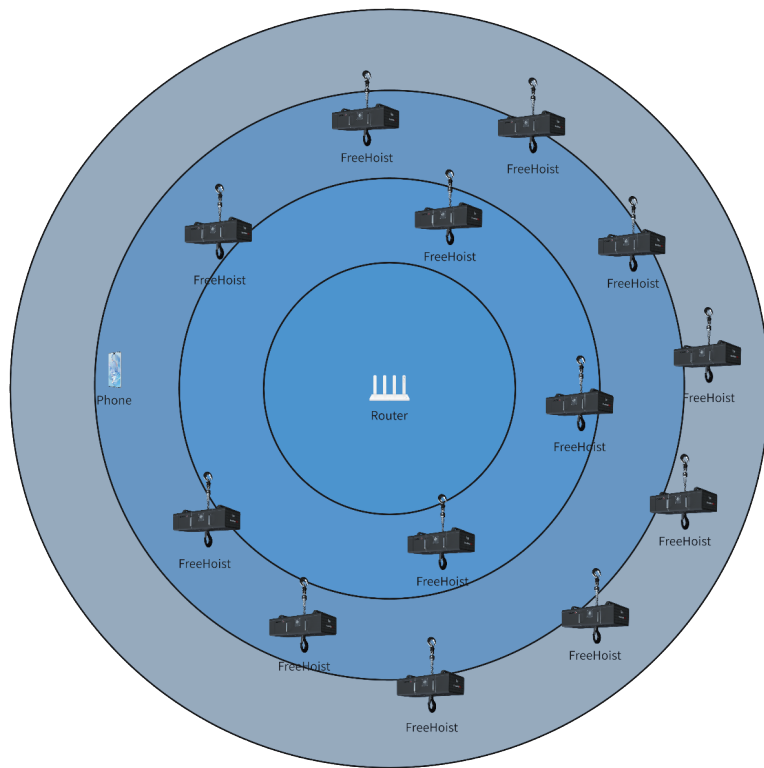


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FREEHOIST
使用说明书
Instruction Manual



单路由器连接示意图

Schematic diagram of a single router connection

01

连接方式

Connection method

- ① 连接步骤：打开路由器电源 - 软件连接 - FreeHoist 引导；
Connection steps: power on the router - software connection - FreeHoist boot;
- ② FreeHoist 采用无线连接方式进行组网群控；
FreeHoist uses wireless connection for network group control;
- ③ 用户对 FreeHoist 进行任何设置；
Users do not need to make any settings for FreeHoist;
- ④ FreeHoist 开机后会自动寻找并连接特定的无线信号源；
FreeHoist will automatically find and connect to a specific wireless signal source after booting;

疑问：能控制多远距离，一次能控制多少台产品？

Question: How far can it be controlled, and how many hoists can it control at one time?

控制距离与控制数量与无线路由器的性能有直接关系，下面会介绍如何选择无线路由器。

The control distance and control quantity are directly related to the performance of the wireless router. The following will introduce how to choose a wireless router.

02

路由器

Router

A

选择路由器的基本参数 Select the basic parameters of the router

- **WIFI: WIFI5 以上**
WIFI: WIFI5 or above
- **速率: 建议 300M 以上;**
Speed: 300M or more is recommended;
- **传输标准: 802.11n/b/g;**
Transmission standard: 802.11n/b/g;
- **无线频段: 2.4GHz;**
Wireless frequency band: 2.4GHz;
- **天线与处理器: 这是路由器无线能覆盖范围及能够连接终端的重要参数, 需要用户自行测试。**
Antenna and processor: This is an important parameter of the wireless coverage of the router and the ability to connect to the terminal, which needs to be tested by the user.

