

LTECH

# T4 LED RGBW Controller



RGBW



2.4GHz



Touch



RGBW



8 Zones



DIY



Sync/Zone



Scene x 3



Charging



Scene-mode



Sync/Zone 2 in 1



## T4 LED RGBW Controller



T4



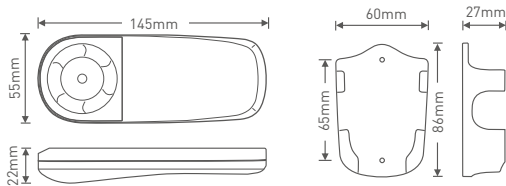
T4-CV



T4-CC

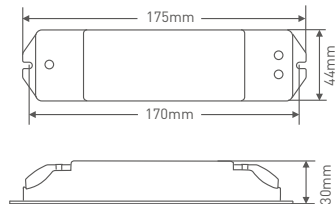
T4 is the 2.4GHz RF wireless sync/zone RGBW controller which adopts 4 global initiate technology. It has powerful function that general RF remote control can't realize, especially in wireless connection between receivers to realize sync dynamic change effect. It is very convenient in installation for users.

### 1. Product Size:



Remote

Remote Holder



Receiver

## 2. Technical Specs:

### T4 Remote

|                     |                                |
|---------------------|--------------------------------|
| Charging Voltage:   | 5Vdc(Built-in lithium battery) |
| Working Current:    | <30mA                          |
| Working Frequency:  | 2.4GHz                         |
| RF Remote Distance: | 30m                            |
| Remote Option:      | Sync/Zone/Programming Control  |
| Battery Capacity:   | 1000mAh                        |
| Package Size:       | L168×W96×H34(mm)               |
| Weight (G.W.):      | 210g                           |

### T4-CV Receiver

|                  |                                |
|------------------|--------------------------------|
| Input Voltage:   | 5~24Vdc                        |
| Current Load:    | 5A×4CH Max 20A                 |
| Output Power:    | Max 100W/240W/480W(5V/12V/24V) |
| Wireless Signal: | 2.4GHz                         |
| Working Temp.:   | -30℃~55℃                       |
| Package Size:    | L178×W48×H33(mm)               |
| Weight (G.W.):   | 150g                           |

### T4-CC Receiver



|                  |                            |
|------------------|----------------------------|
| Input Voltage:   | 12~48Vdc                   |
| Output Voltage:  | 3~46Vdc                    |
| Current Load:    | CC 350/700/1050mA×4CH      |
| Output Power:    | 1.05W~48.3W×4CH Max 193.2W |
| Wireless Signal: | 2.4GHz                     |
| Working Temp.:   | -30℃~55℃                   |
| Package Size:    | L178×W48×H33(mm)           |
| Weight (G.W.):   | 165g                       |

## 3. Notice for the Remote Charging:


- When charging, please connect USB cable to the mobile charger or computer.
- The blue indicator light flickers while charging, and turns green means the charging is completed. The remote can be chargeable even at off state, which the indicator light is dark.
- No memory effect in the lithium battery of remote. Follow the standard charging procedure even for the first 3 times, no need over charge.
- Red indicator light flickers meaning low battery and need to be charged. Charging in low battery will affect the life of battery.
- the remote should be full charged and stored at a ventilated and dry place when long time no use, and please full recharge every 3 months.

#### 4. The Learning ID Method:

##### Learning ID:

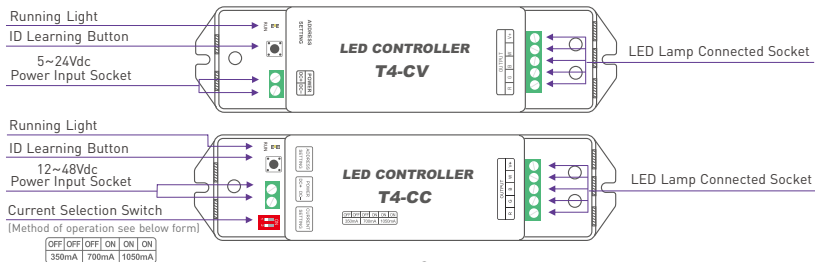
1. Turn on the receiver and remote.
2. Short press "ID learning button"  on the receiver, the running light keeps on, then long press "1-8" zone-selection keys on the remote, the running light returns to flash (the buzzer long beep, the green light  flashes 3 times), activated.

##### Cancelling ID:

Press "ID learning button"  on the receiver more than 8 seconds, the buzzer beep twice, delete all the learned remote.

