ML5 5 in 1 Controller (Matter Over WiFi+2.4GHz)

Model No.: ML5

Feature

· Certified Matter Over Wifi, Matter standard protocol, support to Collaborate with multi platforms

· Wide compatibility, collaborate with products from different brands which comply with Matter ecosystem

· Simple configuration, easily pairing via QR code

· Voice control, compatible with Siri, Google Assistant & Alexa portable control

· Support to set up forecast scenes and select scenes based on different lighting requirements

· Max work with 12pcs remote control (distance 30m)

· Built-in 18 dynamic modes like jumping,fading(only control via remote)

· Auto transmitting: transmit signal to another one automatically and extend countless distance

· Auto synchronization:same dynamic mode can synchronize together

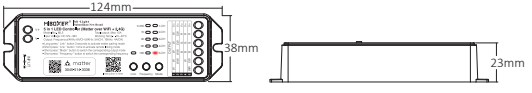
· Support DND mode, usually used in power failure area to save power

· Support multi platforms like Apple Home Kit、Amazon Alexa、Google Home、SmartThings、 Tuya smart



Parameters

Product Name:	5 in 1 Controller (Matter Over WiFi+2.4G)	IP Rate:	IP20
Model No.:	ML5	Working Temperature:	-10~40℃
Input Voltage:	DC12v~48V	EMC Standard (EMC):	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-3 V2.1.1
Output Current:	6A/Channel		
Total Output:	Max 15A	Safety Standard(LVD):	EN 61347-2-11: 2001+A1: 2019 EN 61347-1: 2015+A1: 2021 EN 62493: 2015+A1: 2022
Protocol:	WiFi+2.4G RF		
WiFi Standard:	IEEE 802.11b/g/n 2.4G Hz	Radio Equipment(RED):	ETSI EN 300 440 V2.2.1
Control Distance:	RF: 30M	Certification:	CE, EMC, LVD, RED



Connection Diagram



Single Color Mode



RGB Mode



Dual White Mode

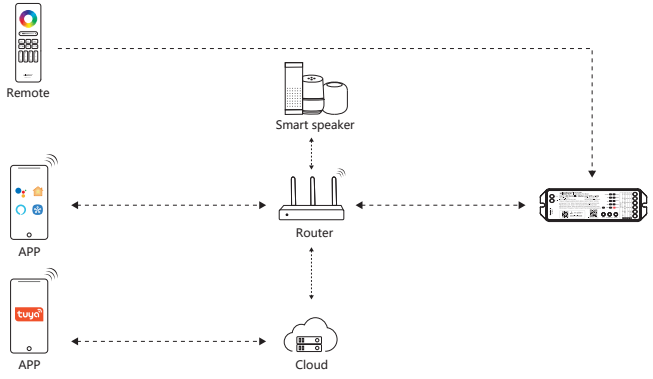


RGBW Mode



RGB+CCT Mode

Application Diagram



Setting Output Mode

Output mode is related with connected led lights

Solution: short press " Mode" to switch mode (attention: it will step out automatically without any operation within 3 seconds)

Output Mode table sheet (indicator standing area means correct output mode)

Indicator Color	1-CH	2-CH	3-CH	4-CH	5-CH
Output	Single color Mode	Dual white Mode	RGB Mode	RGBW Mode	RGB+CCT Mode

Switching Frequency

Short press "Frequency" to switch
0.25K/ 1K/ 4K/ 8K/ 16K

Frequency	＜8K	8K	16K
Current	6A	5A	4A

Turn Do Not Disturb mode on and off (ON by default)

Turn on “Do Not Disturb” (applicable to areas with frequent power outages to save energy)

Turn on Do Not Disturb mode:

Short press the "OFF" button 3 times within 3 seconds, and then short press the "ON" button 3 times. The light flashes 4 times to indicate success.

Note: When the lamp is powered on again after a power outage, its status (lights on or off) will remain the same as before the power outage.

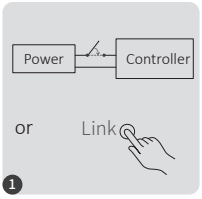
Turn off Do Not Disturb mode:

Short press the "ON" button 3 times within 3 seconds, and then short press the "OFF" button 3 times. The light flashes 4 times slowly to indicate successful shutdown.

Note: When the lamp is powered on again after a power outage, its status will be on by default.

2.4G RF Remote control instruction

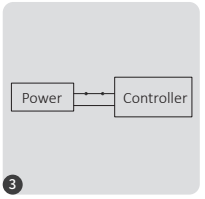
Linking Code Instructions



Power off 10 seconds and power on again or short press " Link " one time



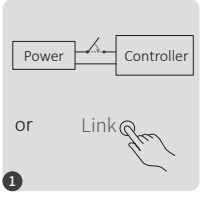
Short press " I " button 3 times within 3 seconds.



Lights blink 3 times slowly means linking is done successfully.

Linking failed if light is not blinking slowly, Please follow above steps again.
(Note: Light that have linked can't link again)

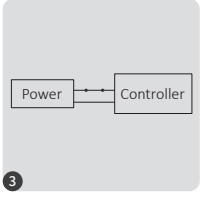
Unlinking Code Instructions



Power off 10 seconds and power on again or short press " Link " one time



Short press " I " button 5 times within 3 seconds.



