

Varmilo 阿米洛

Mechanical Keyboard

VB87M蓝牙机械键盘说明书

关于Varmilo

Varmilo 读音直译即为“阿米洛”，取自世界语“Via”，“armilo”喻意为：为您定制的专属装备，是为满足国内市场个性化、多样化的趋势，而独立推出的全新品牌。

Varmilo的产品，在保持优良做工和品质的同时，积极吸取国内外玩家的意见与创意并进行融合提炼，不断创新以追求更为人性化的设计，而一切只为了让您享有更好的使用体验！！

“改善无止境，创新无极限”，我们将一如既往的虚心接受每一位朋友针对Varmilo提出不足与建议，只有充分的结合市场需求与客户的意见、不断的自我完善，才能制造出更加完美的产品。在这里，诚挚的感谢每一位关注Varmilo的朋友、感谢每一位提出不同创意与火花的你们！也期待 Varmilo 的产品能为您带来更棒的体验！！

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Mechanical Keyboard

VB87M Bluetooth mechanical keyboard manual

About the brand 'Varmilo'

The pronunciation equivalent of Varmilo in Chinese is 'Varmilo'. Varmilo comes from world language 'Via', 'armilo'. It means the customized unique device. It stands for personality and variety.

Our products not only have good craftsmanship and stable quality but also are innovative. Our aim is best user experience.

There is no end in improving our products. Your suggestions will be thanked. We will continuously improve our products for better performance.

使用说明书和保证书

非常感谢您购买Varmilo阿米洛机械键盘
请在使用前必读说明书，然后正确使用产品

关于安全注意事项

- 长时间使用键盘时注意事项
- 长时间使用键盘可能会导致身体发生障碍，可能会给手、胳膊、脖子、肩、腰等部位带来极大的负担。
 - 当有不适感、疲劳、痛苦、肌肉僵硬等症状出现时，应立即停止使用键盘，还要抽时间休息。以上症状不使用键盘时也会发生。
 - 当身体感觉不适时，禁止长时间的使用键盘。

产品特点

【搭载Cherry正品MX switch开关，大家常称之为轴】
Varmilo之系列键盘产品均采用Cherry MX switch开关轴，有坚固的内部结构与柔软的触感。

键盘常用的MX开关(Switch)颜色：黑轴，青轴，茶轴，红轴，每一台产品是同一种颜色的switch，使用者购买前请根据用途和手感需求提前确认好。

键盘的使用注意事项

键盘使用时可能会掉下来，所以请选择平整的地方放置。

键盘内部包含电子回路和精密元器件的机器，请不要让饮料等液体及水分进入键盘内部。

日常保养

清洗键帽和键盘本机外壳时，先分离外壳和键帽，用肥皂或中性洗涤剂清洗，键盘本机内部用刷子轻轻地擦拭即可，避免进水。

清洗时避免接触含有表面活性成分的清洁剂，苯，汽油等。

⚠️ 请不要分解产品

请不要擅自分解、修理、改造键盘。可能造成割伤、损坏键盘等危险。

因消费者的过失导致的磨损或有改造痕迹的产品，虽在保证期内也享受不了关联保修的服务。

蓝牙芯片：

Varmilo VB87M蓝牙机械键盘采用Nordic的BLE芯片nRF51822，是业界稳定性最好功耗最低的 nordic nrf51822 蓝牙标准规格Ver4.0 芯片,此芯片集成了一颗32位低功耗高性能的ARM-CortexM0核心，具有明显的低功耗、高稳定性、长距离传输优势。

蓝牙设备系统及硬件要求：

设备硬件：蓝牙4.0芯片或以上内置蓝牙4.0或外置蓝牙适配器4.0(以上)
设备系统：微软Windows: win以上，win7和Winx需装蓝牙4.0驱动。
苹果系统：IOS 6.0或以上Iphone4s, 或以上，iPad2，或以上)
Mac OS X 系统
安卓系统：Android 4.4或以上