\* Sync Control: 1 remote to unlimited receivers. Zone Control: 1 remote to Max 8 receivers ( 1 receiver per zone ).

#### 5. Receiver Components Description:

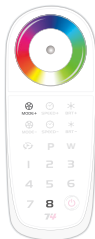


## 6. Remote Instructions:

Built-in two control programs, it is convenient for user's different habits and place, free switching the two programs.

### Highlights

- Control Unlimited Receivers Synchronously.
- Programmable Function.
- 8 Save Keys.



Sync Control




### Highlights

- Zone Control Arbitrarily or Sync Control.
- Programmable Function.



Zone Control

Press the key  and **8** simultaneously more than 2S.

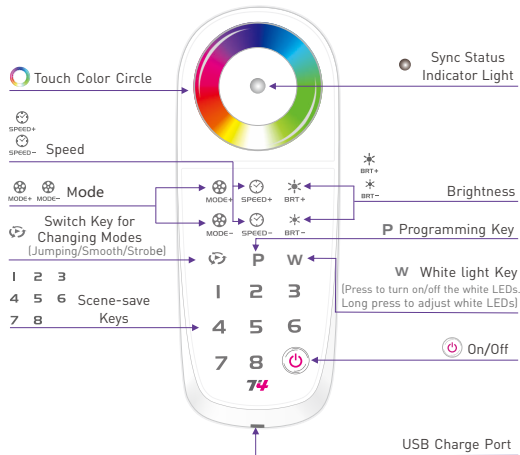
Press the key  and **8** simultaneously more than 2S.

**\* Power Saving:** Unmanned operation more than 1 minute on the remote, the remote will off automatically to realize zero loss, extending operation life. Press "ON/OFF" to restart the remote.

**Mode Keys**   : Switch black/red/green/blue/yellow/purple/cyan/white/RGB/RBGYPGW.

**Open the Buzzer:** Long press  **Close the Buzzer:** Long press 

## A. Sync Program:



## The Usage of The Programming "P" :

- 1) Long press the key **P** in 2 seconds, the buzzer long beep, means enter the programming **P** mode.
- 2) Color selection: Short press a key from "1-8" in order, then press "MODE" key or "touch color circle" to select the color. (color will be saved in this key automatically, max 8 colors)

Example 1: 

|     |       |      |        |        |      |       |       |
|-----|-------|------|--------|--------|------|-------|-------|
| 1   | 2     | 3    | 4      | 5      | 6    | 7     | 8     |
| Red | Green | Blue | Yellow | Purple | Cyan | White | Black |

  
 { R G B Y P C W } 7 Colors' Jumping/Smooth/Strobe

Example 2: 

|     |      |       |       |       |       |       |       |
|-----|------|-------|-------|-------|-------|-------|-------|
| 1   | 2    | 3     | 4     | 5     | 6     | 7     | 8     |
| Red | Blue | Black | Black | Black | Black | Black | Black |

  
 { R B } 2 Colors' Jumping/Smooth/Strobe

Example 3: 



|     |       |       |       |      |       |       |       |
|-----|-------|-------|-------|------|-------|-------|-------|
| 1   | 2     | 3     | 4     | 5    | 6     | 7     | 8     |
| Red | Black | Green | Black | Blue | Black | Black | Black |


  
 { R BK G BK B } 5 Colors' Jumping/Smooth/Strobe

Example 4: 

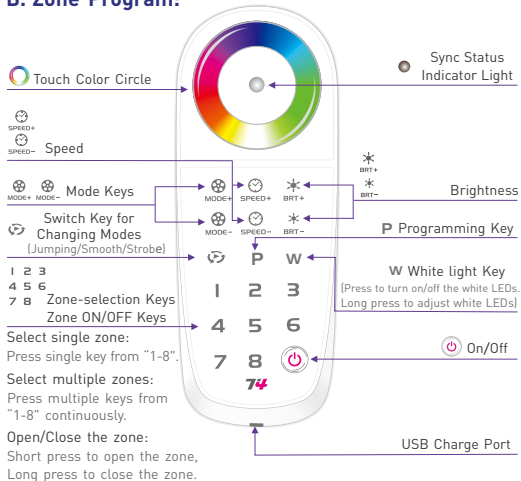
|       |     |       |       |       |      |       |       |
|-------|-----|-------|-------|-------|------|-------|-------|
| 1     | 2   | 3     | 4     | 5     | 6    | 7     | 8     |
| Black | Red | Black | Green | Black | Blue | Black | Black |

  
 { BK R BK G BK B } 6 Colors' Jumping/Strobe

Note: Select black color with keys  

- 3) Short press the key **P** to exit color selection.
- 4) Press  to switch the selected colors' Jumping, smooth and strobe (brightness/speed adjustment).
- 5) Long press any key from "1-8" to save the edited scene.

