

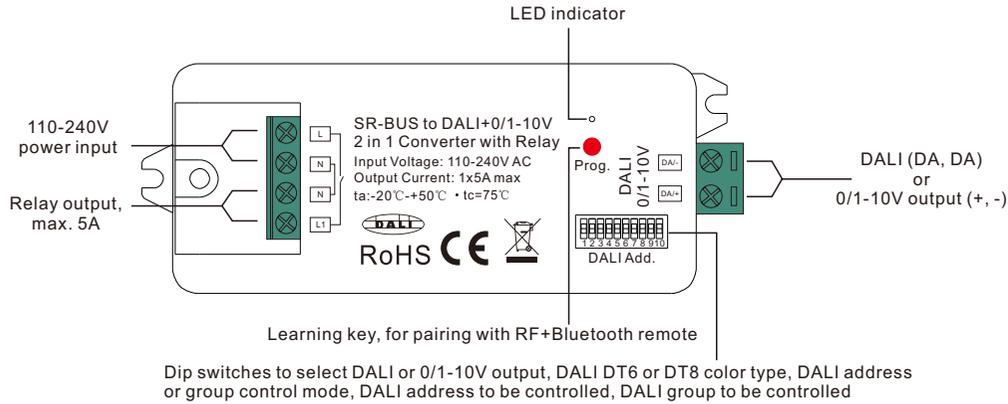
# RF+Bluetooth to DALI+0/1-10V 2 in 1 Converter

70200022



**Important:** Read All Instructions Prior to Installation

## Function introduction



## Product Data

Input		Output, DALI		Output, 0/1-10V	Output, relay		Environment		Others
Power	Signal	DALI PS current	DALI current consumption	Current	Switching voltage	Current	Operating temperature	Relative humidity	Dimensions
110-240VAC	Bluetooth+RF 2.4GHz	Max. 50mA	Max. 4mA	Max. 20mA	110-240VAC	Max. 5A	-20°C~+50°C	8% to 80%	80x36x20.5mm

- Bluetooth+RF to DALI+0/1-10V 2 in 1 converter, bluetooth mesh network
- Bluetooth+RF signal input, DALI signal output to DALI line or 0/1-10V signal output, 110-240VAC power input
- With max. 5A relay output and metering function
- Controlled through both RF remote and smart App, no gateway required
- Easy & quick pairing to the smart App by simply pushing the Prog. button
- Mesh network, much longer control distance, transmits received signal to neighbor devices
- Cloud control is available for remote access, works with Amazon Alexa and Google Home
- DALI signal or 1-10V signal output selectable by DIP switch
- Built-in DALI bus power supply, no extra DALI bus PS required
- With max. 50mA DALI bus power current output
- To supply control current to up to 25 DALI control gears
- DALI DT6 or DT8 device type selectable by DIP switch under DALI mode
- Enables to select different DALI device types to control: RGBCCT(RGBWA), RGBW(RGBW), RGB(XY coordinate), CCT(Tc), DIM, ON/OFF using the smart APP
- Color control according to DALI specifications of Device Type 8,
- Color type: Tc, XY coordinates, RGBW selectable by DIP switches
- DALI address control mode or group control mode selectable by DIP switch
- Enables to select the DALI address (00-63) to be controlled by DIP switches

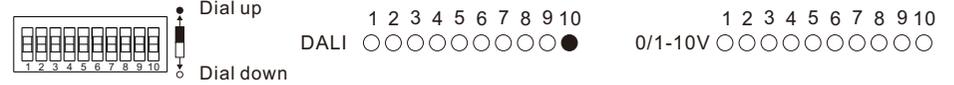
- Enables to select the DALI group (0-15) to be controlled by DIP switches
- Enable to control 1 DALI Group of devices or 1 DALI Address on DALI line
- Enable to control all devices on DALI line via broadcast
- Waterproof grade: Ip20

## Safety & Warnings

- DO NOT set the DIP switches with power applied to the device.
- DO NOT install with power applied to device.
- DO NOT expose the device to moisture.

## Operation

### 1) Select DALI or 0/1-10V Output Using Dial Switch 10



**Note:** please first select output signal by the dial switch.

### 2) Select DALI Device Type (DT6/DT8 Color Type) to be Controlled Using Dial Switches 8-9



**Note:** once DALI output is selected, please then select the DALI device type you would like to control by the dial switches.

