

Boya

Educational Robot Module Series

User Manual

(Applicable Model: Boya 0/ Boya 1/ Boya 2)

www.abilix.com

Boya Controller



	Turn on Boya and the red light slowly flashes, indicating the controller is connecting to the router. When the light is bright red, it indicates a successful connection.
Normal connection	1. Connect the Abilix device to the wireless router; 2. Open App and choose "Boya 0/1/2", tap the icon "Scan"; 3. Search for controllers nearby which have joined Wi-Fi; an interface will pop up the IP address of the controller; 4. Choose the connecting controller and the light of IP address corresponding controller will turn flashing green, tap "Connect"; 5. A tone will be heard after connecting successfully.
Reset	Press the home button for 10 seconds and the light turns bright red with a tone, refer to the steps in "First-time Connection" to connect.

Light Status

Bright Red is on: The system is in factory version and needs to be set;
Red light flashes slowly: The controller is connecting to the router;
Green light flashes: The controller is chosen in App list;
Bright Green is on: The controller has connected to the mobile device.

Connection Breakdown

Breakdown	Issue	Solution
Red light continues to flash slowly	The router has been changed The password of the router has been changed The signal of Wi-Fi is weak	Reset Reset Find somewhere with a strong Wi-Fi signal
Fail to start up	The battery capacity is not sufficient	Replace with a battery in full capacity

Welcome to Boya !

Battery Installation Requirements

This product requires 6 1.5V AA alkaline batteries to operate. Batteries are installed in the battery compartment at the back of the controller. Push the button on the side of the battery compartment to open the cover. Install 6 batteries according to the polarity shown on the inside of the cover. Note that the polarity of the batteries must match the directions shown inside the cover.

Turning on: Press the home button on the controller for about 3 seconds and loose the finger, a start-up tone will be heard, the LED light turning bright or flashing slowly indicates the start-up is completed.

Turning off: Press the home button on the controller for about 3 seconds and loose the finger, a shut-down tone will be heard, the LED light turning off indicates the shut-down is completed.

Software

Abilix Apps	It is Abilix App Store, including Apps such as: Meet Boya, Boya Project Programming, Abilix Scratch, Abilix Chart, etc.
Boya Virtual Brain	Simulate Boya controller system on a mobile device to run downloaded programs and understand Boya.
Meet Boya	It is an App for users to know about the functions of sensors and actuators.
Boya Project Programming	It is an App helping users assemble dozens of official Krypton models referring to 3D animation; users also can write programs and upload module design programs and operate or debug online.

注意！Attention!

- 玩具不能当工具用 符号等级 II 级警告
 - 玩具只应连接到 Class II 设备
 - 非充电电池不能充电
 - 充电电池只能在成人监护下充电
 - 可充电电池在充电前应先从玩具中取出
 - 可充电电池应从玩具中取出
 - 不同类型的电池或新旧电池不能混用
 - Different types of batteries or new used batteries are not to be mixed
 - 电池应以正确极性放入
 - Batteries are to be inserted with the correct polarity
 - 用过的电池应从玩具中取出
 - Exhausted batteries are to be removed from the toy
 - 充电端子不得短路
 - The supply terminals are not to be short-circuited
 - 玩具不得供 3 岁以下儿童使用
 - The toy is not intended for children under 3 years old
 - 请仔细阅读、标准(谨慎) 电池请勿充电电池不能混用
 - Do not mix alkaline, standard (carbon-zinc), or rechargeable batteries.
- #### 如何放入电池
- #### How to insert replaceable batteries
- 本产品运行需要配备 6 节 1.5V AA 碱性干电池。电池应置于背盖人形部分的电池盒。打开电池盒盖并正确放入电池后，将玩具按箭头方向左右及前后多次晃动。
- This product requires 6 1.5V AA alkaline batteries, which are installed in the battery compartment at the bottom of the robot. Open the battery cover with a screwdriver and install batteries according to the polarity instruction.