## B. Zone Program:



### The Usage of The Programming "P" :

- 1) Long press the key **P** in 2 seconds, the buzzer long beep, means enter the programming mode.
- 2) Color selection: Short press a key from "1-8" in order, then press "MODE" key or "touch color circle" to select the color. (color will be saved in this key automatically, max 8 colors)

Example 1: 

|     |       |      |        |        |      |       |       |
|-----|-------|------|--------|--------|------|-------|-------|
| 1   | 2     | 3    | 4      | 5      | 6    | 7     | 8     |
| Red | Green | Blue | Yellow | Purple | Cyan | White | Black |

  
 {R G B Y P C W} 7 Colors' Jumping/Smooth/Strobe

Example 2: 

|     |      |       |       |       |       |       |       |
|-----|------|-------|-------|-------|-------|-------|-------|
| 1   | 2    | 3     | 4     | 5     | 6     | 7     | 8     |
| Red | Blue | Black | Black | Black | Black | Black | Black |

  
 {R B} 2 Colors' Jumping/Smooth/Strobe

Example 3: 



|     |       |       |       |      |       |       |       |
|-----|-------|-------|-------|------|-------|-------|-------|
| 1   | 2     | 3     | 4     | 5    | 6     | 7     | 8     |
| Red | Black | Green | Black | Blue | Black | Black | Black |


  
 {R BK G BK B} 5 Colors' Jumping/Smooth/Strobe

Example 4: 




|       |     |       |       |       |      |       |       |
|-------|-----|-------|-------|-------|------|-------|-------|
| 1     | 2   | 3     | 4     | 5     | 6    | 7     | 8     |
| Black | Red | Black | Green | Black | Blue | Black | Black |

  
 {R G B} 3 Colors' Fade out and Fade in  
 {BK R BK G BK B} 6 Colors' Jumping/Strobe

**Note:** Select black color with keys  

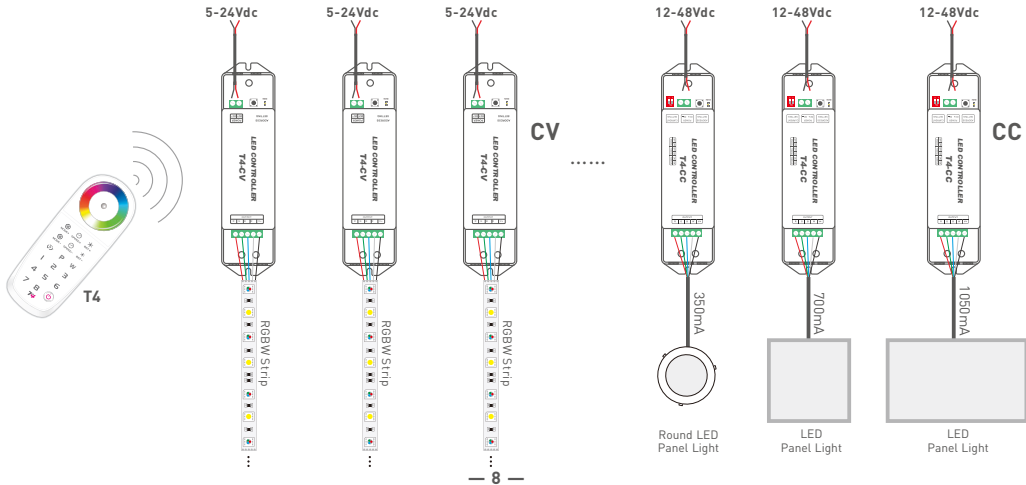
- 3) Short press the key **P** to exit color selection.
- 4) Press  to switch the selected colors' Jumping, smooth and strobe (brightness/speed adjustment).
- 5) OK, completed scene editing, press **P** to play the scene.

