

213-441

ZigBee & RF 5 in1 LED Controller

- 5 in 1 function, used for control RGB, RGBW, RGB+CCT, color temperature or single color LED strip.
- DC power socket input and 5 channel constant voltage output.
- **Dimmit** smart APP cloud control, support on/off, RGB color, color temperature and brightness adjust, delay turn on/off light, timer run, scene edit and music play function (**need gateway 213-443**)
- Philips HUE APP control by connect with Philips HUE bridge.
- Voice control, support for Amazon Alexa, Google Assistant, Tmall Genie and Xiaodu voice assistant.
- Match with RF 2.4G remote control optional.
- User need set light type by press key before **Dimmit** smart APP network connection and match RF remote of the same light type.
- Each 213-441 controller can also work as ZigBee-RF converter, then use **Dimmit** smart APP to control one or more RF LED controller or RF LED dimming driver synchronously.
- Light on/off fade time 3s selectable.

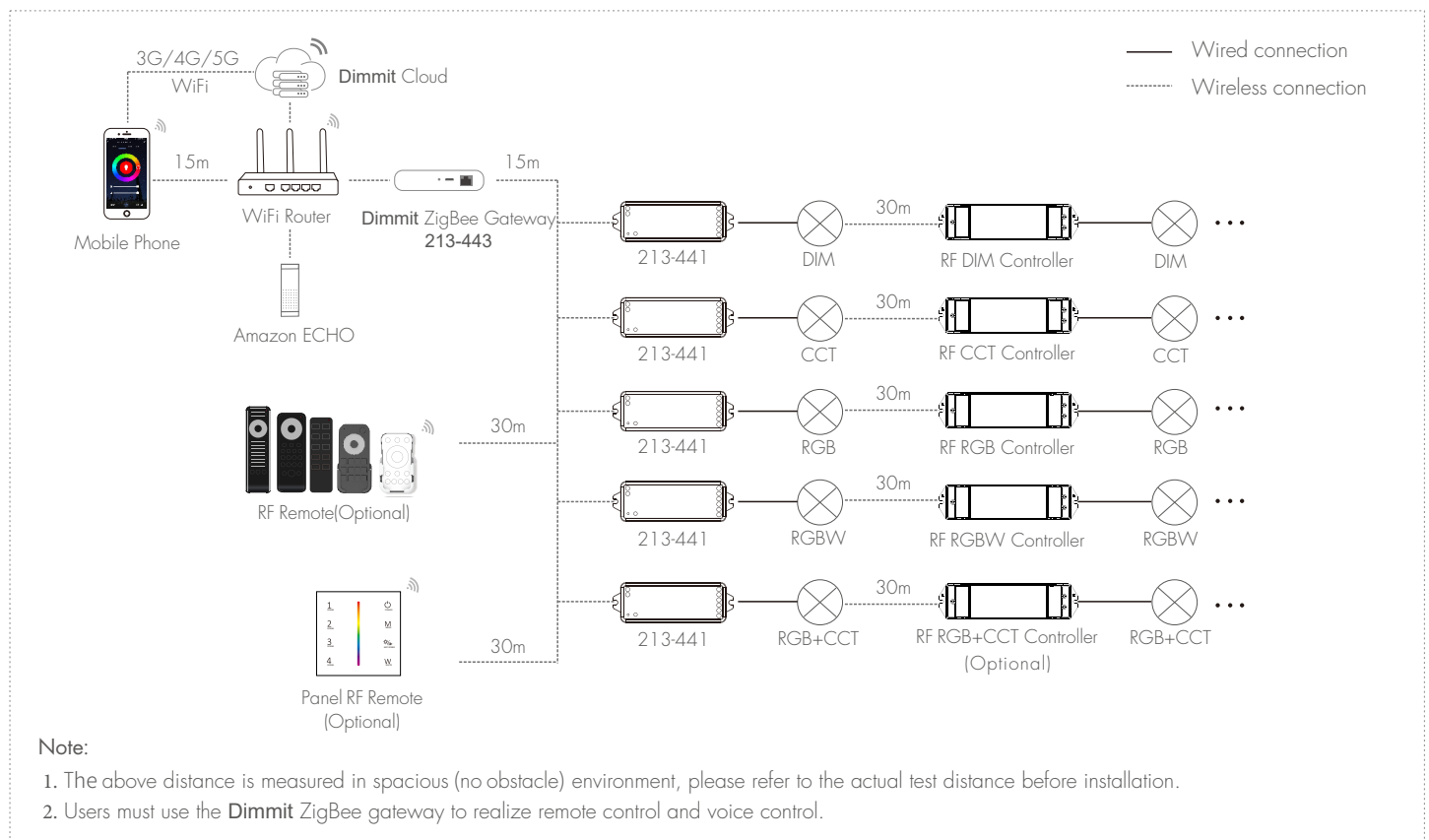


CE RoHS

Technical Parameters

Input and Output		Dimming data		Safety and EMC	
Input voltage	12-24VDC	Input signal	Zigbee + RF 2.4GHz	EMC standard	EN IEC 55015/EN IEC 61547 ETSI EN 301 489-1/-3/-17
Input current	15.5A	Control distance	30m(Barrier-free space)	Safety standard	EN 61347-1/-2
Output voltage	5 x (12-24)VDC	Dimming gray scale	4096 (2^12) levels	Radio Equipment	ETSI EN 300 440 ETSI EN 300 328
Output current	5CH,3A/CH	Dimming range	0 -100%	Certification	CE RoHS
Output power	5 x (36-72)W	Dimming curve	Logarithmic	Warranty and Protection	