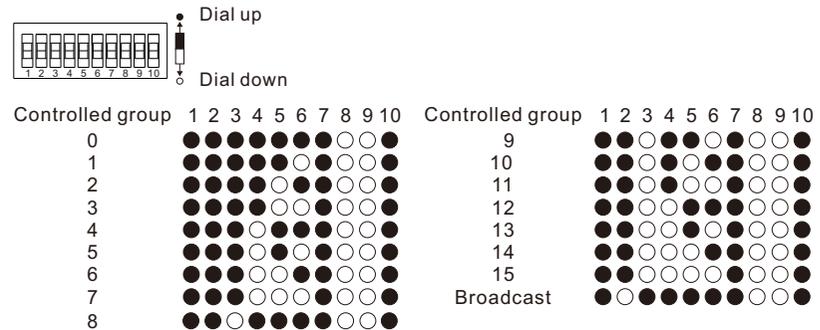
### 3) Select DALI Address or Group Control Mode Using Dial Switch 7



**Note:** once DALI device type is selected, please then select address control mode or group control mode by dial switch.

### 4) Select the DALI Group to be Controlled Using Dial Switches 2-6

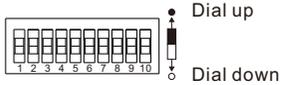
**Note:** here device type is selected as DIM as an example, please select your correct DALI device type.



- Note:**
- 1) once DALI device type and group control mode are selected, please then select the DALI group (0-15 selectable) to be controlled on DALI line by dial switches.
  - 2) The control gears that are assigned to the selected DALI group on DALI line will be controlled.
  - 3) The control gears shall be first grouped by a DALI master controller, please refer to the user manual of corresponding master controller.

### 5) Select the DALI Address to be Controlled Using Dial Switches 1-6

Note: here device type is selected as DIM as an example, please select your correct DALI device type.



Controlled address	1	2	3	4	5	6	7	8	9	10	Controlled address	1	2	3	4	5	6	7	8	9	10	
00	●	●	●	●	●	○	○	○	○	○	32	○	○	○	○	○	○	○	○	○	○	○
01	●	●	●	○	○	○	○	○	○	○	33	○	○	○	○	○	○	○	○	○	○	○
02	●	●	○	○	○	○	○	○	○	○	34	○	○	○	○	○	○	○	○	○	○	○
03	●	●	○	○	○	○	○	○	○	○	35	○	○	○	○	○	○	○	○	○	○	○
04	●	○	○	○	○	○	○	○	○	○	36	○	○	○	○	○	○	○	○	○	○	○
05	●	○	○	○	○	○	○	○	○	○	37	○	○	○	○	○	○	○	○	○	○	○
06	●	○	○	○	○	○	○	○	○	○	38	○	○	○	○	○	○	○	○	○	○	○
07	●	○	○	○	○	○	○	○	○	○	39	○	○	○	○	○	○	○	○	○	○	○
08	●	○	○	○	○	○	○	○	○	○	40	○	○	○	○	○	○	○	○	○	○	○
09	●	○	○	○	○	○	○	○	○	○	41	○	○	○	○	○	○	○	○	○	○	○
10	●	○	○	○	○	○	○	○	○	○	42	○	○	○	○	○	○	○	○	○	○	○
11	●	○	○	○	○	○	○	○	○	○	43	○	○	○	○	○	○	○	○	○	○	○
12	●	○	○	○	○	○	○	○	○	○	44	○	○	○	○	○	○	○	○	○	○	○
13	●	○	○	○	○	○	○	○	○	○	45	○	○	○	○	○	○	○	○	○	○	○
14	●	○	○	○	○	○	○	○	○	○	46	○	○	○	○	○	○	○	○	○	○	○
15	●	○	○	○	○	○	○	○	○	○	47	○	○	○	○	○	○	○	○	○	○	○
16	●	○	○	○	○	○	○	○	○	○	48	○	○	○	○	○	○	○	○	○	○	○
17	●	○	○	○	○	○	○	○	○	○	49	○	○	○	○	○	○	○	○	○	○	○
18	●	○	○	○	○	○	○	○	○	○	50	○	○	○	○	○	○	○	○	○	○	○
19	●	○	○	○	○	○	○	○	○	○	51	○	○	○	○	○	○	○	○	○	○	○
20	●	○	○	○	○	○	○	○	○	○	52	○	○	○	○	○	○	○	○	○	○	○
21	●	○	○	○	○	○	○	○	○	○	53	○	○	○	○	○	○	○	○	○	○	○
22	●	○	○	○	○	○	○	○	○	○	54	○	○	○	○	○	○	○	○	○	○	○
23	●	○	○	○	○	○	○	○	○	○	55	○	○	○	○	○	○	○	○	○	○	○
24	●	○	○	○	○	○	○	○	○	○	56	○	○	○	○	○	○	○	○	○	○	○
25	●	○	○	○	○	○	○	○	○	○	57	○	○	○	○	○	○	○	○	○	○	○
26	●	○	○	○	○	○	○	○	○	○	58	○	○	○	○	○	○	○	○	○	○	○
27	●	○	○	○	○	○	○	○	○	○	59	○	○	○	○	○	○	○	○	○	○	○
28	●	○	○	○	○	○	○	○	○	○	60	○	○	○	○	○	○	○	○	○	○	○
29	●	○	○	○	○	○	○	○	○	○	61	○	○	○	○	○	○	○	○	○	○	○
30	●	○	○	○	○	○	○	○	○	○	62	○	○	○	○	○	○	○	○	○	○	○
31	●	○	○	○	○	○	○	○	○	○	63	○	○	○	○	○	○	○	○	○	○	○

