封面：HandyBlock 编程积木---HandyBlock Progarmming Blocks

快速使用指南 ---Quick Use Guide（QSG）

用积木探索科技世界----Explore the world of technology with building blocks

① ：产品介绍---Product Introduction

HandyBlock 以实体化的指令积木来代替 Scratch 虚拟指令模块，让孩子完全脱离电脑学习编程--- Handyblock replaces the scratch module with physical transformation building blocks, let the children completely detached from computer to learning programming.

HandyBlock 包含各种编程指令，通过简单的组合，即可创造各种程序，让编程机器人"动"起来。还可以控制机器人上的各种传感器，让机器人与周围的声音、色彩、障碍物发生有趣的互动。--- HandyBlock contains a variety of programming commands. Through a simple combination of products, you can create a variety of programs to make the programmed robot "move". It can also control the various sensors on the robot and make the robot to interact interestingly with the sounds, colors and obstacles around it.

不论是作为教育者的 STEAM 课堂教具，还是孩子的创造力培养工具，HandyBlock 都是极佳的选择。---Whether it is a STEAM classroom tower for educators, or the children's creativity training tool, HandyBlock is your excellent choice.

② ：产品清单--- Product List

主控模块--- Main Control Module/ Master control module

连接指令积木和机器人的核心大脑--- Connecting the command blocks to the core brain of the robot

连接指令积木和机器人的核心大脑：主控模块通过 Pogo Pin 磁吸连接指令积木，一"触"即发。主控模块将指令转换为可执行程序，通过蓝牙或者 WIFI，与机器人或智能家居设备通信，控制机器人或智能家居设备执行指令。--- Connecting the command blocks to the core brain of the robot: The master control module connects the command building blocks through the POGO PIN magnetic connection instruction. The master control module converts the command into executable programs, communicating with robots or smart home equipment and controlling the robot or smart home equipment execute command via Bluetooth or Wi-Fi.

指令模块--- Command Module

动作模块---Action Module

可以控制机器人执行各种动作，如前进、后退，转弯、转圈，起飞、降落等。--- controlling the robot to perform a variety of actions, such as forward, backward, turn, go round in circles, take off, landing and so on.

事件控制模块--- Event control module

当外界环境发生改变时，可以触发事件响应，让机器人做出相应的动作，如遇到障碍转身，听到声音转向说话人等等。--- When the external environment changes, the event response can be triggered. so that the robot makes the corresponding action, such as turning when confronted with obstacles, turning to the speaker when hearing the sound, and so on.

开始结束模块--- Start and end module

选择不同的机器人来控制，标识主程序或者事件程序的结束。--- Select a different robot to control and mark the end of the main program or event program

声音&显示模块--- Sound & display module

可以控制机器人显示各种图像、闪烁各种颜色的灯、播放各种音乐或者声音。--- The robot can be controlled to display various images, flash various colors of lights, play various music or sounds

③：产品清单--- Product List

指令模块--- Command module

程序控制模块--- Program control module

可以控制程序的重复（for 循环）、分支（if/else），可以自定义函数，以最少的代码量完成足够复杂的程序。--- Controlling the repetition of the program(for loop), branching (if/else), you can customize functions, with a minimum amount of code to complete a complex program

程序变化模块--- Program change module

控制程序的运行，执行函数、暂停、停之，等待外界输入，变量的运算等，增加程序运行时的控制灵活度。--- Controlling the operation of the program, the execution of functions' pause, stop, waiting for external input, variable operation, etc., increase the flexibility of the program when the control.

参数模块--- Parameters of the module

随意调节、多种组合--- Optional adjustment, a variety of combinations

丰富多彩的参数模块，支持数字、角度、表情、符号、箭头和字母，可以通过按键调节选择。通过指令模块和参数模块的配合，就可以随心所欲地控制机器人，和软件编程一样灵活、强大！--- Colorful parameter module which support numbers, angles, expressions, symbols, arrows and letters, can be adjusted by the button selection. Through the cooperation of the command module and the parameter module, you can control the robot as you want, like the software program flexible and powerful!

④：使用指南--- user guide

1.开机--- turn on

按下主机电源键开机，电源指示灯亮起--- Press the power button to start the machine and the power indicator will light up

（如遇不能开机情况，请为 HandyBlock 主机充电）---(In case of failure to power up, please charge the HandyBlock host)

2.选择开始积木--- Select the Start Block

根据要控制的机器人来选择不同的开始积木--- Choose different starting blocks depending on the robot you want to control

⑤：使用指南--- user guide

3. 选择要编程的指令积木拼搭在开始积木后面--- Select the command block to program and put it behind the start block

4.最后放上结束积木--- Finally, put the finishing block

5.按下主机上的执行按钮，让机器人按照程序动起来--- Press the execute button on the host machine to make the robot move according to the program

⑥ 主机激活指南--- Host Activation Guide

新出厂的 HandyBlock 主机，需要激活才可以使用。--- New factory HandyBlock host, need to be activated to use

1. 用微信扫主机的二维码--- Scan the QR code of the host with WeChat
2. 输入 WIFI 密码，让主机联网---Enter the WiFi password to connect the Internet
3. 主机自动升级到最新的系统--- The host will automatically upgrade to the latest system
4. 重启主机，激活成功--- Restart the host and the activation is successful

⑦ 机器人配对指南---

一般主机出厂时会和配对的机器人进行配对，用户也可以自行完成机器人配对。--- Generally, the host machine will be matched with the robot when it leaves the factory. Users can also complete the robot matching by themselves