B

FreeHoist 推荐选配路由器主要参数 FreeHoist recommended parameters for the router

配置 Configuration

- **CPU: IPQ5018, 双核 1GHz 处理器;**
CPU: IPQ5018, dual core 1GHz processor;
- **RAM: 内存: 256M RAM(Byte);**
RAM: Memory: 256 MB RAM(Byte);
- **ROM: 闪存: 128M FLASH (Byte)。**
ROM: FLASH memory: 128M FLASH (Byte).

无线参数 Wireless parameter

- **传 输 标 准 : 802.11ax/ac/n/a 2*2 & 802.11ax/n/b/g 2*2;**
Transmission standard:802.11ax/ac/n/a 2*2 & 802.11ax/n/b/g 2*2;
- **无线速率: 双频并发, 3000Mbps (2.4GHz: 574Mbps, 5GHz: 2402Mbps) ;**
Wireless speed: dual frequency concurrent, 3000Mbps (2.4GHz: 574Mbps, 5GHz: 2402Mbps);
- **无线频段: 2.4GHz & 5GHz, 支持双频优选;**
Wireless frequency band: 2.4GHz & 5GHz, supporting dual-frequency optimization;
- **天线增益: 2.4G 5dbi 5G 6dbi。**
Antenna gain: 2.4G 5dbi 5G 6dbi.

接入终端 Access terminals

- 可并发接入 128 个终端。
Can access 128 terminals concurrently.

有效距离 Effective control distance

- 有效控制距离（路由器无线信号半径）最大 100 米。
(router wireless signal radius) maximum 100

C

路由器的配置
Router configuration

如果用户选择的是公司选配路由器，公司已经做了最标准的配置，用户无需做任何操作上电即可正常使用；

If the user chooses the company's router, the company has made the standard configuration, and the user can power on the router without any adjustment;

如果用户自行选配路由器，需要先进行以下设置：

If the user chooses another router, the following settings are required:

- 设置 WIFI SSID 为: MODE_Route;
Set the WIFI SSID to MODE_Router;
- 设置 WIFI Password 为: mode123456;
Set WIFI Password to mode123456;
- 建议设置只开启 2.4G 频段。
You are advised to enable only the 2.4G frequency band.

疑问：一个路由器的控制范围有限，如何扩大控制范围？

Question: The control range of a router is limited, how to expand the control range?

如有扩大控制范围需求，可联系我们为你提供专业的解决方案。

If you need to expand the scope of control, please contact us to provide professional solutions for you.

03

APP 操作

APP Operation

A

App 的下载: (安卓系统)

The App download: (android)

使用手机浏览器打开链接: <https://www.modehoist.com/service/download/app>

Using a browser to open the link: <https://www.modehoist.com/service/download/app>

或用手机浏览器扫描以下二维码

Or scan the following QR code with your mobile browser:



APP Download

B

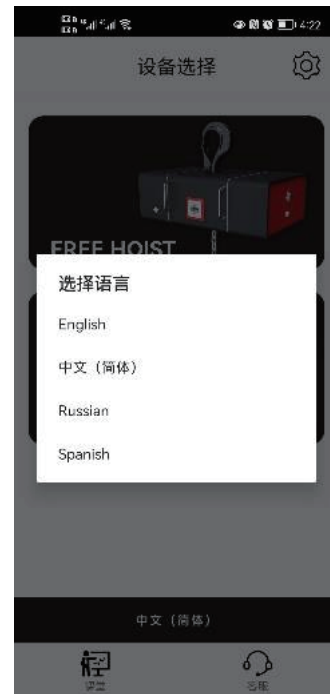
设备选择列表页

Device selection list page

App 安装完成启动后会进入设备选择列表页, 用户选择FreeHoist 进入产品连接;

After App is installed and started, it enters the device selection list page, and users select FreeHoist incoming product connection;

- 列表页下方可选择 App 语言 (简体中文、英语、西语、俄语);
Reduced language (Simplified Chinese, English, Spanish, Russian);
- 用户可通过课堂进入公司官网;
Preparation users can enter the company's official website through Classroom;
- 用户使用中有任何疑问也可通过页面下方客服功能发送咨询邮件。
Preparation users can submit questions to the customer service function at the bottom of the page for consultation mail.



