Installation Instructions

Dimmer

Works with DIMMABLE LED ,CFL,
Incandescent and halogen bulbs

Model No.	DNA042CU2-W-600
Rated Voltage	120V～
Rated Frequency	60Hz
Rated Wattage	600W
Load Range	Incandescent:15W-600W
	LED/CFL:3W-200W
Dimming method	Phase-cut
Working Environment	Temperature： 0℃ - 40℃
	Humidity： 10% R.H. - 90% R.H
Model Size	105 mm×44 mm×31mm (L×W×H)

WARNINGS AND CAUTIONS

1. Risk of fire and electrical shock, the dimmer should be installed in accordance with appropriate electrical codes and regulations.
2. This product should be use together with an upstream air-switch.
3. Turn power off at circuit breaker or fuse and test that power is off before installing.
4. After install the dimmer, it is recommended to set the minimum brightness level to make bulbs turn on immediately.
5. If you are unsure about any part of these instructions, consult a licensed electrician.
6. To reduce the risk of overheating and possible damage to other equipment, do not install to control a receptacle, a motor-operated appliance or a transformer-supplied appliance.
7. Use with compatible dimmable LED, CFL bulbs, Incandescent or halogen bulbs only.
8. When multiple bulbs are used with one dimmer DO NOT mix bulb types. All bulbs shall be either LED,CFL or incandescent. Using the same model of each bulb will enhance dimmer performance.

RF EXPOSURE STATEMENT

- This equipment complies with the FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body.

FCC Information

- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference.
(2) This device must accept any interference received, including interference that may cause undesired operation.

Note1: This equipment 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 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:
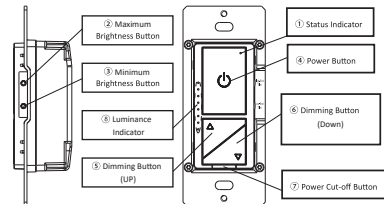
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Note2: Any changes or modifications to this unit not expressly approved by the manufacture could void the user's authority to operate the equipment.

FCC CAUTION

- Any changes or modifications to this unit not expressly approved by the manufacture could void the user's authority to operate the equipment.

Functional parts instructions

① Status Indicator

- Indicator lights red: OFF status.
- Indicator lights green: ON status.
- Green light flashing： enter distribution network mode.

Short press: Within 0.5s .
Long press: Over 0.5s.
Continuous short press: Each interval of short press should within 0.3s.

② Maximum Brightness Button

- Setting the maximum brightness: There are six maximum brightness levels, short press the button of maximum brightness once can change a maximum brightness level.

③ Minimum Brightness Button

- Setting the minimum brightness: There are six minimum brightness levels, short press the button of minimum brightness once can change a minimum brightness level.

④ Power Button

- Turn on: Short press once when in OFF.
- Turn off: Short press once when in ON.
- distribution network mode: when the light is on, press the on key for 5 times continuously. After the status indicator flashes (once in 2 seconds), the mobile phone can connect the dimmer. After the distribution network is successful, the load light flashes once (if not connected, exit the distribution network mode after 3 minutes).

  Note:
  - When enter into distribution network mode, turn on the wifi and Bluetooth of the mobile phone at the same time, so that the distribution network mode can be configured quickly.
  - In case of wi-fi disconnection, under the condition of normal wireless Internet access of the mobile phone, turn on the bluetooth of the mobile phone, and after 5min, the mobile phone APP can control the dimmer.

- Short press the power button six times to set the ideal minimum brightness when in ON status.
- Short press the power button eight times to set the ideal maximum brightness when in ON status.
- Continuous short press ten times and the status indicator flash three times to restore the factory default settings when in the maximum brightness status.

