

3 Channel High Voltage LED Strip Waterproof DMX512 & RDM Decoder

Model No.: S3-WP

RDM/Stand-alone function/Two PWM frequency/Linear or logarithmic dimming/Numeric display



CE RoHS LVD

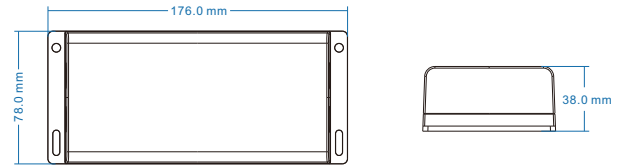
Features

- Waterproof DMX512 decoder or RF controller with IP67 rating, suitable for outdoor and damp environment.
- Comply with the DMX512 standard protocols.
- Digital numeric display, set DMX decode start address by buttons.
- RDM function can realize intercommunication between DMX master and decoder.
- 1/3 DMX channel output selectable.
- PWM frequency 2000/500Hz selectable.
- Logarithmic or linear dimming curve selectable.
- Stand-alone RGB mode and RF mode selectable, which be controlled by buttons with builtin programs, instead of DMX signal.
- Also match with kindomleds 2.4G single zone or multiple zone RGB remote control.

Technical Parameters

| Input and Output | | Safety and EMC | |
|-------------------------|-------------------|-------------------------|--|
| Input voltage | 110-240VAC | EMC standard [EMC] | EN55032:2015, EN61000-3-2:2014, EN61000-3-2:2013, EN55024 -2010/A1:2015 |
| Input current | 4.6A | Safety standard[LVD] | EN 61347-1:2015 EN 61347-2-11:2015 |
| Output voltage | 3 x [110-240]VDC | Certification | CE,EMC,LVD |
| Output current | 3CH,1.5A/CH | Warranty and Protection | |
| Output power | 3 x [165-360]W | Warranty | 5 years |
| Environment | | Protection | Over load |
| Operation temperature | Ta: -30°C ~ +55°C | | |
| Case temperature [Max.] | Tc: +85°C | | |
| IP rating | IP20 | | |

Mechanical Structures and Installations



Wiring Diagram



⚠ Caution:

This controller apply for high voltage LED strip, please carefully ensure all wire connections and polarities are correct and secure before applying power, otherwise this controller or high voltage LED strip will be damaged.

Operation

System parameter setting

- Long press SETUP key for 2s, prepare for setup system parameter: decode mode, output PWM frequency, output brightness curve, automatic blank screen. short press M key to switch four item.
- Decode mode: short press ◀ or ▶ key to switch 1/3 channel decode mode("d-1" or "d-3").
When set as 1 channel decode, the decoder occupy only 1 DMX address, and three channel output the same brightness of this DMX address.
- Output PWM frequency: short press ◀ or ▶ key to switch 500Hz("F-L") or 2KHz("F-H").
Higher PWM frequency, will cause lower output current, but more suitable for camera(No flickers for video).
- Output brightness curve: short press ◀ or ▶ key to switch linear curve("C-1") or logarithmic curve("C-E").
- Automatic blank screen: short press ◀ or ▶ key to switch enable ("boN") or disable("boF") automatic blank screen.
- Long press SETUP key for 2s or timeout 10s, quit system parameter setting.

DMX mode

- Short press MODE key, when display 001~999, enter DMX mode.
- Press ◀ or ▶ key to change DMX decode start address(001~999), long press for fast adjustment.
- If there is a DMX signal input, will enter DMX mode automatically.
- DMX Dimming: Each S3-WP DMX decoder occupy 3 DMX address when connecting the DMX console.

For example, the defaulted start address is 1, their corresponding relationship in the form:

| DMX Console | DMX Decoder Output |
|-------------|------------------------|
| CH1 0-255 | CH1 PWM 0-100% (LED R) |
| CH2 0-255 | CH2 PWM 0-100% (LED G) |
| CH3 0-255 | CH3 PWM 0-100% (LED B) |



DMX mode
(001~999)

Stand-alone RGB mode

- Enter stand-alone RGB mode only when DMX signal is disconnected or lost.
- Short press MODE key, when display P-H or P01~P30, enter stand-alone RGB mode.
- Press ◀ or ▶ key to change static adjustable mode(P-H) and dynamic mode(P01~P30).
- When run static adjustable mode, can adjust three channel brightness respectively.
Long press SETUP key for 2s, prepare for setup three channel brightness.
Short press SETUP key switch three channel dimming(100~1F, 200~2FF, 300~3FF), press ◀ or ▶ key adjust each channel brightness.



Stand-alone dynamic mode
(P-1 ~ P-4)

- When run 30 dynamic mode, can adjust each mode speed and brightness.
Long press SETUP key for 2s, prepare for setup speed or brightness.
Short press SETUP key to switch two item.
Press ◀ or ▶ key to setup value of each item.
Mode speed: 1-10 level speed(S-1, S-9, S-F).
Mode brightness: 1-10 level brightness(b-1, b-9, b-F).
Long press SETUP key for 2s, or timeout 10s, quit setting.



Speed
(8 level)



Brightness
(10 level, 100%)

RGB change mode list

| No. | Name | No. | Name | No. | Name |
|-----|---------------|-----|-----------------------|-----|---------------------------|
| P01 | Static red | P11 | Green strobe | P21 | Red yellow smooth |
| P02 | Static green | P12 | Blue strobe | P22 | Green cyan smooth |
| P03 | Static blue | P13 | White strobe | P23 | Blue purple smooth |
| P04 | Static yellow | P14 | RGB strobe | P24 | Blue white smooth |
| P05 | Static cyan | P15 | 7 color strobe | P25 | RGB+W smooth |
| P06 | Static purple | P16 | Red fade in and out | P26 | RGBW smooth |
| P07 | Static white | P17 | Green fade in and out | P27 | RGBY smooth |
| P08 | RGB jump | P18 | Blue fade in and out | P28 | Yellow cyan purple smooth |
| P09 | 7 color jump | P19 | White fade in and out | P29 | RGB smooth |
| P10 | Red strobe | P20 | RGBW fade in and out | P30 | 6 color smooth |

RF mode

Match: Long press MODE and ▶ key for 2s, display "RLS",
within 5s, press on/off key of the RGB remote, display "RIO", match is successful,
then use the RF remote to change mode number, adjust speed or brightness.

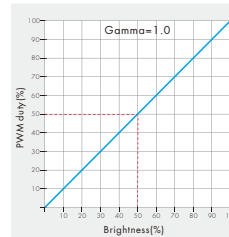
Delete: Long press MODE and ▶ key for 5s, until display "RLE", delete all matched RF remote.

Restore factory default parameter

- Long press ◀ and ▶ key for 2s, restore factory default parameter, display "RES".
- Factory default parameter: DMX decode mode, DMX decode start address is 1, 3 channel decode, high PWM frequency output, logarithmic brightness curve, RGB mode number is 1, dimmer mode number is 1, disable automatic blank screen.

Dimming curve setting

Linear dimming curve



Logarithmic dimming curve