Note: 1) once DALI device type and address control mode are selected, please then select the DALI address (00-63 selectable) to be controlled on DALI line by dial switches.

2) The control gear with the selected DALI address on DALI line will be controlled.

### 6) Do wiring after above all settings are completed according to wiring diagram.

### 7) Pair/delete the pairing with RF+Bluetooth remote

1. Do wiring according to connection diagram.

2. Pair LED controller with RF+Bluetooth remote: please refer to the instruction of the remote that you would like to pair with.

3. Delete the pairing:

(1) Wire up the LED controller correctly, power on.

(2) Press and hold down the "Prog." button on the controller for over 3 seconds (or reset power of the device 8 times continuously if the button is not accessible to factory reset the device) until the connected light flashes, which means well deleted.

Note: factory resetting will restore all configured parameters of the device on the APP to factory default setting.

### 8) Pair with smart APP

1. Do wiring according to connection diagram.

2. Download H2AAPP from IOS APP Store or Android Google Play to your smart phone or tablet by searching "H2A". (As shown in Figure 1)

3. Enable Bluetooth on your smart phone or tablet. (As shown in Figure 2)



Figure 1

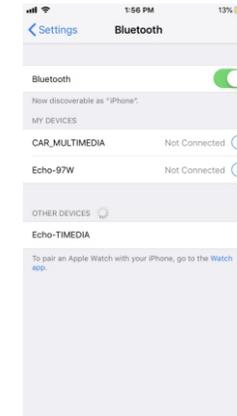


Figure 2

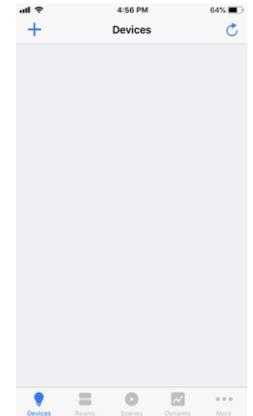


Figure 3

4. Run H2AAPP, tap add button "+" on the APP to add device, then choose "Discover devices" to discover device, then short press the "Prog." button on the converter twice (or reset power of the converter twice continuously) to set the device into pairing to APP mode. (As shown in Figure 3 & Figure 4 & Figure 5)

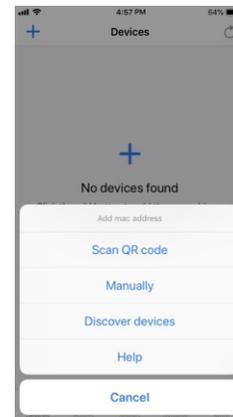


Figure 4

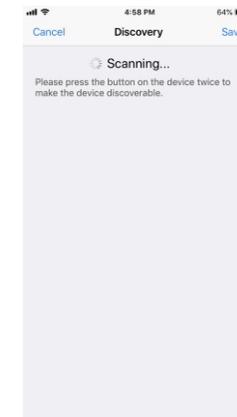


Figure 5

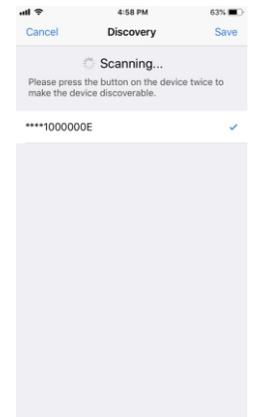


Figure 6

Note: multiple converters can be discovered by the APP at the same time.

