

尺寸:210x897mm,四折页一折页尺寸为210x214mm
正反双面印刷



ZOOM TKL DYNNA 机械键盘三模操作说明

一、键盘规格说明				备注
1	本说明仅适用于 ZOOM TKL DYNNA USB+BT+2.4G三模RGB版本的操作要求说明			
2	USB+BT+2.4G三模连接, 键盘名称: ZOOM TKL DYNNA; 蓝牙名称: ZOOM TKL DYNNA BT1/ZOOM TKL DYNNA BT2/ZOOM TKL DYNNA BT3 上位机支持: VIA			
3	最多支持3个蓝牙设备和1路2.4G无线通讯			
4	无线模式电池供电状态, 默认10分钟无操作进入休眠模式, 休眠时连接状态保持, 按任意键恢复; USB供电时不休眠, 插PC USB时, 优先进入USB模式			
二、按键说明及灯效说明				
功能	组合键	操作	说 明	
无线连接 操作(支持3路蓝牙+1路2.4G设备连接)	Fn+Z	长按5秒	对码1号蓝牙设备,进入配对状态,搜索设备时长120秒,配对成功为蓝牙输入状态,配对不成功,退出当前状态,恢复到对码前的状态。 配对时LED进入配对状态指示,Z键轴灯绿色灯快闪,配对成功连接后长亮3秒后灭。	
			状态切换: 蓝牙连接到设备1。 蓝牙未连接状态,搜索蓝牙设备时,Z键轴灯绿色灯慢闪,连接成功长亮3秒后灭,15秒未连接退出当前状态。	
	Fn+X	长按5秒	对码2号蓝牙设备,进入配对状态,搜索设备时长120秒,配对成功为蓝牙输入状态,配对不成功,退出当前状态,恢复到对码前的状态。 配对时LED进入配对状态指示,X键轴灯蓝色灯快闪,配对成功连接后长亮3秒后灭。	
			状态切换: 蓝牙连接到设备2。 蓝牙未连接状态,搜索蓝牙设备时,X键轴灯蓝色灯慢闪,连接成功长亮3秒后灭,15秒未连接退出当前状态。	
	Fn+C	长按5秒	对码3号蓝牙设备,进入配对状态,搜索设备时长120秒,配对成功为蓝牙输入状态,配对不成功,退出当前状态,恢复到对码前的状态。 配对时LED进入配对状态指示,C键轴灯黄色灯快闪,配对成功连接后长亮3秒后灭。	
			状态切换: 蓝牙连接到设备3。 蓝牙未连接状态,搜索蓝牙设备时,C键轴灯黄色灯慢闪,连接成功长亮3秒后灭,15秒未连接退出当前状态。	
	Fn+V	长按5秒	进入接收器配对状态,搜索设备时长120秒,此时将接收器接入电脑USB端口,配对成功为2.4G输入状态,配对不成功,退出当前状态,恢复到对码前的状态。 配对时LED进入配对状态指示,V键轴灯紫色灯快闪,配对成功连接后长亮3秒后灭。	
			状态切换: 切换到2.4G无线通讯。 2.4G无线未连接状态,搜索设备时,V键轴灯紫色灯慢闪,连接成功长亮3秒后灭,15秒未连接退出当前状态。	
	Fn+Space	短按	转换至USB连接状态(未连接USB时无法切换)。	
	Fn+Caps	长按5秒	在蓝牙模式下且USB无电源连接,键盘进入深度休眠,其他按键均无法唤醒,再长按Fn+Caps 3秒唤醒键盘,或者插USB电源唤醒键盘,USB连接模式下无作用(主要作用关闭键盘状态,方便运输)。 关机时,CAPS指示绿灯闪一下,约0.3秒; 开机时,CAPS指示红灯闪一下,约0.3S (仅在蓝牙开关机时指示,USB上电断电时不指示)	注意,如改键,开机时必须按原Fn+Caps键
休眠时间切换	Space+Z	按住插USB	按住组合键后保持不动,插上数据线,切换到无操作10分钟后蓝牙进入休眠状态。	默认状态