## 7. Tables of Changing Mode:

| No. | Color<br>Press   Button<br>to Switch color | Press  button to switch the 3 types |                             |                 |
|-----|--|--|-----------------------------|-----------------|
|     |  | Jumping  | Smooth                      | Strobe          |
| 1   | Black  |  |                             |                 |
| 2   | Red  | Static Red   | Red fade out and fade in    | Red strobe      |
| 3   | Green  | Static Green   | Green fade out and fade in  | Green strobe    |
| 4   | Blue   | Static Blue  | Blue fade out and fade in   | Blue strobe     |
| 5   | Yellow   | Static Yellow  | Yellow fade out and fade in | Yellow strobe   |
| 6   | Purple   | Static Purple  | Purple fade out and fade in | Purple strobe   |
| 7   | Cyan   | Static Cyan  | Cyan fade out and fade in   | Cyan strobe     |
| 8   | White  | Static White   | White fade out and fade in  | White strobe    |
| 9   | Red, Green, Blue   | RGB Jumping  | RGB color smooth            | RGB strobe      |
| 10  | Red, Green, Blue, Yellow,<br>Purple, Cyan, White   | 7 Colors Jumping   | Full-color smooth           | 7 colors strobe |




8. Wiring Diagram:



## 9. Other Special Functions:

### A. Reset Function:

**Feature:** Reset function is available when remote operates abnormally.

**Operation:** Long press the 2 keys **8**  simultaneously, release after 3 seconds, the remote will auto off, undo for more than 1 minute, means reset completed. and then could restart the remote.




### B. Check and Edit the Frequency Point on the Remote:

**Feature:** a. Revising the frequency point to eliminate the external disturbance. 12 revisable frequency points for user.

b. Multiple remotes sync-control becomes available when they use the same frequency point.

**Attn:** After reset or revised the frequency points in the remote, receivers only can be used after relearn the ID.


#### Check the Frequency Point on the Remote:

Turn on the remote, long press the "on/off" key  for 5 seconds until the red light  flashes 3 times, and then the green light  flashes, the numbers of the green flash will be the frequency point of the remote. you can only edit the frequency point after 3 seconds.

**Edit the Frequency Point on the Remote:** In frequency changing state,

Method 1: Short press any key from "1-8", the frequency point will be "1-8" correspondingly, the green light will flash in the same numbers. Then press any key or touch the color circle to exit the frequency edit state.

Method 2: Long press "on/off" key  over 5 seconds, the green light  flashes, the flash times plus 1 means the frequency point accumulate 1.

In short, long press the "on/off" key  over 5 seconds each time, the frequency point will accumulate 1, which will again become value 1 when added to 12, and that cycle repeats.

**10. Attention:**

- A. The product shall be installed and serviced by the qualified person.
- B. This product is non-waterproof. Please avoid the sun and rain. When installed outdoors please ensure it is mounted in a water proof enclosure.
- C. Good heat dissipation will prolong the working life of the controller. Please ensure good ventilation.
- D. Please check if the output voltage of the LED power supply used comply with the working voltage of the product.
- E. Please ensure that adequate sized cable is used from the controller to the LED lights to carry the current. Please also ensure that the cable is secured tightly in the connector.
- F. Ensure all wire connections and polarities are correct before applying power to avoid any damages to the LED lights.
- G. If a fault occurs, please return the product to your supplier. Do not attempt to fix this product by yourself.

**11. Warranty Agreement:**

- A. We provide lifelong technical assistance with this product:
  - A 5-year warranty is given from the date of purchase. The warranty is for free repair or replacement if cover manufacturing faults only.
  - For faults beyond the 5-year warranty, we reserve the right to charge for time and parts.
- B. Warranty exclusions below:
  - Any man-made damages caused from improper operation, or connecting to excess voltage and overloading.
  - The product appears to have excessive physical damage.
  - Damage due to natural disasters and force majeure.
  - Warranty label, fragile label and unique barcode label have been damaged.
  - The product has been replaced by a brand new product.
- C. Repair or replacement as provided under this warranty is the exclusive remedy to the customer. We shall not be liable for any incidental or consequential damages for breach of any stipulation in this warranty.
- D. Any amendment or adjustment to this warranty must be approved in writing by our company only.

★ This manual only applies to this model. We reserve the right to make changes without prior notice.

## Applied Range

- Architectural ornament: business area, airport, subway station.
- Interior decoration: hotel, shopping mall, square, restaurant, pub, home furnishing, etc.
- Signboard, billboard.
- Anywhere else, where uses LED for dimming, color temperature and full color adjustment.



## Parameters

- Charging voltage: DC5V (Built-in lithium battery)
- Working current:  $\leq 30\text{mA}$
- Working frequency: 2.4GHz
- Remote distance: 30m
- With USB charging port

