ClicBot® entertaining and educational toy



- 002 English
- 026 简体中文
- 050 日本語
- 074 русский
- 098 Deutsche
- 124 Français
- 150 Español

Product Model:KY002CK10

English Usage Instructions

ClicBot App Installation

You can find and download the ClicBot App on the App Store/Android, or scan the QR code below to download.

 The ClicBot App supports iOS 10, Android 5.0 and higher versions.



Advice on Using

The Quick Start Guide gives basic instructions on how to control your ClicBot. Please refer to the User Manual for detailed information on the product, including module specifications/ connections, how to charge the battery, security & privacy, after-sale services, and FAQs. Please see the Module Function Card for information on the operational applications and how to use each modular function.

Usage Instructions

- O Contains small parts, not suitable for children under 3 years old:
- O Contains precision parts, avoid dropping:
- O Contains precision parts, avoid dro
- Keep away from flammable objects;○ Keep your ClicBot dry; keep the product away
- from water; ⊗ Keep the golden module "po-go" pins away from
- metal;

 © Do not directly or indirectly connect two or more
- brain modules together;
 Do not remove or replace the built-in battery;
 please contact our after-sales service team for

- OThe charger is not a toy, only use the charger recommended (the output voltage recommended: DC 5V/2A):
- ⊗Do not use while charging;
 ⊗Do not force your ClicBot to move when the
- movement function is locked; ©Do not touch the ClicBot while it is moving;
- ODO not touch the ClicBot while it is moving;

 OWhen finished with the ClicBot, please recycle it; do not carelessly discard it and pollute the
- environment; ©This package contains important information, please keep it at hand.

repairs in case of damage;

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Introduction to ClicBot

ClicBot is an intelligent robot designed for kids & adults with built-in functions for education and entertainment

makes it easy to assemble and disassemble, create all sorts of imaginative robots, and allows for thousands of programmable functional uses. This makes ClicBot is more than just a robot, companion, or even toy - but additionally as a means of creative expression, learning, and experiment, ClicBot is also alive with over 200+ unique interactions. With its big, blinking eyes, and sound module, ClicBot is able to interact with you in a very lively way. ClicBot can see, feel, hear, think, communicate, and perform lots of actions. Reaching out to pet its head will cause ClicBot to react sweetly

towards you, while programming it to recognize

ClicBot has a unique modular design, which

you will allow it to warmly greet you when you interact. You can also program ClicBot to react in specific ways, so you can be very imaginative in your creations.

Through the ClicBot App there are a variety of easy-to-use programmable tools, robotic design setups, and features that let you share your creations with the community. Build an exciting racing robot, cute animal companion, a wall climbing adventurer, a bionic explorer, and many other exciting possibilities.

ClicBot is designed to help children shape the future with STEAM learning. Through the app. there are two creative functions that allows for scripting programs in ClicBot, motion or 'demo' script, and drag & drop graphical programming.

Motion script means users only need to make

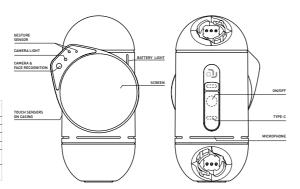
& save adjustments made to ClicBot in order to play back the entire routine in an easy and smooth manner. For more intermediate and advanced actions, users can use the drag & drop graphical programming feature to create a wider variety of amazing programs and actions.

To help guide children in realizing the full potential of their ideas and creativity, the makers of ClicBot will produce a series of STEAM videos to better quide children on how to build, program, and play with different robotic creations. Additionally, you can share your magical creations or search for inspiration through the ClicBot App Community, Simply upload your artworks, photos, code programs, or robotic designs for others to download and try for themselves!

■ Brain Module

The Brain module is the master control and power supply unit of the ClicBot. It uses an ARM-A7 processor and includes a rechargeable polymer lithium battery with a capacity of 1550mAh. The eye of the ClicBot is a 2.1-inch rotational, circular touch screen. It contains a camera & facial recognition software, gesture sensors and camera optics can be found within the upper-left area of the screen. There are three touch sensors which are located on the upper, left, and right side of the Brain respectively, and two connectors are located on the upper and bottom rear side. The Brain module is integrated with a number of the function modules, and it includes an accelerometer, gyroscope, microphone, loudspeaker, and WiFi.

