



# luminii SR-DMX-SPI Smart Pixel LineLED Decoder Instruction Manual

[Home](#) » [luminii](#) » luminii SR-DMX-SPI Smart Pixel LineLED Decoder Instruction Manual 



Installation Instructions – Smart Pixel LineLED Decoder  
Models SR-DMX-SPI

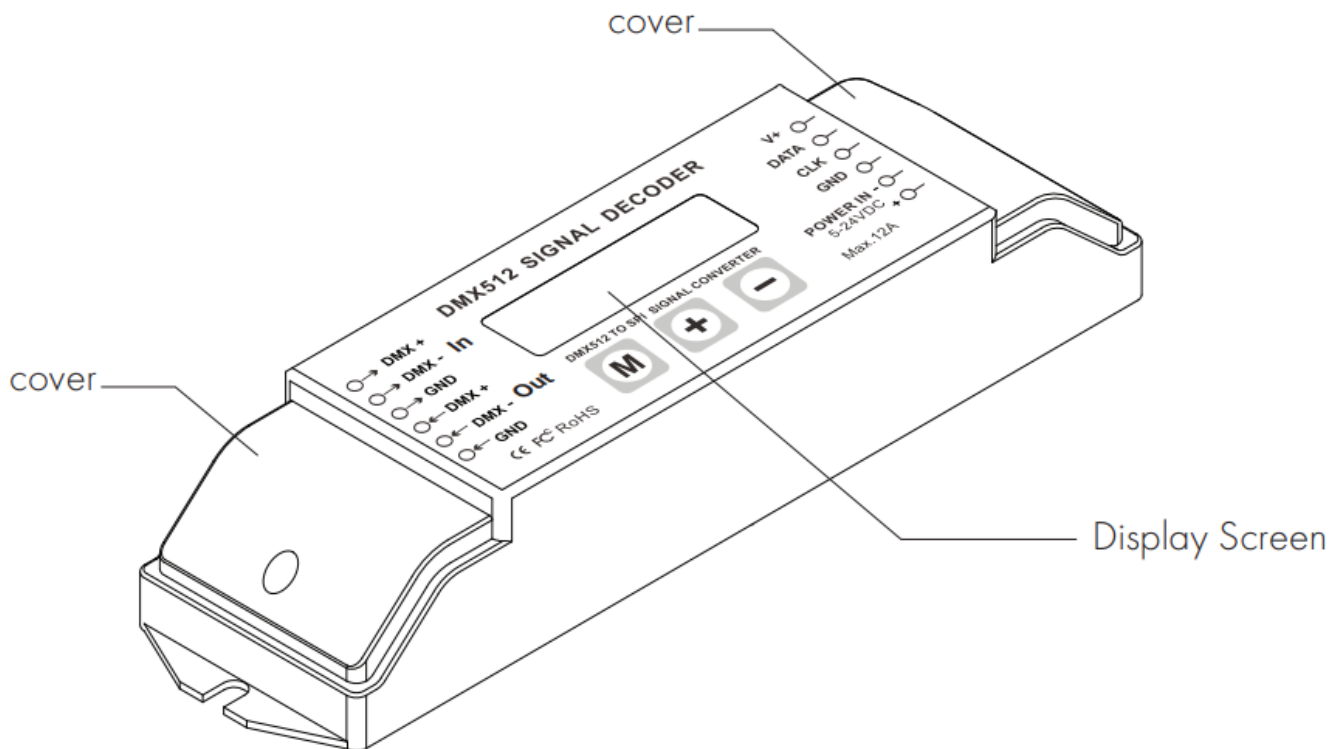
## Contents

- [1 SR-DMX-SPI Smart Pixel LineLED Decoder](#)
- [2 OPERATING GUIDE](#)
- [3 MODE TABLE](#)
- [4 PROGRAM TABLE](#)
- [5 Documents / Resources](#)
  - [5.1 References](#)
- [6 Related Posts](#)

