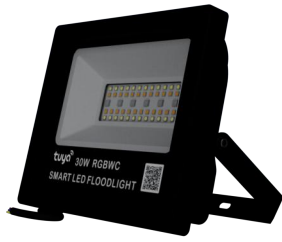


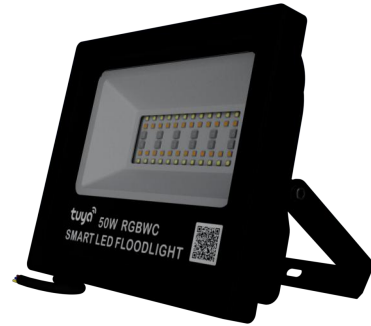
ML301X | PWM RGB CCT Dobot Smart Floodlight

ML301X Floodlight Specification Document

tuya® CE RoHS



ML301X-30W



ML301X-50W

Compatible remote control

A single device can support 10 remote controls simultaneously



MR105-5 IN 1



MR115-5 IN 1



MR333 RGB/RGBW



MR205-5 IN 1



MR02X Series



MR501-Human body sensor

Compatible voice assistant

Support language command switch, brightness adjustment, and color.



小米小爱



小智管家



天猫精灵



百度小度

Amazon Alexa

Yandex Alice

Google Assistant

Local+remote control:

The MESH remote control achieves local physical button control (such as switch, group switching, basic dimming) through MESH, suitable for the elderly, children, or quick operation.

Graffiti intelligent floodlight can be controlled remotely through Wi Fi/BLUETOOTH/ZIGBEE gateway and graffiti ecosystem support APP, with fine adjustment of brightness and dynamic effects, and can be shared

The functions of devices and creating groups provide unlimited possibilities for lighting and atmosphere creation, bringing you a smarter, more convenient, and personalized experience.

feature

- MESH wireless transmission technology, with stable signal and strong penetration.
- Supports 16 million color adjustment, allowing seamless switching between cool and warm white light and colored light through the control of light color, brightness, and color temperature via APP, MESH remote control, or voice assistants (such as Xiao Ai). This meets diverse needs such as atmosphere creation and scene linkage.
- With IP66 waterproof and dustproof capabilities, it is suitable for outdoor courtyards, building facades, poolsides, and other humid environments. Made of die-cast aluminum and tempered glass, it boasts excellent heat dissipation performance, ensuring long-term stable operation.
- Supports the pairing of multiple devices, allowing simultaneous control over them. One remote control can manage and synchronize up to 500 controllers. Each controller can be supported by 10 remote controls. (Control distance of 30 meters)
- The brightness of the remote control can be adjusted according to personal preference, and the brightness and speed of the dynamic mode can be edited.
- This controller can adjust brightness, color, voice control, select various dynamic or custom scene modes, timing, countdown, and other functions through the Doodle/Smart Life APP.
- Utilizing PWM (Pulse Width Modulation) technology ensures a smooth transition of lighting, preventing eye fatigue

- Voice control, supporting speakers such as Amazon Alexa, Google Assistant, Tmall Genie, and Xiaomi AI Voice Assistant.
- Supports multiple installation methods such as wall-mounted, ceiling-mounted, and tilting, equipped with a 180° adjustable bracket that allows for adjustment of the illumination angle according to actual needs; offers 30W/50W power options to meet different lighting intensity requirements in various spaces.

Equipment Parameters

ML301X

Input voltage	DC 24V/AC 110-230V optional
Product Power	30W/50W optional
Signal Protocol	MESH+WIFI/Bluetooth/Zigbee
control distance	30M
luminescent color	RGB+DW+CW

Packaging (30W)

Product dimensions	L185XW155XH43mm
Packaging size (1 PCS)	L21.5XW17.9XH5cm/0.787kg
Packing size (30 PCS)	L52XW39.5XH21.8cm/24kg

Environment

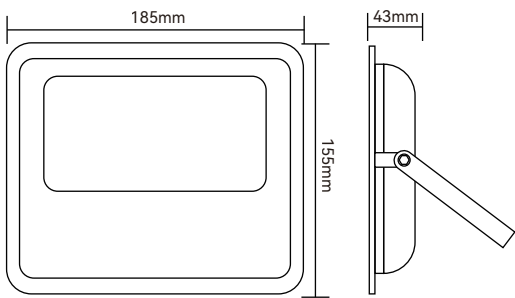
Operating Temperature	Ta:-20°C~+60°C
Maximum temperature of the case	Tc:+65°C
waterproof rating	IP66
Product Material	Die-cast aluminum + tempered glass
Certification	CE,ROHS

