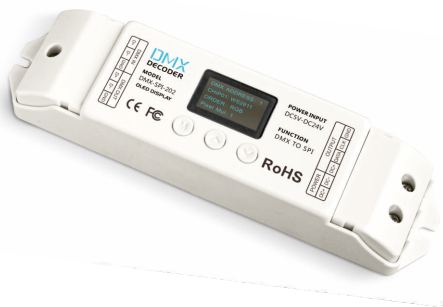


# DMX-SPI-202 LED Controller



DMX-SPI decoder converts the universal standard DMX512 signal into SPI(TTL) digital signal and controls most of the pixel LED lights in the market. DMX digital console can control every channel of the LED lights, realizing 0~100% dimming or defining all sorts of changing effects.

DMX-SPI-202 decoder has display screen, so it's very easy to choose IC type, RGB order etc. built-in 16 changing modes. Also can be used independently as a simple SPI controller.

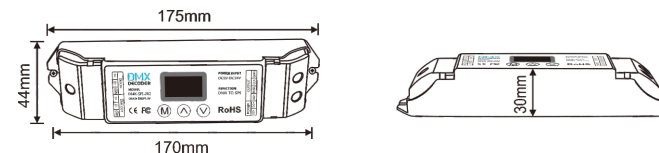
DMX-SPI-202 adds in the awesome function: using the same 512CH DMX master controller, if connected with DMX-SPI-202, by the virtual pixel choosing function, 32 times as the LED lights could be controlled, 1pcs of DMX-SPI-202 can control Max. 5440 pixels, which can only be achieved by 32 DMX master controller and 32 traditional DMX-SPI decoder in the past.

## 1. Product Parameter:

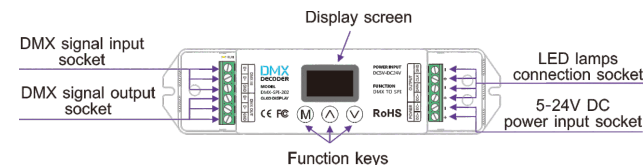
### DMX-SPI-202

- |                                  |   |
|----------------------------------|---|
| • Input Voltage: 5~24V DC        | • Virtual Pixel: 1-32 times, Max 5440 pixel |
| • Power Consumption: 1W          | • Working Temp.: -30°C ~ 55°C               |
| • Input Signal: DMX512           | • Dimensions: L175×W44×H30(mm)              |
| • Output Signal: SPI(TTL)        | • Package Size: L178×W48×H33(mm)            |
| • Changing Mode: 16              | • Weight(G.W.): 140g                        |
| • Control Qty: 170 Pixels(512CH) |   |

## 2. Product Dimension:



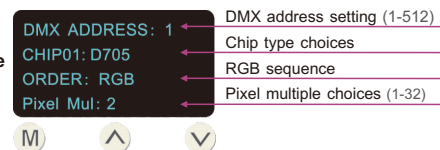
## 3. Terminal Description:



## 4. Display Screen Interface Description:

Short press **M** to enter the DMX setting interface;  
Long press **M** to enter self-testing interface.

### DMX Setting Interface



Short press **M** to switch entries; press **▲** or **▼** to adjust parameters.

### Self-testing Interface

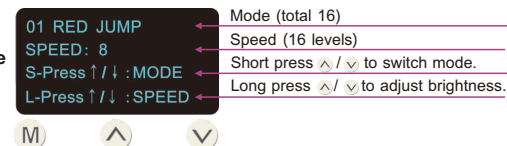


Table of Changing Modes

No.	Effect	No.	Effect	No.	Effect	No.	Effect
1	Red jumping	2	Green jumping	3	Blue jumping	4	White smooth
5	7 color jumping	6	7 color smooth	7	White meteor	8	7 color meteor
9	7 color flow	10	7 color float	11	Red/White float	12	Green/White float
13	Blue/White float	14	Yellow/White float	15	Purple/White float	16	Cyan/White float

## 5. Wiring Diagram:

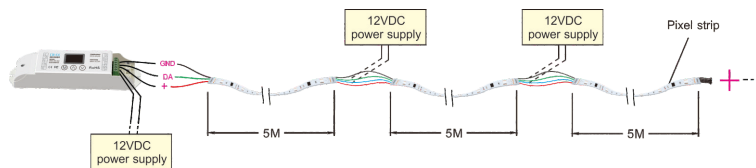
Wiring Method	Signal Cable	Compatible ICs
	Two cables DATA CLK	LPD6803, LPD1101, D705, UCS6909, UCS6912, LPD8803, LPD8806, WS2801, WS2803, P9813.
	Single cable DATA	TM1803, TM1804, TM1809, TM1812, UCS1903, UCS1909, UCS1912, UCS2903, UCS2909, UCS2912, WS2811, WS2812, TLS3001, TLS3002.

5.1 DMX-SPI-202 as master console: 5.2 Connection with DMX console:

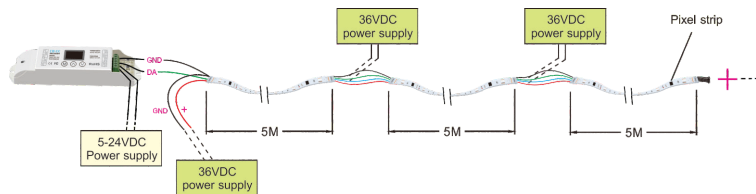


5.3 LED pixel strip wiring diagram:

a. Conventional connection method.



b. Light fixtures and controller using different operating voltages.



5.4 Connected with DMX computer console to realize decoder function:

