

UJS Light Sheet

English Controller Datasheet

HX-SZ600-CT14K

Category: RGB Controllers
Source model: HX-SZ600-CT14K
Internal reference: HOION-CTRL-039

Product Overview

RF 14-key Color Temperature Controller
Controller adopt the most advanced PWM (Pulse Width Modulation) digital dimming technology, especially design for dual-white led strip. Adopt RF remote control, transmission Distance up to 20mï¼no need line-of-sight. 14 function buttons, intuitive panel allowing intelligent lighting with brilliant simplicity.
Especially, it designed with Synchronization function. It is convenient to use RJ45 connector to connect the multiple controllers together, and ach

Technical Details

Product Feature

Designed for CW+WW constant voltage LED lights, Working voltage DC12-24V.
Two channels output, Max. load current: 2CH*10A; Max. load power: 240W/12V; 480W/24V.
Adopts RF 14keys remote control with fashion appearance, no need line-of-sight. Control range up to 20 meters.
Memory function, each time power-on reserve the mode which stop in the last power-down.
8 modes in total, including 4 static colors and 4 dynamic changes.
The brightness of static color is adjustable, 256 levels in total; the speed of dynamic changes is adjustable, 100 levels in total.
Long-press the brightness and speed key can get the fast adjustment, convenient for operation.
Multiple controllers can work synchronically when connected by network cable through the RJ45 connector, the network cable between 2 ports up to 100 meters.
Warranty of this product is two years, exclude the artificial situation of damaged or overload working.

Technical Parameters

Controller

| Working temperature | -20-60â | Supply voltage | DC12V-24V
| Static power consumption | <1W | Connecting mode | common anode
| Grayscale | 256 levels | Speed stage | 100 grade
| External dimension | L91*W88*H24 mm | Packing size | L108*W108*H50 mm
| Net weight | 220g | Gross weight | 255g
| Mode | 8 | Remote distance | Up to 20M
| RF frequency | 433.92Mhz | Memory function | support
| Output | 2 channels | Output current | ≤10A(each channel)
| PWM frequency | 400Hz | Max. Output power | 12V240W, 24V480W

Remote control

| Working temperature | -20â~60â | Supply voltage | DC3Vï¼CR2025ï¼
| Standby current | <3.3uA | Working current | <12mA
| Standby power | 9.9uW | Working power | 36mW

HX-SZ600-CT14K

| Net weight | 30g | RF frequency | 433.92MHz

| External dimension | L85*W51*H6 mm | RF distance | ≤20m

External Dimension

Packing box: L106*W106*H66 mm (controller & remote control)

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Interface Specifications

Connection: V+ → COM → CH1 → CW → CH2 → WW → CH3 → NC (no connect).

Direction for use

Connect the load wire at first, following by the power wire; Please ensure short circuit can not occur between connecting wire before you turn on the power.

This product adopts

RF 14-key remote control, the function of each button as below:

| OFF | | ON

|

| Cool white | Warm white |
50%

Cool white and Warm white

|

Brightness

/Speed +

| CW Balance | WW Balance |
100%

Cool white and

Warm white

|

Brightness

/Speed -

|

| Delay Off 30's | SCENE 1 | SCENE 2 | Dynamic mode

Mark:

1. CW: Cool white 100%, warm white 0%;
2. WW: Cool white 0%, warm white 100%;
3. CWW: Cool white 50%, warm white 50%;
4. Full: Cool white 100%, warm white 100%.
5. B-Balance: color temperature balance. White B balances to cool white, yellow B balances to warm white. The sum of two channels output power remains constant when CT balanced.
6. There have 2 DIY buttons designed for scene memory. Pressing it first, and DIY the scene, and press it again, and finish.

4 modes in total as below:

| NO | Patterns | Remarks

| 1 | CW and WW flash alternately | Speed is adjustable, brightness is unadjustable

| 2 | CW and WW fade alternately

| 3 | CW and WW flash

| 4 | CW and WW fade

RF CODE

Receiver can be controlled by any one the same remote as factory default; remote control delivered with unique RF code as factory default; if unique-control is needed, please matching the code before installation and using.

Matching code operation

Driver and Remote Control are coded as default, matching them before using,if unique-control or new-coded-remote is needed, pairing the remote and the receiver as below operation instruction before using:

1.
Step 1 : Pressing key "DELAY OFF" and hold on, power on the controller, the load LEDs will be 50% brightness white as responding.
2.
Step 2 : Pressing " DELAY OFF" 3times in 3 seconds ,corresponding to the operation, the LED's brightness will change as 25%-10%-back to preset level.
- 3.Code learning successfully, the receiver only can be controlled by the remote.
- 4.If not, please re-operate from step 1 to 2.

Clear code operation

Back to factory default, wall-panel can be controlled by any one the same remote control.

1.
Step 1 : Pressing key "FUN" and hold on, power on the controller, the load LEDs will be 50% brightness white as responding.
2.
Step 2 : Pressing " FUN" 3times in 3 seconds ,corresponding to the operation, the LED's brightness will change as 25%-10%-back to preset level.
- 3.Code clearing successfully, the LEDs will be back to the status before the power off, and the receiver can be controlled by any remote control(any one the same remote control can be used to clear the code).
- 4.If not, please re-operate from step 1 to 2.

Typical Applications

Application Circuit 1:

(
Tips:CH1→CW,CH2→WW)

Application Circuit 2:(Synchronization function with network Line)

Tips: The green signal indicator light will uniform flash with proper communication, and will off with any incorrect signal connection (like: poor contact, confused input and output, wrong wire order).

Source reference: <https://www.hoionlighting.com/products/LEDdiaoguangqi/RGBkongzhiqi/2021/0417/346.html>