

XD-4B700

Constant Current DMX Decoder

Product Features

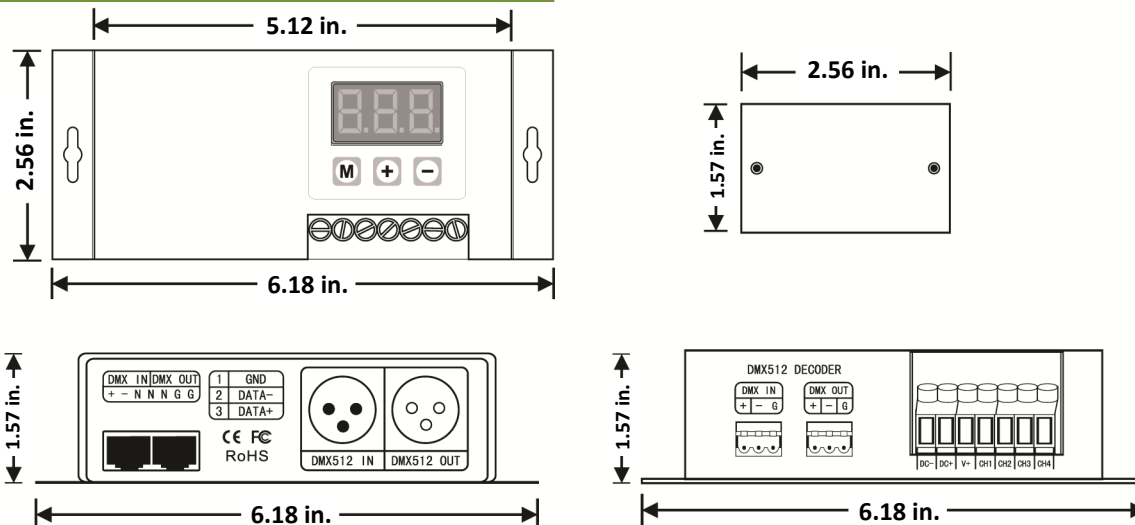
- Meets DMX512(1990) International Standard.
- Set DMX address with DIP Switches.
- Input voltage 12-24VDC.
- 4-Channel, 256 grey level changes each channel.
- Logarithmic dimming, no flicker.
- 8 color change modes and 10-level speed adjustment.
- Power off memory.

Product Specifications

- Input Voltage Range 12-48VDC
- Input Signal DMX512/1990
- Output Signal Constant Current PWM
- Max. Output Current 700 mA per channel
- Max. Output Power 12V: 1-3pcs 3W LEDs; 24V: 1-6pcs 3W LEDs; 36V: 1-9pcs 3W LEDs; 48V: 1-12pcs 3W LEDs
- Channels 4
- DMX Connection XLR-3R, RJ34, Terminal Block
- Product Dimensions L 6.18 x W 2.56 x H 1.57 (inch)
- Weights 1 lb



Dimensions



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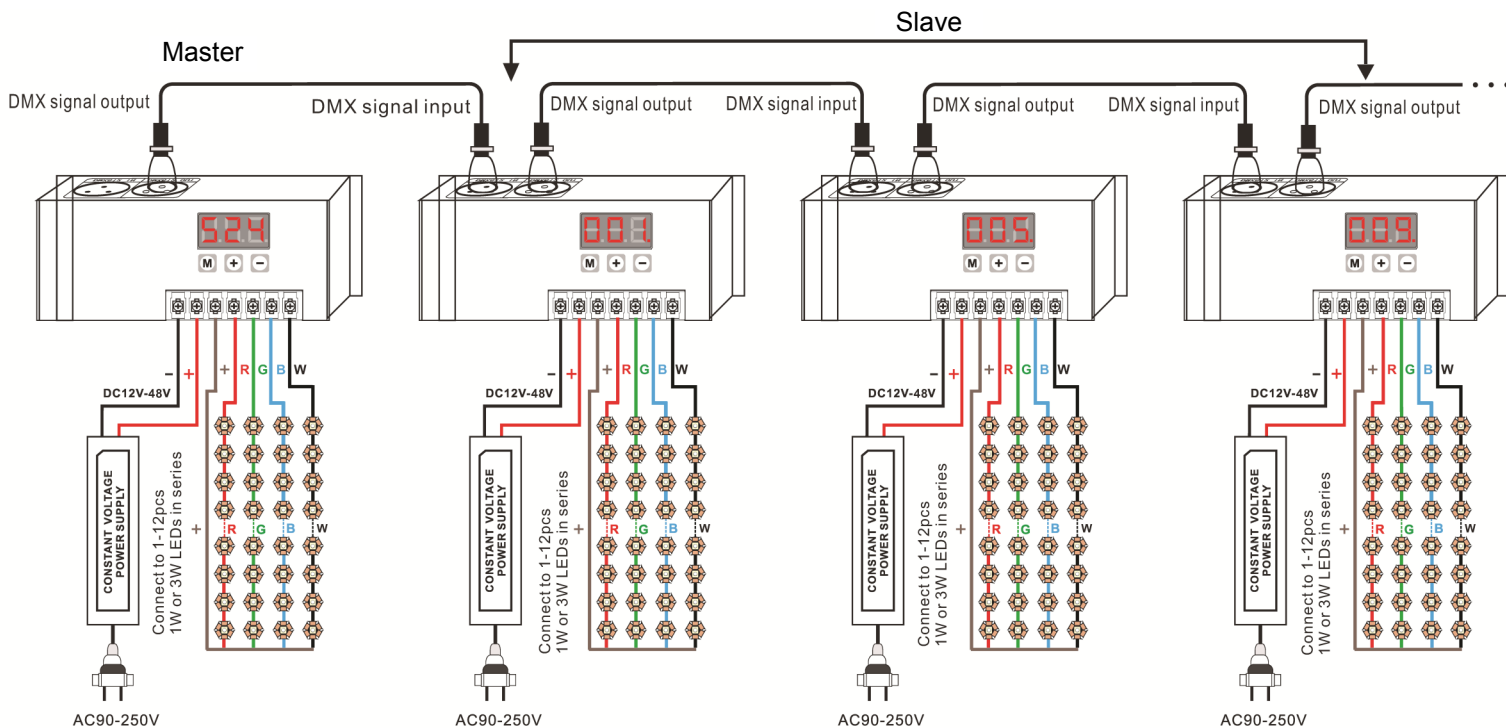
Safety Warnings

1. Please read the instructions carefully before use.
2. Do not install this driver near thunder fields or high voltage lines or strong magnetic fields.
3. Check and ensure all wiring connections are correct and to avoid a short circuit prior to damage driver or cause fire.
4. Installation should be in a well ventilated area. Not rated for wet or damp locations.
5. 12-24VDC constant voltage power supply is required. Please make sure the power supply is correct before installation.
6. Do not install this driver with the power on. After installation, please check all connections and make sure there is not short circuit before power on.
7. Do not try to repair it by yourself. If you have any question, please contact the vendor.

Typical Layouts

- Connection diagram of the DMX signal input master mode:

Note: Only 1 decoder can be used as a master decoder.

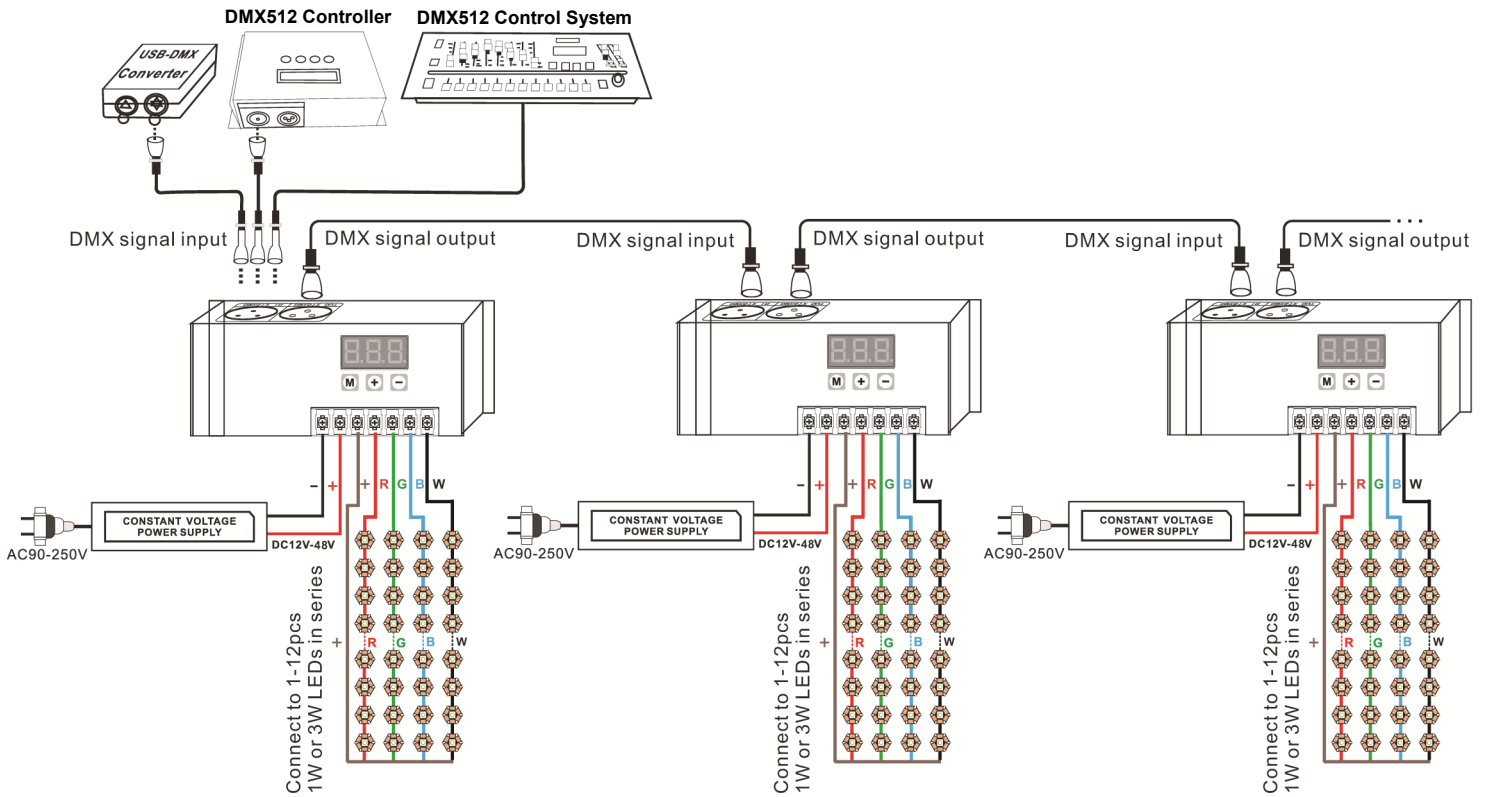


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Typical Layouts (Cont.)

- Connection diagram of the DMX signal input slave mode:



Operating Instructions

3 Touch buttons: M, +, -

M	Select display digit
+	Increase
-	Decrease

- The 3 LED display indicates DMX addresses (000 to 512) or preprogrammed modes (600 to 999).
- The display turns off after 1 minute of no activity. Press any key to re-activate.

Note:

The decoder has an automatic key lock. If no setting changes are made to the decoder, the key lock function is automatically activated after approximately 15 seconds. Pressing the “M” button for about 2 seconds will deactivate the key lock.

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Figure 1

Operating Instructions (Cont.)

- DMX Slave Mode:**

When this converter receives a normal DMX512 signal, the decimal point at the last digit will be flashing regularly, otherwise, the decimal point will not light up, and the digital display only shows the current DMX address, for example, when the converter receives some wrong DMX512 signal or was shorted, the decimal point will not light up, and the digital display only shows the current DMX address. But when the problem has been fixed, the converter will work as normal (See figure 1 on right).

A Table of Modes

000	Set all channels to 100%	520-529	Red, orange, yellow, green, cyan, blue, purple (Fading Mode)
001-512	Set DMX address	530-539	White, purple, red, orange, yellow, green, cyan, blue (Fading Mode)
513	Red	540-549	Orange, red, yellow (Fading Mode)
514	Green	550-559	Green, purple (Fading Mode)
515	Blue	560-569	Blue, cyan (Fading Mode)
516	Purple	570-579	Green, yellow (Fading Mode)
517	Cyan	580-589	All 4 channels make a pulsating move from 1% to 100% (Fading Mode)
518	Yellow	590-599	Strobe all 4 channels from 0% to 100% (Jumping Mode)
519	Orange	600-699	Set dimming at channel R from 0%-99%
		700-799	Set dimming at channel G from 0%-99%
		800-899	Set dimming at channel B from 0%-99%
		900-999	Set dimming at channel W from 0%-99%



Mode

Speed

Figure 2

Note: 520-599: The first two digits represent mode, and the last digit represent speed. There are 10 level speed change, 0 means the fastest speed, and 9 means the slowest speed (See figure 2 on left).

- Speed for Program 520-589 (Color Changing Fading Mode) for one step and not for the entire program:

0=0, 5 sec.	1=1 sec.	2=2 sec.	3=3 sec.	4=5 sec.	5=10 sec.	6=15 sec.	7=30 sec.	8=60 sec.	9=120 sec.
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- Speed for Program 590 - 599 (One step and not for the entire program):

0=0.02 sec.	1=0.04 sec.	2=0.1 sec.	3=0.2 sec.	4=0.5 sec.	5=1 sec.	6=2 sec.	7=5 sec.	8=10 sec.	9=15 sec.
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DMX to 0-10V
Converter

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Troubleshooting Guides

Problem	Reason	Solution
No Light (s)	No power	Check power supply and wiring
	Reversed polarity	Check wiring
	Signal terminal not connected or reversed	Check wiring
	Long circuit	Add DMX signal terminator or use amplifier
Wrong color (s)	Wrong RGB wiring	Check wiring
	Wrong decoder address entered	Enter the correct address
1 or more colors are lit, but no change	Signal terminator has wrong connection or reversed	Check wiring
	Long circuit	Add DMX signal terminator or use amplifier
Abnormal flickering	Signal terminator has wrong connection	Check wiring
	Long circuit	Add DMX signal transmitter or use amplifier