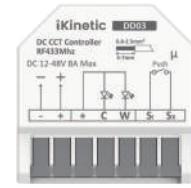


## DD03 Series 3 Wire DC CCT Controller

Made in China.



DD03 & DD03-MW& DD03-WF

### DESCRIPTION

- 3-wire tunable white LED ,CCT adjustable from 2700K to 6500K, up to 8A output.
- Support for RF and Wi-Fi provides high flexibility for LED lighting controls.
- Dimming and CCT tuning can also be controlled via standard push-button switch.
- Screw-free terminal as standard to provide fast installation.
- A 12-48V DC input is ideal for tunable white LED strip, furniture lighting and other low voltage DC LED applications.

### FEATURES

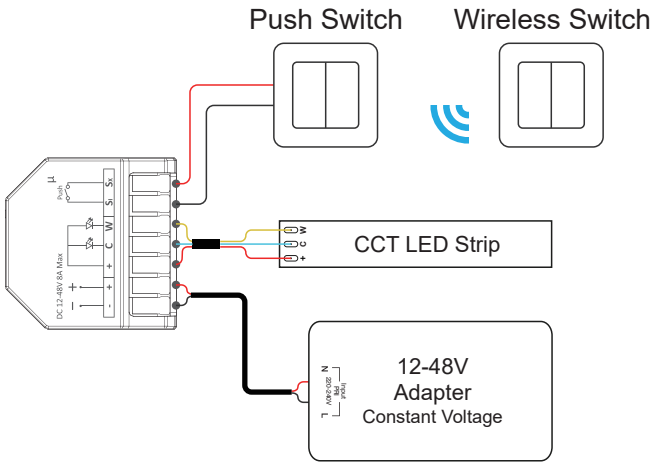
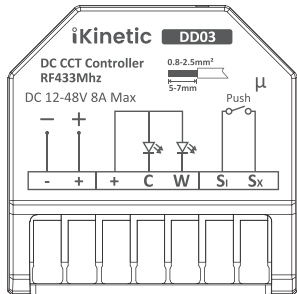
1. Encrypted RF transmission, anti-interference ability.
2. 0.1-100% logarithmic dimming curve.
3. Minimum dimming level is adjustable.
4. Power cut memo function available.
5. Built-in overcurrent protection.
6. Smart and RF control works interactively.

### SPECIFICATION

RF VERSION	
Model	DD03
Type	DC PWM CCT receiver
Channel	1CH
Input Voltage	12V-48V
Output Voltage	12V-48V
Output Current	Max 8A
Load Power	12V<96W;24V<192W ;36V<288W;48V<384W
Radio frequency	RF433Mhz
DMT	ASK
PWM	4KHz
Dimming Curve	0.1-100% Logarithmic
Memory Capacity	Maximum 10 switches
Wall switch Compatible	Support standand push button switch
Housing Material	UL 94-V0
IP Rating	IP20
Operating Temperature	-20°C -+40°C
Ta/Tc	Ta: 40°C Tc: 85°C
Dimensions	42mm*42mm*16.5mm
Warranty	5 years

SMART VERSION (RF433Mhz+Matter Over WiFi)	
Model	DD03-MW
Protocal	2.4Ghz for Matter Over Wi-Fi
Wi-Fi Security Protocol	WEP, WPA/WPA2, WPA/WPA2 PSK (AES), WPA3
Wireless Frequency	2.400-2.480GHz
APP	Homekit, Smarthings, Google home, Tuya Smartlife, Alexa, Yandex
<p><b>*Note:</b></p> <ul style="list-style-type: none"> <li>Smart receivers supports RF function which is based on RF433Mhz.</li> <li>Matter is an open protocol that relies on local communication, and works even when the internet is disconnected.</li> <li>To enable Matter device operation, a compatible third-party smart speaker corresponding to your chosen app is required. Remote control is supported, excluding Tuya Smartlife.</li> <li>Matter devices using the Tuya Smartlife app support local control only and certain functions on Smartlife app may not be fully available or display due to Tuya-Matter compatibility issues.</li> </ul>	
SMART VERSION (RF433Mhz+Tuya Over WiFi)	
Model	DD03-WF
Protocal	2.4Ghz for Tuya Over Wi-Fi
Wi-Fi Security Protocol	WEP, WPA/WPA2, WPA/WPA2 PSK (AES), WPA3
Wireless Frequency	2.400-2.480GHz
APP	Tuya Smartlife, Google Home, Amazon Alexa
<p><b>*Note:</b></p> <p>Smart receivers supports RF function which is based on RF433Mhz.</p> <p>To work with Smart Speaker or Home automation system, please check Tuya official website for further information.</p>	