Packaging (50W)

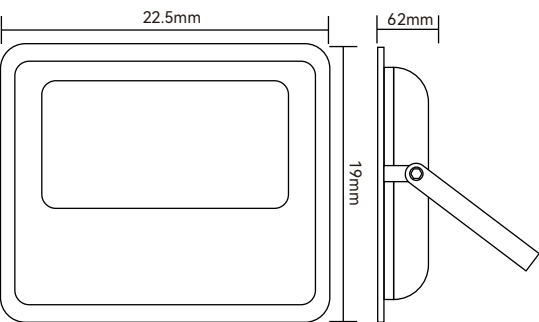
Product dimensions	L22.5XW19XH6.2mm
Packaging size (1个)	L24.5XW22XH6.5cm/1.181kg
Packing size (30个)	L68XW24.8XH43.5cm/36kg

Equipment mechanism and installation

ML30X-30W Size



ML30X-50W Size



The default for shipment is bare wire

Bare wire length 1.5M

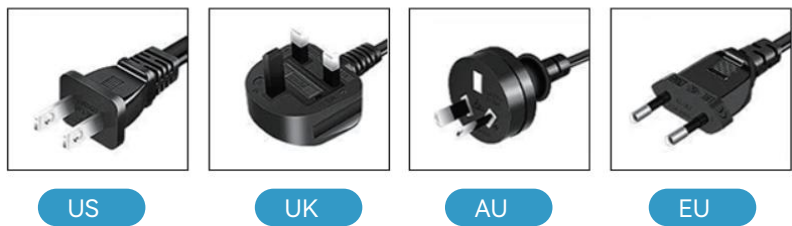
DC 24V  Red  Blue



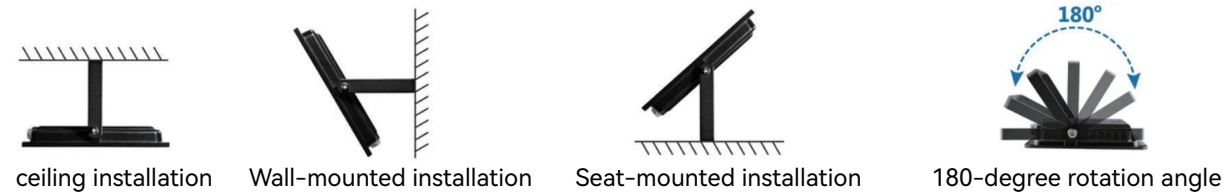
AC: 110-240V  Yellow  Red  Blue



Customized plug type (please consult sales for details)