Dimensions	66.7*66.7*125.3 mm	Touch sensors on	Upper, left and right side
Net weight	256 g	casing	
Size of Touch Screen	2.1"	Microphone	Volume detection
Rotation Range	-24°~+24°	Loudspeaker	Mono
Camera	2-megapixel camera	Wi-Fi	2.4G
	Face detection & recognition,	Battery Capacity	1550 mAh
	motion detection	Type of Charging	USB-C
	(identification distance < 5m)	Port	
Gesture Sensors	8 gestures	Connector	Upper and bottom rear
	(identification distance ≤ 20cm)		side

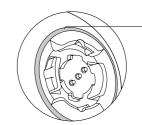


■ Joint Module

The Joint module, which is the "joint" of the ClicBot, is used for integrated motion. It functions with a high-precision servo system and uses a built-in DC geared motor, and build-in angular rate/angle position sensors. There are four connectors in total, two in each hemisphere. Each connector has a status indicator which shows the connection and update status in relation to other module pieces.



Dimension	55 mm (diameter)	
Net Weight	73 g	
Rotation Voltage	2.64 W	
Max. Rotor Speed	216°/s	
Connector	2 in each hemisphere	



Status of Joint's indicator

Connection Status

- ·Light On>Connected correct
- ·Light flashing->Waiting for module connection
- Light flashing quickly→Connection is wrong

Update Status

·Light On-Successfully updated

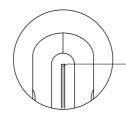
·Light flashing-Currently updating

■ Skeleton module

The Skeleton module is the 'bone' of the ClicBot, and is primarily used for building limbs. There are two connectors at the top and bottom of the Skeleton, and two strip status indicators located on the front, which show the connection and update status in relation to other module pieces.



Dimension	37.8*37*120 mm
Net Weight	57 g
Connector	Top and bottom



Status of Skeleton's indicator

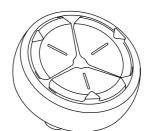
Connection Status ·Light On>Connected correct ·Light flashing-Waiting for module connection ·Light flashing quickly-Connection is wrong

Update Status ·Light On→Successfully updated ·Light flashing>Currently updating

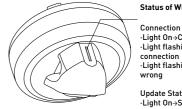


■ Wheel module

The Wheel module is a functional module used for vehicle setups. The Wheels include a DC geared motor and a magnetic speed sensor, with a maximum rotor speed of 4.5 rounds-per-second. There is a status indicator near the main connector which shows the connection and update status in relation to other module pieces.



Diameter of wheel	83.8 mm
Net Weight	140g
Rotated Voltage	2.4 W
Max. Rotor Speed	4.5 rounds per second
Connector	1



Status of Wheel's indicator

Connection Status

·Light On>Connected correct ·Light flashing>Waiting for module

·Light flashing quickly>Connection is wrong

Update Status Light On→Successfully updated ·Light flashing>Currently updating

Set Wheel NO.X Light strip color

The color of Wheel's indicator can be changed in Drag & Drop program.

Specification of Modules

Specification of Modules

■ Base Accessory - Mount

The Mount can be used to fix your ClicBot to a table with Mount Stickers.

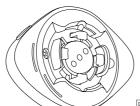


/		
/	Dimension	75.1*75.1*45.2 mm
	Net Weight	61 q

Please use the Mount stickers provided by KEYi Tech to ensure the product is fixed properly.

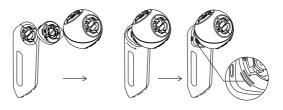
■ Reinforcement Accessory - Locker

The Locker is used to reinforce connections between two modules.



Dimension	47*36*14.4 mm

• It can be used for connecting modules when additional reinforcements are required.



Step1

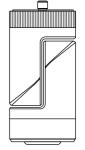
Connect Locker
between modules.

Step2 Rotate Locker. Step3

Rotate until baseline is aligned

■ Fixation Accessory - Holder

The Holder can be used to connect a cellphone or sports camera to your ClicBot. It uses a standard 1/4 screw.