⑤Dimming Button (UP)

- Short press the dimming button once can increase a level of brightness when in ON status.
- Long press the dimming button can continuous to increase the brightness until release or reach the maximum brightness.
- Continuous short press two times when in ON/OFF status to turn quickly to the maximum brightness.
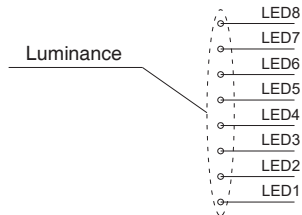
⑥ Dimming Button (Down)

- Short press the dimming button once can decrease a level of brightness when in ON status.
- Long press the dimming button can continuous to decrease the brightness until release or reach the minimum brightness. status to turn quickly
- Continuous short press two times when in ON/OFF to the minimum brightness.

⑦ Power Cut -off Button

- Put in the power cut-off button to connect the power.
- Put out the power cut-off button to cut off the power.
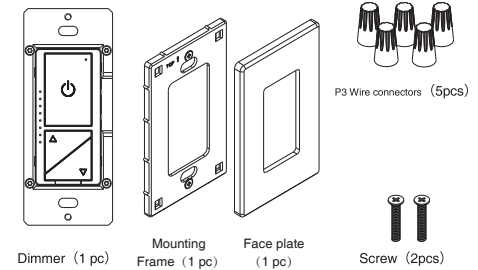
⑧ Luminance Indicator

Luminance

LED8
LED7
LED6
LED5
LED4
LED3
LED2
LED1

- Luminance Indicator Table

Item	Luminance Level	Luminance Indicator
1	Luminance Level 1-5	LED 1 normally on
2	Luminance Level 6-10	LED 1～LED 2 normally on
3	Luminance Level 11-15	LED 1～LED 3 normally on
4	Luminance Level 16-20	LED 1～LED 4 normally on
5	Luminance Level 21-25	LED 1～LED 5 normally on
6	Luminance Level 26-30	LED 1～LED 6 normally on
7	Luminance Level 31-35	LED 1～LED 7 normally on
8	Luminance Level 36-40	LED 1～LED 8 normally on

Switch Operation

- Turn on: Switch on when the light is off.
- Turn off: Switch on when the light is on.

Parts Information

Dimmer（1 pc）

Mounting Frame（1 pc）

Face plate（1 pc）

P3 Wire connectors（5pcs）

Screw（2pcs）

Tools need to install the dimmer

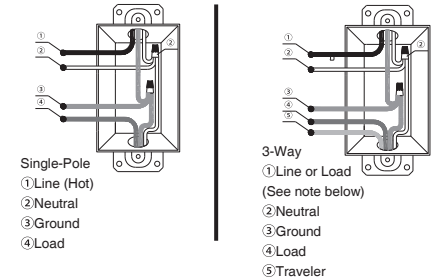|	
Ø5mm Philips Screwdriver	Test Pencil
Electrical Tape	Plier
Cutter	Ruler

Installation

Step 1 WARNING: To avoid fire and electrical shock, TURN PFF POWER at circuit breaker or fuse and test that power is off before wiring.

Step 2 Remove the screws installed on the existing panel and switch, carefully pull out the switch from the wall box, identify and remove the power cord attached to the switch, and the switch, do not remove the power cord detached from the switch. (This step is not required for new configuration installation.)
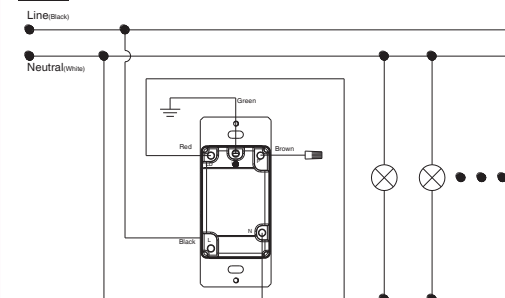
Step 3 Identify the power cord type

Note: If the power cord in the wall box is different from the following layouts, please consult an electrician.
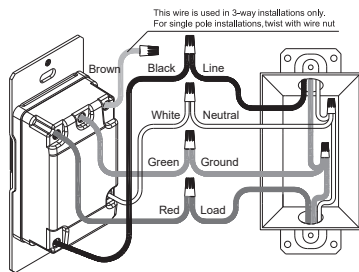