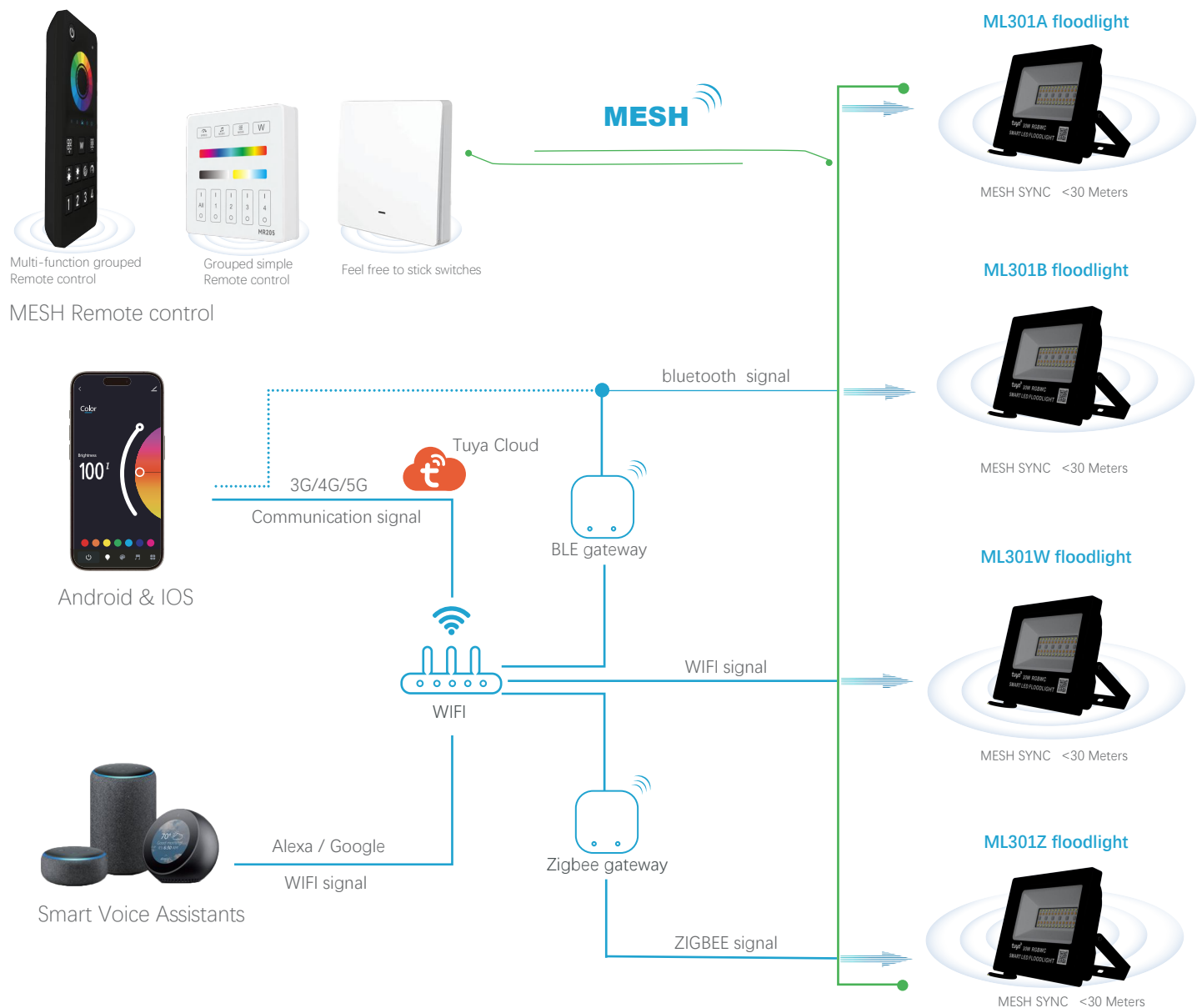


British Standard installation angle (180°)



Schematic diagram of the control connection

MESH wireless communication technology



Description of spotlight configuration function

1. spotlight configuration settings – Description of power-on and power-off functions



function		Power-on and power-off methods
Paired remote controller	MR series Remote control	After powering off after being powered on for 3 consecutive times, press any grouping button on the remote control to complete the pairing of the remote control
Network Configuration	Connect to the app	After powering off after 5 consecutive power-ons, operate network configuration on the mobile phone APP
Device Reset	Clean and reset	After being powered on for 10 consecutive times, the device resets, clears WiFi network information, and disengages remote control pairing

2.Tuya smart download

Download and install the [Smart Life] or [Tuya Smart] APP

Search for [Tuya Smart] on Apple or Google Play or scan the QR code below to download and install the app.
Please click on the "Sign Up" button to create an account and use it for the first time, if you already have an account, log in directly.

Please download the corresponding Tuya/Smart Life APP according to your region.



Scan the QR code to download the APP



Smart Life APP



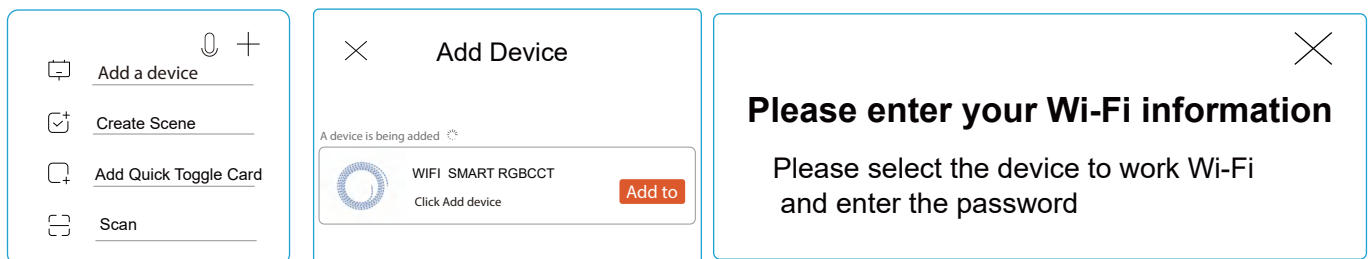
Tuya Smart APP

3. Connect to your smartphone

ML301W connection to TUYA APP process

1. Make sure your smartphone is working under a WLAN network.
2. Open the login APP, After powering off after 5 consecutive power-ons to add a device, if it is not found, please click "+" in the upper right corner, and then manually select "Add Device", when adding, you need to enter the WiFi password of your smartphone connection, and wait for 5-10 seconds to complete the connection after successfully entering
3. Once the connection is successful, the new device will be displayed on the home page, then tap on the device and enter the control interface to do more

