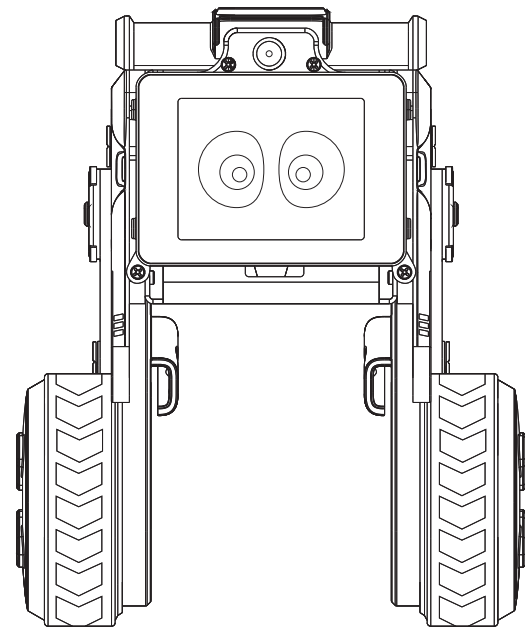
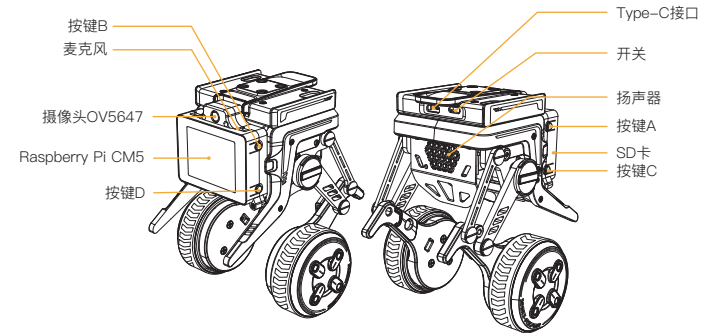


XGO-Rider2



XGO-Rider2介绍

XGO-Rider2是一款基于树莓派的桌面级双轮足开发平台，内置树莓派CM5模组实现AI边缘计算应用，采用4.5KG.CM全金属磁编码总线串口舵机作为关节，FOC轮毂一体化电机作为轮子，可实现全向移动、姿态稳定、多种运动叠加和图像语音互动，内部搭载IMU用于算法验证和二次开发。



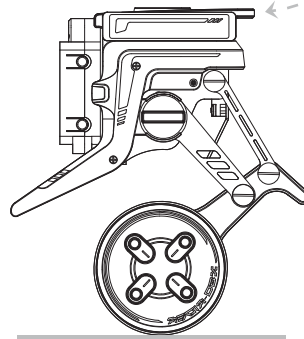
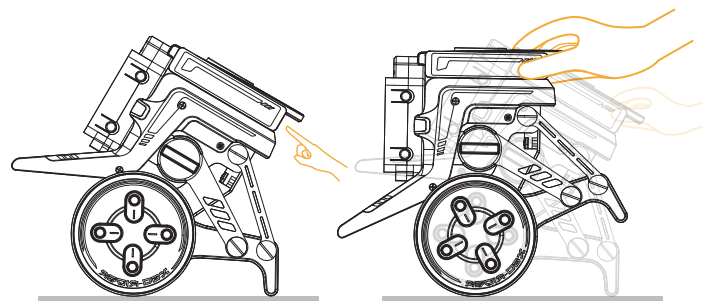
AI智能交互