Output type	Constant voltage	PWM frequency	1000Hz(default)	Warranty	5 years
Environment		Package		Protection	Reverse polarity Over-heat Short circuit
Operation temperature	Ta: -30°C ~ +55°C	Size	L120 x W43 x H27mm		
Case temperature (Max.)	Tc: +85°C	Gross weight	0.055kg		

System Wiring



Dimmit Smart APP Network Connection

Press and hold Match/Set key for 2s:

Switch 5 kinds light type in sequence, notice this operation does not automatically clear previous network connection.

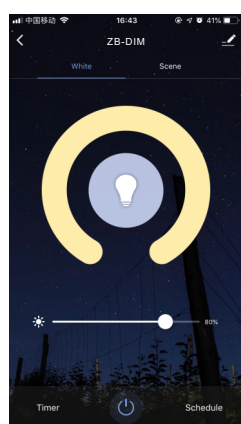
Press and hold Match/Set key for 5s, or push twice Match/Set key fastly, or when press and hold Match/Set key for 8-16s to set 5 kinds light type: Clear previous network connection, enter config mode, the purple LED indicator fast flash, the output LED will flash 10 times.

Repeat power on and off for 5 consecutive times, also clear previous network connection, enter config mode, the output LED will flash 10 times.

If Dimmit smart APP network connection succeed, the RUN LED indicator will stop flash purple, and turn corresponding light type color (White: DIM, Yellow: CCT, Red: RGB, Green: RGBW, Blue: RGB+CCT).

and in Dimmit smart APP, you can find ZB-RGB+CCT device (or other DIM, CCT, RGB or RGBW).

Dimmit Smart APP Interface

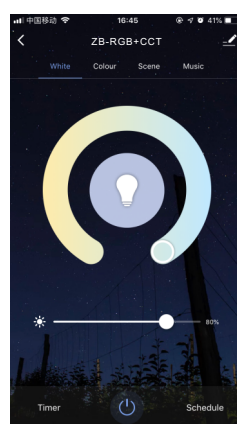


White interface

For DIM type:
Touch brightness slide to adjust brightness.

For RGB type:
Touch brightness slide, get RGB mixed white firstly, then to adjust white brightness.

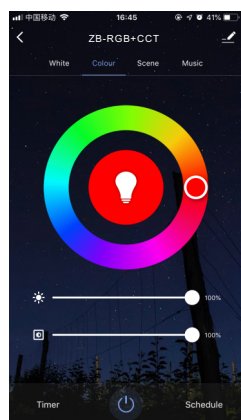
For RGBW type:
Touch brightness slide, adjust white channel brightness.



