

TRONIX

213-022

RF

RF LED Controller

- 6 button RGB, RGBW or RGB+CCT LED RF controller with 5 channel constant voltage output.
- 6 buttons operation with on/off, adjust brightness, color temperature and RGB color, change dynamic mode and speed.
- Set up 5 light type by button: RGB, RGBW, RGB+W, RGB+CCT or RGB+CCT.
- Match with RF 2.4G single zone or multiple zone RGB, RGBW, RGB+CCT remote control optional.
- One RF controller accept up to 10 remote control.
- 4096 levels 0-100% dimming smoothly without any flash.
- Built in 10 dynamic modes, include jump or gradual change style.

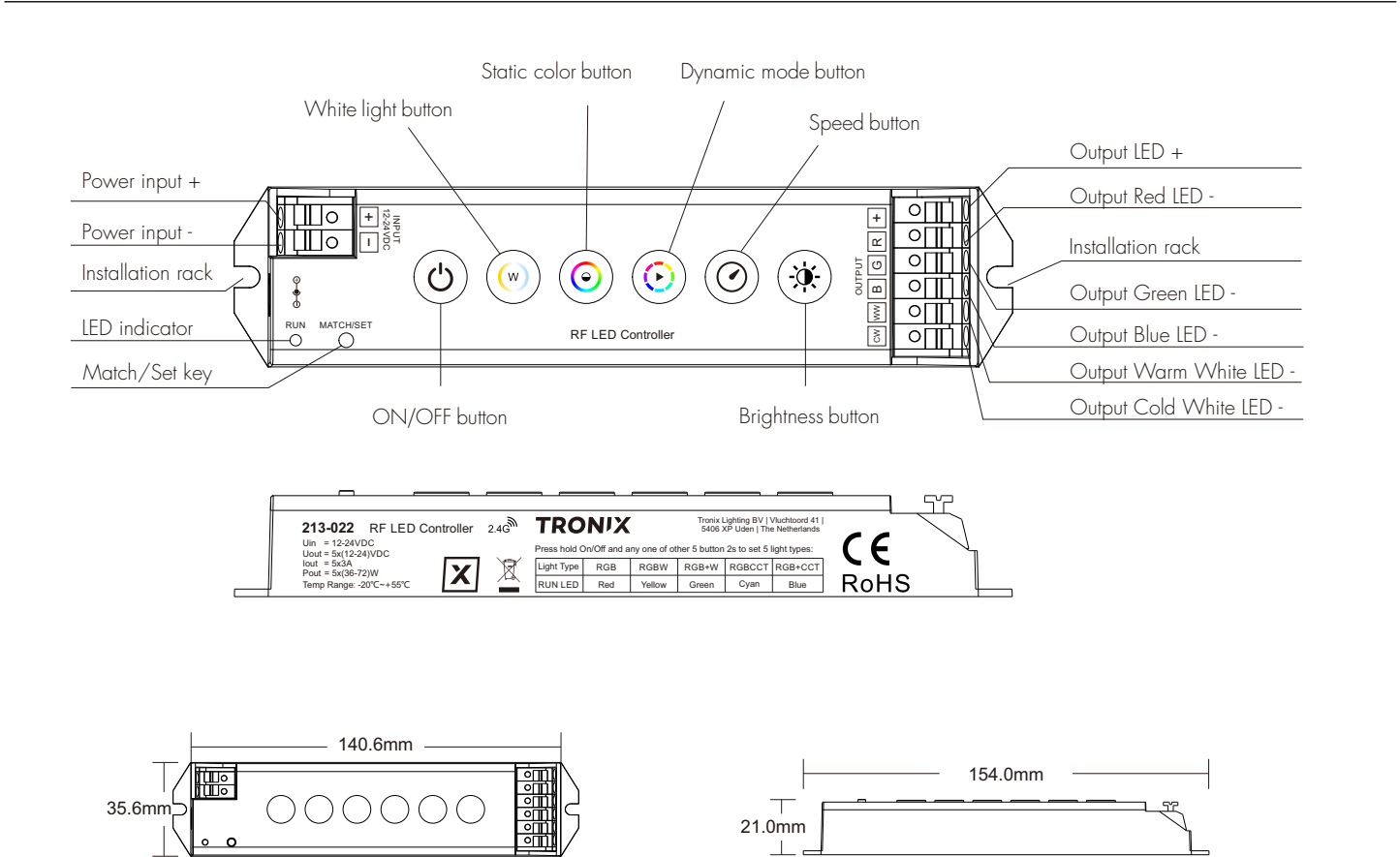


CE RoHS

Technical Parameters

Input and Output		Dimming data		Safety and EMC	
Input voltage	12-24VDC	Input signal	RF 2.4GHz	EMC standard	EN IEC 55015/EN IEC 61547 ETSI EN 301 489-1/-17
Output voltage	5×(12-24)VDC	Control distance	30m (Barrier-free space)	Safety standard	EN 61347-1/-2 EN 62493
Output current	5CH,3A/CH	Dimming gray scale	4096 (2^12) levels	Radio Equipment	ETSI EN 300 328 ETSI EN 300 440
Output power	5×(36-72)W	Dimming range	0-100%	Certification	CE RoHS
Output type	Constant voltage	Dimming curve	Logarithmic	Environment	
Warranty and Protection		PWM Frequency	2000Hz (default)		
Warranty	5 years	Package			
Protection	Reverse polarity, Short circuit Over-heat, Overload	Size	L162 x W42 x H26mm	Operation temperature	Ta: -20℃ ~ +55℃
		Gross weight	0.091kg	Case temperature (Max.)	Tc: +85℃
				IP rating	IP20