Single-Pole
①Line (Hot)
②Neutral
③Ground
④Load

3-Way
①Line or Load
(See note below)
②Neutral
③Ground
④Load
⑤Traveler

IMPORTANT: For 3-Way applications,note that one of the screw terminals from the old switch being removed will usually be a different (Black)or labeled Common (Line or Load)in both the dimmer wall box and 3-way wall box.
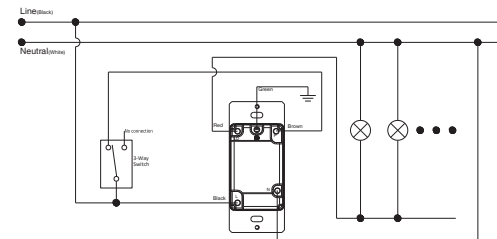
Step 4 Typical wiring application

Step 4a Single-Pole

Line(Black)

Neutral(White)

Green

Red

Brown

Black

This wire is used in 3-way installations only.
For single pole installations,twist with wire nut

Brown Black Line
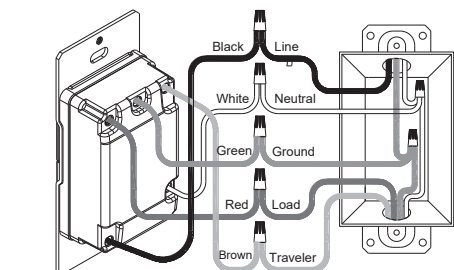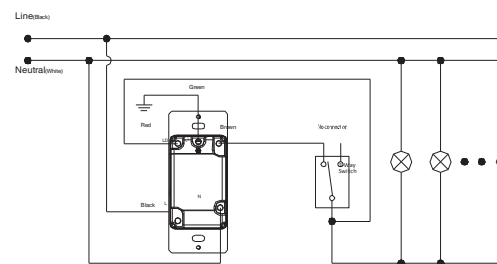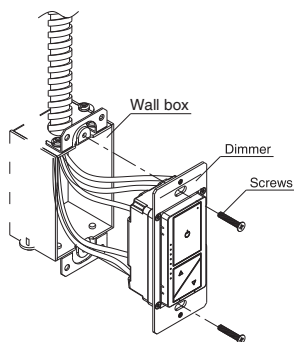
White Neutral

Green Ground

Red Load

- Connect the green power cord with the ground power cord of wall box,tighten with P3 wire nut.
- Connect the black power cord with the line power cord of the wall box,tighten with P3 wire nut.
- Connect the white line on the dimmer with the zero line,tighten with P3 wire nut.
- Connect the red power cord with the neutral power cord of the wall box,tighten withP3 wire nut.
- Screw the remaining brown wire on the dimmer with P3 wire nut for protection .

Step 4b 3-Way
Connection way 1

Line(Black)

Neutral(White)

Connection way 1

Line(Black)

Neutral(White)

Black Line

White Neutral

Green Ground

Red Load

Brown Traveler

- Connect the green power cord with the ground power cord of wall box,tighten with P3 wire nut.
- Connect the black power cord with the line power cord of the wall box,tighten with P3 wire nut.

- Connect the red power cord with the load power cord of the wall box ,tighten with P3 wire nut.
- Connect the white power cord with the neutral power cord of the wall box ,tighten with P3 wire nut.
- Connect the brown power cord with the traveler power cord of the wall box,tighten with P3 wire nut
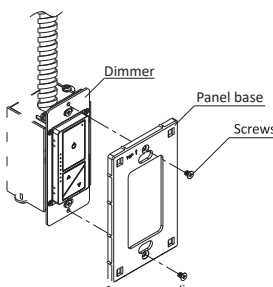
Steop 5 Installing dimmer
- Carefully position all wires inside the wall-box, leaving enough space to insert the dimmer and tighten with the matched screws.
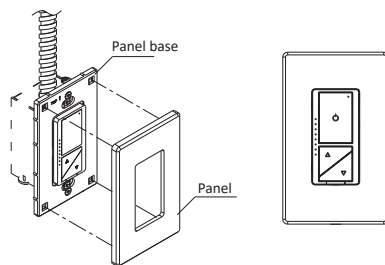
Wall box

Dimmer

Screws

Step 6 Installing panel

Step 6a   Separated plate
- Installing the panel base on the dimmer and tighten with the matched screws.

