

SKYDANCE D4-P 4 Channel Constant Voltage DMX512 & RDM Decoder Instruction Manual

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SKYDANCE

SKYDANCE D4-P 4 Channel Constant Voltage DMX512 & RDM Decoder



Features

- 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. For example, DMX decoder address can be set by DMX master console.
- 1/2/4 DMX channel output selectable.
- 16bit (65536 levels) /8bit (256 levels) grey level selectable.
- PWM frequency 250/500/1000/2000/4000/8000/16000Hz selectable.
- Logarithmic or linear dimming curve selectable.
- Over-heat / Over-load / Short circuit protection, recover automatically.
- D4-P have Green terminal DMX signal ports, D4-E have RJ-45 DMX signal ports.

Technical Parameters

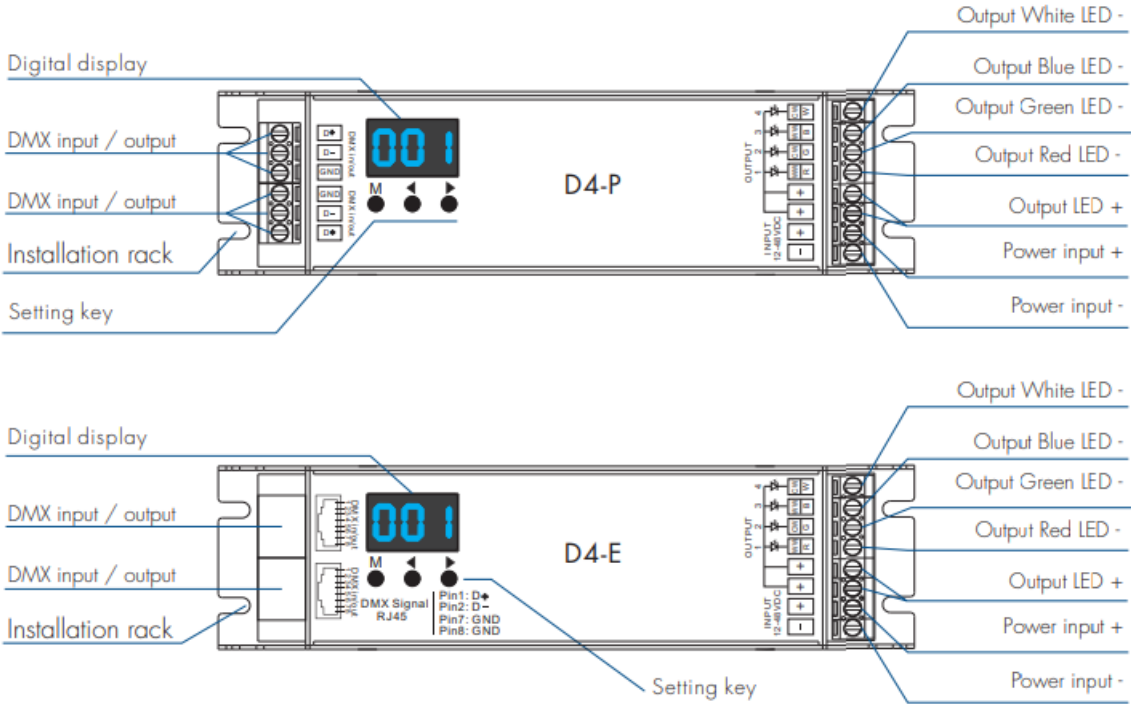
Input and Output	
Input voltage	12-48VDC
Input current	32.5A
Output voltage	4 x (12-48)VDC
Output current	4×8A@12/24V 4×6A@36/48V
Output power	4×96W @12V 4×192W@24V 4×216W@36V 4×288W@48V
Output type	Constant voltage

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	
	Environment	
	Operation temperature	Ta: -30 OC ~ +55 OC
	Case temperature (Max.)	T c: +75OC
	IP rating	IP20