产品参数及使用事项：

本产品内置聚合物电池1200毫安时，键盘插上USB线连接电脑或额定电压为5.0V，即可后台自动充电。

本产品支持使用范围无障碍物的情况下10米以内，首次与蓝牙设备连接，需要输入配对动态密码。

FR-4的两层电路板

本产品采用双通印刷电路板FR-4（玻璃纤维板），所有端子都是采用穿孔方式，焊锡牢固，能够有效避免打字时，对基板及铜箔走线产生震动与压载力的影响。

使用MX按键开关

MX按键开关是机械开关,键帽击深度约4mm，触发点约为2mm位置，操作时具有较大弹性距离。

键盘开关机：

开机：先按住FN,然后再按一下“Insert”键,亮灯（慢闪）即为开机。
关机：长按“Insert”键约3秒，灯熄，即为关机

蓝牙连接：

- 当键盘开机，“Insert”键灯慢闪（2秒钟一闪），表示进入的蓝牙等待配对模式，此时将设备的蓝牙功能打开一点并搜索蓝牙设备一设备上回显示弹出键盘的设备（VB87M）一点击VB87M，电脑手机或平板设备会弹出验证密码的窗口，请在VB87M键盘上输入验证码数字，并回车键，电脑与键盘连接成功“Insert”键灯常亮。
- 同时按FN+“←”键为断开当前蓝牙设备，键盘重新进入的蓝牙等待配对模式。
- VB87M键盘默认记忆最近7台成功连接过的设备，下次开键盘的时候，有自动连接记忆蓝牙设备功能，无需输入验证码。

LED功能：

- 键盘开机时候，键盘的全灯是默认不亮，“insert”键灯慢闪。
- 按“FN”+“↑”键，全灯会点亮，不断重复按“FN”+“↑”键，全灯的亮度会增一级，直至全灯熄灭（总共有5级亮度，100%，75%，50%，25%，0%（灯灭））；按“FN”+“↓”键，则相反，“Insert”，“Capslock”“ScrollLock”，键的灯是单独存在，不参与同时按“FN”+“↑”键或“FN”+“↓”键的亮度调节；在蓝牙使用状态下，按“Capslock”键，为大写字母功能时，“Capslock”键灯亮；
- 低电状态，蓝牙键盘在使用过程中“insert”灯快闪（1秒钟一闪一次），请尽快插上USB线充电。
- 充电时“insert”键灯超慢闪（约4秒一闪一次），充满电后灯常亮。
- FN+左Win（长按3秒），全灯闪三下（不包括“Capslock”键灯和“Insert”键），左Win键与FN互换。
- FN+左Ctrl（长按3秒），全灯闪三下（不包括“Capslock”键灯和“Insert”键），左Ctrl键与Capslock键互换。

其他功能说明：

Bluetooth Chipset

The chipset for Varmilo VB87M Bluetooth mechanical keyboard is BLE NRF51822 from Nordic. It is bluetooth V4.0, the most stable, super low power consumption in the Bluetooth field. The chipset is integrated with one ARM-CortexM0 32 core which has obvious advantages of low power consumption, high performance, high stability, and long-distance transmission.

Bluetooth device system and hardware requirement:

Hardware: bluetooth V4.0 or above(built-in bluetooth V4.0 or bluetooth adapter V4.0 or above)
System: Microsoft Windows: Win8 or above; it need bluetooth V4.0 drive for Win7 and Win XP.
IOS: IOS6.0 or above (iPhone 4S or above, iPad2 or above, Mac OS X system)
Android: Android 4.4 or above.

Device parameters and usage:

This device is with lithium polymer battery 1200mAh, has USB interface for recharging, 5.0V recharge voltage, plug in and charge.
The bluetooth transmission distance is 10m if no obstacles, when first connection with bluetooth device, it need input dynamic pairing code.

FR-4 double layer PCB

This device is with double printed FR-4 PCB (fiberglass PCB), all terminal post is with through hole, firm soldering, effectively avoid the shaking and pressure influence to basic PCB and copper foil line during typing.

Switch on/off the keyboard

Switch on: Press and hold Fn key, at the same time press once "Insert" key, the light turns on (flashes slowly), which means the keyboard is switched on.
Switch off: Press and hold "Insert" key for around 3 seconds, the light goes off, which means the keyboard is switched off.

