尺寸:140x80mm(单张)
材质:128铜板纸 折叠式单黑

K20三模数字机械键盘

—QMK用户手册—

USER'S MANUAL

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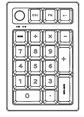
K20 产品参数

产品品牌:VTER
产品名称:K20
产品结构:板载Gasket结构
产品尺寸:93.1x140.1x41.9mm
产品重量:≈275g
按键数量:20key
电池容量:1500mAh
连接方式:有线-USB/蓝牙/2.4G
线材长度:≈1.5M
接　口:键盘标准式TYPE-C接口
矩　阵:全键无冲
背　光:全彩RGB
兼容性:Windows7/8/9/10/11/Mac/Android/ios



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K20 指示灯说明

1、ON模式: 开启电源，进入无线模式

2、OFF模式: 关闭电源，进入有线模式

3、NUM指示灯: NUM指示灯白光指示　　ON　OFF

4、对码操作: NUM指示灯:蓝牙1闪灯/蓝牙2闪灯/蓝牙3闪灯/2.4G慢灯

5、模式连接指示灯:

指示灯设置		回连	配对	连接成功
BT1	指示灯W	蓝色慢闪	蓝色慢闪	常亮3秒后熄灭
BT2	指示灯W	绿色慢闪	绿色慢闪	常亮3秒后熄灭
BT3	指示灯W	红色慢闪	红色慢闪	常亮3秒后熄灭
2.4G	指示灯W	黄灯慢闪	黄灯慢闪	常亮3秒后熄灭

6、充电/系统切换指示灯:

指示灯设置		指示方式
充电	0键	红灯常闪
充电	0键	红灯常亮开始充电
充满	0键	冲满后绿灯常亮60秒后，进入默认指示灯效

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7、低电指示:
无线模式下，检测到电池电压不高于3.1V时，进入关机状态，当插上有线传电后，即可恢复正常使用。或者电池大于等于3.3V时，即可正常使用。（注：**在任何一种无线模式下插入USB线即为设备充电/充满连接电脑(USB)充电，不支持读取数据传电**）

K20 休眠机制与产品名称说明

1、深度休眠：无

2、省电休眠：键盘无按键操作3分钟后将光关闭，按任意按键唤醒键盘背光并回连蓝牙。

3、蓝牙名称：K20-1/K20-2/K20-3

2.4G名称：VTER-2.4G

有线名称：K20

K20 灯光效果说明

1、上电后，灯光按键设置指动，拖尾效果，跑完所有按键后，恢复掉电前灯光状态。

2、灯光模式的点亮顺序依表格从上到下。最后切换模式后有OFF。

3、灯光效果：46组灯效

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K20 模式连接说明

1、有线连接
开关按钮OFF有时即是有线连接模式;
有线模式，插动开关至OFF挡，USB即插即用

2、无线蓝牙连接
开关按钮ON挡时连接蓝牙方式如下
Fn+1/2/3：键盘进行ON挡后，按下Fn+1/2/3进入蓝牙模式，长按Fn+1/2/3组合键3S，键盘进入闪灯状态，蓝/绿/红指示灯快闪，连上后指示灯常亮3s，找平到配对设备30s后，退出对码模式打开蓝牙，键盘进入睡眠。

3、无线2.4G连接
开关按钮ON挡时连接2.4G方式如下
Fn+4：键盘进行ON挡后，按下Fn+4进入2.4G模式，长按Fn+4组合键3S，键盘进入对码状态，黄色指示灯快闪，插入接收器，连上后指示灯常亮3s，找平到配对设备30s后，退出对码模式打开蓝牙，键盘进入睡眠。

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K20 按键复合功能说明

	组合按键	描述
Fn+ECS	计算器	
Fn+0	短按一次	键盘常关灯一次表示
Fn+ DEL	键盘背光颜色切换	（顺序：单色循环渐变）
Fn+Enter	键盘背光灯效切换	46种灯效切换 默认随法速法
Fn++	灯光速度加快	每按相应灯，背光灯闪3次表示光指示
Fn+-	灯光速度减慢	
Fn+*	灯光亮度++	
Fn+ ○	灯光亮度 -	
Fn+1	蓝牙通道1	键盘进行ON挡后，按下Fn+1/2/3进入蓝牙模式，长按Fn+1/2/3组合键3S，键盘进入闪灯状态，蓝/绿/红指示灯快闪，连上后指示灯常亮3s，找平到配对设备30s后，退出对码模式打开蓝牙，键盘进入睡眠。
Fn+2	蓝牙通道2	
Fn+3	蓝牙通道3	
Fn+4	2.4G模式	键盘进行ON挡后，按下Fn+4进入2.4G模式，长按Fn+4组合键3S，黄色指示灯快闪，插入接收器，连上后指示灯常亮3s，找平到配对设备30s后，退出对码模式打开蓝牙，键盘进入睡眠。

K20 旋钮功能说明

旋钮默认：按压静音/左V-/右V+

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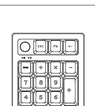
K20 Product parameters

Product brand: VTER
Product Name: K20
Product structure: Leaf spring gasket structure
Product size: 93.1x140.1x41.9mm
Product weight: ≈275g
Number of keys: 20keys
Battery capacity: 1500mAh
Connection method: Wired USB/Bluetooth/2.4G
Wire length: ≈1.5M
Interface: Keywire separation type C interface
Matrix: Full key no impact
Backlight: Full color RGB
Compatibility: Windows 7/8/9/10/11/Mac/Android/IOS