	Space+X	按住插USB	按住组合键后保持不动,插上数据线,切换到无操作60分钟后蓝牙进入休眠状态。	
灯光 控制	Fn+Up	短按	灯光亮度增加	
	Fn+Down	短按	灯光亮度减少	
	Fn+Left	短按	灯效变化速度变慢	
	Fn+Right	短按	灯效变化速度变快	
	Fn+\	短按	关闭/开启灯光	
	Fn+{}}	短按	灯效切换	
	Fn+::	短按	灯效色相加	
	Fn+{【	短按	灯效饱和度加	
	Fn+""	短按	灯效饱和度减	
	Fn+Shift+Up	短按	底灯灯光亮度增加	
	Fn+Shift+Down	短按	底灯灯光亮度减少	
	Fn+Shift+Left	短按	底灯灯效变化速度变慢	
	Fn+Shift+Right	短按	底灯灯效变化速度变快	
	Fn+Shift+\	短按	底灯关闭/开启灯光	
	Fn+Shift+{}}	短按	底灯灯效切换	
	Fn+Shift+P	短按	底灯灯效色相加	
	Fn+Shift+::	短按	底灯灯效色相减	
	Fn+Shift+{【	短按	底灯灯效饱和度加	
	Fn+Shift+""	短按	底灯灯效饱和度减	
LCD屏 控制	Fn+Delete	短按	开/关显示屏,允许APP唤醒	
	Fn+PageUp	短按	显示屏页面上翻	
	Fn+PageDown	短按	显示屏页面下翻	
	Fn+Enter	短按	进入子页面确认	
	Fn+Rshift+Enter	短按	返回上一层	
	Fn+Rshift+Delete	短按	屏显按键开/关	
灯效测试	Fn+/?	短按	当前连接的无线通道指示: 相应的通道轴灯会闪烁5次	连接USB设备时无指示
		长按5秒	长按Fn+/? 3秒进入灯效测试模式	在测试模式下按一下方向键外的任意按键退出测试模式
WIN/MAC键位 布局切换	Fn+Q	长按5秒	键盘布局切换至WINDOWS常规键位布局	默认状态
	Fn+W	长按5秒	键盘布局切换适应于MAC的键位布局	
电池供电灯亮度 切换	Fn+Rshift+H	短按	切换电池供电下的LED灯亮度,最大亮度: 在1/2亮度(省电模式)与全亮之间切换	默认1/2最大亮度
	Fn+M	短按	充电指示/不指示状态切换	默认充电状态指示
电量指示	Fn+Backspace	短按	电池供电下,按住时(1-0)十个轴灯键绿色显示当前电量(1-0)分别代表10%~100%,松开不指示	
	Space+Backspace	长按	按住组合键5秒以上,键盘恢复到出厂设置状态	
恢复出厂设置	Fn+Rshift+R	短按	手动复位键盘,重新启动	
	Fn+N	短按	G键无冲/全键无冲切换,默认为G键无冲	
G键/全键无冲 切换	Fn+WIN	短按	锁WIN, 再按一次解锁	
	CAPS指示灯	指示灯红色: 无线状态休眠,指示灯灭: 唤醒后,恢复正常指示状态		
四、充电/电量指示				
1	低电量指示	与Fn轴灯共用,当电池电量低时,红色灯闪烁		
2	充电指示	与Fn轴灯共用,充电绿色灯闪烁指示,充满无指示		
五、电气规格				
1	背光全亮工作电流	不大于500mA		
2	LCD工作电流	不大于200mA		
3	背光灯灭工作电流	不大于100mA		
4	休眠电流	不大于2mA		
5	无线模式工作电流	不大于20mA		
6	USB工作电压	5±0.5V		
7	电池规格	锂离子充电电池,3.7V typical,4.2V max		
8	电池充电电流	不大于500mA		