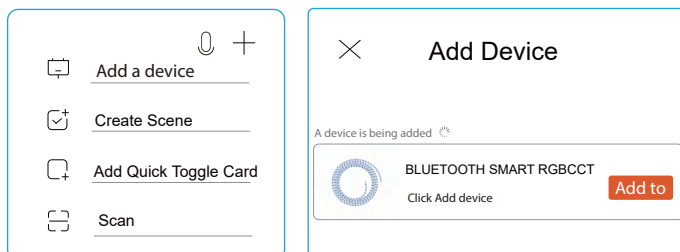
Follow these steps to complete the connection:



ML301B Connection TUYA APP process

1. Make sure your smartphone is working under a WLAN network.
2. Open the login APP, After powering off after 5 consecutive power-ons to add a device, if you don't find it, please click "+" in the upper right corner, then manually select "Add Device", wait for 5-10 seconds to complete the connection.
3. Once the connection is successful, the new device will be displayed on the home page, then tap on the device and enter the control interface to do more

Follow these steps to complete the connection:

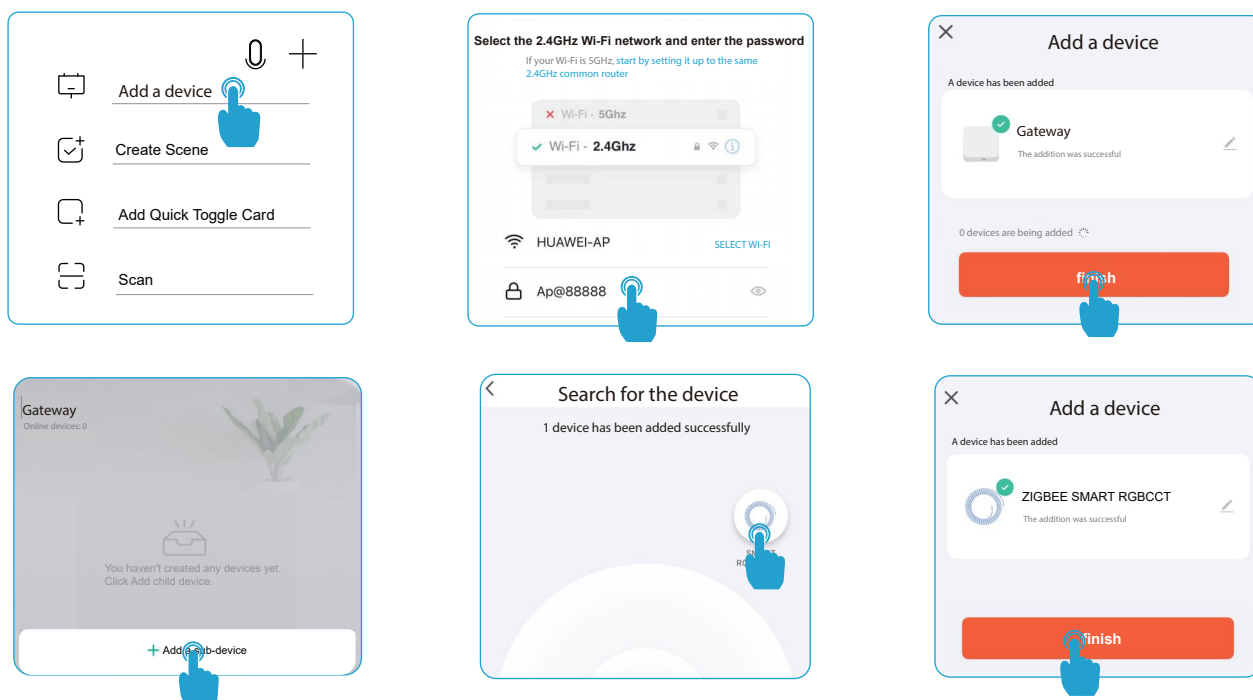


ML301Z connection to TUYA APP process

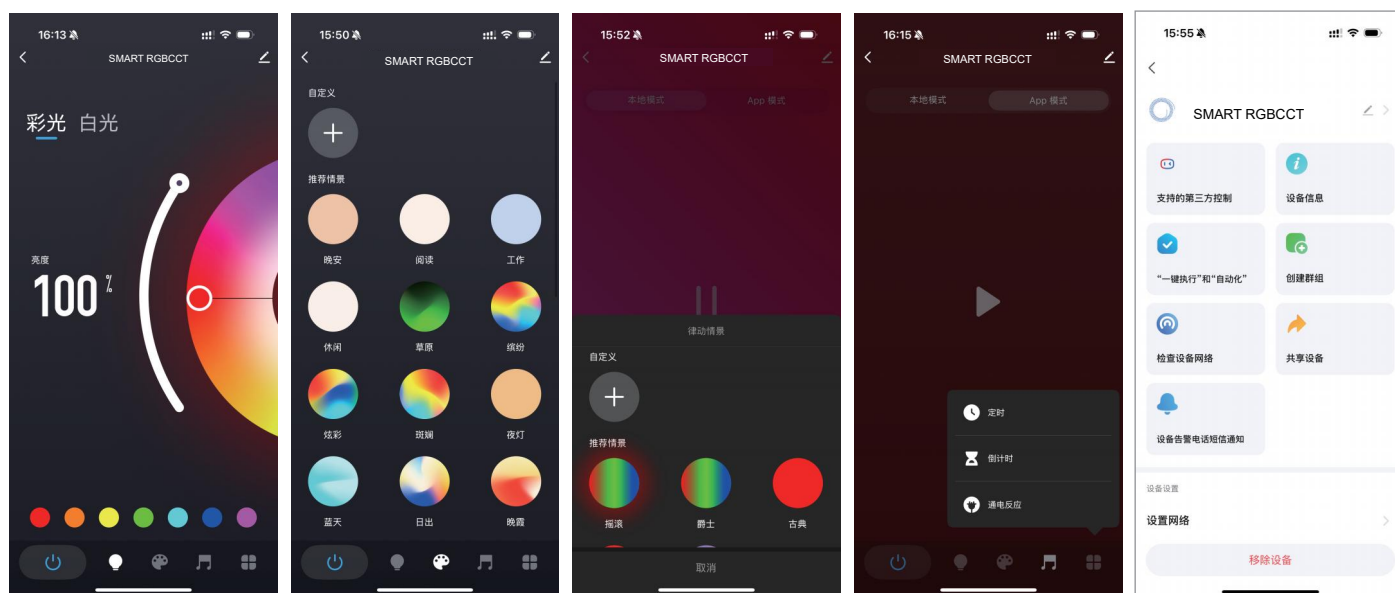
1. Make sure your smartphone is working under a WLAN network.
2. Open the Tuya APP, select Manually Add Gateway Central Control, select Zigbee Gateway, and enter the WIFI password to connect (Incorrect WIFI password will cause the connection to fail, non-2.4G network WIFI also will cause the connection to fail)
3. Reset the Zigbee gateway device, the red and blue lights of the Zigbee gateway are always on, turn on the power supply, please confirm that the red light is flashing, the blue light is always on, and the red light is always on after the connection is successful.

- Click Done to enter the gateway control interface, add sub-devices, and confirm that the sub-devices belong to the network configuration mode (please place the gateway, controller, and smartphone close to each other for quick speed.) Pairing identification) After powering off after 5 consecutive power-ons, after the connection is successful, the sub-device will be displayed on the home page, then tap the device and enter the control interface to do more.