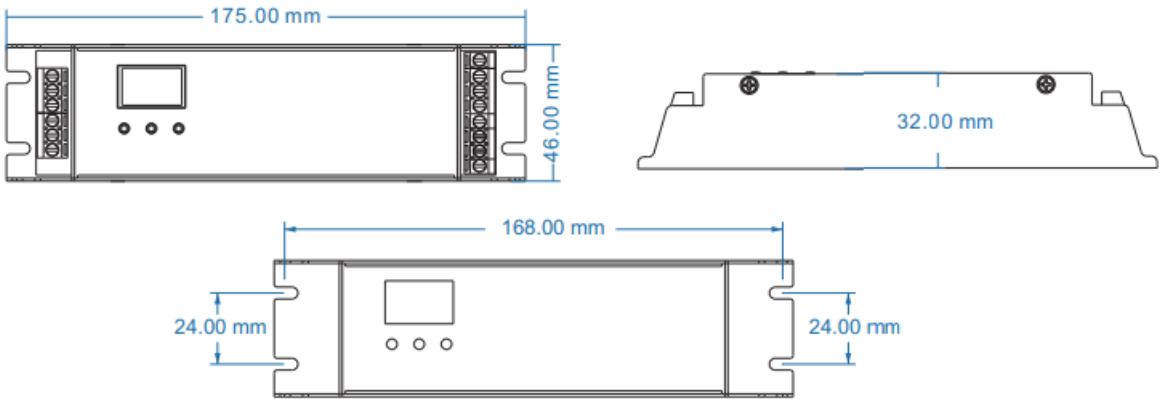
Warranty and Protection	
Warranty	5 years
Protection	Reverse polarity Over-heat Over-load Short circuit

Weight	
Net weight	276g
Gross weight	295g

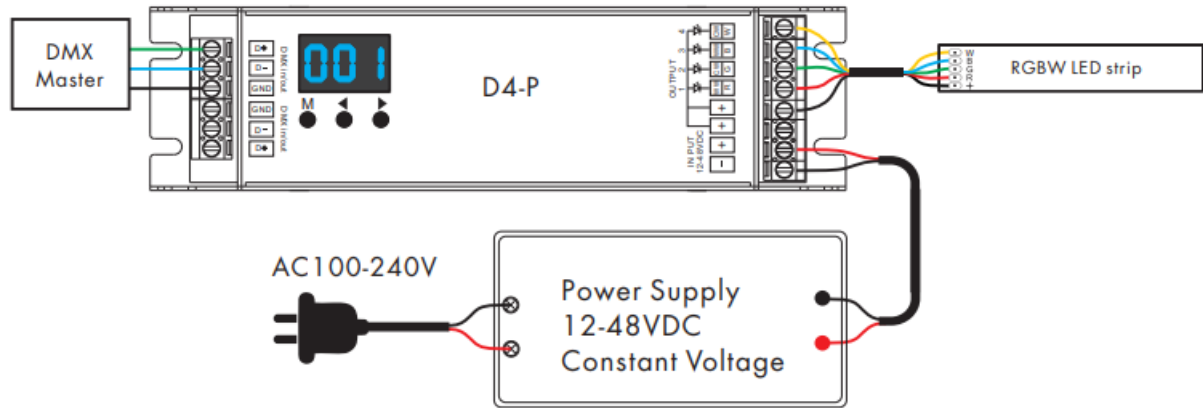
Mechanical Structures and Installations



DIMENSIONS



Wiring Diagram



Note:

1. An DMX signal amplifier is needed if more than 32 decoders are connected, or use overlong signal line, signal amplification should not be more than 5 times continuously.
2. If the recoil effect occurs because of longer signal line or bad line quality, please try to connect 0.25W 90-120Ω terminal resistor at the end of each DMX signal line.

Operation

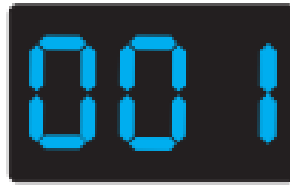
System parameter setting

- Long press M and ◀ key in the same time for 2s, prepare for setup system parameter: decode mode, grey level, output PWM frequency, output brightness curve, default output level, automatic blank screen. short press M key to switch six item.
- Decode mode: short press ◀ or ▶ key to switch 1/2/4 channel decode mode("d-1","d-2" or "d-4"). When set as 1 channel decode, the decoder occupy only 1 DMX address, and four channel output the same brightness of this DMX address.
- Grey level: short press ◀ or ▶ key to switch 8bit("b08") or 16 bit("b16"). choose 16 bit if the DMX master support 16 bit.
- Output PWM frequency: short press ◀ or ▶ key to switch 250Hz("F02"), 500Hz("F05"), 1000Hz("F10"), 2000Hz("F20"), 4000Hz("F40"), 8000Hz("F80") or 16000Hz("F16").
Higher PWM frequency, will cause lower output current, higher power noise, but more suitable for camera(No ickers for video).
- Output brightness curve: short press ◀ or ▶ key to switch linear curve("C-L") or logarithmic curve("C-E").
- Default output level: press ◀ or ▶ key to change default 0-100% level ("d00" to "dFF") when no DMX input signal.
- Automatic blank screen: short press ◀ or ▶ key to switch enable ("bon") or disable("boF") automatic blank screen.
- Long press M key for 2s or timeout 10s, quit system parameter setting.

