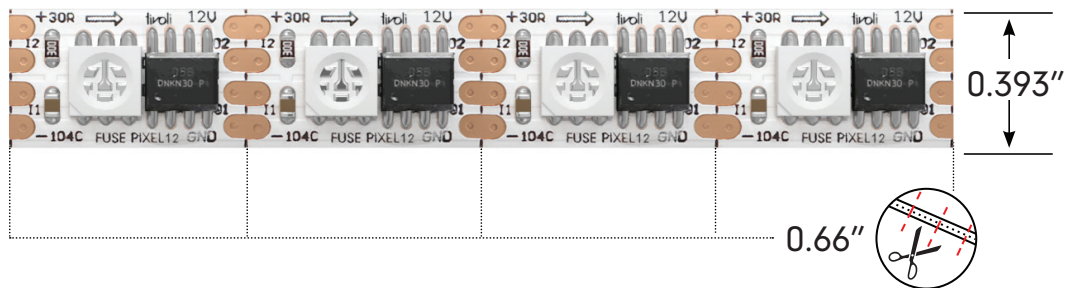


Project: \_\_\_\_\_ TYPE: \_\_\_\_\_

- 3 Channel system
- Addressable LED pixels, suitable for stage, entertainment and architectural applications
- 18 LEDs per foot
- 18 Pixels per foot
- 0.66" Cutting increments
- 3M VHB double sided tape on the back
- Small pitch LED
- 1 pixel per LED for high resolution color changing effect, suitable for media display
- 12VDC input voltage
- Includes Tivoli's eXo shield coating
- Factory soldered lead wire
- Standard IP54 damp rated and IP67 wet location available
- Multiple mounting channel options
- Low lead times
- 5 Year warranty

Dimensions



## Order Specification Guide

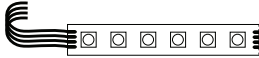
PRODUCT CODE	VERSION	INSTALL	LED TYPE	VOLTAGE
<b>TPLFS</b>	<b>PX</b>	<b>I</b>	<b>RGB</b>	<b>12</b>
<b>TPLFS</b> = Fuse Tape	<b>PX</b> = Pixel	<b>I</b> = Indoor	<b>RGB</b> = Red, Green, Blue Color Mixing	<b>12</b> = 12V DC

Note: A layout/drawing must accompany each order showing run length and location  
 Note: Runs with LEAD-C are rounded **up** to next cut interval (unless otherwise specified)  
 Note: Runs with LEAD-D are rounded **down** to next cur interval (unless otherwise specified)

## Specifications

Output	
LED Channels	Red / Green / Blue
Lumens (lm/ft)	127 (all colors fully on)
Wavelength	Red (620nm-625nm), Green (527nm-532nm), Blue (470nm-475nm)
Electrical	
Input Voltage	12V DC
Power Consumption (W/ft)	3.66
Maximum Run	15'
Control	
Control System	SPI
Control IC#	GS8208
Address Setting	Auto
Physical	
Dimensions	0.393" (10mm)
LED	5050
Cut Increment	0.66" (16.76mm)
LED/ft	18
Copper Trace	3 Ounce
Adhesive	3M VHB Tape
Operating Temperature	-40°C to 60°C (-40°F to 140°F)
Certification and Testing	
Certification	cULus
Environment	Damp Location
IP Rating	IP54 (Conformally Coated)
Warranty	5 years

**Power Leads and Jumpers (Installed by Tivoli's certified solderers)**



**TPL-I-LEAD-4-C**  
LEAD/END  
24" standard 4 conductor  
22AWG lead wire factory  
attached to one end of tape



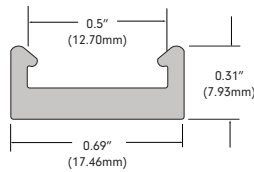
**TPL-I-LEAD-4-D**  
LEAD/LEAD  
24" standard 4 conductor  
22AWG lead wire factory  
attached to both ends of tape



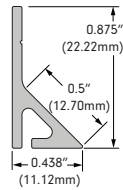
**TPL-I-XEP-4**  
EXTRA LEAD WIRE  
Additional factory attached  
22AWG lead 4 wire to extend  
lengths of LEAD-C and LEAD-D  
up to 20 ft. max  
Sold per foot

**Compatible Extrusions**

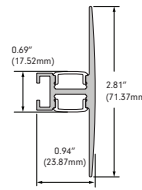
■ Fits 12mm Snap Connector



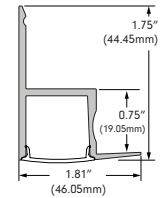
**MCHAN-8-LP**  
Low profile NO LENS OPTION  
clear polycarbonate, length 8'



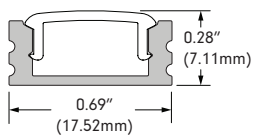
**TPL-I-45-MCH-8-S**  
White PVC, 45° NO LENS  
length 8'



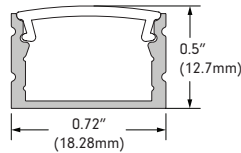
**DWAR-CHAN-SLV-6.5**  
Anodized Aluminum Extrusion,  
available in 6.5' lengths



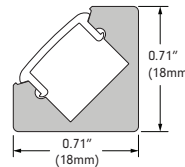
**EDGE-CHAN-SLV-6.5**  
Anodized Aluminum Extrusion,  
available in 6.5' lengths



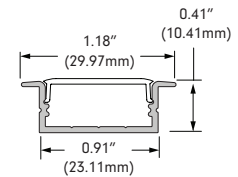
**MINI-CHAN-SLV-6.5**  
Anodized Aluminum Extrusion,  
available in 6.5' lengths



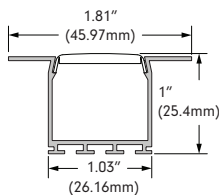
**MOFT-CHAN-SLV-6.5**  
Anodized Aluminum Extrusion,  
available in 6.5' lengths



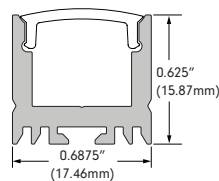
**DYER-CHAN-SLV-6.5**  
Anodized Aluminum Extrusion,  
available in 6.5' lengths



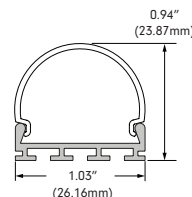
**WRNR-CHAN-SLV-6.5**  
Anodized Aluminum Extrusion,  
available in 6.5' lengths



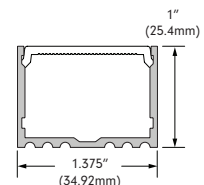
**NOYS-CHAN-SLV-6.5**  
Anodized Aluminum Extrusion,  
available in 6.5' lengths



**VALN-CHAN-SLV-6.5**  
Anodized Aluminum Extrusion,  
available in 6.5' lengths

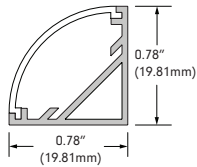


**DOME-CHAN-SLV-6.5**  
Anodized Aluminum Extrusion,  
available in 6.5' lengths

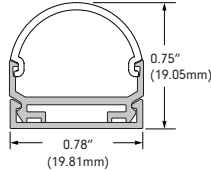


**ALTN-CHAN-SLV-6.5**  
Anodized Aluminum Extrusion,  
available in 6.5' lengths

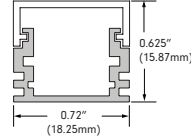
Compatible Extrusions



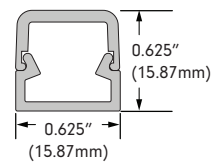
**MRS-L-CHAN-SLV-6.5**  
Anodized aluminum extrusion  
available in 6.5' length



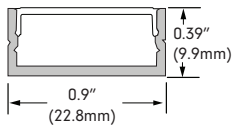
**HRIZ-CHAN-SLV-6.5**  
Anodized aluminum extrusion  
available in 6.5' length



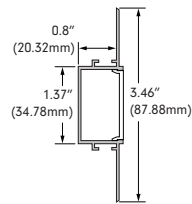
**ASTR-CHAN-SLV-6.5**  
Anodized aluminum extrusion  
available in 6.5' length



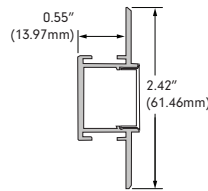
**INF-X-CHAN-8**  
**X = C** (clear), **F** (frosted)  
PC extrusion,  
available in 8' lengths



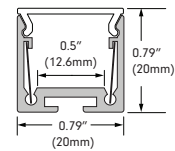
**COTA-CHAN-SLV-6.5**  
Anodized Aluminum Extrusion,  
available in 6.5' lengths



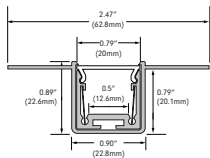
**CARU-CHAN-SLV-6.5**  
Anodized aluminum extrusion,  
available in 6.5' lengths



**HAYS-CHAN-SLV-6.5**  
Anodized Aluminum Extrusion,  
available in 6.5' lengths

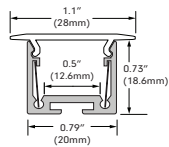


**DUET-04-CHAN-XXX-6.5**  
Aluminum extrusion  
6.5' Length



**DUET-04-CHAN-M-6.5**  
Mud-In PC fire-proof extrusion  
6.5' Length

Note: **DUET-04-CHAN-SLV-6.5** and **DUET-04-CHAN-M-6.5** are required for mud-in application



**DUET-04-CHAN-SLV-6.5**  
Anodized aluminum extrusion  
available in 6.5' length

Note: **DUET-04-CHAN-SLV-6.5** and **DUET-04-LNS-R-XXX-6.5** are required for recessed application

Controls



**ARTNET-S-8-512**  
 8 port universe Artnet to DMX interface, 4096 DMX channels Programmable for playback and live support (Online or Offline option)