ZOOM TKL DYNNA Instruction

1.Specifications of Keyboard				Notes
1	This instruction is only applicable to the operation requirements of the ZOOM TKL DYNNA tri-mode with RGB			
2	Tri-mode connection: USB/BT/2.4GHz Keyboard name: ZOOM TKL DYNNA BT names: ZOOM TKL DYNNA BT1/ZOOM TKL DYNNA BT2/ZOOM TKL DYNNA BT3 Software support: VIA			
3	Supports up to 3 Bluetooth devices and one 2.4GHz wireless connection			
4	In wireless mode, if the keyboard is inactive for 10 minutes, it will enter sleep mode while maintaining the Bluetooth connection. Press any key to wake it up. When powered by USB, the keyboard will not enter sleep mode and will prioritize USB mode when connected to a PC.			
2.Key and Lighting Effect Description				
Function	Key Combination	Operation	Description	
Wireless operation (support 3 Bluetooth devices and one 2.4G device to connect)	Fn+Z	Long press 5 seconds	Bluetooth Pairing ①: When entering pairing mode, the keyboard will search for available Bluetooth connections for up to 120 seconds. If pairing is successful, it will switch to Bluetooth input mode. If unsuccessful, it will revert to its previous state before pairing.	
			During the pairing process, the LED indicates the connection status. The Z key will blink GREEN rapidly. After a successful pairing, the light stays on for 3 seconds before turning off.	
	Fn+X	Short press	Switch to Bluetooth ①	
			When the keyboard is not connected and is actively searching for Bluetooth devices, the Z key will flash GREEN slowly. After a successful connection, the light will stay on for 3 seconds, then turn off. If no connection is made within 15 seconds, the device will exit pairing mode.	
	Fn+C	Long press 5 seconds	Bluetooth Pairing ②: When entering pairing mode, the keyboard will search for available Bluetooth connections for up to 120 seconds. If pairing is successful, it will switch to Bluetooth input mode. If unsuccessful, it will revert to its previous state before pairing.	
			During the pairing process, the LED indicates the connection status. The X key will blink BLUE rapidly. After a successful pairing, the light stays on for 3 seconds before turning off.	
		Short press	Switch to Bluetooth ②	
			When the keyboard is not connected and is actively searching for Bluetooth devices, the X key will flash BLUE slowly. After a successful connection, the light will stay on for 3 seconds, then turn off. If no connection is made within 15 seconds, the device will exit pairing mode.	
	Fn+V	Long press 5 seconds	Bluetooth Pairing ③: When entering pairing mode, the keyboard will search for available Bluetooth connections for up to 120 seconds. If pairing is successful, it will switch to Bluetooth input mode. If unsuccessful, it will revert to its previous state before pairing.	
			During the pairing process, the LED indicates the connection status. The C key will blink YELLOW rapidly. After a successful pairing, the light stays on for 3 seconds before turning off.	
	Fn+Space	Short press	Switch to the USB connection mode (cannot be switched when the USB cable is not connected)	
Sleep time switch	Fn+CAPS	Long press 5 seconds	In Bluetooth mode, if there is no USB power connection, the keyboard will enter deep sleep, and regular keys won't wake it up. To wake the keyboard, either press and hold FN+CAPS for 3 seconds or connect the USB power. This has no effect when the USB is already connected.	
			When turning the power off, the CAPS key flashes green once for about 0.3 seconds, and when turning on, it flashes red once for about 0.3 seconds. (Note: This only applies when toggling Bluetooth power, not USB power). The deep sleep mode is designed for easier transport	
Lighting Control	Space+Z	Holding and insert USB cable	Press and plug in the USB, switch to no operation for 10 minutes and then Bluetooth enters sleep mode	Default state
	Space+X	Holding and insert USB cable	Press and plug in the USB, switch to no operation for 60 minutes and then Bluetooth enters sleep mode	
	Fn+Up	Short press	Backlight brightness +	
	Fn+Down	Short press	Backlight brightness -	
	Fn+Left	Short press	Backlight speed -	