5. Once the device/device are discovered, tick the device/device and tap "Save" button, the device/device will be added successfully. (as shown in Figure 6)

## 9) Configure Light Type (Select A DALI Device Type to Control) Using smart APP

1. Press and hold the device icon to enter into control interface, then tap button "✎" at upper right corner to enter into edit page of this device (As shown in Figure 7 & Figure 8).
2. Then tap "Light Type" to enter light type configuration page, for this controller, it enables to select 6 different DALI device types to control: **RGBCCT (RGBWA)**, **RGBW (RGBW)**, **RGB (XY coordinate)**, **CCT (Tc)**, **DIM**, **ON/OFF**. Once select a Light Type, tap "✓" at upper right corner to confirm, the indicator will flash to indicate successful configuration. (As shown in Figure 8)

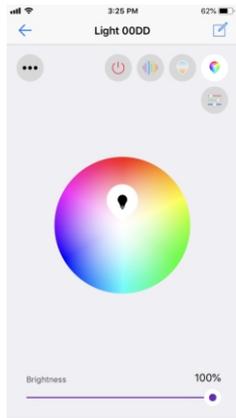


Figure 7

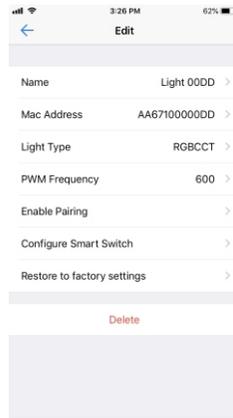
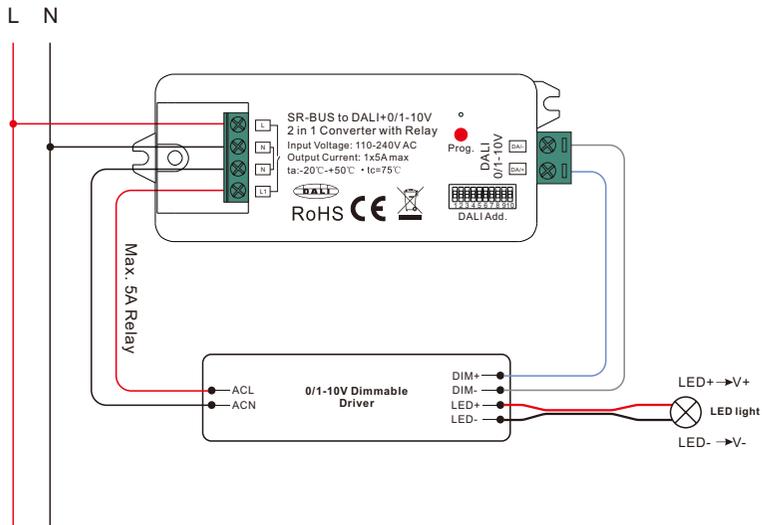


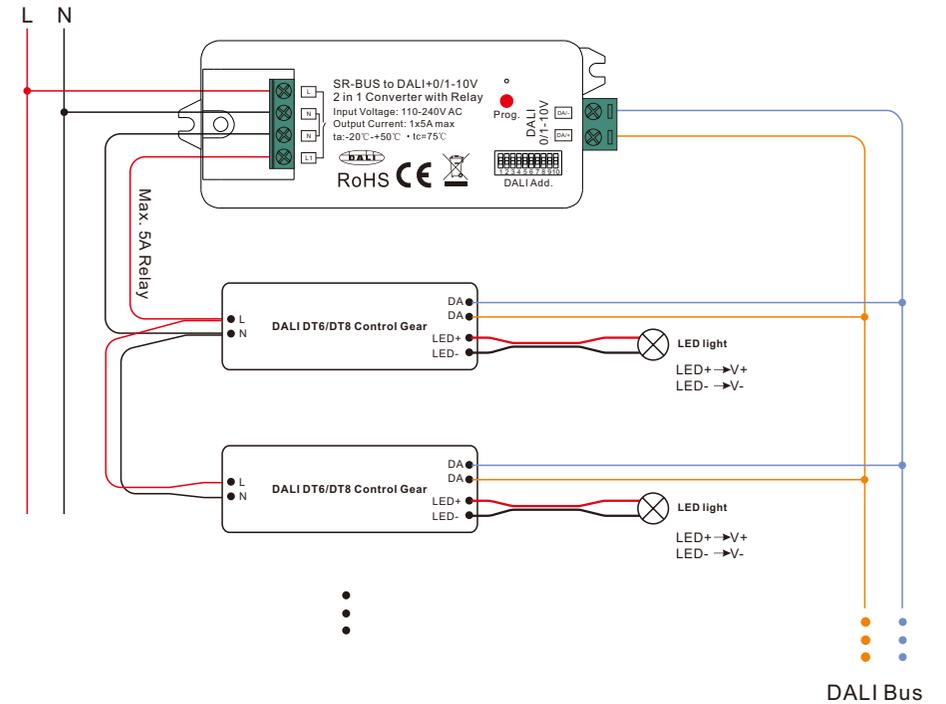
Figure 8

## Wiring Diagram

When 0/1-10V Output Selected



When DALI Output Selected



- Note:**
- 1) Max. 50mA DALI bus PS output to supply control current to up to 25 control gears.
  - 2) The max. load of the relay is 5A, and the number of control gear can be switched by the relay depends on the load of each control gear.