Dimmer

Panel base

Screws

- Put the panel and panel base together, press gently to make sure it is be installed firmly.

Panel base

Panel

Using instruction

Short press: within 0.5 second

Long press: more than 0.5 second

Continuous short press:The interval between two short presses is less than 0.3 second

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Function instruction

Table 1 Single -Pole Function table

Function	Dimmer Operation Way	Dimmer Operation	APP Operation
Distribution network mode	Continuous short press power button 5 times	×	×
ON/OFF	Short press the power button once	√	√
Time switch on/off	NOT	×	√
Dimming	Short or long press the power button（UP/DOWN）	√	√
Quickly turn to the maximum brightest	Continuous short press the dimming Button (UP) twice	√	√
Quickly turn to the minimum brightest	Continuous short press the dimming Button (DOWN) twice	√	√
Setting the maximum brightness	Short press maximum brightness button	√	√
	Continuous short press the power button eight times		
Setting the minimum brightness	Short press minimum brightness button	√	√
	Continuous short press the power button six times		
Restore factory Settings	Continuous short press the power button ten times	√	×
Shared device	NOT	×	√
group control	NOT	×	√

Table2 3 -way Function table

Function	Dimmer Operation Way	Dimmer Operation	Power-off Operation	APP Operation
Distribution network mode	Continuous short press power button5 times	×	×	×
ON/OFF	Short press the power button once	√	√	√
Time switch on/off	NOT	×	×	√
Dimming	Short or long press the power button（UP/DOWN）	√	×	√
Quickly turn to the maximum brightest	Continuous short press the dimming Button (UP) twice	√	×	√
Quickly turn to the minimum brightest	Continuous short press the dimming Button (DOWN) twice	√	×	√
Setting the maximum brightness	Short press maximum brightness button	√	×	√
	Continuous short press the power button eight times			
Setting the minimum brightness	Short press minimum brightness button	√	×	√
	Continuous short press the power button six times			
Restore factory Settings	Continuous short press the power button ten times	√	×	×
Shared device	-	×	×	√
group control	-	×	×	√

Priority
- On line operation can stop the mobile App operation; when on line operating, App can't operate.

Troubleshooting

Problems	Possible Cause	Solution
Lights flickering	Lamp has a bad connection.	Reconnect and fix the wires.
	One dimmer been connected to multiple types bulbs, incur interference and cause flicker.	Change bulbs to same type.
	Abnormal	Put the power cut-off button out and cut off the power, then put the power cut-off button in and connect the power on again.
LED and CFL flickers at low end of dimming range.	Load compatibility is not good.	Turn up lamp minimum brightness properly.
Lamps can't be turn on	Circuit breaker has tripped.	Turn power on
	Fuse burn out	Change fuse
	Lamp burned out	Change lamp
	Lamp neutral connection is not wired	Reconnect the lamp neutral
Lights out of control or unable to connect to the network	abnormal	Pull out the power cut-off switch and disconnect the power supply; Insert the power cut-off switch and turn on the power again;

Mobile App operation
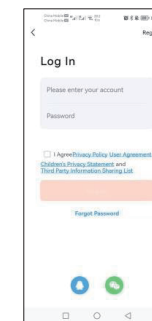
Step 1 Download the Doodle Smart App
- Arrange to download the Doodle Smart App by scanning the QR code below

- Either head to the App Store or major Android App markets to search for "Doodle Intelligence" to download an App, anyway.
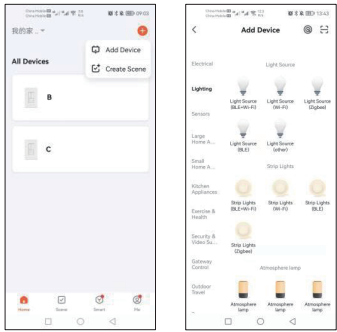
Step 2 Create a Doodle Smart App account and log in
- Invest in something to open the Doodle Smart App, click Register, sign up for an account and log in.

