# RGB/RGBW Timer Controller
# User's Manual



CE FC ✓ RoHS

（Please read through this manual carefully before use ）

## 1、Brief Introduction

Welcome to use our RGB/RGBW timer controller, it is a constant voltage overall color change controller, can be configured as RGB/RGBW controller. With LCD display, easy to operate. Built-in real time clock system and a strong DIY & combination function can meet your various control requirements.

## 2、Specifications

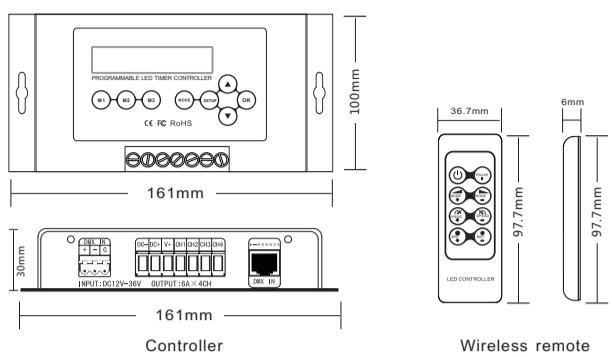| Model | RGB/RGBW Timer Controller |
|---|---|
| Working Voltage | DC12-36V |
| Output Current | 6A x 4CH |
| Input Signal | DMX512 |
| DMX interface | XLR-3, RJ45, Terminal block |
| Working Temp | -20°C-55°C |
| Dimensions | 161mmx100mmx30mm |
| Weight(N.W) | 480g |

## 3、Feature function

1、 With LCD screen, easy to operate.
2、 4096 grey scales, lamplight soft and stable, without flickers.
3、 40 built-in Modes, 4 DIY programming Modes, 4 combined modes and 1 decoder mode, it can combine hundreds of control patterns.
4、 Multilevel of speed and brightness adjustable.
5、 Built-in real time clock system, your program can be set to play at anytime.
6、 It can be configured as RGB controller or RGBW controller, convenient for stocking
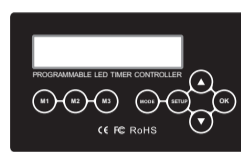
## 4、Safety warnings

1. In order to use it properly and safety, please read user's manual carefully before installation.
2. Please don't install this controller in lightening, intense magnetic and high-voltage fields.
3. To reduce the risk of component damage and fire caused by short circuit, make sure correct connection
4. Always be sure to mount this unit in an area that will allow proper ventilation to ensure a fitting temperature.
5. Don't connect cables with power on; make sure a correct connection and no short circuit checked with instrument before power on.
6. Please don't open controller cover and operate if problems occur.
   The manual is only suitable for this model; any update is subject to change without prior notice.

## 5、Dimensions



161mm

100mm

36.7mm   6mm

30mm

161mm

Controller

97.7mm   97.7mm

Wireless remote

## 6、Operating Instructions

1. Controller and Wireless remote control button instructions：

| Key | Short press function | Long press function ( 2s ) |
|---|---|---|
| M1,M2,M3 | Callout saved mode | Save the current mode |
| MODE | Switch mode, back to previous | |
| SETUP | Enter and switch setup | Enter system setup |
| UP | Switch mode, increase current set value | Increase current set value rapidly |
| DOWN | Switch mode, decrease current set value | Decrease current set value rapidly |
| OK | Comfirm and enter into next value | |

### 2. Changing Patterns

| NO. | LCE Display | Working Models | Operation |
|---|---|---|---|
| 1 | 1. BLACK | Black | |
| 2 | 2. RED SPEED8 BRT:8 | Red ( flicker ) | Speed 1 is static color, speed and brightness are adjustable. |
| 3 | 3. GREEN SPEED8 BRT:8 | Green ( flicker ) | |
| 4 | 4. BLUE SPEED8 BRT:8 | Blue ( flicker ) | |
| 5 | 5. YELLOW SPEED8 BRT:8 | Yellow ( flicker ) | |
| 6 | 6. PURPLE SPEED8 BRT:6 | Purple ( flicker ) | |
| 7 | 7. CYAN SPEED8 BRT:8 | Cyan ( flicker ) | |
| 8 | 8. WHITE SPEED8 BRT:8 | White ( flicker ) | |
| 9 | 9. RG CHANGE SPEED8 BRT:8 | RG change | Speed and brightness are adjustable. |
| 10 | 10. RB CHANGE SPEED8 BRT:8 | RB change | |
| 11 | 11. GB CHANGE SPEED8 BRT:8 | GB change | |
| 12 | 12. RGB CHANGE SPEED8 BRT:8 | RGB change | |
| 13 | 13. COLOR CHANGE SPEED8 BRT:8 | Color change | |
| 14 | 14. WHITE STROBE SPEED8 BRT:8 | White strobe | |
| 15 | 15. RGB STROBE SPEED8 BRT:8 | RGB strobe | |
| 16 | 16. COLOR STROBE SPEED8 BRT:8 | Color strobe | |