Lights blink 10 times quickly means unlinking is done successfully.

Unlinking failed if light is not blinking quickly, Please follow above steps again.
(Note: Light haven't linked that don't need to unlink)

Dynamic mode table selection (only for remote control)

Select dynamic mode table 1:
While the light is in static mode, short press **" S+ "** button 5 times quickly until blue light flashes 3 times slowly, static mode is activated successfully.

Select dynamic mode table 2:
While the light is in static mode, short press **" S- "** button 5 times quickly until yellow light flashes 3 times slowly, static mode is activated successfully.

Dynamic mode table 1 (default)

Number	Dynamic Mode	Brightness / Saturation / Speed
1	Mardi Gras	Adjustable
2	Automatic color change	
3	Sam	
4	Gemstone	
5	Twilight	
6	American	
7	Fat Tuesday	
8	Party	
9	Slow Color Splash	

Dynamic mode table 2 (need to switch manually)

Number	Dynamic Mode	Brightness / Saturation / Speed
1	Seven colors gradual change	Adjustable
2	White light Gradual change	
3	RGB gradual change	
4	Seven colors jump to change	
5	Jump to change randomly	
6	Red light gradual change +Flash 3 times	
7	Green light gradual change +Flash 3 times	
8	Blue light gradual change +Flash 3 times	
9	White light gradual change +Flash 3 times	

App control instructions

Pairing Network (5G router is unavailable)

For other Matter network configuration methods,
please refer to the network configuration guide

1). Download and install "Tuya Smart" APP

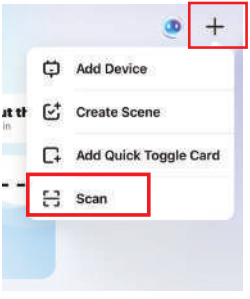
Search "Tuya Smart" in application store or Scan QR code

Please register account for first operation, login into APP if you already had account.

2). Pairing Networkt

1). Connect controller with mains
2). Checking indicator status (quick flashing 2 times per seconds)
There are 2 solutions if indicator status not flash quickly
-Long press " Link" 3 seconds
-Power off and power on controller 6 times

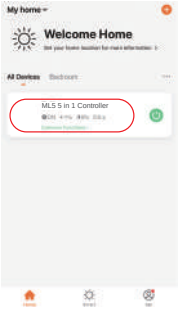
3). Connect phone with home wifi
4). Open Tuya APP, click"+" and "scan"t
5). Scan QR code on product
6). Complete configuration

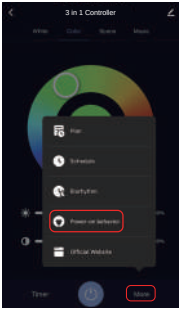


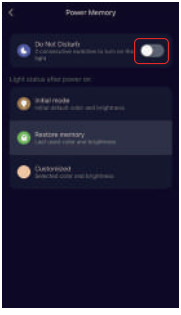


App turn on and off “Do Not Disturb” mode (default activated)

Click the light which need to be set up or group control --- click “More”--- click “Power-on behavior”--- turn on or off



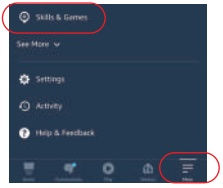




Alexa voice control instruction

Please add device into **[Tuya Smart]** app, then start following steps

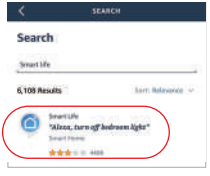
1). Open Alexa App
2). Click “More” on the bottom of right corner
3). Click “Skills & Games”



4). Click “ ” on the top of right corner
5). Type into “Smart life” and search



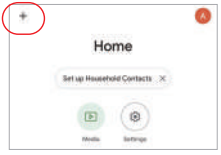
6). Click “Smart Life” skill, follow instruction to finish configuration and start voice control



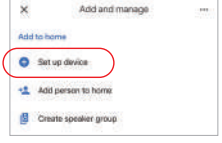
Google Home voice control instruction

Please add device into **[Tuya Smart]** app , then start following steps

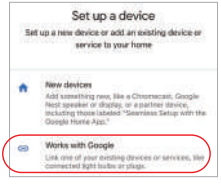
1). Open Google Home App
2). Click “+” on the top of left corner



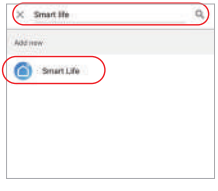
3). Click “Set up device”



4). Click “Works with Google”



5). Click “ ” on the top of right corner
6). Type into “Smart life” and search
7). Click “Smart Life” skill, follow instruction to finish configuration and start voice control



Attention

1. Please turn off power supply before installation.
2. Please ensure input voltage to be same as requirements from device.
3. Don’ t disassemble device if you are not expert, otherwise it will damage it.
4. Please do not use the light in the place with widely range metal area or strong electromagnetic wave nearby, otherwise, the remote distance will be seriously affected.

Made in China