C

网络连接页面 Network connection page

- 1 在网络连接页面找到 MODE_Router 的 WIFI，点击右侧箭头连接，输入连接密码；
Find the WIFI of MODE_Router on the network connection page, click the arrow on the right to connect, and enter the connection password;
- 2 连接成功后会再黑色框中显示，点击右侧箭头即可进入控制页面；
After the connection is successful, it will be displayed in a black box, click the arrow on the right to enter the control page;

如果用户在路由器设置时，将 SSID 广播关闭，则需要手动添加此网络；
If the user turns off the SSID broadcast when setting up the router, you need to manually add this network:

将页面滑动至底部，选择添加网络，手动输入网络名称（MODE_Router）和密码（mode123456）连接即可。
Slide the page to the bottom, select Add Network, and manually enter the network name (MODE_Router) and password (mode123456) to connect.

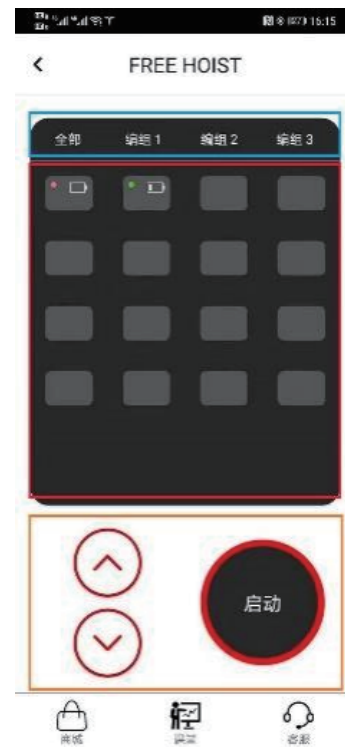


D

控制页面
Control page

页面介绍 Page introduction

- 控制页面分为 3 个区域：产品区（右图红框）、控制区（右图橙框）、编组区（右图蓝框）；
The control page is divided into 3 areas: product area (red box in the right picture), control area (orange box in the right picture), grouping area (blue box in the right picture);
- 当产品第一次连接成功后，产品区内一个灰色方框将显示绿色圆点与电池余量图标；
When the product is successfully connected for the first time, a gray box in the product area will display a green dot and battery remaining icon;
- 当产品断开连接时，产品区内对应灰色方框绿色圆点将变成红色，电池余量为空。
When the product is disconnected, the green dot in the corresponding gray box in the product area will turn red, and the remaining battery power is empty.
- 多台产品连接后，请先确认 App 上每个灰框对应的产品。
After connecting multiple products, please confirm the product corresponding to each gray box on the App.



基础操作 Basic operation

- 选择需要操控的一台或多台产品（选中后变成红色）；

Select one or more products to be controlled (it turns red when selected);

- 再选择产品工作方向（向上或向下箭头）；

Then select the working direction of the product (up or down arrow);

- 最后长按启动键控制产品工作。

And finally press and hold the start button to control the product;

- 需一直按住启动键，产品才能持续工作；放开启动键产品停止。

The product can continue to work only if the start button is pressed all the time; release the start button and the product stops.



全选操作 Select all operation

App 支持一次全部选择所有产品（编组区第一个选项），再次选择即为取消全选；选择部分产品需要取消时，也可通过全选功能取消已选择产品。

The app supports selecting all products at once (the first option in the grouping area).

编组操作 Group operation

- 选择需要编为一组的产品，点击编组区中的编组n，确认提示后即可完成编组；
Select the products that need to be grouped, click group n in the grouping area, and complete the grouping after confirming the prompt;
- 长按对应编组，可编辑编组名称，方便管理控制多台产品；
Long press the corresponding group, you can edit the name of the group, which is convenient for management and control of multiple products;
- 当不再需要编组时，用户也可长按对应编组，复位编组即可。
When the grouping is no longer needed, the user can also press and hold the corresponding grouping to reset the grouping.
- App 支持 10 组自定义编组，每个编组可编产品数量不限。
The app supports 10 groups of custom groups, and the number of products that can be programmed in each group is not limited.



