## XD-TA03A

## RGB DMX Decoder

## Product Features

- Meets DMX512(1990) International Standard.
- Set DMX address with DIP Switches.
- Input voltage 12-24VDC.
- 24-Channel output, 256 grey level changes each channel with full-color control.
- 8-Level speed adjustment.
- 10 color change modes.


## Product Specifications

- Input Voltage Range

12-24VDC

- Input Signal
- Output Signal
- Max. Load Current
- Max. Output Power
- Channels

DMX512/1990
24-Channel Constant Voltage PWM
3A per Channel
860W @12V; 1,720W @24V
24
L $10.24 \times$ W $4.33 \times \mathrm{H} 1.57$ (inch)
2.03 lbs

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: DMX512 Decoder connects to DMX System.

Note: In order to ensure an accurate and stable signal transmission when using the DMX512 protocol, a 90-120 21/4 W small metal film terminal resistors has to be welded between the pin \#2 and pin \#3 at the end of each DMX signal wire. The resistance will refer to the specifications of DMX dimming system.


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## Operating Instructions

## - Set DMX DIP address:

Each decoder occupies 3 DMX DIP addresses and uses a switch to set addresses.
Switch 1 to 9 set DMX512 initial address code by binary values. Switch 1 is the lowest position, the Switch 9 is the highest position. Each switch has top and bottom position. The switch at top position means the value of this switch is "0" (OFF), and the switch at bottom position means the value of this switch is "1" (ON). There are total of 511 address codes available.
DMX512 initial address code = the sum of the value from switch 1 to 9.




12345678910
1 ON $\downarrow$


Example 1, DMX512 initial address code 37 means that the value of switch 1, 3 and 6 is " 1 ", and the value of the rest of switches is " 0 ", so the total value of the switches is $1+4+32=37$.

Example 2, DMX512 initial address code 328 means that the value of switch 4, 7 and 9 is "1", and the value of the rest of switches is " 0 ", so the total value of the switches is $8+44+256=328$.

Note: Switch 10 (FUN) has to set to " 0 " to receive DMX512 signals.

## - Color Change Function:

Switch 10 (FUN) is color change function switch.
Switch $10=$ " 0 " (OFF) , the decoder starts to receive DMX512 signals;
Switch $10=$ " 1 " (ON), the decoder starts up the color change. Please see below table for details.

| Colors | Switch 1 | Switch 2 | Switch $\mathbf{3}$ | Switch 4 | Switch $\mathbf{5}$ | Switch $\mathbf{6}$ | Switch 7 | Switch $\mathbf{8}$ | Switch $\mathbf{9}$ | Switch $\mathbf{1 0}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Black | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | ON |
| Red | ON | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | ON |
| Green | OFF | ON | OFF | OFF | OFF | OFF | OFF | OFF | OFF | ON |
| Blue | OFF | OFF | ON | OFF | OFF | OFF | OFF | OFF | OFF | ON |
| Yellow | OFF | OFF | OFF | ON | OFF | OFF | OFF | OFF | OFF | ON |
| Purple | OFF | OFF | OFF | OFF | ON | OFF | OFF | OFF | OFF | ON |
| Cyan | OFF | OFF | OFF | OFF | OFF | ON | OFF | OFF | OFF | ON |
| White | OFF | OFF | OFF | OFF | OFF | OFF | ON | OFF | OFF | ON |
| 7-Color Jump | OFF | OFF | OFF | OFF | OFF | OFF | OFF | ON | OFF | ON |
| Full-Color Fading | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | ON | ON |

COLORS AND LIGHTS UNDER YOUR CONTROL

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## Troubleshooting Guides

| Problem | Reason | Solution |
| :---: | :--- | :--- |
|  | 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 |
|  | Signal terminator has wrong connection or reversed | Check wiring |
| but change | 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 |