快速使用

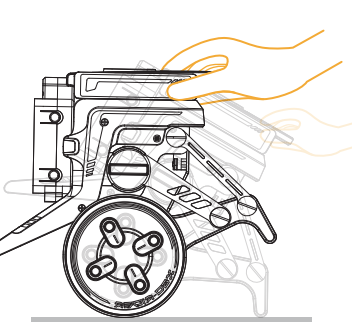
① 如何开机

请务必将双轮足机器人按下图摆放在平整的地下或者桌面上，拨动机器人开关开机，机器人彩色的灯亮起来后会自动站立，待机器人稳定后即完成了初始化。



② 如何扶正

当双轮足机器人红色灯亮起，双腿缩起，说明机器人进入锁死状态，需要如下图所示扶正约3秒后，机器人会恢复站立状态。



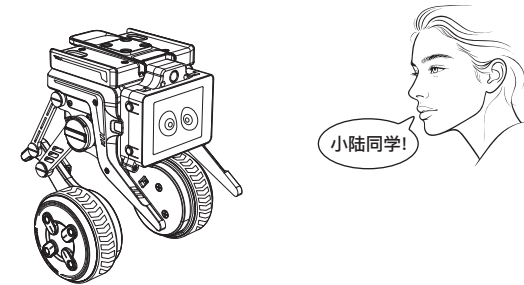
③ 如何联网

快捷方法：在路由器或者手机新增加一个SSID，SSID设置为XGO2，密码设置为LuwuDynamics，机器人启动后会自动连接。其余方法请参考XGO官方wiki。
<https://wiki.xgorobot.com>



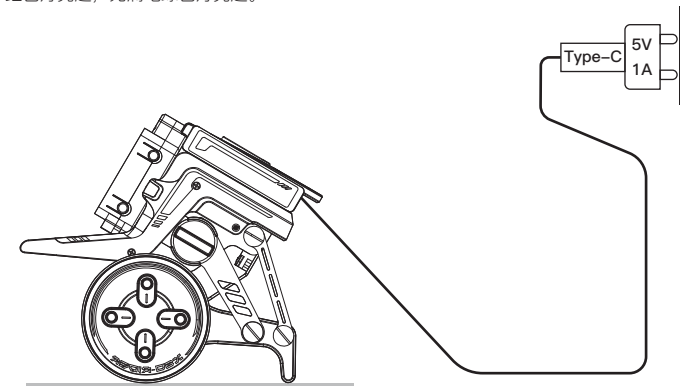
④ 如何使用

LUWU OS是基于树莓派CM5的图形操作系统。用户无需依赖电脑手机，只需观察2.0寸屏幕上的操作指示，通过侧面A/B/C/D四个物理按键进行选择与确认，即可直观地玩转生成式AI、视觉追踪、手势交互和运动控制等功能。