Bluetooth connection

- After switch on the keyboard, "Insert" key light flashes slowly (flash once every 2 seconds), the keyboard now is on pairing mode, then please turn on the Bluetooth function on your mobile phones, Computer, or other Bluetooth devices, searching new bluetooth device, you will find VB87M, click VB87M, your bluetooth device will pop up one window to input identifying code, please input the identifying code on VB87M keyboard, and press "Enter" key, then the light of "Insert" key keeps on, which means your bluetooth device and the keyboard are connected.
- Press and hold buttons "Fn" key and "↑" key is to disconnect the present bluetooth device, it will enter into new pairing mode.
- VB87M has memory in default for the 7 bluetooth devices which is recently successfully connected, when the keyboard is turned on, it will automatically connected with the recent bluetooth devices, no need to input identifying code again.

LED functions:

- When the keyboard is switched on, all lights of the keyboard are off in default, only the light of "Insert" key flashes slowly;
- Press and hold buttons "Fn" key and "↑" key, the light will be brighter and brighter until all lights go off. (There are 5 grades of brightness in total, 100%, 75%, 50%, 25%, 0% (off)).
It will be oppositely if press buttons "Fn" key and "↓" key together; the lights of "Insert" key, "Capslock" key, "Scrolllock" key are independently, they will not be controlled by pressing and hold buttons "Fn" key and "↑" key or "Fn" key and "↓" key.
During using the bluetooth function of the keyboard, press "Capslock" key is to input capital letters, and the light of "Capslock" key keeps on. When it is low power, the "Insert" key light will flash quickly (flash once every 1 second), please recharge as soon as possible through the USB cable.
During charging, the light of "Insert" key will flash very slowly (flash once around every 4 seconds), after fully charged, the "Insert" key light will keep on.
Press and hold buttons "Fn" key and "left Win" key for around 3 seconds, all lights flash 3 times (except lights "Capslock" key, "Insert" key), the buttons of "Fn" key and "left Win" key are exchanged.
Press and hold buttons "Fn" key and "left Ctrl" key for around 3 seconds, all lights flash 3 times (except lights "Capslock" key, "Insert" key), the buttons of "left Ctrl" key and "Capslock" key are exchanged.

Other functions instruction:

1、Windows FN+关联功能键

FN功能	FN+F1	亮度-
	FN+F2	亮度+
	FN+F3	搜索
	FN+F7	静音
	FN+F8	音量-
	FN+F9	音量+
	FN+F10	暂停
	FN+F11	上一曲
	FN+F12	下一曲
	FN+Insert	开机
	FN+Delete	清除所有记忆的蓝牙设备
	FN+Ctrl (Right)	Application Key
FN+Arrow Up (↑)	增加键盘灯亮度	
FN+Arrow Down (↓)	降低键盘灯亮度	
FN+Arrow Right (→)	断开当前蓝牙设备进入搜索可配对模式	
FN+win (短按)	锁 win键	
FN+左Win (长按3秒)	左Win键与FN互换	
FN+左Ctrl (长按3秒)	左Ctrl键与Capslock键互换	

2、Android /IOS ESC功能/FN+关联功能键

ESC功能	ESC	HOME
	FN+F1	亮度-(ios 8.0有效)
FN功能	FN+F2	亮度+(ios 8.0有效)
	FN+F6	锁屏
	FN+F7	静音
	FN+F8	音量-
	FN+F9	音量+
	FN+F10	暂停
	FN+F11	上一曲
	FN+F12	下一曲
	FN+ESC	ESC功能
	FN+左Ctrl (长按3秒)	左Ctrl键与Capslock键互换

1.FN and bounded keys

FN功能	FN+F1	Brightness-
	FN+F2	Brightness+
	FN+F3	Search
	FN+F7	Mute
	FN+F8	Volume-
	FN+F9	Volume+
	FN+F10	Play/Pause
	FN+F11	Previous
	FN+F12	Next
	FN+Insert	Turn on
	FN+Delete	Delete all bluetooth Devices in memory
	FN+Ctrl (Right)	Application Key
FN+(↑)	Light brightness up	
FN+(↓)	Light brightness down	
FN+(←)	Disconnect the present bluetooth device, enter into new pairing mode	
FN+Win (short press)	Lock "Win" key	
FN+left Win (press and hold for 3 seconds)	Exchange left Win and FN	
FN+left Ctrl (press and hold for 3 seconds)	Exchange left Ctrl and Capslock	