WIRING DIAGRAM



\*Note: One receiver can be configured with up to 10 wireless switches.

## DC CCT CONTROLLER APPLICATION

### Controller Installation Method

Can be mounted in electrical boxes or on ceiling surfaces.

### Application Scenarios

Widely used in smart home ,residential,office ,classrooms, hotel,commercial space,ect.

Suitable for smart lighting control DIY retrofits, wireless switch can be placed at will.

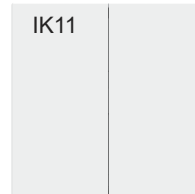
### Product Composition

\*Transmitter need to be purchased separately

#### Kinetic Switch



Every Key works independently  
On/ OFF: Press Once  
Dimming: Press twice to enter dimming cycle,  
another press to set brightness  
Optional: 1G/2G/3G+Color



Every Key works independently  
On/ OFF: Press Once  
Dimming: Push Dimming  
Optional:1G/2G/3G+Surface  
(Plastic/Glass/Metal)+Color

#### Battery Switch



Every Key works independently  
On/ OFF: Press Once  
Dimming: Long press  
Optional: 1G/2G/3G+Surface (Plastic/ Polished/ Brushed)+ Color

#### Battery Remote (TR)



On/ OFF Key: Press Once  
Dimming +/- Key: Long press  
Optional: 2 key/4 key+1channel/4channel+PC/Glass+Color

#### Battery Remote (BR)



On/ OFF Key: Press Once  
Dimming +/- Key: Long press  
Optional: 1channel/4channel



Alexa



HomeKit



Google Home



Pabotany



SmartThings



tuya

**\*Note:** Refer to the USER MANUAL for application and pairing methods.

## TEST DATA

### Max.Output Current TR Data

DD01	INPUT VOLTAGE=24(V) ;INPUT CURRENT=8(A); Ta: 35°C; TEST TIME: 2H				
Data Channel	CH01	CH02	CH03	CH04	CH05
Key component	Mos 1	Mos 2	Capacitor	Terminal	Case
Temperature(°C)	70.4	64.0	67.8	61.9	54.8
Temperature Limit(°C)	150	150	105	105	105



Fig. 1:Power Supply



Fig. 2:Multi-channel Temperature recorder

DD01	INPUT VOLTAGE=48(V) ;INPUT CURRENT=8(A); Ta: 33.2°C; TEST TIME: 2H				
Data Channel	CH01	CH02	CH03	CH04	CH05
Key component	Mos 1	Mos 2	Capacitor	Terminal	Case
Temperature(°C)	75.0	75.2	71.0	64	55.4
Temperature Limit(°C)	150	150	105	105	105