Log In

Please enter your account

Password

Step 3 Add a dimmer

- Click on the top right ⊕ , Add Device;

- Click Lighting and then click [Light Source (BLE+Wi-Fi)] to enter the device connection interface.

Step 4 Connect the mobile phone

- According to the network mode, when the phone is on, you press the on key five times or hold down the key for a long time, and the status indicator blinks blue to connect the phone to a dimmer (if it is not connected, you log out of the network mode three minutes later).
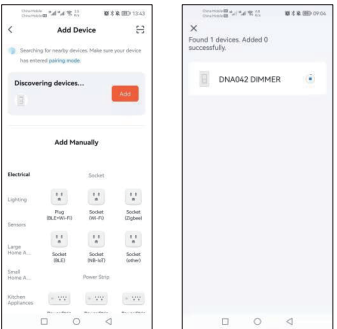
Note:
- Buy a way to access the Internet, by switching on your phone's Wi-Fi and Bluetooth at the same time.
- Smartphone APP controls the dimmer 5 minutes later, when the phone's bluetooth is switched on during a Wi-Fi disconnect.

Step 4a Rapid distribution network

- Put your phone's Wi-Fi and Bluetooth on at the same time to automatically scan for internet-enabled devices.
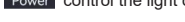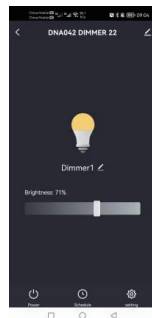
- Click Add, wait for connect.

Step 4b Normal distribution network

- To confirm that the App control indicator LED1 is blinking, click Next.

- Buy a ticket to enter your home Wi-Fi password, click Next. and wait for the connection.

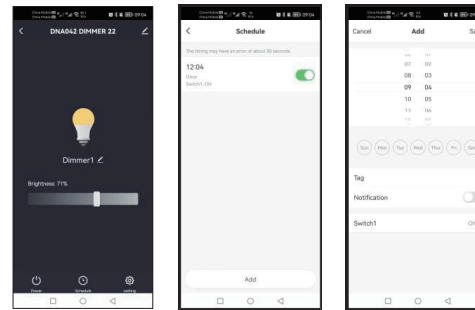**Step 5** Use the mobile phone App to control the dimmer

- Click to [Power] control the light on and off function of the dimmer;

Brightness: 71%

- Slide the [____] for dimming;

- clicking the [setting] ,enter the interface for setting the dimmer's brightness range.

- Set the minimum brightness and maximum brightness of the lamp controlled by the dimmer and save.
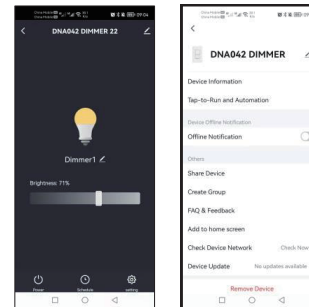

- clicking the [Schedule] set the dimmer to switch the light on and off at a certain time;
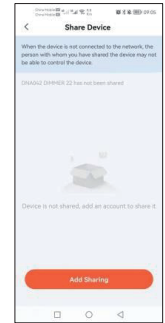
- Virtual gateway Adds a timing and saves it.

- Dimmer can be shared between multiple people once connected, meaning one dimmer can be controlled by multiple apps.

- Click the ✎ upper right corner to enter the device details interface.

- Queue to enter the Device sharing interface by clicking Share Device.

- Buy a shared account by clicking Add Sharing.

Supports Amazon Alexa and Google Home voice controls

- For Amazon Alexa
- ☆ Alexa,turn on <device name>
- ☆ Alexa,turn off <device name>
- ☆ Alexa,set <device name> to percent
- ☆ Alexa,brighten/increase <device name>
- ☆ Alexa,dim/decrease <device name>

- For Google Home
- ☆ Hey Google,turn on <device name>
- ☆ Hey Google,turn off <device name>
- ☆ Hey Google,is <device name> on/off?
- ☆ Hey Google,brighten/increase <device name>
- ☆ Hey Google,Dim/Brighten <device name> by 50%