DMX512 DATA Decoder

1814 6812

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Built-in sequences list : NO. Built-in sequences

Solid color: Black(Off

Solid color: Red

Solid color: Green

Solid color: Blue

Solid color: Yellow

Solid color: Purple

Solid color: CYAN

Solid color: White

full COLOR CHANGE

FULL COLOR FADING

Red chase with trail

RGB CHANGE

RGB FADING

SK6812RGBW, UCS2904, P9412 etc

NO.

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	Setting		LCD Display	Value	Mode		
	Built-in sec	quence	MASTER MODE MODE NO : 2	1-26	Master		
	Built-in speed		MASTER MODE RUN SPEED : 1	0-7	Master		
	DMX Address		DECODER MODE DMX ADDRESS: 1	1-512	Slave		
	DMX Signal RGB		DECODER MODE DMX RGB SEQ:RGB	"RGB" "BGR"only effective for RGB LED strip	Slave		
	Pixel		DECODER MODE PIX NUMBER: 170	1-170(RGB)/1-128(RGBW)	Master&	Slave	
	IC type		DECODER MODE IC TYPE: 2811	"2811""2801""6803""3001" "8806""9813""1814""6812"	Master&Slave		
	RGB Sequ	ence	DECODER MODE LED RGB SEQ: RGB	6 SEQ(RGB)/24 SEQ(RGBW). when select RGB sequence,within 5 seconds the first three pixels are red, green and blue respectively is correct, when select RGBW sequence,within 5 seconds the first four pixels are red, green, blue and white respectively is correct	Master&	Slave	
	Integral Co	ontrol	DECODER MODE ALL CONTROL: NO	"YES"," NO"	Master&	Slave	
	Reverse Control		DECODER MODE REV-CONTROL: NO	"YES"," NO"	Master&	Slave	
Control ICs type:							
	IC Type	Comp	atible ICs		Туре		
	2811	TM1803, TM1804, TM1809, TM1812, UCS1903, UCS1909, UCS1912, UCS2903, UCS2909, UCS2912, WS2811, WS2812B etc.					
	2801	WS2801, WS2803 etc.					
	6803	01 TLS3001, TLS3002 etc.			RGB		
	3001						
	8806	LPD8803、LPD8806 etc.					
	9813	P9813 etc.					
	1814	TM1814 etc.		RGBW			
	0040						

Built-in sequences

Green chase with trail

Blue chase with trail

white chase with trail

RGB chase with trail

Rainbow chase with trail

RGB chasing and fading

Rainbow chase - 7 Colors

White fading

Red chasing Green, chasing Blue

Orange chasing Purple, chasing Cyan

Random twinkle: White over red background

Random twinkle: White over green background

Random twinkle: White over blue background

DMX512 DATA Decoder

DMX512 DATA Decoder User Manual



FC (Please read through this manual carefully before use)

1. Brief Introduction

Welcome to use the DMX512 signal decoder, it is developed specially for LED lamps. It adapts the most advantage microchip technology, to convert the universal standard DMX512/1990 signal into various LED driving IC signals, and allows the LED lamps controlled by DMX512 protocol.

2. Specifications

	Mode	DMX512 DATA Decoder
	Input power	DC5V-DC24V
	Input signal	DMX512/1990
	Output signal	6803/8806/2811/2801/3001/9813/1814/6812 selectable
	Driving channel	510(RGB)/512(RGBW)
	Control Pixel	170(RGB)/128(RGBW)
	Dimension	L176×W46×H30(mm)
	Weight (G.W)	180g

(3. Basic Features)

Automatically adapts input voltage DC5V-24V.
Input standard DMX512 protocol.

3. Adapts LCD display, user friendly.

4. Support various LED dream color driving ICs

5. Support DMX master mode or slave mo 6. Over current fuse protection at output port, Wrong wiring protection at DMX input port.

- DMX512 DATA Decoder DMX512 DATA Decoder 2) Wiring diagram of Slave Mode (4. Safety warnings) PC CONSOLI To ensure correct operation, please read the user manual carefully before use.
 Please don't install this controller in lightening, intense magnetic and high-voltage fields.
 To reduce the risk of component damage and fire caused by short circuit, make sure correct connection. DMX512 CONSOLE Always be sure to mount this unit in an area that will allow proper ventilation to ensure a fitting temperature.
 Check if the voltage and power adapter suit the controller. (please select DC5-24V power supply with constant voltage) 6.Don't connect cables with power on: make sure a correct connection and no short circuit checked with instrument before power on DMX data 7.Please don't open controller cover and operate if problems occur. Please contact your controller supplier at CLK first time. 5. Dimensions 176mm <u>______</u> M + Ξ 30mm 6. Conjunction Diagram Output LPD6803/LPD8806/P9813/WS2801 signal, three lines 1) Wiring diagram of Master Mode: (Only one decoder is allowed to DATA 6803/8806/9813/2801 DATA vork as CLK 6803/8806/9813/2801CLK GND GND, connect with the chip GND CLK Output WS2811/TLS3001/TM1814/SK6812 signal,two lines: WS2811/TLS3001 DATA-CLK DATA GND GND, connect with the chip GND Master MASTER MODE MODE NO : 12 The input of the power supply can either wire to the output of the decoder V+, or wire seperately. When wire to V+, the inner fuse plays its role, and the max output current is 12A. here is the schematic diagram: M + E - V+ Fuse CONSTANT VOL - DC+ *Note: According to DMX512 protocol, in order to ensure a stable data transmission, you should add a metalster(Metal Thin Film resistor, 90-120 Ω 1/4 W)at the end of each layout of DMX data cable(between Foot 2 and Foot 3, Data + and Data -), please also refer to your dmx console manual to select a correct resistor. DECODER MODE DMXADDRESS:1 -0resistor M + -7.Operating instructions There are 3 buttons on the decoder: M (Manu), + (increase),-(decrease) CONSTANT VOLTAGE POWER SUPPLY Slave Μ Parameter setting,Long press for 2 seconds to switch between master mode and slave mode Increase value -+O DMX -+O DMX -+O DMX +-O DMX +-O DMX € Decrease value after operation, if no action within 30s, the key locks, backlight of the screen will turn off. Long press "M" for 2s to unlock the keys, and the backlight turns on. When at master mode, the first line of LCD shows: MASTER MODE When at slave mode, the first line of LCD shows: DECODER MODE the second line of the LCD shows the current parameter, such as: M $\left| + \right|$