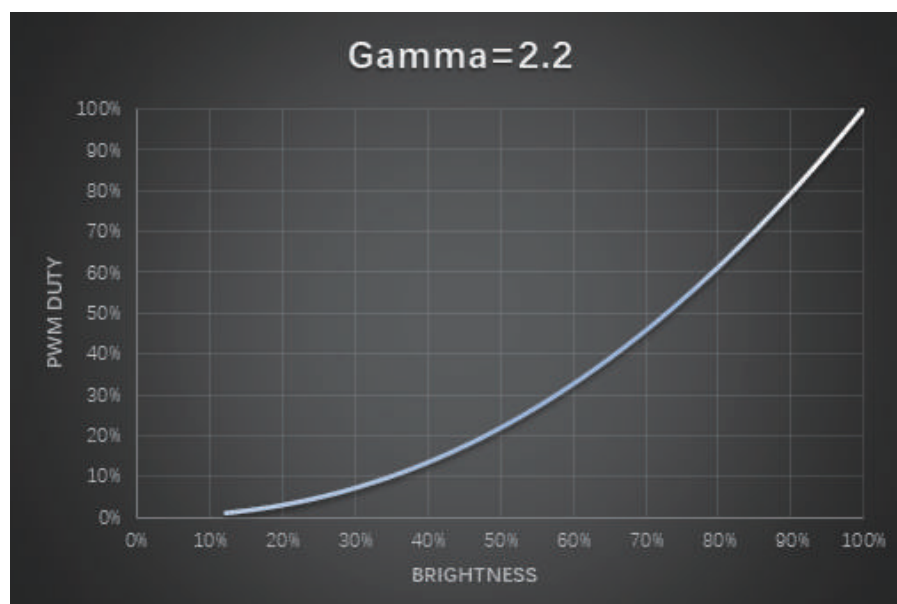


Fig. 1:Power Meter



Fig. 2:Multi-channel Temperature recorder

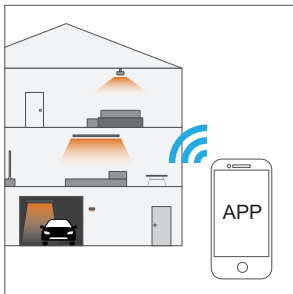
## Dimming curve setting



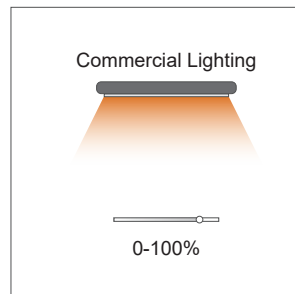
Logarithmic dimming curve

## IKINETIC SMART LIGHTING SOLUTION

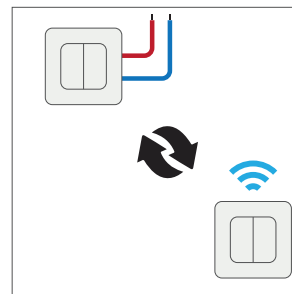
- **Smart Home Lighting Upgrade:** Supports Matter over Wi-Fi, allowing seamless integration into smart home ecosystems with app control, voice activation, and scheduled dimming.
- **Energy-Efficient Commercial & Office Lighting:** Enables 0-100% precise dimming, optimizing energy use based on ambient lighting conditions, reducing power consumption.
- **Indoor Lighting Retrofit Solutions:** Compatible with Ikinetic wireless switches (433MHz), making it ideal for both new installations and retrofitting existing lighting systems without additional wiring.
- **Compact Installation for Various Fixtures:** The small form factor allows easy integration into recessed lighting, linear lights, track lights, and panel lights.



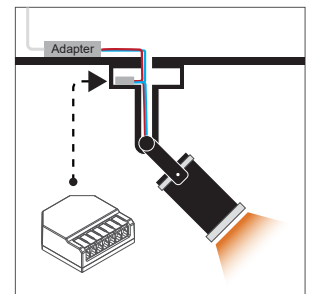
Smart Home Lighting Upgrade



Energy-Efficient Commercial  
& Office Lighting



Indoor Lighting Retrofit  
Solutions



Compact Installation  
for Various Fixtures

### NOTE

- Please supply with correct DC power supply between 12-48Vdc.
- Kindly note the maximum load rating of the controller before installation.
- You might need smart speaker to allow Matter over WiFi device working. Please check with smart speaker manufacturer if the model is matter supported.
- Transmission distance refer to transmitter user manual.
- The DC dimmer and RF switch shall be installed 20cm away from any metal surface and strong electromagnetic wave nearby to give better performance.
- Damage caused by incorrect installation and operation are not covered under warranty.

### CAUTIONS

- Ensure that the power is turned off before carrying out electrical installation.
- Do not short-circuit and over-load, it may cause permanent damage to the receiver.
- If a fault occurs, please seek advice from a local supplier.