**MDRX-AURA-XX**  
**X = 02, 08, 32** (ports)  
 MADRIX Luna 2, 8, 32 port universe Artnet to DMX interface. Programmable for playback and live support (Online or Offline option)



**MDRX-NBLA-08**  
 Up to 8 universes. SPI decoder receives control over ethernet network or USB delivering zero lag to your fixture



**ARTNET-S-X-SPI**  
**X = 4** (4 port), **8** (8 port)  
 Artnet to SPI interface. Programmable for playback and live support (Online or Offline option)

Network Hardware



**MDRX-LUNA-XX**  
**XX = 04, 08, 16** (ports)  
 MADRIX Luna 4, 8, 16 port universe Artnet to DMX interface 16 port 8192, 8 port 4096, 4 port 2048 DMX channels



**ARTNET-L-XX-512**  
**XX = 8, 16** (ports)  
 8 or 16 port universe Artnet to DMX interface, 16 port 8192 DMX channels 8 port 4096 DMX channels



**NTG-SWI-XXPT**  
**XX = 8** (8 Port), **16** (16 Port)  
 NETGEAR 16-Port gigabit Unmanaged Switch

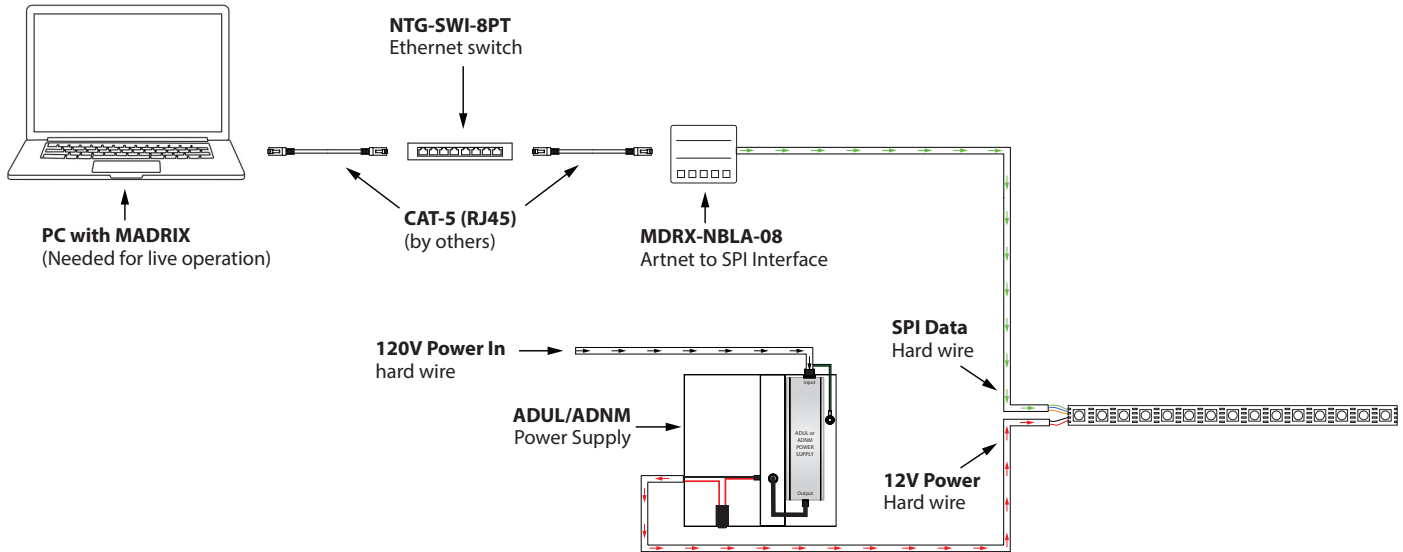


**DMX3-CAT5-ADPTR**  
 DMX adapter 3-pin XLR female to RJ45

**Data Operation & Wiring Diagram Artnet to SPI ON-LINE operation**

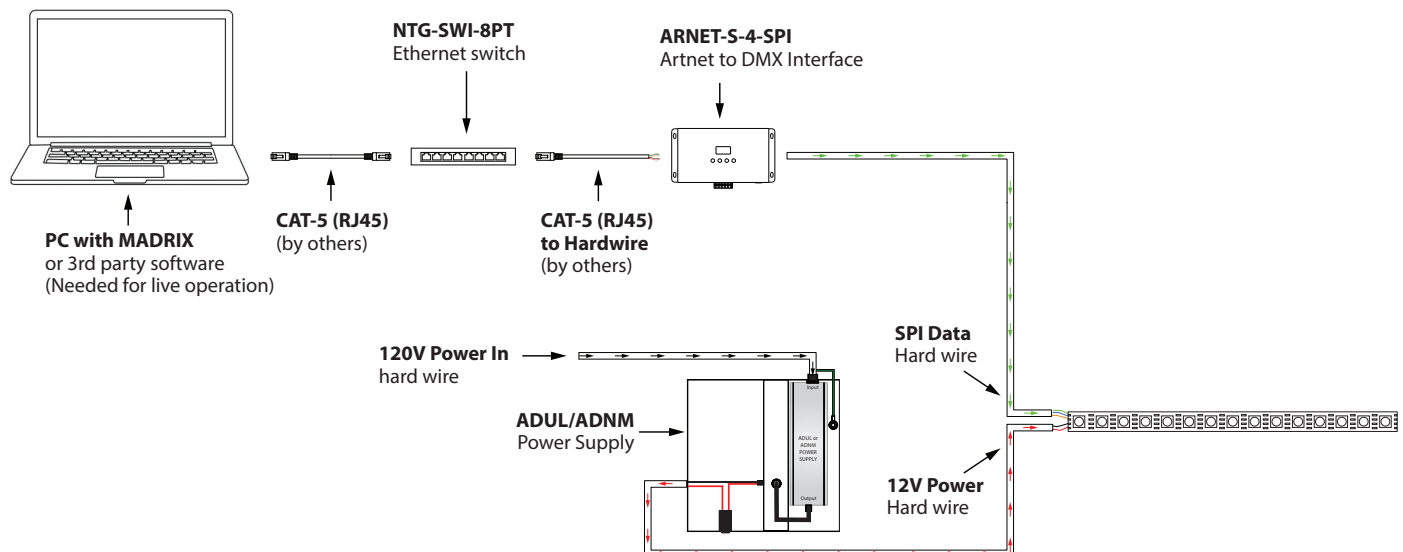
**MDRX-NBLA (Live)**

This is a live control performance setup using the MDRX-NBLA-XX interface. Widely used for concerts or performance-based manipulation. Use of a live network is necessary for communication between MADRIX 5 software and Magic Tape.



**ARTNET-S (Live)**

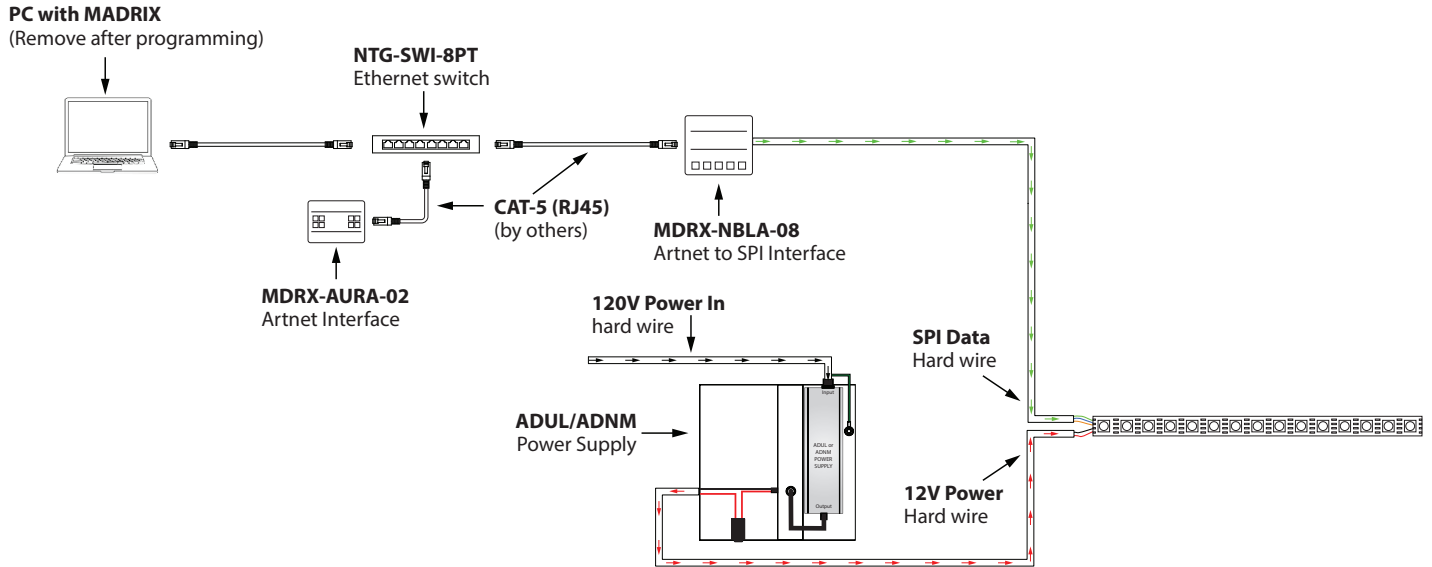
This is a live control performance setup using the ARTNET-S-X-SPI interface. Widely used for concerts or performance-based manipulation. Use of a live network is necessary for communication between MADRIX 5 software and Magic Tape.



**Data Operation & Wiring Diagram Artnet to SPI OFF-LINE operation**

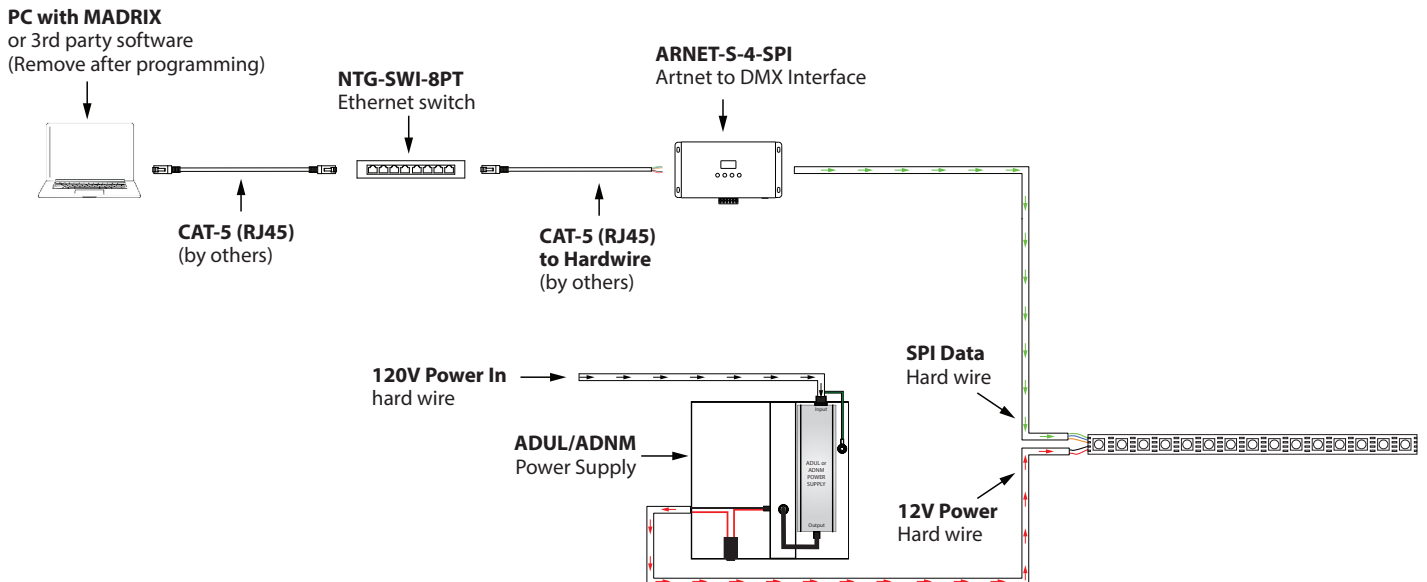
**MDRX-AURA (Preset)**

A stand-alone system with no need for support via network/software (MADRIX 5). Once scene playback is saved to AURA hardware via lighting software, PC/network can be removed from the system using only the AURA hardware to control playback. Please refer to the AURA specification for setup/record information.



**ARTNET-S (Preset)**

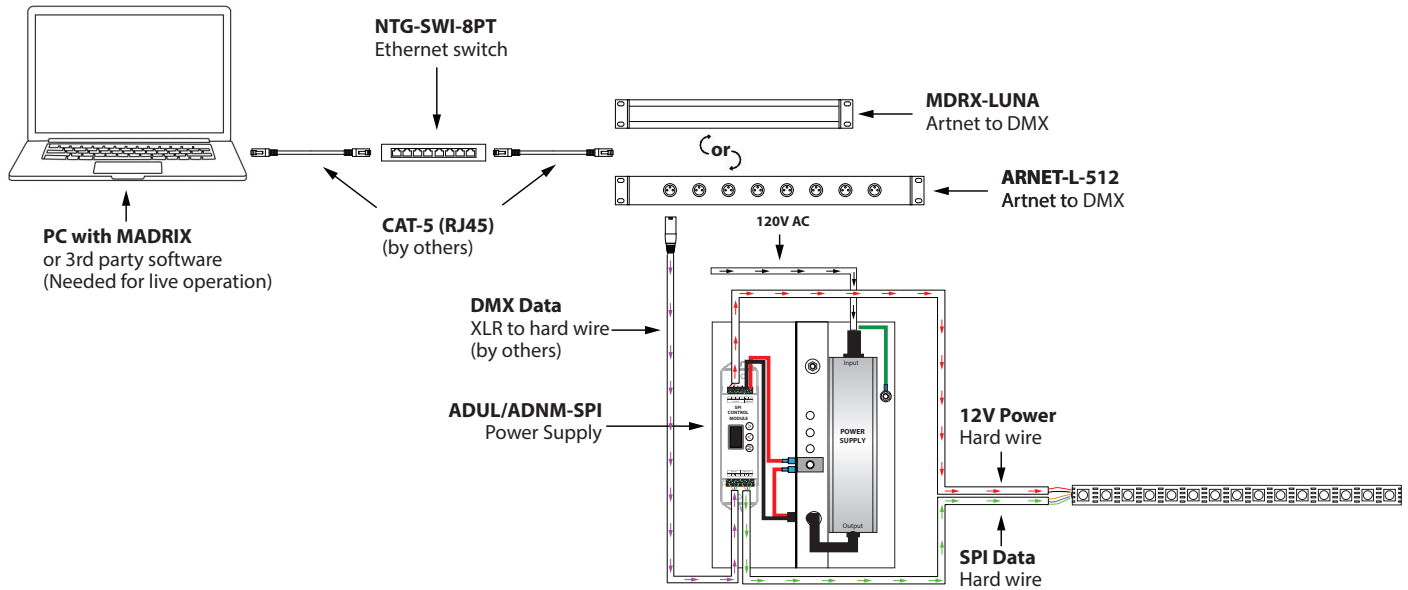
A stand-alone system with no need for support via network/software (MADRIX 5). Once scene playback is saved to ARTNET-S hardware via lighting software, PC/network can be removed from the system using only the ARTNET-S hardware to control playback. Please refer to the ARTNET-S specification for setup/record information.



**Data Operation & Wiring Diagram DMX to SPI ON-LINE operation**

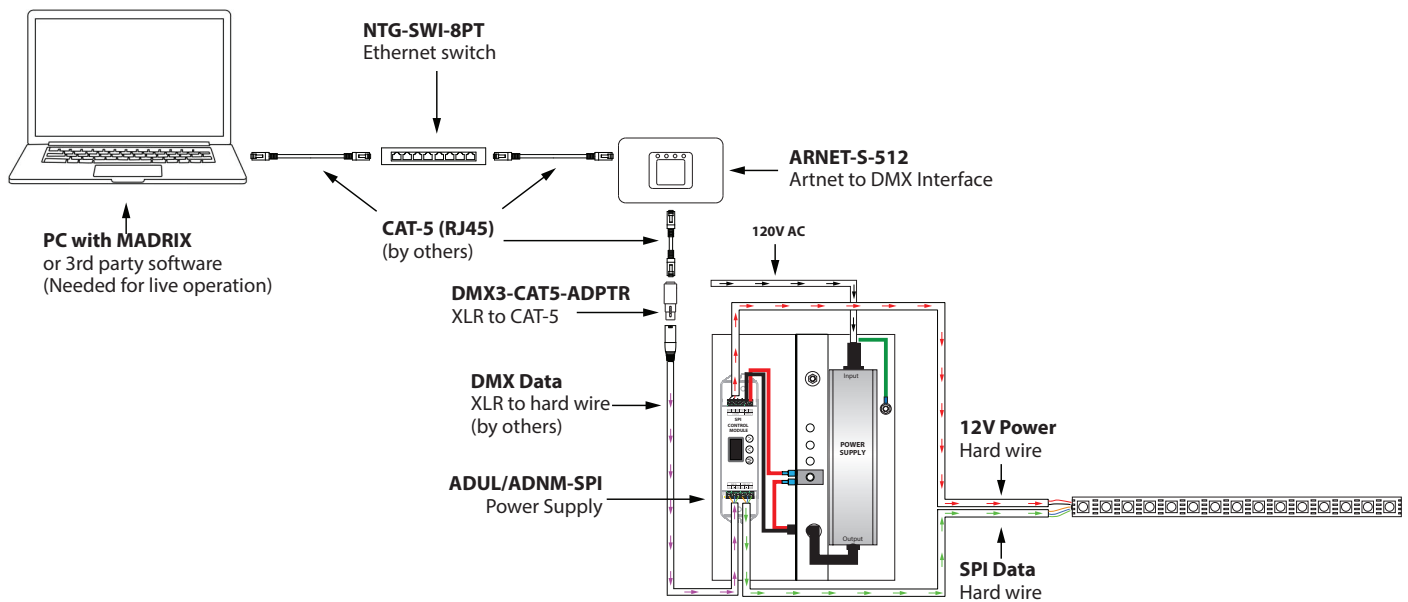
**MDRX-LUNA or ARTNET-L (Live)**

This is a live control performance setup using the MDRX-LUNA-XX or ARTNET-L-XX-512 interface. Widely used for concerts or performance-based manipulation. Use of a live network is necessary for communication between MADRIX 5 software and Magic Tape.



**ARTNET-S (Live)**

This is a live control performance setup using the ARTNET-S-X-512 interface. Widely used for concerts or performance-based manipulation. Use of a live network is necessary for communication between MADRIX 5 software and Magic Tape.