2.Android/IOS ESC/FN and bounded keys

ESC功能	ESC	HOME
	FN+F1	Brightness-(work on ios 8.0)
FN功能	FN+F2	Brightness+(work on ios 8.0)
	FN+F6	Lock screen
	FN+F7	Mute
	FN+F8	Volume-
	FN+F9	Volume+
	FN+F10	Play/Pause
	FN+F11	Previous
	FN+F12	Next
	FN+ESC	ESC功能
	FN+左Ctrl (长按3秒)	左Ctrl键与Capslock键互换

Varmilo

保修卡（客户请保留此存根）

保修条款与提示事项：

- 使用中请使用原装配件，相关插头或设备插入USB口前，请注意识别各个USB口的功能，以免影响产品的使用品质
- 消费者购买15天内，产品出现品质故障，经本公司技术人员证实该机器故障是属于正常使用发生的，将提供免费包换服务
- 消费者购买2年内，产品出现品质故障，经本公司技术人员证实该机器故障是属于正常使用发生的，将提供免费维修服务
- 请注意，下记事项，本公司将不提供免费服务，但是提供收费修理、改造等服务
· 使用中自行分解、修理、改造产品的，这可能会造成割伤、触电、产品故障等危险！
· 产品错误操作、疏忽使用，或因不可抗力因素导致产品或内部零件损坏的
· 非本产品上的“Varmilo”贴纸
· 不能提供保修卡的，或超出保修期的
- 对于不能提供保修卡、或保修卡涂改、模糊无法辨认的，我司将不提供维修服务
- 此保修卡提供的免费服务，并不包括产品附件及其他被损坏等项目
- 保修服务不包括运输费用，不提供上门服务。
- 未尽事宜，请咨询各经销商。

产品型号	产品号	出厂日期
用户姓名	联系电话	购买日期
地址		

致和（香港）有限公司 电话：+86-755-2648-4009-814/2644-4451
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Shenzhen ZhiHeHie Tech Co.,Ltd
邮编：518101 网址：www.varmilo.com
地址：广东省深圳市宝安区23区创业二路268号东联工业区A座401D Made in China

Varmilo

Warranty card(the stub for the customer)

Warranty terms and cues.

- Please use original accessories. Please pay attention to the functions of USB ports.
- If end users find quality problem within 15 days after purchase date and engineers verify this quality problem, our company will replace to new one free of charges.
- If end users find quality problem within 2 year after purchase date and engineers verify this quality problem, our company will repair free of charges.
- Please pay attention, in the following cases, our company will charge for repairing.
4.1 End users dismantle or repair products by themselves (Please pay attention, it may probably hurt end users and damage the product).
4.2 End users don't use products in a proper way.
4.3 Failures are caused by force majeure.
4.4 End users tear off the sticker "Varmilo" off the product.
5 End users can't provide warranty card.
6 Warranty card is altered.
7 Warranty card is illegible.
8 The device is out of warranty.
Remark:
1. There is no warranty for accessories.
2. During warranty period, we repair free of charges. But end users shoulder all transportation fees. We don't shoulder shipping cost for the defective items. We repair in our factory only. We don't provide on-site service.
3. For more questions, please contact the distributor.

Model no	Serial No	Manufacturing date
End user's name	Mobile No	Purchase date
Address:		

Zhenghe (Hong Kong) Co., Ltd. Tel: 86 755 2648-4009-814/2644 4451
Shenzhen Zhihaihe Tech Co., Ltd. Fax: 86 755 2644 4428
Zip code: 518101 Website: www.varmilo.com
Factory address: 401D, 4/F, Building A, Donglian Industrial park, No 268 Chuangye'er Road, Bao'an 23th District, Shenzhen Guangdong
Made in China



FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates 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.

This device complies with Part 15 of FCC Rules.

Operation is subject to the following two conditions:

This device may not cause harmful interference, and this device must accept any interference received, including interference that may cause undesired operation.

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate this equipment.

FCC RF Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.