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Everylite Datasheet Ver 1.4.0

# C-DEC-5A4 4 Channel Decoder



## Features

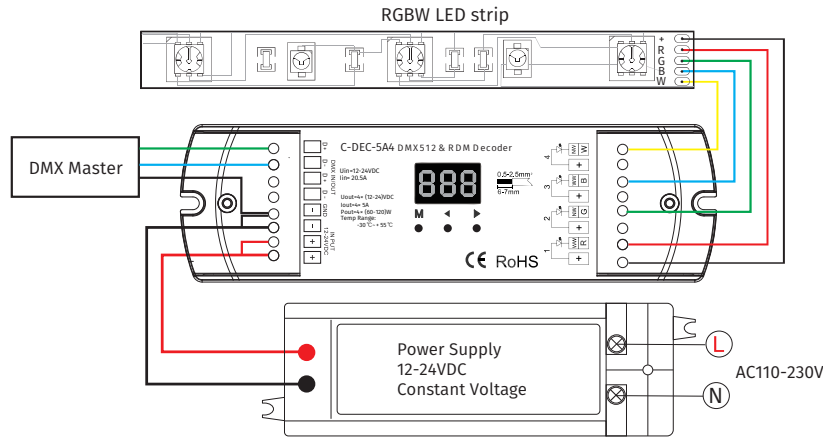
- 4 channel PWM constant voltage DMX decoder with digital display.
- DMX decode mode / Stand-alone RGB/RGBW mode / Stand-alone 4 channel dimmer mode.
- DMX address display, set DMX address freely.
- Comply with the latest DMX512 protocol.
- RDM bi-directional communication function, can realize intercommunication between DMX master and decoder..
- Under stand-alone RGB/RGBW controller mode, have 30 mode, include static color, jump, flash, gradual change style, adjustable speed and brightness.
- Under stand-alone 4 channel dimmer mode, each channel adjust brightness independently, and save up to 8 groups brightness.
- 1/2/4 DMX channel decode optional.
- High or low PWM frequency optional.
- Logarithmic or linear dimming curve optional.
- Work with power repeater to expand output unlimitedly.



## Technical Parameters

Input Voltage	Max. Load Current	Total Output Max.	Output Type	Output Signal	Working Temperature
12 - 24 VDC	5A/Channel	20A	PWM	4 x (60-120) W	-4 ~ +122 °F

## Wiring Diagram



## Power Supply Loading

- For 12 V LEDs, input from 12 V power supply, each channel can load 0~60W.
- For 24 V LEDs, input from 24 V power supply, each channel can load 0~120W.
- Do not load the Everylite Power Supply to more than 90% capacity.

## Operation

### System parameter setting

- Long press M and ◀ key for 2 seconds, 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 one-channel decode ("d-1"), two-channel decode ("d-2"), or four-channel decode ("d-4").
- Output PWM frequency: short press ◀ or ▶ key to switch 500Hz ("F-L") or 2KHz ("F-H").
- Output brightness curve: short press ◀ or ▶ key to switch linear curve ("C-L") or logarithmic curve ("C-E").
- Automatic blank screen: short press ◀ or ▶ key to switch enable ("bon") or disable ("boF") automatic blank screen.
- Long press M key for 2 seconds or timeout 10 seconds, quit system parameter setting.

### DMX mode

- Short press M key, when display 001-999, enter DMX mode.
- Press ◀ or ▶ key to change DMX decode address (001-510), long press for fast adjustment.
- If there is a DMX signal input, will enter DMX mode automatically.



DMX mode  
(001-510)

## Operation

### Stand-alone RGB/RGBW mode

- Short press M key, when display P01~P30, enter stand-alone RGB/RGBW mode.
- Press ◀ or ▶ key to change dynamic mode number (P01~P30).
- Each mode can adjust speed and brightness.
- Long press M key for 2 seconds, prepare for setup mode speed, brightness, W channel brightness.
- 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).
- W channel brightness: 0-255 level brightness (400-4FF).
- Long press M key for 2 seconds, or timeout 10 seconds, quit setting.
- Enter stand-alone RGB/RGBW mode only when DMX signal is disconnected or lost.



Stand-alone RGB/RGBW mode  
(P01~P30)



Speed  
(8 level)



Brightness  
(10 level, 100%)

Code	Name	Code	Name	Code	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

### Stand-alone Dimmer mode

- Short press M key, when display L-1~L-8, enter stand-alone dimmer mode.
- Press ◀ or ▶ key to change dimmer mode number (L-1~L-8).
- Each dimmer mode can adjust each channel brightness independently.
- Long press M key for 2 seconds, prepare for setup four channel brightness.
- Short press M key to switch four channel (100~1FF, 200~2FF, 300~3FF, 400~4FF).
- Press ◀ or ▶ key to setup brightness value of each channel.
- Long press M key for 2 seconds, or timeout 10 seconds, quit setting.
- Enter stand-alone dimmer mode only when DMX signal is disconnected or lost.



Stand-alone dimmer mode  
(L-1~L-8)

### Restore Factory Default Parameters

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



## Safety Information

1. The product shall be installed and serviced by a qualified person.
2. This product is a non-waterproof, indoor rated device. Please avoid the sun and rain.
3. Good heat dissipation will prolong the working life of the controller, please ensure adequate ventilation.
4. Please check if the output voltage of any power supplies used comply with the working voltage of the products.
5. Ensure all wire connections and polarities are correct and secure before applying power to avoid any damages to the LED lights.
6. If a fault occurs please return the product to your supplier. Do not attempt to fix this product by yourself.

## Drawing