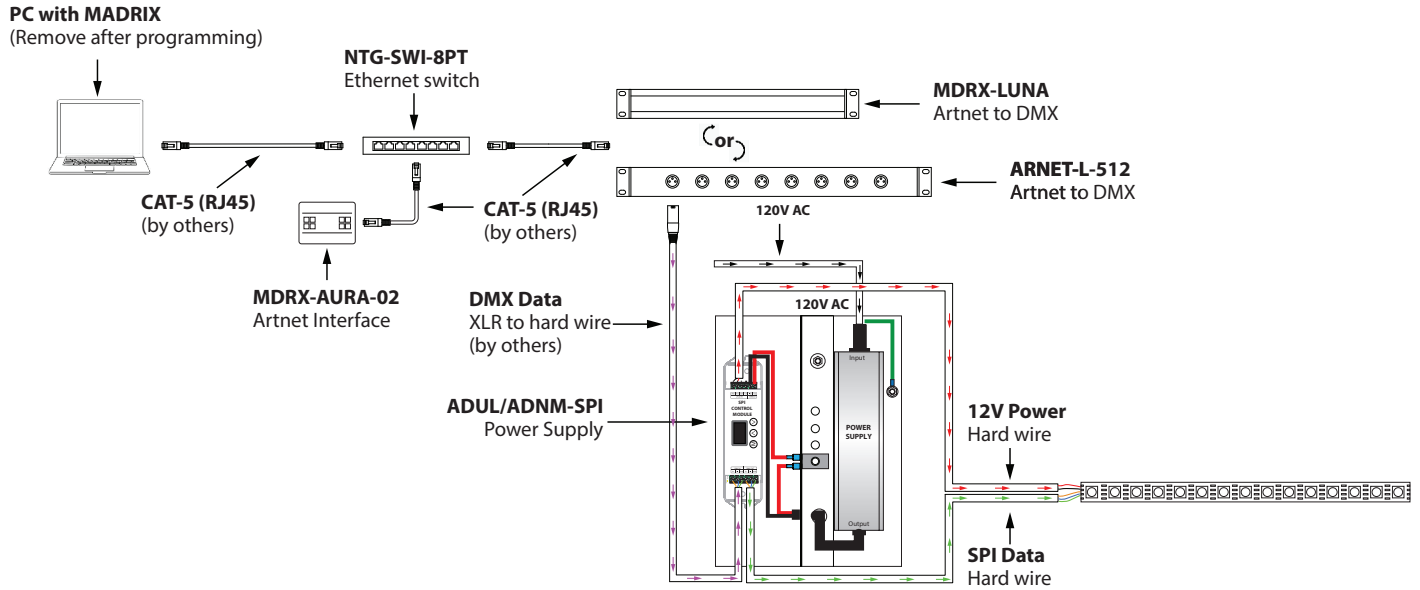




**Data Operation & Wiring Diagram DMX to SPI OFF-LINE operation**

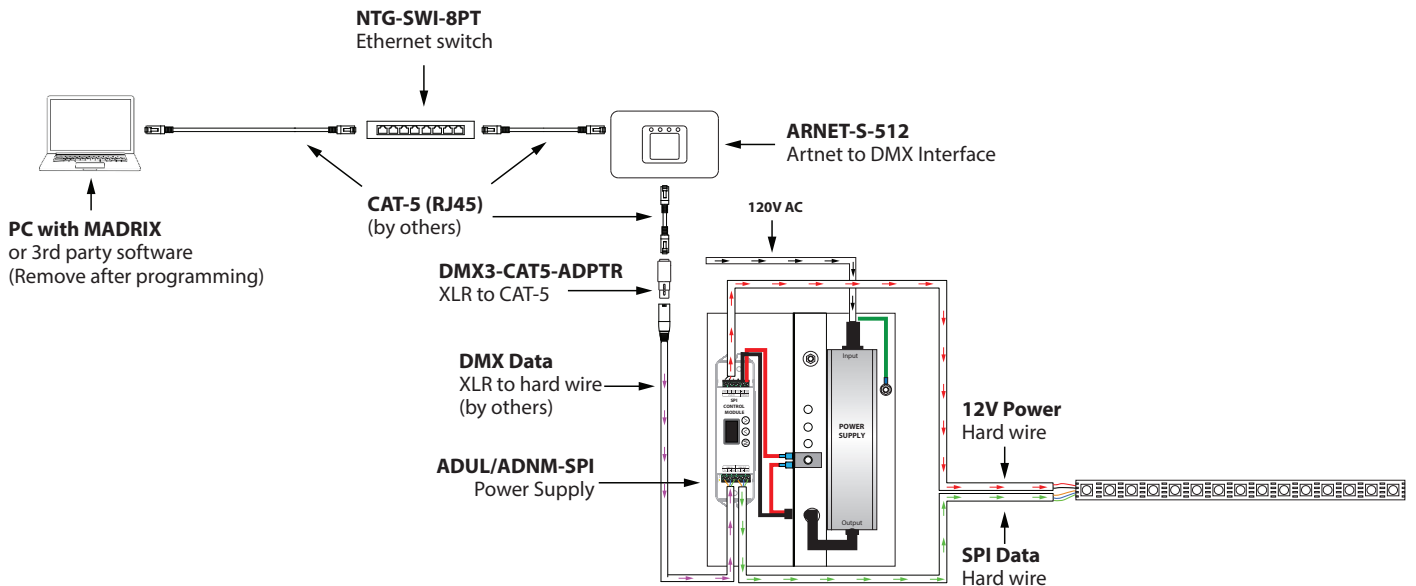
**MDRX-LUNA or ARTNET-L (Preset)**

A stand-alone system with no need for support via network/software (MADRIX 5). Once scene playback is saved to AURA hardware via lighting software, PC/network can be removed from the system using only the AURA to control playback. Integrate with MDRX-LUNA or ARTNET-L for DMX system. Please refer to the AURA, MDRX-LUNA or ARTNET-L-512 specification for setup and record information.