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K20 Indicatorlightdescription

1. ON mode: Turn on the power and enter the wireless mode.

2. OFF mode: Turn off the power and enter wired mode.

3. NUM Indicator: NUM key indicates white light.

4. Code indicator light: Bluetooth 1 blue light/Bluetooth 2 green light/Bluetooth 3 red light/2.4G yellow light

5. Mode connection indicator light:

Indicator light settings	Reconnection	Pair	Connection successful
BT1	Indicator light W	Blue slow flashing	Always on for 3 seconds and then off
BT2	Indicator light W	Green slow flashing	Always on for 3 seconds and then off
BT3	Indicator light W	Red slow flashing	Always on for 3 seconds and then off
2.4G	Indicator light W	Yellow light flashing slowly	Always on for 3 seconds and then off

7. Charging/system switching indicator light:

Indicator light settings		Indication method
Low electricity	0 key	Red light flashing fast
Charging	0 key	The red light is constantly on and charging begins
Full of	0 key	After being fully charged, the green light will remain on for 60 seconds before entering the default running light effect

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10. Low battery indication:
In wireless mode, when the battery is detected to be less than or equal to 3.1V, it will enter the shutdown state, and it can resume normal use when wired charging is plugged in. Or when the battery is greater than or equal to 3.3V, it can be normal.
Use. (Note: The device can be charged by connecting the USB cable in any wireless mode (only USB connected to the computer is supported for charging, not adapter charging)

K20 Hibernation mechanism and product name description

1. Deep sleep: none

2. Power saving sleep: After 3 minutes of keyless operation on the keyboard, the backlight will turn off. Press any button to wake up the keyboard backlight and reconnect to Bluetooth.

3. Bluetooth name: K20-1/K20-2/K20-

2.4G name: VTER-2.4G

Wired name: K20

K20 Lighting effect description

1. After power-on, the light runs around the keyboard, and the tail goes out. After running all the keys, the light status before power-off is restored.
2. Lighting mode lighting order according to the table from top to bottom, Finally cut the mode after OFF.
3. 46 sets of lighting effects

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K20 Mode Connection Description

1. Wired connection
When the switch is set to the middle gear, it is the wired connection mode;
Wired mode, toggle switch to middle gear, USB plug and play.

2. Wireless Bluetooth connection
When the switch is set to Bluetooth, the way to connect Bluetooth is as follows
Fn+1/2/3: After the keyboard dials the Bluetooth file, press Fn+1/2/3 to enter the Bluetooth mode, and press the key combination of Fn+1/2/3 for 3S, and the keyboard will enter the code alignment state, and the blue/green/red indicator light will flash and connect.The indicator light is always on for 3S after being turned on. After the pairing device cannot be found for 30s, the code checking mode is exited, the light goes out and the keyboard goes to sleep.

3. 2.4G wireless connection
When the switch is set to 2.4G, the mode of connecting 2.4G is as follows: (Pairing has been completed at the factory. Fn+R can be used by switching to 2.4G mode and inserting it into the receiver. If it is necessary to force the code length to be paired.)
Fn+4: After the keyboard dials the 2.4G mode, press Fn+4 to enter the 2.4G mode, and then press the Fn+4 combination key 3S to enter the pairing mode, and then the indicator light flashes, and the receiver is plugged in. After the pairing is successful, the code checking is exited.The mode light is always on for 3S, and after 3Is when the pairing device cannot be found, the mode light is turned off and the keyboard goes to sleep. Short-press switching device

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K20 Key compound function description

	组合按键	描述
Fn+ECS	calc	
Fn+0	Press it once	Keyboard backlight goes out once
Fn+ DEL	Keyboard backlight color switching	（Order: Monochrome Cyclic Gradient）
Fn+Enter	Keyboard backlight effect switching	46 kinds of lighting effects switch to drift by default.
Fn++	Speed up the lighting	When the gear is in the limit position, the backlight flashes white light for 3 times.
Fn+-	The light slows down.	
Fn+*	Lighting brightness+	
Fn+ ○	Lighting brightness+	
Fn+1	Bluetooth channel 1	After the keyboard is turned ON, press Fn+1/2/3 to enter Bluetooth mode, and press Fn+1/2/3 for 3S.The keyboard enters the codechecking state, and the blue/green/red indicator flashes.After being connected, the indicator is always on for 3S, but it can't be found,After the pairing device reaches 30s, exit the code matching mode, the light goes out and the keyboard goes to sleep.
Fn+2	Bluetooth channel 2	
Fn+3	Bluetooth channel 3	
Fn+4	2.4G mode	After the keyboard dials the ON file, press Fn+4 to enter the 2.4G mode, and press the combination key Fn+4 for 3S to enter the pairing mode, and then the indicator lights flash. Plug into the receiver, and the indicator lights stay on for 3S.After being connected, After the pairing device cannot be found for 30s,Exit the code mode, the light goes out and the keyboard goes to sleep.

K20 Function description of knob

Default knob: press mute/left V-/ right V+

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2、服务内容：按售型计算机商品维修更换due责任程度进行操作；
3、不属于服务范围：
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d.人为因素导致产品不良（如摔/失误、碰撞、进水、插入不合适电压等）；
e.一切入为拆开、自行拆机、拆封时、使用不当等，不在保修范围。

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