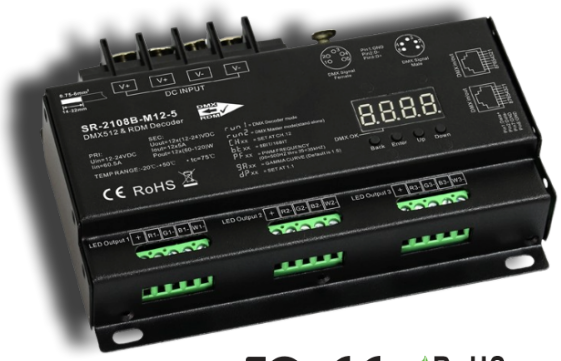
SUNRICHER

Ultra-Pro 12 Channel RDM DMX512 Decoder

SR-2108B-M12-5/3



Features:

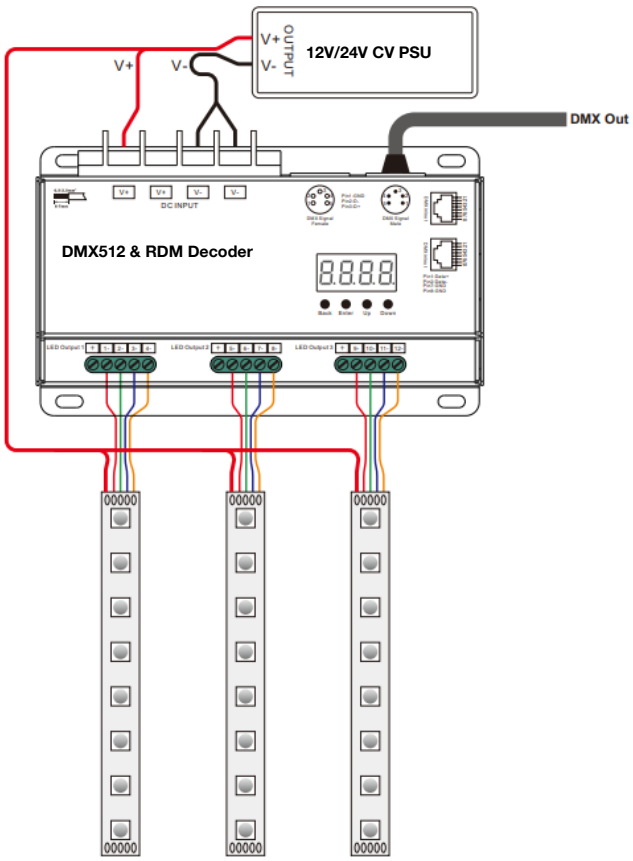
- 12-Channel DMX512/RDM LED Controller
- DMX512 and RDM compatible
- Master/Decoder mode switchable
- 12 channels, maximum 5A per channel
- Metal housing with digital interface
- IP20 : Ingress Protection rating
- 2 year warranty

FC CE RoHS COMPLIANT

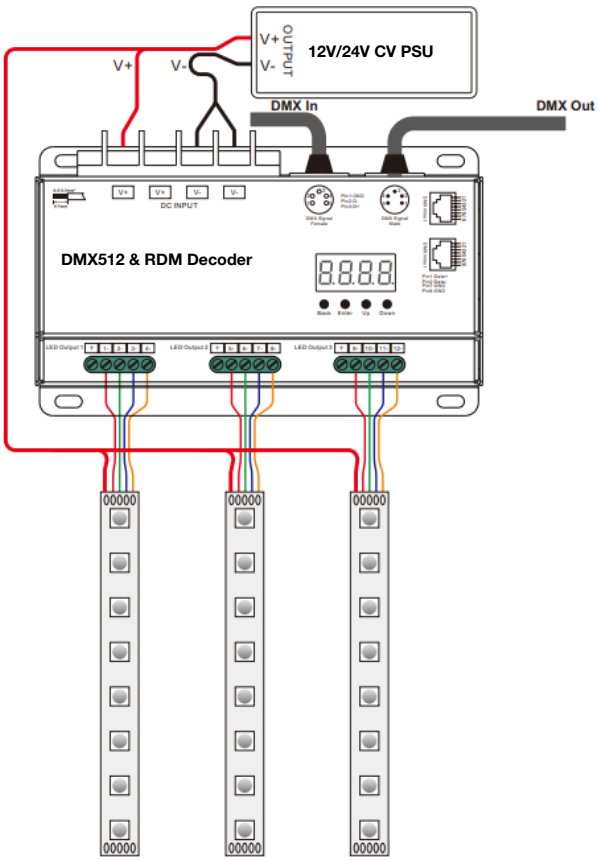
Model		SR-2108B-M12-5/3		
	No.	1	2	3
Product Data	Input Voltage	12~24VDC	12~48VDC	12~48VDC
	Output Current	12x5A	12x350mA	12x700mA
	Output Power	12x(60-120)W	12x(4.2-16.8)W	12x(8.4-33.6)W
	Remarks	Constant Voltage	Constant Current	Constant Current
	Size	165.5*99.7*38mm (L*W*H)		
	Protections	Short circuit	Short circuit	Short circuit
Safety & Warnings	• DO NOT Install with power applied to the device • DO NOT expose the device to moisture			
Notes	• Master & decoder mode, RDM function • Metal housing, digital display to show data directly, easily to set and show DMX address. • With multiple kinds of DMX in/out ports: RJ 45, XLR , normal screws. • Total 12 PWM output channels, common anode. DMX channel quantity 1CH, 4CH, 6CH, 12CH settable.	• PWM output resolution ratio 8bit , 16bit settable. • Output PWM frequency from 500HZ ~ 35K HZ settable. • Output dimming curve gamma value from 0.1 ~ 9.9 settable. • Decoding mode settable. • Galvanic isolation		