	Fn+Right	Short press	Backlight speed +	
	Fn+\	Short press	Backlight On/Off	
	Fn+{}}	Short press	Lighting switch	
	Fn+P	Short press	Backlight hue +	
	Fn+;:	Short press	Backlight hue -	
	Fn+{[Short press	Backlight saturation +	
	Fn+''	Short press	Backlight saturation -	
	Fn+Shift+Up	Short press	Bottom Light brightness +	
	Fn+Shift+Down	Short press	Bottom Light brightness -	
	Fn+Shift+Left	Short press	Bottom Light speed -	
LCD Screen Control	Fn+Shift+Right	Short press	Bottom Light speed +	
	Fn+Shift+\	Short press	Bottom Light On/Off	
	Fn+Shift+{}}	Short press	Bottom Light mode switch	
	Fn+Shift+P	Short press	Bottom Light hue +	
	Fn+Shift+;:	Short press	Bottom Light hue -	
	Fn+Shift+{[Short press	Bottom Light saturation +	
	Fn+Shift+''	Short press	Bottom Light saturation -	
Lighting Test	Fn+Delete	Short press	LCD On/Off	
	Fn+PageUp	Short press	LCD page up	
	Fn+PageDown	Short press	LCD page down	
	Fn+Enter	Short press	Enter into subpage	
	Fn+Rshift+Enter	Short press	Return to previous page	
	Fn+Rshift+Delete	Short press	Screen character display on/off	
WIN/MAC key layout switching	Fn+{/?}	Short press	Currently connected wireless device indication: the corresponding key light will flash 5 times	Note: If you need to change the key, you must press the original Fn+CAPS key when starting up
			Press and hold FN+{/?} for 3 seconds to enter the lighting effect test mode	
	Fn+Q	Long press 5 seconds	Switch the keyboard layout to the normal WINDOW key layout	
			Keyboard layout switch to MAC layout	
Battery Powered Light Brightness Switching	Fn+Rshift+H	Short press	Switch the default maximum brightness of the backlight under battery power: switch between 50% brightness (power saving mode) and full brightness	Default is 50% brightness
			When the power is low, the brightness will decrease to 50% to save power. When the power is high, the brightness will increase to full brightness.	
Charging indicator switch	Fn+M	Short press	Charging indicator On/Off	Default charging status indicator
			When powered by battery, press and hold Fn+M for 3 seconds to turn on the charging indicator. When powered by USB, press and hold Fn+M for 3 seconds to turn off the charging indicator.	
Reset	Space+Backspace	Long press 5 seconds	Press and hold Space+Backspace for more than 5 seconds to restore the keyboard to factory settings	
			Manually reset the keyboard and restart settings	
Restart reset	FN+RShift+R	Short press	Press and hold FN+RShift+R for 3 seconds to restart the keyboard	
			Manually reset the keyboard and restart settings	
6-Key/N-Key Rollover (NKRO)	Fn+N	Short press	6-Key/N-Key Rollover (NKRO), the default is 6-Key Rollover	
			Press and hold Fn+N for 3 seconds to switch between 6-Key Rollover and 2-3 Key Rollover	
Lock Win key	FN+WIN	Short press	Short press Fn+WIN to lock Win key. Press one more time to unlock	
			Short press Fn+WIN to lock Win key. Press one more time to unlock	
3.Keyboard indicator light				
1	CAPS indicator	Red indicator light: the letter key is in uppercase; press again without indicator light and the letter key returns to lowercase		
4.Charging/battery indicator				
1	Low battery indicator	Shared with the Fn key LED. Flashing red light means the battery is low (under 20%).		
2	Charging indication	Shared with the Fn key LED. Green light flashes to indicate charging. Once fully charged, the indicator turns off.		
5.Electrical specifications				
1	Operating current with backlight on	No more than 500mA		
2	LCD working current	No more than 200mA		
3	Operating current with back light off	No more than 100mA		
4	Sleep current	No more than 2mA		
5	Working current in wireless mode	No more than 20mA		
6	Operating voltage of USB	5±0.5V		
7	Battery specification	Lithium-ion rechargeable battery, 3.1V typical, 4.2V max		
8	Charging current of the battery	No more than 500mA		

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.

Warning: changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The device has been evaluated to meet general RF exposure requirement, the device can be used in portable exposure condition without restriction.