04

产品的安全设置

Product security settings

产品控制 Product Control

- 当产品运行中超出 WIFI 有效控制距离，产品会再700ms 后自动停止运行，避免产品超出有效控制范围无法控制的情况；
When the product exceeds the effective control distance of WIFI during operation, the product will automatically stop running after 700ms to avoid the situation that the product cannot be controlled beyond the effective control range;
- 多台产品联动过程中，有一台产品出现连接中断无法运行的情况，其他产品将同时停止运行，避免产品不同步出现危险的可能；
During the linkage process of multiple products, if one product is disconnected and unable to operate, other products will stop running at the same time to avoid the possibility of products being out of sync and causing danger;
- 产品连接时只与第一个连接 App 建立唯一连接，后面接入的 App 需要等待产品与第一个连接的App 完全断开连接后，才能再次配对连接，避免了多人操作冲突出现危险的可能；
When the product is connected, it only establishes a unique connection with the first connected App, and the subsequent connected App needs to wait for the product to be completely disconnected from the first connected App before pairing and connecting again, avoiding the danger of multi-person operation conflicts possible;
- 当电池电量低于 30%时，产品电源指示灯会闪烁提示用户即使更换电池，避免出现工作工程中出现断电现象。
When the battery power is lower than 30%, the power indicator light of the product will flash to remind the user to replace the battery to avoid power failure during the work.

App 控制 App control

- App 限制启动键短时间连续多次点击，防止信号频发导致通信通道堵塞使控制延时增大的情况；
The app restricts the start button to be clicked multiple times in a short period of time to prevent the communication channel from being blocked by frequent signals and increase the control delay;
- 操作产品工作过程中来电时，App 会强制命令所有产品停止工作，避免电话过程中产品工作不同步的情况。
When a call comes in during the operation of the product, the App will force all the products to stop working, so as to avoid the situation that the product work is out of sync during the call.

05

常见问题

Frequently asked questions

控制手机的变更 Change of control phone

- 现场需要更换手机控制产品的情况，首先需要确保第一部手机的 App 完全退出（完全关闭与产品的连接服务）后，等待 1 分钟再尝试连接 WIFI 路由器。
If the mobile phone needs to be replaced on site to control the product, first of all, it is necessary to ensure that the App of the first mobile phone is completely exited (completely close the connection service with the product), and then wait for 1 minute before trying to connect to the WIFI router;

无法与产品连接 Unable to connect to the product

- 请检查 WIFI 路由器的无线名称与密码是否正确；
Please check whether the wireless name and password of the WIFI router are set correctly;
- 产品与 WIFI 路由器的距离是否在 WIFI 的有效范围内；
Whether the distance between the product and the WIFI router is within the effective range of WIFI;
- 现场是否有其他 WIFI 名称与 WIFI 路由器的名称相同，出现冲突；
Is there any other WIFI name on site that is the same as the name of the WIFI router, causing conflicts;
- 是否有其他手机通过 App 已经连接产品。
Whether there are other mobile phones connected to the product through the App.

场地面积较大如何解决 How to solve the large site area

- 请联系我们的销售专员，我们会根据用户现场实际情况提供可靠的解决方案。
Please contact our sales specialists, we will provide reliable solutions according to the actual situation of the user site.

其他问题 Other issues

- 可通过 App 上客服功能给我们发邮件咨询;
You can email us for consultation through the customer service function on the App;
- 发送邮件至 cscentre@modehoist.com 咨询;
Send an email to cscentre@modehoist.com for consultation;
- 联系销售人员。
Contact sales staff.