Diameter	40*40*86.6 mm
let Weight	55 g
egrees of	Universal joint on the bottom: 0°~180°
reedom	Horizontal knob of the main part: -90°~90°
	hottom

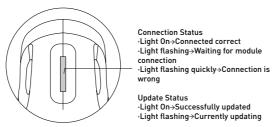
■ Smart Foot module

The Smart Foot module is a functional sensor module that primarily serves as the 'feet' of the ClicBot. The Smart Foot includes a highly-sensitive pressure sensor and a micro-processor to control and measure terminal pressure.



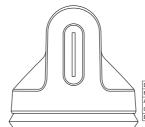
Diameter	39.3*41.8*69.4 mm
Net Weight	41g
Pressure Range	2 9.8 N

Smart foot has a orange indicator. After connecting onto ClicBot, the luminance of the indicator will automatically brighten when pressure is increasing. The indicator can also indicate the connection status and update status.



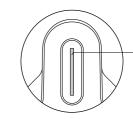
■ Suction Cup module

The Suction Cup module is a functional actuator module. The Suction Cup includes a negative pressure pump and a solenoid valve. By utilizing a micro-processor, it can control the air current and turn on/off the value, allowing the ClicBot to perform climbing functions. It also uses the air pressure sensor to proactively check the stability of the ClicBot's movement.



Diameter	83.5*83.5*82.8 mm
Net Weight	145 g
Adsorption	Vertical direction: max.~20kg
Capacity	Horizontal direction: max.~5kg
Buckle Position	Тор

Suction Cup has a green strip indicator. The indicator light keeps breathing when Suction Cup is functioning and stays on if the suction is successful. The indicator can also indicate the connection status and update status.



Connection Status

·Light On-Connected correct
·Light flashing-Waiting for module

connection ·Light flashing quickly→Connection is wrong

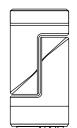
Update Status

·Light On-Successfully updated

·Light flashing→Currently updating

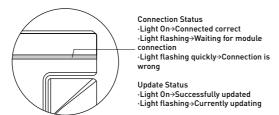
■ Distance Sensor module

The Distance Sensor module is a functional sensor module. It uses a high-precision infrared probe and built-in micro-processor to control and measure the distance from an obstacle.



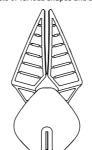
Diameter	40*40*82 mm
Net Weight	53 g
Detection Distance	2~100 cm
Range	
Degrees of	Universal joint on the bottom: 0°~180°
Freedom	Horizontal knob of the main part:
	-90°~90°
Buckle Position	Bottom

Distance sensor has a red indicator. After connecting onto ClicBot, the luminance of indicator will automatically brighten when the distance is shortening. The indicator can also indicate the connection status and update status.



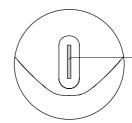
■ Grasper module

The Grasper module is a functional actuator module. It has a flexible bionic design and is controlled via a built-in micro-processor. It is able to grasp objects of various shapes and sizes.



Dimension	75*57*165 mm
Net Weight	98 g
Max. Weight	250 g
Max. Dimension	6 cm
Buckle Position	Bottom

Grasper has a yellow indicator which can also indicate the connection status and update status.



Connection Status
·Light On>Connected correct
·Light flashing>Waiting for module connection

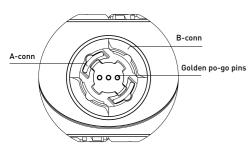
- Light flashing quickly→Connection is wrong

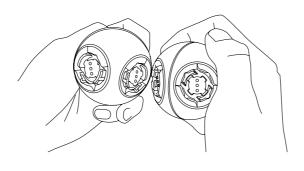
Update Status
-Light On->Successfully updated
-Light flashing->Currently updating

Assemble the Modules

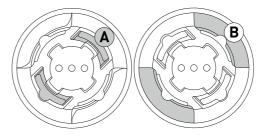
How to connect modules

All ClicBot modules can be connected to each other by connectors. A connector contains an A-conn, a B-conn and 'po-go' pins. You can connect two modules by interlacing the A-conn and B-conn, and the golden po-go pins transfer instruction and supply power.