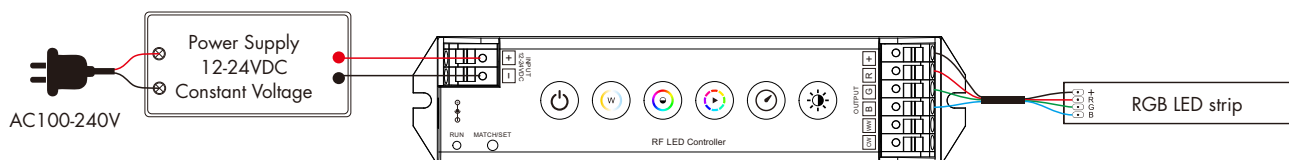
Mechanical Structures and Installations



Wiring diagram

• For RGB

Press and hold  and  button for 2s, set to RGB light type, LED indicator shows red.



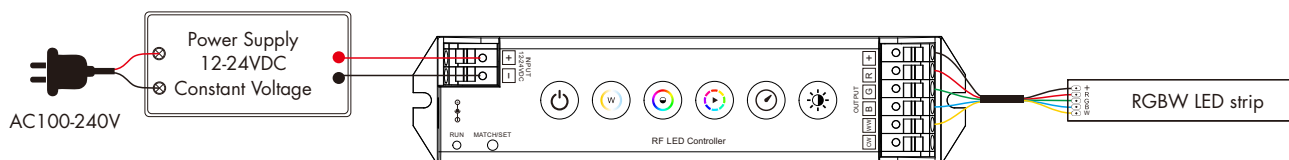
• For RGBW

Press and hold  and  button for 2s,

set to RGBW light type (RGB channel and W channel outputs cannot be turned on at the same time), LED indicator shows yellow.

Press and hold  and  button for 2s,

set to RGB+W light type (RGB channel and W channel outputs can be turned on at the same time), LED indicator shows green.



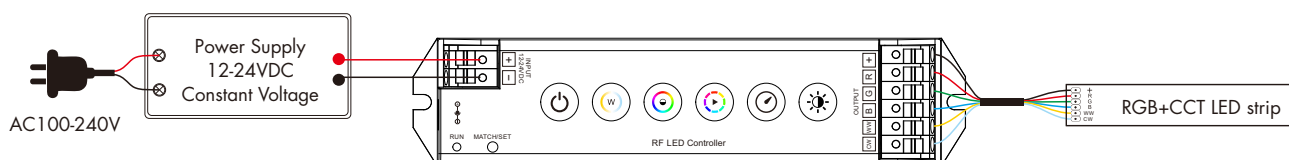
• For RGB+CCT

Press and hold  and  button for 2s,

set to RGCCT light type (RGB channel and WW/CW channel outputs cannot be turned on at the same time), LED indicator shows cyan.

Press and hold  and  button for 2s,

set to RGB+CCT light type (RGB channel and WW/CW channel outputs can be turned on at the same time), LED indicator shows blue.



Button Function



: Turn on/off the light.



: Adjust the color temperature or white light brightness.

For RGB light type, short press to switch five levels color temperature (RGB mix, warm white - neutral white - cold white sequence);

long press 1-6s for continuous 256 levels color temperature adjustment.

For RGBW and RGB+W light type, short press to switch five levels white light brightness (10%, 25%, 50%, 75%, 100%);

long press 1-6s for continuous 256 levels white light adjustment, dimming range of 1-100%.

For RGCCT and RGB+CCT light type, short press to switch five levels color temperature (warm white - neutral white - cold white sequence);

long press 1-6s for continuous 256 levels color temperature adjustment.



: Short press get 24 kinds static RGB color;

long press 1-6s for continuous 256 levels saturation adjustment, namely change current static RGB color to mixed white slowly.



: Short press to change 10 dynamic mode; long press 2s run mode-cycle.



: For dynamic RGB mode, adjust speed, short press 5 levels, long press 2s get the default speed.

For static RGB color, adjust saturation, short press 5 levels, long press 2s to set minimum saturation (i.e. full 100% for RGB channels).



: Short press to switch five levels brightness (10%, 25%, 50%, 75%, 100%);

long press 1-6s for continuous 256 levels brightness adjustment.

Note:

1. For RGBW light type: When the white light brightness is adjusted by  button, the RGB channel auto-off.
2. For RGB+W light type: When the white light brightness is adjusted by  button, the RGB channel remains unchanged.
3. For RGBCCT light type: Short press  button to switch to the color temperature state, RGB channel auto-off,
then adjust the brightness of the current color temperature by  button.
Short press  button to switch to the color light state, CCT channel auto-off,
then adjust the brightness of the current color light by  button.
4. For RGB+CCT light type: Short press  button to switch to the color temperature state, RGB channel remains unchanged,
then adjust the brightness of the current color temperature by  button.
Short press  button to switch to the color light state, CCT channel remains unchanged,
then adjust the brightness of the current color light by  button.
5. Factory parameter setting: Long press the match/set key for 15s to restore the factory parameter setting, light type default is RGBCCT.

Dynamic change mode list

For RGB/RGBW/RGB+W:

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 RGBCCT/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

Match remote control (Optional)

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

Use the Match/Set key

Match:
Short press match/set key,
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/set key for 5s,
The LED indicator fast flash a few times means all matched remotes
were deleted.

Use Power Restart

Match:
Switch off the power, 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, 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.