Wiring Diagram

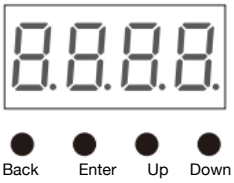
Under Master mode (Stand alone)



Under Decoder mode



Operation



Before you do other settings, please set the device to be Master or Decoder mode.

run1 = DMX Decoder mode , run2 = DMX Master mode (stand alone).

Keep on clicking Down button, to get run1 or run2, then click Enter, then click Down button to choose 1 or 2, then click Back button.

I. For run2 DMX Master mode: After set the device as run2 (Master mode), if keep on clicking Up button, you will find below menu on display:

0101 Means brightness for each output PWM channel. First 01 means PWM output channel 1 and it is select able from 01 to 12 by clicking "UP" or "Down" button. Second 01 means brightness level, click "Enter" button, the display flashes, then click "UP" or "Down" button to select from 00-99-FL, which means 0%-99%-100% brightness, then click "Back" button to confirm

CA01 Means chasing effects, total 4 effects selectable from 01-04. Click "Up" or "Down" button to select the menu, then click "Enter" button to enter into the effect, then click "Up" or "Down" button to select from 01-04.

CA01: Fade-up (0%-100%) and fade-down (100%-0%) of output 1, then output 2, output 3, ……, output 12, output 1, ……, cycling chasing

CA02: Fade-up (0%-100%) of output 1, then simultaneous fade-down (100%-0%) of output 1 and fade-up (0%-100%) of output 2, simultaneous down of output 2 and up of output 3, ……, simultaneous down of output 11 and up of output 12, simultaneous down of output 12 and up of output 1, ……, cycling chasing

CA03: Fade-up (0%-100%) of output 1, then output 2, output 3, ……, output 12, output 1, ……, cycling chasing

CA04: Fade-down (100%-0%) of output 1, then output 2, output 3, ……, output 12, output 1, ……, cycling chasing

SP09 Means chasing speed, it selectable from 01-09, 01 is the slowest, 09 is the fastest.

II. For run1 DMX decoder mode: After set the device as run2 (Decoder mode), if keep on clicking Up button, you will find below menu on display:

DMX signal indicator ● : When DMX signal input is detected, the indicator on the display following after turns on red , A.XXX if there is no DMX signal input, the indicator will not turn on, and the character will flash.

APP0 You will get this after power on the decoder, it means this decoder supports firmware OTA update function.

A.XXX Means DMX address. factory default setting is 001.

CHXX Means DMX channels quantity. factory default setting is CH12

bEXX Means Bit (8bit or 16bit). factory default setting is 16bit

PFXX Means output PWM frequency. factory default setting is 10K HZ

gaXX Means output dimming curve gamma value, factory default setting is ga 1.5

dpXX Means Decoding mode, factory default setting is dp1.1

run1 Means the device at run1 mode (DMX decoder mode).
By holding buttons Back + Enter together at the same time over 5 seconds until the display go off, it will restore default settings.