ "←/→"5级快慢调节

FN+空格键=关闭灯光

**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.

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**蓝牙连接方式**

FN+Q/W/E长按5秒蓝牙对码广播，指示按键灯分别闪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，

### 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 Ins Del Home End PrtSc Scroll lock 亮

FN+3=  游戏模式3（COD） - QWERTASDFGCV 1-7 Ctrl Shift 亮

FN+4=  游戏模式4（RTS） - QWERASDGXZFKLHMNUYTP Space 1-7,9-0 Ctrl Shift Alt 亮

FN+5=  游戏模式5（LOL全） - QWER DGFBV Ctrl Alt Tab Space ~ 1-6 Esc亮

FN+6=  游戏模式6（Car Race） - ASDWR ↑↓←→ Ctrl Shift Alt 亮

FN+7=  游戏模式7（NBA） - AFSWRE Ctrl Shift Alt Space ↑↓←→ ZXCV 1234 亮

FN+9=  自定义模式1 - self design    FN+0=  自定义模式2 - self design

FN+8=  游戏模式8（LOL简） - QWERDFB 1-6

以上游戏及自定义模式可在任意功能模式下，直接按组合键进入所选择的游戏键发光模式。

自定义模式按键录制存储：

FN+Home = 录制键/存储键

按FN+9或FN+0进入相应自定义模式后，按FN+Home进入自定义点录制状态。

按任何需要亮起或熄灭的指定状态，完成设定后，按FN+HOME进行存储即可

进入录制状态后NumLock、CapsLock、ScrollLock三灯持续闪烁，录制结束熄灭。

长按FN＋ESC 3秒后指示灯闪烁三次后，清除灯光录制，恢复出厂设置。

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## Function and specification of mechanical keyboard

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.

4. Charging note: Do not use USB charger to charge the keyboard, only use the computer USB port to charge.

| Product maintenance registration form | | | |
|---|---|---|---|
| serial number | date | fault reason | notes |
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### 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.

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)

Standard version mode: support constant light mode, no trace on snow, pointing country, breathing mode, marquee light effect (boot animation), starry dots, dazzling colorful flowers, serpentine horse racing, sine wave.

Extended version mode: Supports pressing and disappearing, triggering, button ripples, rotating storm, following the waves, streamer mode, Ambilight, continuous flow, diagonal pull change

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 NumLock, CapsLock and ScrollLock 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**

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FN+"↑/↓" 5-level brightness adjustment.  FN+"←/→" 5-level speed adjustment.

FN + BackSpace = query power quantit, Press the key combination Fn+BackSpace, and the backlight 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.

The spacebar light is always on while charging, and synchronizes with the backlight when fullycharged. When the voltage is about 3.3V, the space bar indicator blinks, indicating that youneed to charge. in wireless mode, the keyboard does not operate for 2 minutes, and the lightswill be turned off. If you do not perform any operation within 30 minutes, you will enter deep

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

**Game mode and button customization settings:**

FN+1 = Game Mode 1 (FPS)-ASDW ↑↓←→ ESC is on

FN+2 = Game Mode 2 (CF)-ASDW Ctrl Shift Alt Space RGQEB 1-5 Tab F1-F3 Ins Del Home End PrtSc Scroll lock on on

FN+3 = Game Mode 3 (COD)-QWERTASDFGCV 1-7 Ctrl Shift on

FN+4 = Game Mode 4 (RTS)-QWERASDGXZFKLHMNUYTP Space 1-7, 9-0 Ctrl Shift Alt is on

FN+5 = Game Mode 5 (All LOL)-QWER DGFBV Ctrl Alt Tab Space ~ 1-6 Esc is on

FN+6 = Game Mode 6 (Car Race)-ASDWR ↑↓←→ Ctrl Shift Alt on

FN+7 = Game Mode 7 (NBA)-AFSWRE Ctrl Shift Alt Space ↑↓←→ ZXCV 1234 is on

FN+8 = Game Mode 8 (LOL Jane)-QWERDFB 1-6

FN+9 = custom mode 1-self design    FN+0 = custom mode 2-self design

The above game and custom modes can be in any function mode, directly press the key combination to enter the selected game key lighting mode.

Custom mode button recording and storage:

FN+Home recording key

FN+Home = storage key

After pressing FN+9 or FN+0 to enter the corresponding custom mode, FN+Home to enter the custom stipling recording state.

Press any key that needs to be lit or extinguished to the specified state, after finishing the setting, press FN+Home to store it.

After recording, NumLock, CapsLock, and ScrollLock continue to blink and turn off after recording ends.

Press and hold down FN+ ESC for 3 seconds, the indicator flashes three times to clear the light recording and restore factory Settings.

FCC WARNING

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.

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.

Note: The Grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. such modifications could void the user's authority to operate the equipment.

The device has been evaluated to meet general RF exposure requirement.
This equipment complies with FCC's RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna(s) must not be co-located or conjunction with any other antenna or transmitter.