- After the controller is installed in the APP, we can easily control the LED lighting with the APP.

Follow these steps to complete the connection:



Introduction to the functions of the APP interface



IPL White light mode

Customize the scene

Music mode

Timer & Countdown & Power-on Response

Set up

Color light White light mode: set the color and brightness of the light, one click to shortcut the color

Custom scenes: 32 scenario modes Custom customization can adjust the static, jumping, breathing, color brightness, and change speed of the scene, a total of 10 scenes can be customized

Music mode: local mode adjustable sensitivity, 5 recommended scenes, custom rhythm scenes, a total of 3 custom rhythm scenes can be added. The APP mode is not adjustable, and you need to turn on the mobile phone microphone to detect the music

Timer & Countdown & Power-on Response: Customize multiple times to perform on/off lights; Customize the countdown time to perform the on/off light action, and the light will automatically turn off when the countdown ends. The energizing reaction can set the state of the light after the energizing is applied

Settings: This interface can be bound with third-party language control, one-click execution and automation, group creation, device sharing and other functions

Safety Precautions

1. Please do not use this device in large metal areas or in environments with strong electromagnetic waves nearby, as it may seriously affect the control distance.
2. Please check whether the input voltage of the constant voltage power supply meets the requirements of the controller and whether the connection between the cathode and anode is correct.
3. Non-professional users are not allowed to disassemble the controller directly, otherwise it may cause fire and electric shock.
4. Please install the device in a well-ventilated area.