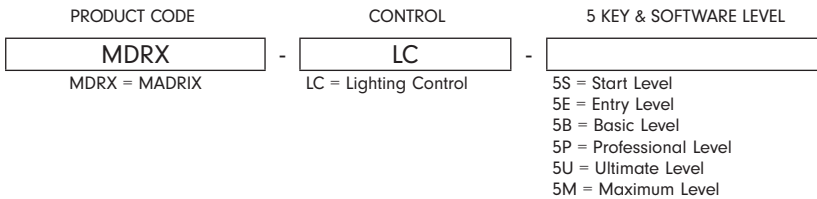


**ARTNET-S (Preset)**

A stand-alone system with no need for support via network/software (MADRIX 5). Once scene playback is saved to ARTNET-S-X512 hardware via lighting software, PC/network can be removed from the system using only the ARTNET-S-X512 to control playback. Please refer to the ARTNET-S-512 specification for setup and record information.



## Key & Software Levels



### MADRIX KEY

A USB dongle unlocks the software's full output. You can freely switch between different PCs as it is not bound to a specific one. It only needs to be activated online once.

### MADRIX 5 LICENSE UPGRADES

You can easily upgrade your MADRIX 5 KEY to any higher license at any time, increasing the available output.

Level	START	ENTRY	BASIC	PROFESSIONAL	ULTIMATE	MAXIMUM
MADRIX 5 Order Code	MDRX-LC-5S	MDRX-LC-5E	MDRX-LC-5B	MDRX-LC-5P	MDRX-LC-5U	MDRX-LC-5M
<b>DMX-Based Output</b>						
DMX Channels	1,024	4,096	16,384	65,536	262,144	1,048,576
DMX Universe Example	2	8	32	128	512	2,048
RGB Voxels Example	341	1,365	5,461	21,845	87,381	349,525
<b>DVI-Based Output</b>						
DVI Voxels	4,096	16,384	262,144	1,048,576	2,097,152	2,097,152
Render Resolution (Pixel x Pixel)	64 x 64	128 x 128	512 x 512	1,024 x 1,024	2,048 x 1,024	2,048 x 1,024

## Power Supplies Indoor

### ADUL - SPI CONTROL

DESCRIPTION	CAT NO	APPLICATION	PRIMARY VOLTAGE	SECONDARY VOLTAGE	CIRCUIT BREAKERS	MAX LOAD	CIRCUIT CAPACITY
ADUL Series Class 2 Transformer	ADUL-60-1-5-12-SPI	Indoor or Damp	100-277V AC 5% HZ	12V DC	1	60W	5A
	ADUL-150-2-5-12-SPI-2				2	2x60W	2x5A
	ADUL-240-3-5-12-SPI-3				3	3x60W	3x5A
	ADUL-320-4-5-12-SPI-4				4	4x60W	4x5A

### ADUL - NON DIMMING

DESCRIPTION	CAT NO	APPLICATION	PRIMARY VOLTAGE	SECONDARY VOLTAGE	CIRCUIT BREAKERS	MAX LOAD	CIRCUIT CAPACITY
ADUL Series Class 2 Transformer	ADUL-80-1-5-12-D	Outdoor or Indoor	100-277V AC 5% HZ	12V DC	1	60W	5A
	ADUL-150-2-5-12-D				2	2x60W	2x5A
	ADUL-240-3-5-12-D				3	3x60W	3x5A
	ADUL-320-4-5-12-D				4	4x60W	4x5A

## Power Supplies Outdoor / Indoor

### ADNM - SPI CONTROL

DESCRIPTION	CAT NO	APPLICATION	PRIMARY VOLTAGE	SECONDARY VOLTAGE	CIRCUIT BREAKERS	MAX LOAD	CIRCUIT CAPACITY
ADNM Series Class 2 Transformer	ADNM-60-1-5-12-SPI	Outdoor or Indoor	100-277V AC <sup>50/60</sup> HZ	12V DC	1	60W	5A
	ADNM-150-2-5-12-SPI-2				2	2x60W	2x5A
	ADNM-240-3-5-12-SPI-3				3	3x60W	3x5A
	ADNM-320-4-5-12-SPI-4				4	4x60W	4x5A

### ADNM - NON DIMMING

DESCRIPTION	CAT NO	APPLICATION	PRIMARY VOLTAGE	SECONDARY VOLTAGE	CIRCUIT BREAKERS	MAX LOAD	CIRCUIT CAPACITY
ADNM Series Class 2 Transformer	ADNM-60-1-5-12-D	Outdoor or Indoor	100-277V AC <sup>50/60</sup> HZ	12V DC	1	60W	5A
	ADNM-80-1-5-12-D				1	80W	5A
	ADNM-150-2-5-12-D				2	2x60W	2x5A
	ADNM-240-3-5-12-D				3	3x60W	3x5A
	ADNM-320-4-5-12-D				4	4x60W	4x5A