| 17 | 17. RED FADE SPEED8 BRT:8 | Red fade | Speed and brightness are adjustable. |
|---|---|---|---|
| 18 | 18. GREEN FADE SPEED8 BRT:8 | Green fade | |
| 19 | 19. BLUE FADE SPEED8 BRT:8 | Blue fade | |
| 20 | 20. YELLOW FADE SPEED8 BRT:8 | Yellow fade | |
| 21 | 21. PURPLE FADE SPEED8 BRT:8 | Purple fade | |
| 22 | 22. CYAN FADE SPEED8 BRT:8 | Cyan fade | |
| 23 | 23. WHITE FADE SPEED8 BRT:8 | White fade | |
| 24 | 24. RGB FADE SPEED8 BRT:8 | RGB fade | |
| 25 | 25. COLOR FADE SPEED8 BRT:8 | Color fade | |
| 26 | 26. RG SMOOTH SPEED8 BRT:8 | RG smooth | |
| 27 | 27. RB SMOOTH SPEED8 BRT:8 | RB smooth | |
| 28 | 28. GB SMOOTH SPEED8 BRT:8 | GB smooth | |
| 29 | 29. RY SMOOTH SPEED8 BRT:8 | RY smooth | |
| 30 | 30. RC SMOOTH SPEED8 BRT:8 | RC smooth | |
| 31 | 31. BP SMOOTH SPEED8 BRT:8 | BP smooth | |
| 32 | 32. RP SMOOTH SPEED8 BRT:8 | RP smooth | |
| 33 | 33. GY SMOOTH SPEED8 BRT:8 | GY smooth | |
| 34 | 34. BC SMOOTH SPEED8 BRT:8 | BC smooth | |
| 35 | 35. RW SMOOTH SPEED8 BRT:8 | RW smooth | |
| 36 | 36. GW SMOOTH SPEED8 BRT:8 | GW smooth | |
| 37 | 37. BW SMOOTH SPEED8 BRT:8 | BW smooth | |
| 38 | 38. RGB SMOOTH SPEED:4 BRT:8 | RGB smooth | |

| 39 | 39. YPC SMOOTH SPEED8 BRT:8 | YPC smooth | |
|---|---|---|---|
| 40 | 40. COLOR SMOOTH SPEED:8 BRT:8 | Color smooth | |
| 41 | 41. DIY MODE 1 8 STEPS FADE | DIY1 mode | Customizing the color, duration, change type of up to eight steps, the controller can automatically play the changing mode you need, Speed and brightness are adjustable. |
| 42 | 42. DIY MODE 2 8 STEPS FADE | DIY2 mode | |
| 43 | 43. DIY MODE 3 8 STEPS FADE | DIY3 mode | |
| 44 | 44. DIY MODE 4 8 STEPS FADE | DIY4 mode | |
| 45 | 45. GROUP1 MODE 2 MODES ON | Group1 mode | Each group mode can be combined by up to eight modes which are selected from mode 1-44 . Speed, brightness and running time of sub-mode can be set. |
| 46 | 46. GROUP2 MODE 1 MODES ON | Group2 mode | |
| 47 | 47. GROUP3 MODE 1 MODES ON | Group3 mode | |
| 48 | 48. GROUP4 MODE 1 MODES ON | Group4 mode | |
| 49 | 49. TIMER MODE ALL TIMER OFF | Timer mode | Up to eight Timer setups, per timer setup can be set as PER DAY, PER DATE or SPE DATE, start time, end time,and run modes from mode 1-48 . when there are multiple timer, the earlier timer will be operated firstly. |
| 50 | 50. DECODER MODE DMX ADDRESS:063 | Decoder mode | |

### 3. Parameter setting

| Model | Parameter | Instruction |
|---|---|---|
| 2-40 | MODE2 SETUP RUN SPEED:8 | Running speed, Value 1-8, the higher the value, the faster. |
| | MODE2 SETUP RUN BRT:8 | Running brightness, value 1-8, the higher the value, the brighter. |
| 41-44 | DIY1 STEP1 T:001 R255G255B255 | Setting the step parameter of DIY mode , T is duration time, R for red value, G for green value, B for blue value |
| | DIY1 STEP1 CHANGE KIND:FADE | Setting the changing types of DIY mode, FADE or JUMP. |
| 45-48 | MODE45 GROUP1 M:10 S:4 B:8 T:1 | Setting the sub mode parameter of group mode. M for sub mode sequence, S for speed, B for brightness, T for running times. |

