If-used-in-accordance-with-these instructions- we-provide-a-free-repair-or replacementservice-up-to-three-years-from the-day-of-purchase-if-a-fault-should-occur with-the-unitexcept-for-the-following cases-

- 1. Any-defects-caused-by-incorrect operation-
- 2. Any-damage-caused-by-inappropriate power-supply-or-abnormal-voltage-
- 3- Any-damage-caused-by-unauthorized removal- maintenance- modification-of-the circuit- ----incorrect connection and repair e.g. replacement of ICs.
- 4. Any-damage-due-to-transportation-incorrect-handling-or-water-after-purchase-
- 5- Any-damages-cause-by-earthquake- fire- flood- lightning-strike- force-majeure-of naturaldisasters eto
- 6- Any-damage-caused-by-negligence- inappropriate-storage-at-high-or-low temperatures- humid environment or near harmful chemicals

9、Important reminder

Power-Source-Selection

The power source s must be DC constant voltage type power supplies Because some power-supplies are only 80- efficient- we highly recommend that you use a power-supplyrated-at least-20- higher-than-the-total-load-

DMX512 Constant Voltage Decoder User•Manual





24CH RGB DMX decoding driver converts a DMX512/1990 input to PWM output with 256 different levels output per channel. With improved firmware, it provides flicker free and smoother dimming.

2. Specifications

Model	24CH Decoder	
Input voltage	DC5V-24V	
Max load current	3A/CH×24	
Max output power	360W(5V)860W(12V)/1720W(24V)	
Output Scale level	256 levels	
Input signal	DMX512/1990	
Output DMX Channel	24Ch CV PWM	
Dimension	L145×W98×H30(mm)	
Weight (G.W)	500g	

3. Basic Features

- 1.24 output channels, 3A per channel arranged in groups of three (ideal for RGB LEDs).
- 2.0 100% smooth brightness control, 256 steps per channel.
- 3. Universal standard DMX512 input protocol; addresses can be set by DIP switch,
- 4. Working voltage from DC 5V 24V.
- 5. 10 built-in programs, 8 speeds.
- 6, Power loss memory function,



DMX512 Constant Voltage Decoder

DMX512 Constant Voltage Decoder

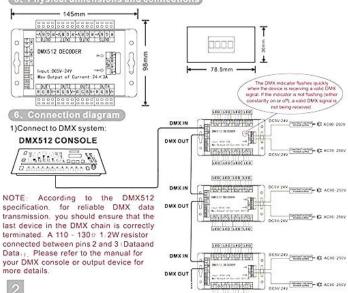
Please do not install this controller in areas subject to lightning, intense magnetic fields and

- 1. To reduce the risk of component damage and fire caused by short circuits, ensure that all connections are made correctly, securely and use suitably rated cable
- 2. Ensure that the unit is mounted in an area that will allow proper ventilation so that the unit does not overheat

 3. Ensure that the power supply or supplies are correctly rated; regulated 5V – 24V DC and
- able to supply a suitable current
- 4. Do not connect or disconnect cables with power applied. Check to ensure that there are no short circuits before applying power,
- 5. Do not open the unit if problems occur.

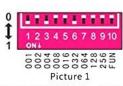
This manual is only suitable for this model; the specification or operation is subject to change without prior notice.

5. Physical dimensions and connections



[10] [10] [10] [10]

1) Decoder address setting DIP switch 10 is the FUNCTION (FUN) switch, When FUN is OFF (up), DMX input is used.



The decoder occupies 24 consecutive DMX channels, set by DIP switches 1 - 9. The switches have a binary 'weighting' (shown in the picture) and set the DMX start channel, A switch is ON when it is in the downward position and OFF when it is in the upward position.

Please note that DMX input is only received and used when the FUN switch is OFF (up),

Example: DMX start channel 37 Set switches 1, 3 and 6 ON (down) and all others to OFF (up) (picture 1), the sum of the binary weightings is: 1 + 4 + 32 = 37, so the decoder will respond to DMX channels 37 through to 60

2) Instructions for built-in programs:

The built-in programs can be used for testing of the unit or for basic displays. Built-in program mode operates when the FUN switch (DIP switch 10) is ON (down) as shown in picture 2.

SWITCH 1-9=OFF	Black
SWITCH 1=ON	Red
SWITCH 2=ON	Green
SWITCH 3=ON	Blue
SWITCH 4=ON	Yellow
SWITCH 5=ON	Purple
SWITCH 6=ON	Cyan
SWITCH 7=ON	White
SWITCH 8=ON	7 Color jumping
SWITCH 9=ON	7 Color smooth



Color jumping and color smooth built-in programs operate when DIP switches 8 and 9 are in the ON (down) position respectively. 8 speeds are available for each

SPEED 0	
SPEED 1	
SPEED 2	
SPEED 3	
SPEED 4	
SPEED 5	
SPEED 6	
SPEED 7(the fastest speed)	
	SPEED 1 SPEED 2 SPEED 3 SPEED 4 SPEED 5 SPEED 6

When multiple speed DIP switches are ON (down) at the same time, the fastest selected speed is used.