Modules can be connected at opposite ends & in non-parallel directions.



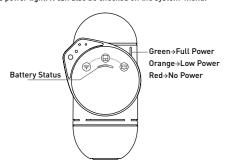
Note:Align the A-conn of one module with the B-conn of the other to connect two modules

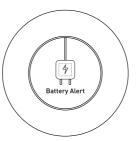
Parallel Connection

Non-Parallel Connection

The battery status of the ClicBot is indicated by different colors on the Brain Module power light. It can also be checked on the system menu.

When the power is low, an alert will show on the screen. Please charge the battery to ensure normal operations and to maintain battery life.





■ Internet Connection

The Brain module can connect to the internet via Wi-Fi, and you can find updates for functions on the cloud server.

- How to connect to the internet: 1. Open the ClicBot App, select the Q . Press "Network Settings" on the Brain Module, then enter your WiFi password. A QR code will generate scan this to connect:
- 2. Swipe upwards on the screen of the Brain Module to view the system menu, then select the Network "?" icon to begin scanning;
- 3. Using the ClicBot App. scan the QR code generated by the Brain module to connect to the internet.







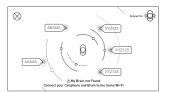
Scan the OR code with Brain module

■ Device Connection

Brain module can be connected to ClicBot App via router or hotspot. It is suitable for remotely controlling setup by connecting to ClicBot App via router in the Wi-Fi scenarios

How to connect to ClicBot App via router:

1. Connect Brain module and install ClicBot App to the same Wi-Fi; 2.0pen the ClicBot App, select the Q. Select "Connect to Brain" and then select "Router Connection". The App will automatically search for the Brain Module connected to the Wifi Network. Choose the number of the Brain Module on the screen, and select "Confirm" to connect.



Brain module in ClicBot App

Connection

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Connection via hotspot is suitable when Wi-Fi is not available or the signal is weak.

How to connect to ClicBot App via hotspot:

- 1. Swipe upwards on the screen of the Brain Module to view the system menu, then select the Device icon , and click "Hotspot Connection" to
- generate a QR code. 2. Open the ClicBot App. select 2. Click "Connect to Brain" and then select
- "Hotspot Connection" to begin scanning. 3. Scan the QR code with your mobile device to set up the connection.



The OR Code Generated by Brain module



Scan the QR code to Set up the Connection

■ Security Information





GB19865-2005、GB6675.1-2014、GB6675.2-2014、 GB6675.3-2014、GB6675.4-2014



This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference (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 ECC 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. FCC ID: 2AWR5-KY002

RSS-Gen Issue & December 2014"&"CNR-Gen &e Décembre 2014 -- English:

Security and Privacy

This device complies with Industry Canada licenceexempt RSS standard(s).

Operation is subject to the following two conditions: [1] This device may not cause interference, and [2] This device must accept any interference, including interference that may cause undesired operation of

--French-Le présentappareilestconforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitationestautorisée aux deux

conditions suivantes: [1] l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareildoit accepter tout brouillageradioélectriquesubi, mêmesi le

brouillageest susceptible d'encompromettre le fonctionnement

the device.

IC ID: 26344-KY002

Safety and Privacy







Manufacturer's Name: Beijing Ke Yi Technology Co., Ltd. Address: 8th Floor, Dimeng Building, Huayuan Road, Haidian District, Beijing Product Name: ClicBot modular entertaining and educational toy

Trade Mark: ClicBot Model number: KY002CK10

Operating Temperature: -10° C to 40° C

This device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. All essential radio test suites have been carried out.

Detailed DOC file please visit our website: www.keyirobot.com.

The device complies with RF specifications when the device used at 20cm from your body Care for the environment! Must not be discarded with household waste.

RF Secification:

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Function	Operation Frequency	Max RF output power:	Limit
2.4G WIFI 802.11b/g/	802.11b/g/n(20MHz):	11.96 dBm	20 dBm.
n(HT20,HT40)	2412-2472MHz;802.11n(40MH		
	z):2422-2462MHz		

User Privacy

We understand the importance of personal information security, and will make every effort to protect the personal information of our users. We will take all reasonable and practicable means to avoid collecting irrelevant personal information. If it is necessary for us to do so, we will first obtain your authorization to use your personal information and store this on a local hard drive in accordance with relevant professional standards. Unless absolutely necessary, we will only process your personal information on the local hard drive, to avoid any unauthorized access, disclosure to the public, usage, modification, damage or loss.

For specific privacy policies, please refer to the ClicBot App or visit www. kevirobot.com.

After-Sales Service

In the event of any defect to your ClicBot modular robot product or its accessories during use, we are committed to ensuring a 12-month maintenance-free service for any electronic components from the date of purchase, and a six-month service for any materials or motors from the date of purchase. This is in accordance with the User Manual, and provided that any faulty workmanship can be confirmed by a test technician.

Please contact support@keyirobot.com or your local retailer for any aftersales services

Please keep your receipt on hand to ensure after-sales service.

module

module flash?

Fast flashing - Connection error

■ Programming language applicable to ClicBot

Blockly.

Support over 20 editable modules, including the screen of Brain module, loudspeaker, the motor of Joint module, the motor of Wheel module, and

■ Is it a must to connect ClicBot to the internet

while playing? No. but it needs to connect to the internet to check for update

■ Is it a must to control ClicBot Robot with ClicBot App?

No. it can be controlled manually with the screen of Brain module

■ The maximum distance of remote control with ClicBot App

It depends on how to connect the robot to ClickBot

·Via router, it is up to 10m which may be different due to the performance of router.

·Via hotspot, it is up to 5m.

■ Can ClicBot's functions be updated?

ClicBot modules can be upgraded online. Connect Brain module to Wi-Fi, click Home button "-" and choose "Update" to check/download the

Connect other modules to Brain module to auto start the update, follow the update instruction on the screen to upgrade modules.

■ The identification distance of gestures like shielding, waving and etc.

The gesture sensor is located in the upper-left triangle area of the screen of Brain module. Please keep your hand at a distance of 5-20 cm when shielding and waving, etc.

■ The detection distance range of Brain module

The gesture sensor is located in the upper-left triangle area of the screen of Brain Module, and it can detect the obstacle at a distance between 5 and 20 cm in front of robots.

■ The face identification distance of Brain module

The camera for face detection & recognition is located in the upper-left triangle area of the screen of Brain Module, and it can identify faces at a distance of 1 m.

■ The motion detection distance of Brain module

The camera for motion detection is located in the upper-left triangle are of the screen of Brain Module, and it can detect the movement at a distance between 1 and 5 m.

■ The role of the camera of Brain module

Brain module is equipped with a 1.2-megapixel camera which is capable for controlling the robot from the first-person point of view, face detection & recognition and motion detection.

■ The rotation range of the screen of Brain

■ How to assemble a ClicBot Robot?

ClicBot is installed with a smart assembling guidance system. After choosing which robot is to be assembled, there will be a step-by-step instruction shown on the screen of Brain Module. The indicator light will flash to indicate where to be connected. The system will automatically check whether all the modules have been assembled correctly and show alert message on the screen in case of any error while the indicator light is fast flashing. And the system will automatically adjust the angle of connection as long as the two modules are correctly assembled.

module

The rotation range of the screen is up to 24 degree in the horizontal direction which can be set in ClicBot App. Please do not rotate the screen by hand

Support graphic programming based on Google

■ Editable modules applicable to ClicBot

the color of the strip lights of Skeleton module.

for 4 seconds to force a shutdown ■ Diagnostics - Auto Shutdown

■ How to turn on/off ClicBot?

To maintain the battery and motor performance, ClicBot will be shut down automatically in the

Long press the power button on the rear side of

Press the power button on the rear side of Brain

module and then choose the shutdown option to

turn off ClicBot, or long press the power button

Brain module for 3 seconds to turn on ClicBot.

following situation:

1. It hasn't been operated over 20 minutes; 2. Battery power is lower than 10%.

■ How long does ClicBot take a full charge and how long can it be used continuously?

It takes 2.5 hours at 5V/2A to have it fully charged, and it can be used continuously up to 4 hours.

FAQs