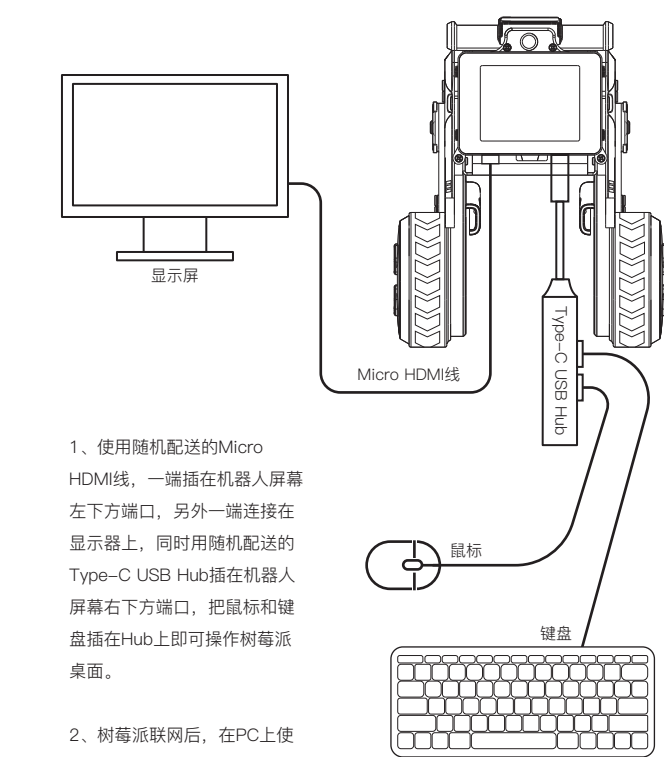


⑤ 如何充电

在关机状态下使用随机的Type-C充电线插上任意5V充电头充电，充电过程中机器人背部红色灯亮起，充满电绿色灯亮起。



⑥ 如何开发

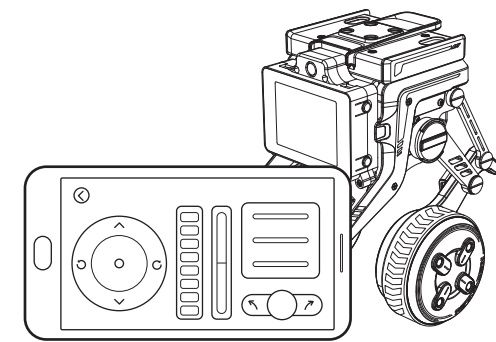


1、使用随机配送的Micro HDMI线，一端插在机器人屏幕左下方端口，另外一端连接在显示器上，同时用随机配送的Type-C USB Hub插在机器人屏幕右下方端口，把鼠标和键盘插在Hub上即可操作树莓派桌面。

2、树莓派联网后，在PC上使用SSH远程登录，用户名和密码默认都是luwu。

⑦ 如何遥控

苹果手机用户在苹果应用商店搜索“XGO”下载安装。
安卓手机用户在各自的应用市场搜索“XGO”下载安装，如当前手机应用市场没有则需要到XGO官方Wiki页面中下载APK安装包安装。



⑧ 注意事项

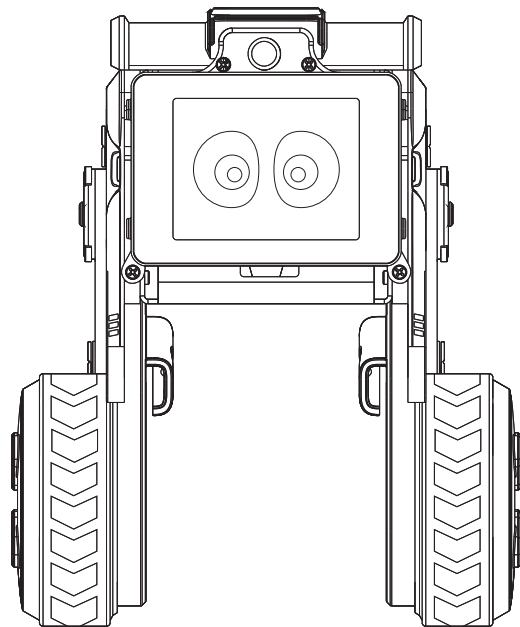
注意事项

- 1、机器人运行时，务必确保桌面平稳，避免机器人因震动、碰撞等意外从桌面跌落，造成机体损坏。
- 2、每次使用前检查电池电量，电量不足时及时充电，避免在低电量状态下长时间使用，影响电池寿命。
- 3、本产品使用时请注意安全，运动过程中避免手指夹伤。
- 4、机器人运动长时间后舵机和电机可能发烫，属于正常现象，但持续发烫可能损坏舵机性能，因此持续使用时间建议不超过1小时。

保养与运输

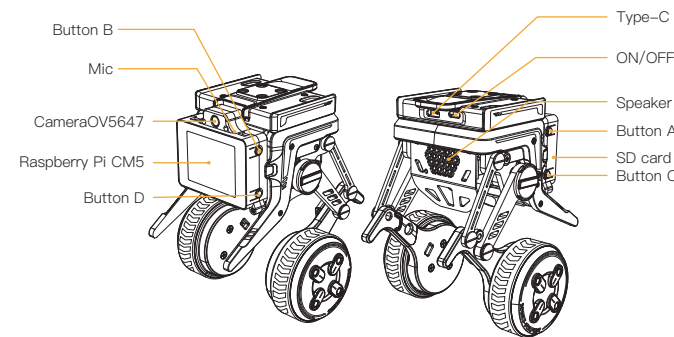
- 1、定期检查螺丝是否松动，并予以紧固。
- 2、运输或者存储时，请使用机器人专用包装盒，避免发生意外造成损伤；两条腿应当固定，避免晃动引起摩擦碰撞造成损伤。