1. 选择要配对的机器人种类，按下图进行积木拼搭，--- Select the type of robot to be matched and build blocks according to the following picture
   使用--- usage
   开始：100：0 表示对程小奔进行配对，--- start: 100:0 means to match Codey Rocky
   开始：100：1 表示对阿尔法进行配对，--- Start: 100:1 means to match alphas
   开始：100：2 表示对达奇进行配对。--- Start : 100:2 means to match Ducky
   与开始积木后面选择机器人是相同的。--- It's the same as selecting the robot after the start block

2. 保证有且只有一个机器人处于开启状态，其他机器人要关闭电源。--- Make sure that only one robot is 'on' and the other robots are 'off'
   比如要给程小奔进行配对，只能开启一个程小奔，其他的程小奔必须处于关闭状态。--- For example, in order to match Codey Rocky, only one Codey Rocky can be opened and the others must be closed

3. 点击启动按钮。等待配对完成。--- Click the start button. Waiting for the matching to finish
   主机屏幕显示;--- Host screen display

4. 配对成功后，主机屏幕显示：--- After successful match, the host screen will display

5. 配对成功后，主机就可以对程小奔进行编程啦。--- After the match, the host can program Codey Rocky

6.

⑧ 主机软件升级指南--- Host Software Upgrade Guide

1. 激活时的软件自动升级--- Automatically upgrade the software when activated
   主机在激活时，会自动升级到最新的软件版本。--- When the host is activated, it will automatically upgrade to the latest software version

2. 软件升级提醒--- Software Upgrade Alerts
   主机每次启动时，会检查软件是否是最新的版本。如果是最新版本，主机启动后的屏幕图标是这样的：--- Each time the host starts will check whether the software is the latest version. If it is the latest version, the screen icon after the host starts looks like this
   如果需要升级，主机启动后的屏幕图标是这样的：--- If you need to upgrade, the screen icon after the host starts looks like this

3. 软件升级操作--- Software Upgrade Operation
   按下图进行积木拼搭，使用开始：102，表示让主机进行软件升级。--- Build the building blocks according to the following picture. Use start block: 102, means to allow the host to upgrade the software
   按下启动按钮，主机开始升级软件。升级成功后，主机会自动重启。--- Press the start button and the host begins to upgrade the software. After successfully upgrade, the host will automatically restart

⑨ 安全使用说明

1. 本产品不适合 3 周岁以下儿童使用
2. 本产品建议 6 周岁及以上儿童使用
3. 儿童请在成人直接监护下使用本产品
4. 请尽量不要将本产品放置在高处边缘，避免跌落损坏
5. 请勿自行拆卸、修理或改装本产品，避免造成产品故障
6. 请勿将本产品放置于水火潮湿或高温环境中，避免造成产品故障或引起安全事故
7. 请使用推荐规格的适配器（5V/1A 适配器）为本产品充电
8. 用于为本产品充电的适配器不能当做玩具使用
9. 变压器不是玩具
10. 用液体清洁玩具时清洁前应与变压器断开
11. 玩具不能连接到多于推荐数量的适配器上
12. 定期检查电线、插头、外壳或其他部件是否损坏，发现损坏时应停止使用，直至修复完好
13. 保养方法：日常清洁，请使用软布蘸水擦拭清洁

⑨ Safety instructions

1. This product is not suitable for children under 3 years old

2. This product is recommended for children aged 6 and above

3. Children should use this product under the direct supervision of adults

4. Please try not to place the product on the high edge to avoid falling and damage

5. Do not disassemble, repair or refit the product by yourself to avoid product failure

6. Do not place the product in water, fire, humidity or high temperature environment to avoid product failure or safety accidents

7. Please use the recommended adapter (5V/1A adapter) to charge the product

8. The adapter used to charge the product should not be used as a toy

9. Transformers are not toys

10. Disconnect the transformer before cleaning the toy with liquid

11. Toys cannot be connected to more than the recommended number of adapters

12. Check regularly whether the wires, plugs, housing or other parts are damaged, and stop using them when found damaged until they are repaired in good condition

13. Maintenance method: daily cleaning, please use a soft cloth dipped in water to wipe clean

⑩ 规格参数

电池	2200mAh 锂电池
Type-C 输入参数	5V⎓1A
Pogo Pin 磁吸接口输出参数	3.3V⎓0.2A
传输方式	Wi-Fi/蓝牙
蓝牙使用距离	10 米范围内（空旷环境下）
Wi-Fi 使用距离	10 米范围内（空旷环境下）
工作温度	-10℃-40℃
存储温度	-10℃-40℃

specification parameter

Battery	2200mAh lithium battery
Type-C input parameters	5V⎓1A
Pogo Pin magnetic suction interface	3.3V⎓0.2A
Transmission mode	Wi-Fi/ Bluetooth
Bluetooth service distance	The scope of 10 meters (open environment)
Wi-Fi Usage Distance	The scope of 10 meters (open environment)
Operating temperature	-10℃-40℃
Storage temperature	-10℃-40℃

⑪ 打开 HandyBlock 小程序

在微信小程序搜索"HandyBlock"或微信扫描下方二维码打开 HandyBlock 小程序，有最新的使用视频帮助，还可以对 HandyBlock 主机进行管理，查看主机配对的机器人信息等。--- open the HandyBlock mini program

Search for "HandyBlock" in WeChat mini program or scan the QR code below to open the handyBlock mini program. There have the latest video help to use, and you can also manage the handyBlock host and view the robot information which matching of the host.

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.

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

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.

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