Color temperature interface

For CCT type:
Touch color wheel to adjust color temperature.
Touch brightness slide to adjust brightness.

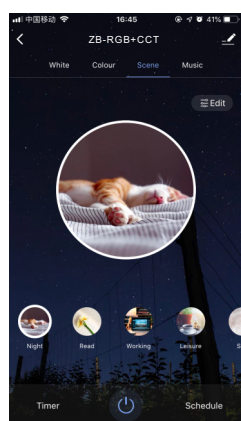
For RGB+CCT type:
Touch color wheel to adjust color temperature,
RGB will turn off automatically.
Touch brightness slide to adjust white brightness.



Colour interface

For RGB or RGBW type:
Touch color wheel to adjust static RGB color.
Touch brightness slide to adjust color brightness.
Touch saturation slide to adjust color saturation,
namely gradient from the current color to white(RGB mixed).

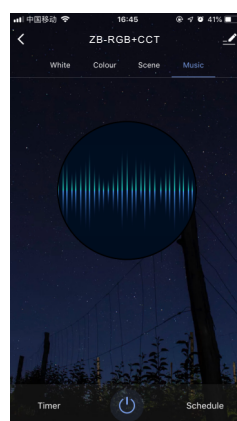
For RGB+CCT type:
Touch color wheel to adjust static RGB color, WW/CW will turn off automatically.
Touch brightness slide to adjust color brightness.
Touch saturation slide to adjust color saturation,
namely gradient from the current color to white (RGB mixed).



Scene interface

The 1-4 scene is static color for all light type.
the inner color of these scene can be editable.

The 5-8 scene is dynamic mode for RGB,
RGBW, RGB+CCT type, such as green
fade in and fade out, RGB jump,
6 color jump, 6 color smooth.



Music, Timer, Schedule

The music play can use smart phone music player or
micro-phone as music signal input.

The Timer key can turn on or turn off light in the next
24 hours.

The Schedule key can add multiple timers to turn on
or turn off light according to different time periods.

213-441 Match RF Remote Control (Optional)

End user can choose the suitable match/delete ways. Two options are offered for selection:

Use the 213-441's Match key

Match:

Short press match key of 213-441, immediately press on/off key (single zone remote) or zone key (multiple zone remote) on the remote. The LED indicator fast flash a few times means match is successful.

Delete:

Press and hold match key of 213-441 for 20s, The LED indicator fast flash a few times means all matched remotes were deleted.

Use Power Restart

Match:

Switch off the power of 213-441, then switch on power, repeat again. Immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 3 times on the remote. The light blinks 3 times means match is successful.

Delete:

Switch off the power of 213-441, then switch on power, repeat again. Immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 5 times on the remote. The light blinks 5 times means all matched remotes were deleted.

213-441 Work as ZigBee-RF Converter to Match RF LED Controller or Dimming Driver

End user can choose the suitable match/delete ways. Two options are offered for selection:

Use the controller's Match key

Match:

Short press match key of the controller, immediately press on/off key on the **Dimmit** smart APP. The LED indicator fast flash a few times means match is successful.

Delete:

Press and hold match key of the controller for 5s, The LED indicator fast flash a few times means match was deleted.

Use Power Restart

Match:

Switch off the power of the controller, then switch on power, repeat again. Immediately short press on/off key 3 times on the Tuya smart APP. The light blinks 3 times means match is successful.

Delete:

Switch off the power of the controller, then switch on power, repeat again. Immediately short press on/off key 5 times on the **Dimmit** smart APP. The light blinks 5 times means match was deleted.

RGB Dynamic Mode List

For RGB/RGBW:

No.	Name	No.	Name
1	RGB jump	6	RGB fade in and out
2	RGB smooth	7	Red fade in and out
3	6 color jump	8	Green fade in and out
4	6 color smooth	9	Blue fade in and out
5	Yellow cyan purple smooth	10	White fade in and out

For RGB+CCT:

No.	Name	No.	Name
1	RGB jump	6	RGB fade in and out
2	RGB smooth	7	Red fade in and out
3	6 color jump	8	Green fade in and out
4	6 color smooth	9	Blue fade in and out
5	Color temperature smooth	10	White fade in and out