XGO-Rider2

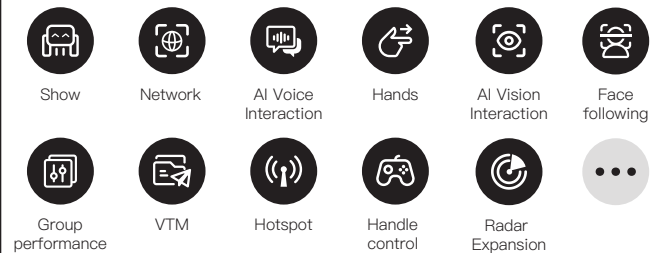


Introduction to XGO-Rider2

The XGO-Rider2 is a desktop-level two-wheeled bipedal development platform based on the Raspberry Pi. It has a built-in Raspberry Pi CM5 module to achieve AI edge computing applications. It uses a 4.5KG.CM full-metal magnetic encoding bus serial servo as the joint, and an integrated FOC hub motor as the wheel. It can achieve omnidirectional movement, stable posture, superposition of multiple movements, and interactive functions of images and voices. An IMU is installed inside for algorithm verification and secondary development.



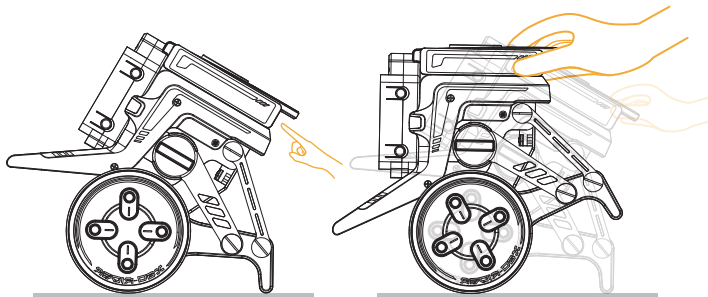
AI Intelligent Interaction



Quick use

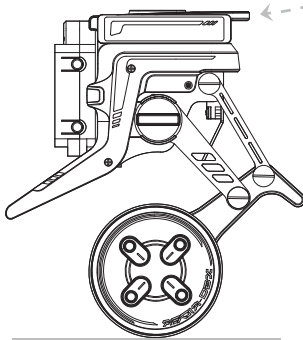
① Power ON

Make sure to place the two-wheeled biped robot on a flat floor or desktop according to the picture below. Toggle the robot's switch to turn it on. After the robot's colorful lights turn on, it will stand up automatically. Once the robot stabilizes, the initialization is completed.



② Straighten up

When the red light of the two-wheeled biped robot turns on and its legs retract, it indicates that the robot has entered the locked state. You need to hold the robot upright for about 3 seconds as shown in the picture below, and then the robot will return to the standing state.



③ Connect to the network

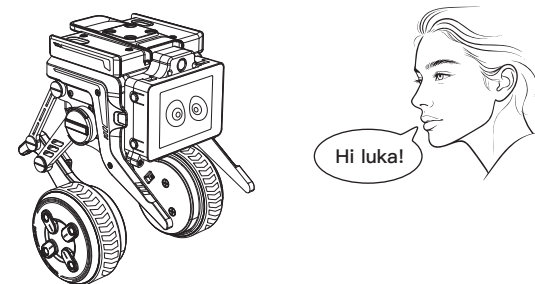
Quick method: Add a new SSID on the router or mobile phone. Set the SSID as XGO2 and the password as LuwuDynamics. After the robot is started, it will automatically connect. For other methods, please refer to the official XGO wiki.

<https://wiki.xgorobot.com>



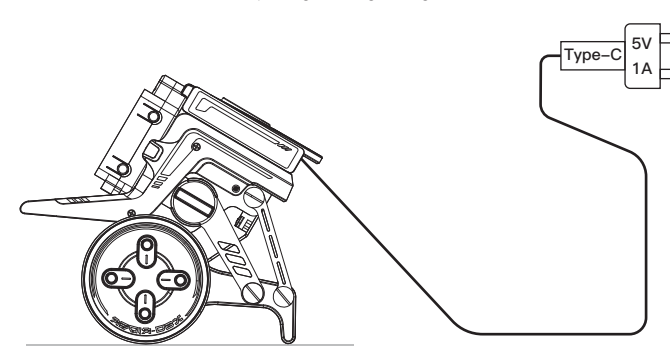
③ How to use

LUWU OS is a graphical system running on the Raspberry Pi CM5. Following operational prompts on the 2.0-inch screen, users can directly navigate Generative AI, vision tracking, and motion features using four physical buttons (A/B/C/D) for selection and confirmation, entirely free from PCs or phones.