## SR-DMX-SPI Smart Pixel LineLED Decoder

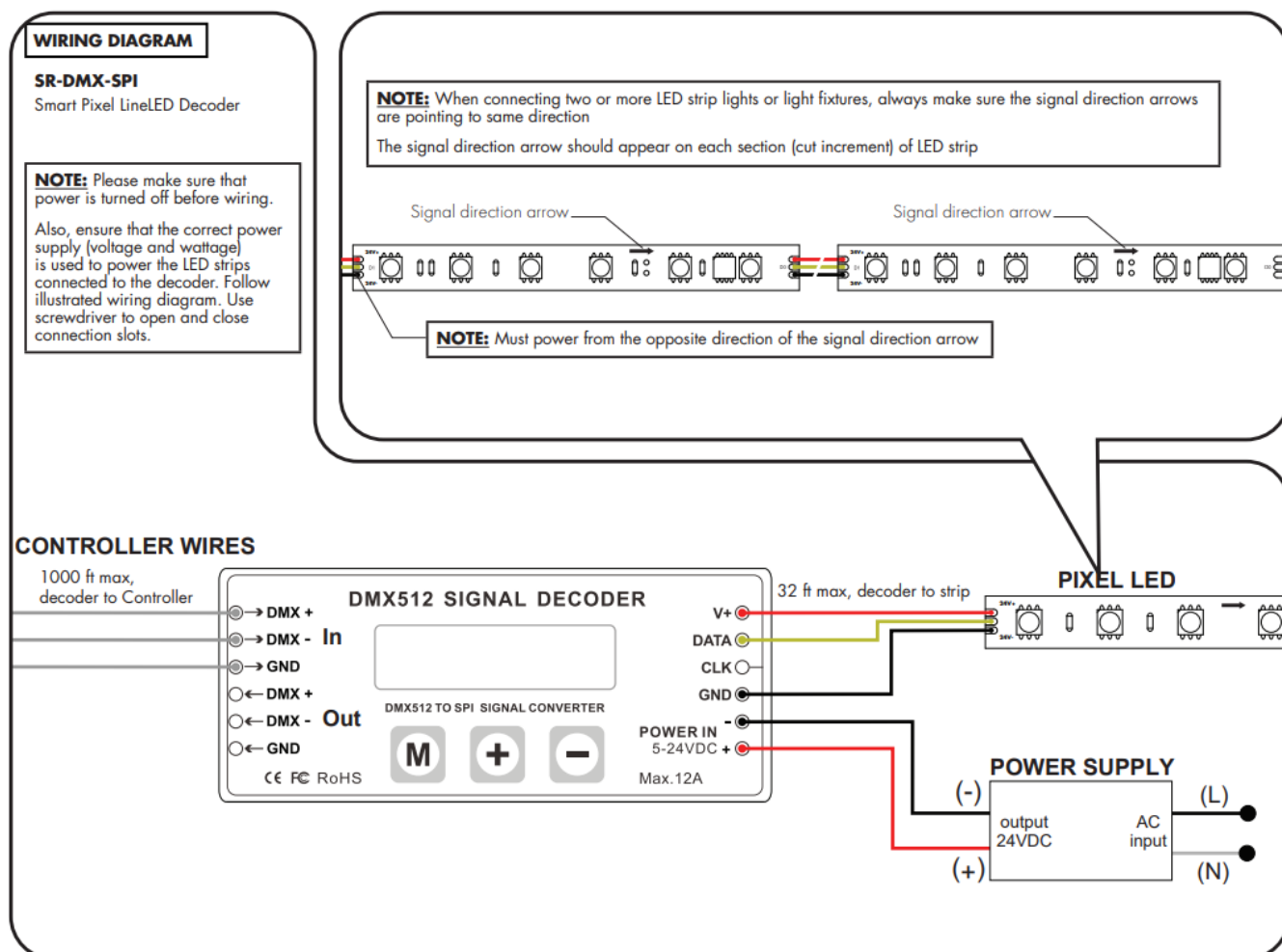
**Please read all instructions prior to installation and keep for future reference!**

1. ENSURE POWER TO POWER SUPPLY IS OFF BEFORE INSTALLING
2. PRODUCT TO BE INSTALLED BY A QUALIFIED ELECTRICIAN.
3. USE ONLY WITH CLASS 2 POWER UNIT



Prior to installing determine the location, which requires a minimum of 2" clearance around the decoder to provide proper air circulation.

Remove covers on both sides of Smart Pixel LineLED decoder by using a small screwdriver. Store covers and their fasteners until decoder setup is complete and functioning properly and then re-install them.



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## OPERATING GUIDE

### SR-DMX-SPI

DMX512 Pixel Signal Decoder

There are three buttons on the decoder.