Abilix Scratch	It is an App for scratch programming by means of mode-dragging. Users can debug and run programs online once the programming is completed.
Abilix Chart	It is an App for chart programming. Users can debug and run programs online once the programming is completed.

It is an App for chart programming. Users can debug and run programs online once the programming is completed.

App Download

Android users must download Abilix App first to obtain more programming Apps.
IOS users can obtain more programming Apps via Apple Store.

Name	Download	Applicable devices
	Android: Download in "Google Play".	
Boya Virtual Brain	1. Android: Search "Krypton Virtual Brain", "Meet Krypton" or "Krypton Project Programming" in Abilix Apps, download and install;	Mobile Phone and Pad
Meet Boya	2. IOS: Search "Krypton Virtual Brain", "Meet Krypton" or "Krypton Project Programming" in App Store, download and install.	
Boya Project Programming		

Statements:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Cet appareil est conforme à la section 15 des réglementations de la FCC. Le fonctionnement de l'appareil est sujet aux deux conditions suivantes:
(1) Cet appareil ne doit pas provoquer d'interférences nuisibles, et
(2) Cet appareil doit tolérer les interférences reçues, y compris celles qui risquent de provoquer un fonctionnement indésirable.

Note: This product 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 product 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 product 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 distance between the equipment and the receiver.
- Consult the dealer or an experienced radio/TV technician for help.

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment should be installed and operated with a minimum distance 20cm between the radiator and your body. Cet équipement doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et votre corps.

This device complies with Industry Canada licence exempt RSS standards. Operation is subject to the following two conditions:

- (1) This device must not cause interference, and
 - (2) This device must accept any interference, including interference that may cause undesired operation of the device.
- Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:
- (1) L'appareil ne doit pas produire de brouillage et
 - (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Abilix Scratch	1. Android: Search "Abilix Scratch" or "Abilix Chart" in Abilix Apps, download and install;
Abilix Chart	2. IOS: Search "Abilix Scratch" or "Abilix Chart" in App Store, download and install.
Applicable Models	iPad: IOS 9.0 and above, iPad 4/iPad mini and newly-launched models. iPhone: IOS 9.0 and above, iPhone 6 and newly-launched models. Android Pad: The resolution shall be 1280*800 at least. Android Phone: The resolution shall be 1280*720 at least.

Connect to the controller

Use router to connect the robot and your mobile device to operate programs online or start all functions; after the first-time connection and setting are completed, use normal connection in the future time. If the connection breaks, there will be prompt when opening the App.

	1. Connect the mobile device to the wireless router; 2. Turn on Boya and the light is bright red steady for setting, connect the robot to the router; 3. Open App and choose Boya 0/1/2, tap the icon "Scan"; 4. Search for controllers nearby which have joined Wi-Fi, tap the button "" on the upper right to add in the device;
First-time connection	5. Confirm the light of the controller is bright red steady, tap "Next"; 6. Input the password of the current connected router and tap "Next" to complete the setting; the light turns green steady and a tone will be heard; 7. Choose the connecting controller and the light of IP address corresponding robot will turn flashing green, tap "Connect"; 8. A tone will be heard after connecting successfully.

Abilix One-Year Limited Warranty

Abilix guarantees that the accompanying hardware products and accessories are free from defects in material and workmanship for one year from the date of original retail purchase. Abilix does not warrant normal wear and tear, or damage caused by accident or abuse. For service, please call Abilix, or visit an Abilix retail store or an Abilix authorized service provider. The available services depend on the country or region where the service is requested. When you submit a valid claim pursuant to this warranty policy, Abilix will repair, replace or refund your module series Boya product.

For additional technical support

Abilix service hotline: 400 8080 199

Abilix service e-mail: services@abilix.com

Abilix official website: www.abilix.com

Visit www.abilix.com/support/boya to get the latest Krypton's software support and usage tutorials.

Ask your local authorized distributor for information on technical support.

partnerX

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物料名称：Brain D产品使用手册EN v3.0
图号：S-GD-01EN
制作要求：
工艺：五折页，105g铜版纸，双面彩打
尺寸：88*125mm