

DMX512 Signal Decoder User Manual



(Please read through this manual carefully before use)

1. Brief Introduction

The DMX512 Signal Decoder adopted the advanced decoding technology to convert the international standard DMX512/1990 signal into standard LPD6803/LPD8806/TM1809/P9813/TLS3001/WS2801/TM1814/SK6812 signals, each decoder has 96/510 DMX output channels, and the output channels can be expanded by adding decoders, therefore, most of LED lights can be controlled by DMX512/1990 protocol via the signal conversion, then widely used pixel light, digital tube light, floodlight, pixel screen, dancing floor light etc.

2. Specifications

Model	6803	8806	1809	9813
Input Voltage	DC5V-DC24V			
Input Signal	DMX512/1990			
Output Signal	LPD6803	LPD8806	TM1809	P9813
Decode Channel	510	510	510	510
Control LED QTY	170	170	170	170
Control Chip model	LPD6803 LPD1101 D705 UCS6909 UCS6912	LPD8803 LPD8806 LPD8809 LPD8812	TM1803, TM1804 TM1809, TM1812 UCS1903, UCS1909 UCS1912, UCS2903 WS2811, WS2812B UCS2912	P9813
DMX Socket	Standard XLR-3, RJ45 port			
Size (mm)	L125×W52×H40(mm)			
Weight	320g			

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Model	3001	2801	1814	6812
Input Voltage	DC5V-DC24V			
Input Signal	DMX512/1990			
Output Signal	TLS3001	WS2801	TM1814	SK6812
Decode Channel	510	510	512	512
Control LED QTY	170	170	128	128
Control Chip model	TLS3001 TLS3002	WS2801 WS2803	TM1814	SK6812 UCS2904
DMX Socket	Standard XLR-3, RJ45 port			
Size (mm)	L125×W52×H40(mm)			
Weight	320g			

3. Basic Features

1. In put standard DMX512 protocol. Address can be set by DIP.
2. Automatically adapt input voltage DC5V-24V.
3. Self-Changing Mode exist.
4. Output TTL Signal.
5. Power loss memory function.

4. Safety warnings

- Please don't install this controller in lightning, intense magnetic and high-voltage fields.
1. To reduce the risk of component damage and fire caused by short circuit, make sure correct connection.
 2. Always be sure to mount this unit in an area that will allow proper ventilation to ensure a fitting temperature.
 3. Check if the voltage and power adapter suit the controller (please select DC12-24V power supply with constant voltage)
 4. Don't connect cables with power on; make sure a correct connection and no short circuit checked with instrument before power on.
 5. Please don't open controller cover and operate if problems occur. The manual is only suitable for this model; any update is subject to change without prior notice.
 6. More than 32 DMX decoders need to be connected a signal amplifier, and the signal amplification cannot exceed 5 times consecutively.
 7. When the signal line is long or the wire quality causes the signal recoil effect to affect the use of product, you can try to connect 0.25W 90-120Ω terminating resistor at the end of each signal line to solve.

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5. Interfaces