	Parameter Setting		Increase Value		Decrease Value
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After operation, if no action was taken within 30s, the button lock, and backlight of the screen will turn off.

1. Long press M button for 5s to unlock the buttons, and the backlight will turn on.
2. Long press M button for 5s to switch between test mode and decode mode after unlocked.  
During test mode, the first line of LCD will show: TEST MODE. Use test mode to verify RGBW Pixel functionality.  
During decoder mode, the first line of LCD shows: DECODER MODE. Use decoder mode when connecting to a Controller and for final installation and customization.

**NOTE:** When connected to a controller, DMX512 Signal Decoder will stay in “Decoder Mode”.  
The second line of the LCD Display shows the current setting and value. Note: 1 Pixel = 1 Cut Increment

## MODE TABLE

SETTING	LCD DISPLAY	VALUE RANGE	DESCRIPTION
Built-in Programs	TEST MODE MODE NO.:	1-26	See Program Table below
Program Speed	TEST MODE RUN SPEED:	0-7	0: fast, 7: slow
DMX Address	DECODER MODE DMX ADDRESS:	1-512	Address of the starting point/Pixel of a program

DMX Signal RGB	DEE)C01:ARBAOSE MX	RGB, BGR, etc.	N/A
Pixel Quantity	DECODER MODE PIXEL QTY:	1-170(RGB), 1-1 28(RGBW)	Number of Pixels to follow a program
IC TYPE	DECODER MODE IC TYPE:	2903, 8903, 2904, 8904	2903: N/A, 2904: for RGBW, 8903: N/A, 8904: N/A
Color	DECODER MODE COLOR:	MONO, DUAL, RGB, RGBW	MONO: N/A, DUAL: N/A, RGB: N/A, RGBW: for RGBW
Pixel Merging / Pixel Size	DECODER MODE PIXEL MERGE:	1-100	Number of Pixels to merge together
RGB Sequence	DECODER MODE LED RGB SEQ:	RGBW, BGRW etc.	Sequence of RUM, 24 possible combinations
Integral Control	DECODER MODE ALL CONTROL:	YES, NO	Yes: Merge all Pixels No: Maintain individual Pixels or Merged Pixels
Reverse Control	DECODER MODE REV-CONTROL:	YES, NO	Reverse program order
Overall Brightness	DECODER MODE BRIGHTNESS:	1-100	1: dimmest setting 100: brightest setting

**NOTE:**

The actual maximum control pixels of the controller are 1360 (2903) ,1024 (2904). Please set the pixel and pixel combination value according to the actual situation, and DO NOT exceed the maximum.

**NOTE:** For Program Table Change: no fading/dimming between color changes Fade: fade/dim between color changes Chase: change pixel by pixel Chase with Trail: change pixel by pixel with fading between

**PROGRAM TABLE**

PROGRAM NO.	PROGRAM DESCRIPTION	PROGRAM NO.	PROGRAM DESCRIPTION	PROGRAM NO.	PROGRAM DESCRIPTION
1	Solid color: Red	10	RGB fading	19	Red chasing green, chasing blue
2	Solid color: Green	11	Full color fading	20	Orange chasing purple, chasing cyan
3	Solid color: Blue	12	Red chase with trail		
4	Solid color: Yellow	13	Green chase with trail	21	Rainbow chase (7 colors)
5	Solid color: Purple	14	Blue chase with trail	22	Random twinkle: white over red
6	Solid color: Cyan	15	White chase with trail	23	Random twinkle: white over green
7	Solid color: White	16	RGB chase with trail	24	Random twinkle: white over blue
8	RGB change	17	Rainbow chase with trail	25	White fading
9	Full color change	18	RGB chasing and fading	26	Off

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7777 Merrimac Ave

Niles, IL 60714

T 224.333.6033

F 224.757.7557

[info@luminii.com](mailto:info@luminii.com)

[www.luminii.com](http://www.luminii.com)

## Documents / Resources

	<p><a href="#">luminii SR-DMX-SPI Smart Pixel LineLED Decoder</a> [pdf] Instruction Manual  SR-DMX-SPI Smart Pixel LineLED Decoder, SR-DMX-SPI, Smart Pixel LineLED Decoder, Pixel LineLED Decoder, LineLED Decoder, Decoder</p>
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## References

- [Home - Luminii](#)