| 49 | TIMER SETUP TIMER1:OFF | Timing setting: Select OFF, PER DAY, PER DATE, SPE DATE. |
|---|---|---|
| | SMTWTFS 00:00-00:00 M:01 | When set the timing as per day, the letters ' SMTWTFS' of the first line, represent from Sunday to Saturday. The displayed letter means selected, '-' means unselected. The parameters of the second line is start time and end time. 'M' represents the running mode sequence number when timing started, value 1-48. |
| | DATE:01-31 00:00-00:00 M:01 | When set the timing as per date, the parameter of the first line is start date and end date. The parameters of the second line is start time and end time. 'M' represents the running mode sequence number when timing started,  value 1-48. |
| | DATE:01/01-12/31 00:00-00:00 M:0 | When set the timing as specified date, the parameter of the first line is start date and end date. The parameters of the second line is start time and end time. 'M' represents the running mode sequence number when timing started,  value 1-48. |
| 50 | MODE50 SETUP DMX ADDRESS:001 | Setting the DMX address of decode mode. |
| System setting ( Long press SETUP for 2s to enter) | SYSTEM TIME 01/01/2016 10:10 | System time setting. |
| | SYSTEM SETUP CONTROLLER:RGB | Setting the controller type : RGB or RGBW. When set as RGB controller,  the fourth channel is null. |
| | SYSTEM SETUP LOAD DEFAULT | Load default setting |

### 4. Wireless remote control button instrucnions

| ⏻ | ON/OFF | | MODE+ | | SPEED+ | | BRT+ |
|---|---|---|---|---|---|---|---|
| | PAUSE | | MODE- | | SPEED- | | BRT- |

Wireless remote control only support the switch of the first 48 modes,when set the 49th timer mode or the 50th decode mode on the controller, no need remote control .
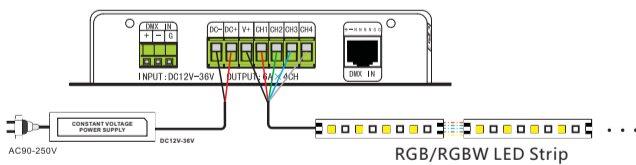
**The learning ID Method of Remote Control**
Hold the "UP" and "DOWN" keys at the same time,  and press any key on the remote control, when the LCD displays' SAVE ID SUCCESS', it indicates that ID setting success.
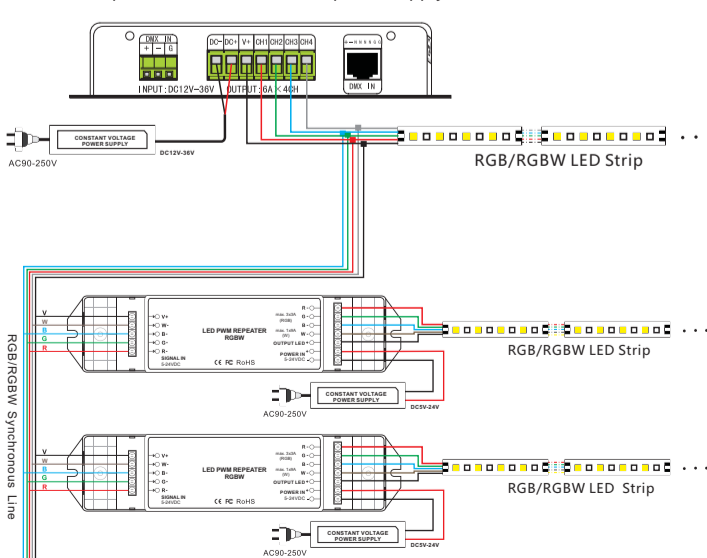
### 5. Conjunction Diagram
#### 1)LED controller Conjunction Diagram:



CONSTANT VOLTAGE POWER SUPPLY

AC90-250V

DC12-36V

RGB/RGBW LED Strip

#### 2) LED Controller Connects to Repeater (If power is enough, the controller and the repeater can share the same power supply ):



CONSTANT VOLTAGE POWER SUPPLY

AC90-250V

DC12-36V

RGB/RGBW LED Strip

RGBW synchronous Line

LED PWM REPEATER RGBW

RGB/RGBW LED Strip

CONSTANT VOLTAGE POWER SUPPLY

AC90-250V

LED PWM REPEATER RGBW

RGB/RGBW LED Strip

CONSTANT VOLTAGE POWER SUPPLY

AC90-250V

## 8. After- Sales

From the day you purchase our products within 3 years, if being used properly in accordance with the instruction, and quality problems occur, we provide free repair or replacement services except the following cases:
1. Any defects caused by wrong operations.
2. Any damages caused by inappropriate power supply or abnormal voltage.
3. Any damages caused by unauthorized removal, maintenance, modifying circuit, incorrect connections and replacing chips.
4. Any damages due to transportation, breaking, flooded water after the purchase.
5. Any damages caused by earthquake, fire, flood, lightning strike etc. force majeure of natural disasters.
6. Any damages caused by negligence, inappropriate storing at high temperature and humidity environment or near harmful chemicals.