DMX mode

- Short press M key, when display 001~512, enter DMX mode.

- Press ◀ or ▶ key to change DMX decode start address(001~512), long press for fast adjustment.
- If there is a DMX signal input, will enter DMX mode automatically.
- DMX Dimming: Each D4-P/D4-E DMX decoder occupy 4 DMX address when connecting the DMX console. For example, the defaulted start address is 1, their corresponding relationship in the form:



DMX mode
(001 ~ 512)

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)
CH4 0-255	CH4 PWM 0-100% (LED W)

Self-test mode

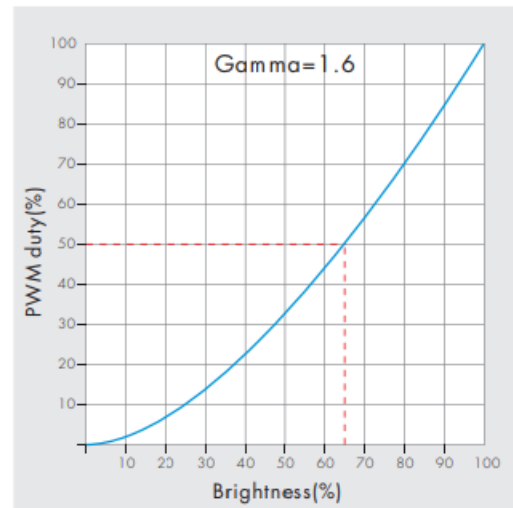
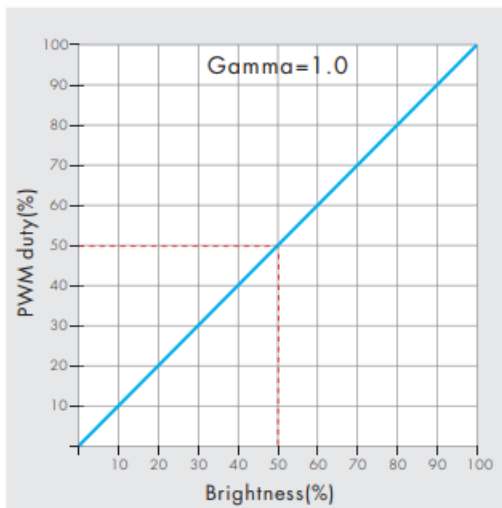
- Enter self-test mode only when DMX signal is disconnected or lost.
- Short press M key, when display L-1~L-5, enter self-test mode.
- Press ◀ or ▶ key to change mode number(L-1L-5).
- Self-test mode include four channel light up separately or synchronously.



Self-test mode
(L-1 ~ L-5)

Dimming curve setting


- Linear dimming curve
- Logarithmic dimming curve



Malfunctions analysis & troubleshooting

Malfunctions	Causes	Troubleshooting
No light	<ol style="list-style-type: none"> 1. No power. 2. Wrong connection or insecure. 	<ol style="list-style-type: none"> 1. Check the power. 2. Check the connection.
Wrong color	<ol style="list-style-type: none"> 1. Wrong connection of R/G/B/W wires. 2. DMX decode address error. 	<ol style="list-style-type: none"> 1. Reconnect R/G/B/W wires. 2. Set correct decode address.
Uneven intensity between front and rear, with voltage drop	<ol style="list-style-type: none"> 1. Output cable is too long. 2. Wire diameter is too small. 3. Overload beyond power supply capability. 4. Overload beyond controller capability. 	<ol style="list-style-type: none"> 1. Reduce cable or loop supply. 2. Change wider wire. 3. Replace higher power supply. 4. Add power repeater.

Documents / Resources

	<p>SKYDANCE D4-P 4 Channel Constant Voltage DMX512 & RDM Decoder [pdf] Instruction Manual</p> <p>D4-P, D4-E, 4 Channel Constant Voltage DMX512 RDM Decoder, Voltage DMX512 RDM Decoder, DMX512 RDM Decoder, RDM Decoder, D4-P, Decoder</p>
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