

DMX TO SPI DECODER



CODE		
BL-PC-DMXSPI202		

INPUT	OUTPUT	VOLTS
DMX to SPI signal	170 pixels maximum	5-24V DC Constant Voltage

OPERATING TEMP.	-30°C ~ +65°C
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INGRESS PROTECTION	Indoor use only
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CONNECTION METHOD	Screw terminals
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CONTROL	DMX512 Input signal
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DIMENSIONS	W44 × L175 × H30mm
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HOUSING	Plastic
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MOUNTING	Screw mounting holes
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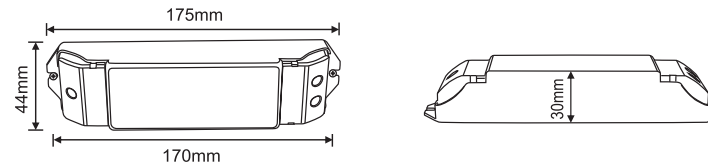
WARRANTY	5 years
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COMPLIANCE	
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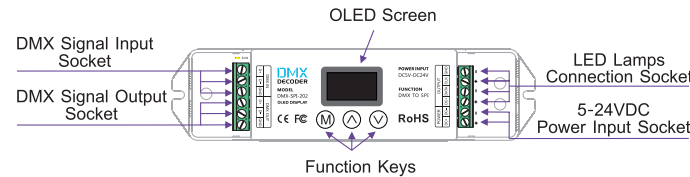
DMX-SPI-202 controls LED with the following compatible ICs: LPD6803, LPD1101, D705, UCS6909, UCS6912, LPD8803, LPD8806, TM1803, TM1804, TM1809, TM1812, UCS1903, UCS1909, UCS1912, UCS2903, UCS2909, UCS2912, TLS3001, TLS3002, WS2801, WS2803, WS2811, WS2812, P9813.

Supporting international standard protocol DMX512/1990 interface, with DMX administration mode to invoke the built-in functions for choosing mode, speed, brightness, types and direction changing by DMX512 console. Furthermore, it has the DMX decode mode, customers could use DMX512 console to program & control every channel of the LEDs with the compatible ICs listed above. 0-100% dimming range, program any lighting effect required.

2. Product Dimension:



3. Terminal Description:



4. OLED Screen Interface Diagram:

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

DMX ADDRESS: 1	DMX Address Setting (1-512)
CHIP01: D705	Chip Type Choices
ORDER: RGB	RGB Sequence
Pixel Mul: 2	Pixel Multiple Choices(1-32)

DMX Setting Interface

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

01 RED JUMP	Mode (total 16)
SPEED: 8	Speed (16 levels)
S-Press ↑/↓ : MODE	Short press ▲ / ▼ to switch mode.
L-Press ↑/↓ : SPEED	Long press ▲ / ▼ to adjust brightness.

Self-testing interface

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:

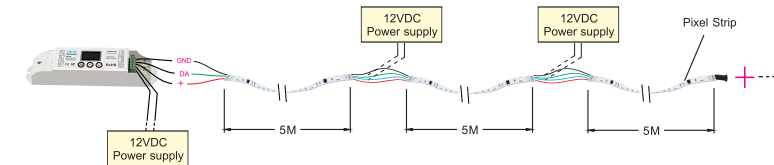
Wiring Method	Signal Cable	Compatible ICs
	Two cables DATA CLK	LPD6803, LPD1101, D705, UCS6909, UCS6912, LPD8803, LPD8806, WS2801, WS2803, P9813.
	Single cable DATA	TM1803, TM1804, TM1809, TM1812, UCS1903, UCS1909, UCS1912, UCS2903, UCS2909, UCS2912, WS2811, WS2812, TLS3001, TLS3002.

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

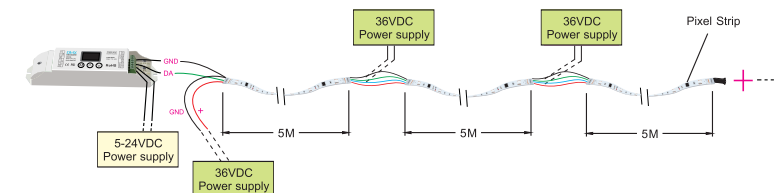


5.3 LED pixel strip wiring diagram:

a. Conventional connection method.



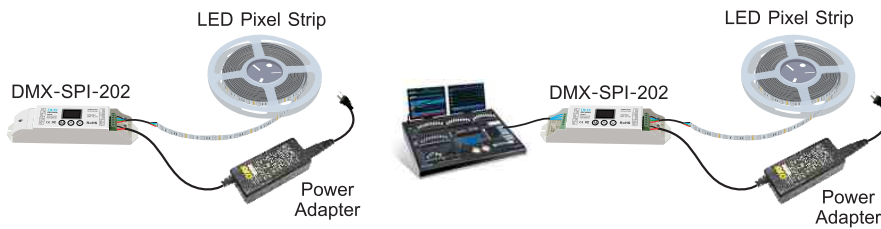
b. Light fixtures and controller using different operating voltages.



5. Wiring Diagram:

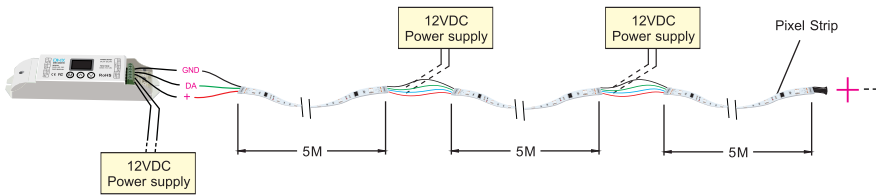
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5.1 DMX-SPI-202 as master console: 5.2 Connection with DMX console:

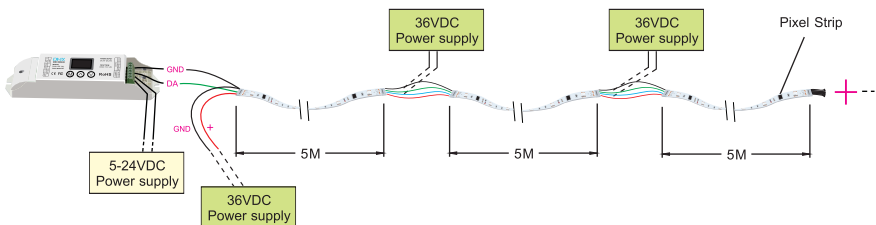


5.3 LED pixel strip wiring diagram:

a. Conventional connection method.



b. Light fixtures and controller using different operating voltages.



5.4 Connected with DMX computer console to realize decoder function:

