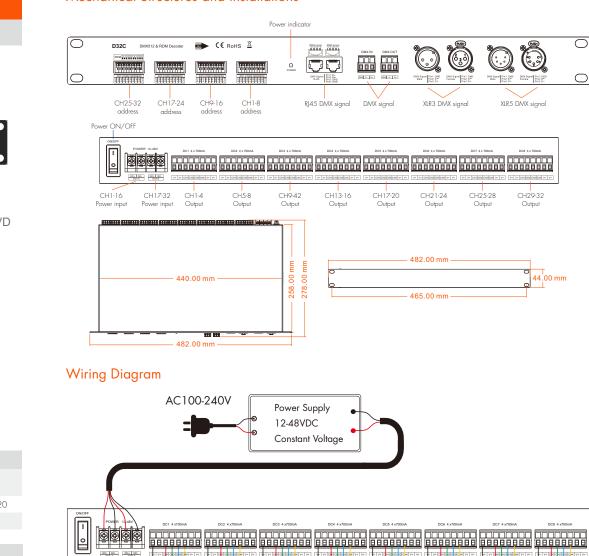
### 32 Channel Constant Current DMX512 & RDM Decoder

#### Model No.: D32C(350mA) / D32C(700mA)

RDM/DIP switch/logarithmic dimming





#### CEROHS 🚊 D32C DMX512 & RDM Decoder - - - ----

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#### **Features**

- DC12-48V power input, 32 channel PWM constant current output.
- Comply with the DMX512 standard protocols.
- Set DMX decode start address via DIP switch.
- RDM function can realize intercommunication between DMX master and decoder. For example, DMX decoder address can be set by DMX master console.
- Green terminal, XLR3, XLR5 and RJ45 port DMX signal input.

#### **Technical Parameters**

Input and Output	
Input voltage	12-48VDC
Output voltage	32 x (3-46)VDC
Output current	32CH, 350 or 700mA/CH
Output power	32 x (1-16.1)W @ 350mA 32 x (2.1-32.2)W @ 700mA
Output type	Constant current

Ta: -30°C ~ +55°C

Tc:+85°C

IP20

Safety and EMC	
EMC standard (EMC)	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4
Safety standard(LVD)	EN 62368-1:2020+A11:2020
Certification	CE,EMC,LVD

#### Warranty and Protection Warranty 5 years **Reverse** Polarity Protection Short circuit

#### V+ V+ 00 000 00 0 V+ V+ \* V+ C+0 C+0 C+0 C+4 V+ V+ V+ 01 02 00 04 V+ V+ V+ 00000000 0 V+ V+ 1+ v+ celcecece v+ v+ V+ 00 00 00 0H V+ V 6666 0000 6666 6666 6666 6666 6666 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 **\$\$\$\$** 0000 **0000** 0000 0000 0000 0000 **0000** 0000 **\$\$\$\$** 0000

Drives 1-13pcs LED per channel x 32CH

Environment

IP rating

Operation temperature

Case temperature (Max.)

### Wiring Precautions

- 1. The LED quantity at each channel can be different, the decoder could auto check and output a proper voltage to each channel according to its LED quantities.
- 2. The decoder works on buck mode, the voltage of power supply should be greater than the total voltage of the seried LEDs.
- 3. An DMX signal amplifier is needed if more than 8 decoders are connected, or use overlong signal line, signal amplification should not be more than 5 times continuously.
- 4. If the recoil effect occurs because of longer signal line or bad line quality, please try to connect 0.25W 90-120 $\Omega$  terminal resistor at the end of each DMX signal line.

#### DIP Switch



RDM Mode: The DIP switch 1-10 are all OFF.



DMX Mode: FUN=OFF (the 10th DIP switch = OFF) Setting DMX addresses with DIP switch 1-9.



Self-testing Mode: FUN=ON (the 10th DIP switch = ON) Setting self-testing mode with DIP switch 1-9.

### RDM Mode

When change DIP switch 1-10 to OFF, the defaulted DMX start decode address become 1. then DMX start decode address can be set by DMX/RDM console.

## DMX Mode

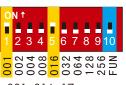
DMX strart decode address value = the total value of (1-9), to get the place value when in "on" position, otherwise will be 0.

4 DIP switch set 4 start address for CH1-8, CH9-16, CH17-24, CH25-32 respectively. For example, when 4 DIP switch set 1,9,17,25 start address, the total 32 channel occupy 001-032 address:

E.g.1: Set start address to 1.

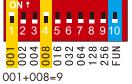


E.g.3: Set start address to 17.

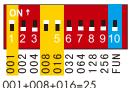


001+016=17





E.g.4: Set start address to 25



# Self-testing Mode

	1 2	3 4	5 6	7	8 9	9 10
	Static Green	Static Yellow	Statio Purp		Colors nping	
Stati Rea			atic yan	Static White	6 Co Smc	

1. For dynamic effects (DIP Switch 8,9 = on) : DIP switch 1-7 is used to get 7 speed levels. (7=on, the fastest level)

2. When several DIP switches are on, subjected to the highest switch value.

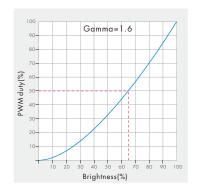
As the figure above shows, the effect will be 6 colors smooth at 7 speed level.

# DMX Dimming

Each D32C DMX decoder occupy 32 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 PVVM 0-100% (DC1 LED R)
CH2 0-255	CH2 PWM 0-100% (DC1 LED G)
CH3 0-255	CH3 PVVM 0-100% (DC1 LED B)
CH4 0-255	CH4 PWM 0-100% (DC1 LED W)
:	:
CH32 0-255	CH32 PW/M 0-100% (DC8 LED W)

# Dimming curve



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