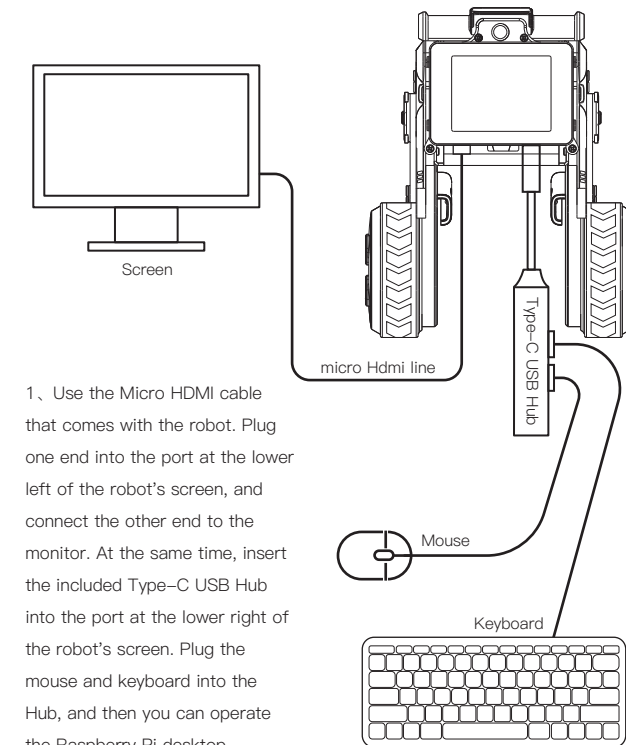


⑤ Charge the Robot

When the robot is powered off, use the included Type-C charging cable to connect it to any 5V charger. During the charging process, the red light on the back of the robot will turn on. Once the robot is fully charged, the green light will turn on.



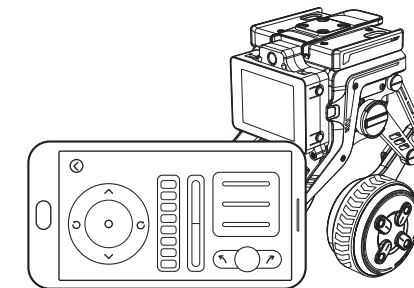
⑥ Development



- 1、Use the Micro HDMI cable that comes with the robot. Plug one end into the port at the lower left of the robot's screen, and connect the other end to the monitor. At the same time, insert the included Type-C USB Hub into the port at the lower right of the robot's screen. Plug the mouse and keyboard into the Hub, and then you can operate the Raspberry Pi desktop.
- 2、After the Raspberry Pi connects to the network, log in remotely via SSH on your PC. The default username and password are both luwu.

⑦ Remote control

For iPhone users, search for "XGO" in the App Store and download and install it. For Android phone users, search for "XGO" in their respective app marketplaces and download and install it. If the app is not available in the current phone's app marketplace, you need to download the APK installation package from the official XGO Wiki page and install it.



⑧ Precautions

- 1、When the robot is running, make sure that the desktop is stable. Avoid the robot from falling off the desktop due to unexpected situations such as vibrations and collisions, which may cause damage to the robot body.
- 2、Check the battery level before each use. Charge the battery in a timely manner when the power is low, and avoid using it for a long time in a low-battery state, which may affect the battery life.
- 3、Please pay attention to safety when using this product and avoid getting your fingers pinched during the movement process.
- 4、The servo and motor of the robot may get hot after running for a long time, which is a normal phenomenon. However, continuous heating may damage the performance of the servo. Therefore, it is recommended that the continuous use time should not exceed 1 hour.

Maintenance and Transportation

- 1、Regularly check whether the screws are loose and tighten them.
- 2、When transporting or storing, please use the dedicated packaging box of the robot to avoid accidental damage; the two legs should be fixed to prevent damage caused by friction and collision due to shaking.