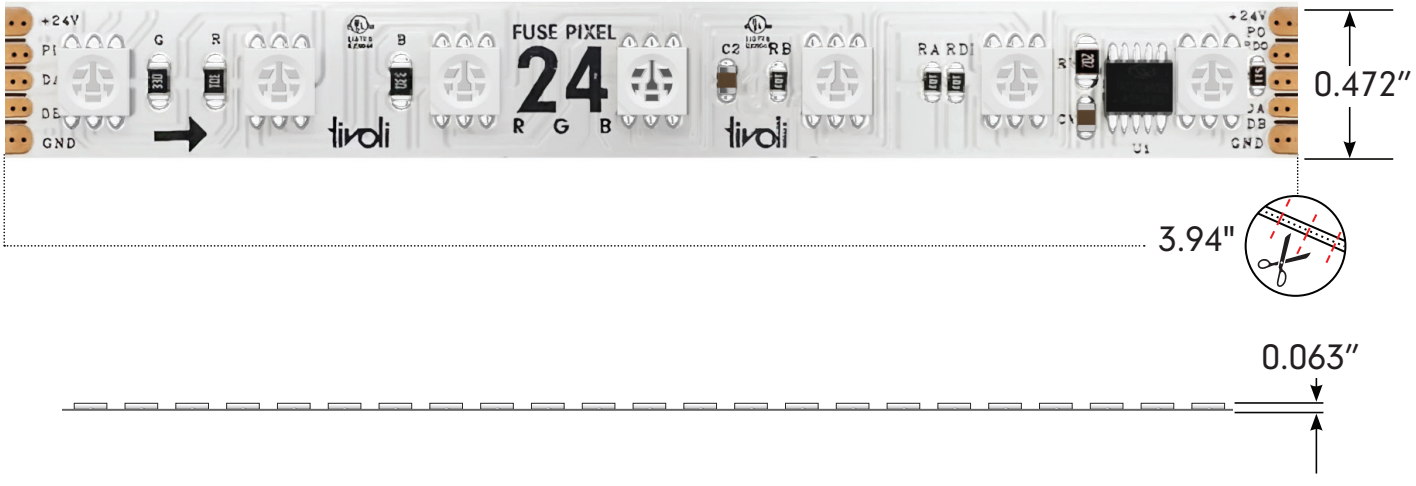


Project: _____ TYPE: _____

- 3 Channel system
- RGB mixing with pixel control every 3.94"
- Addressable LED pixels segments, suitable for stage, entertainment and architectural applications
- 28 LEDs per foot
- 3 Pixels per foot for color changing effect, suitable for media display
- 3.94" Cutting increments
- 3M VHB double sided tape on the back
- 24VDC 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
- 4oz. Copper Trace
- 5 Year warranty

Dimensions

IP54 C UL US LISTED



Tivoli, LLC. reserves the right to modify this specification without prior notice.

Order Specification Guide

PRODUCT CODE		VERSION		INSTALL		LED TYPE		*INSTALL		VOLTAGE
TPLFS	-	**PX**	-	**I**	-	**RGB**	-		-	**24**
TPLFS = Fuse Tape		**PX** = Pixel		**I** = Indoor		**RGB** = RGB mixing		**MR** = Max Run		**24** = 24V DC

* Optional - Leave blank if not needed
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)

Specification

Output				
Kelvin Temperature	Red	Green	Blue	RGB
Lumens/ft	44.7	126	36.4	207
Efficacy (Lm/W)	26	74	21	52
CRI	n/a	n/a	n/a	n/a
Wavelength	630	525	470	630
Measured Power W/ft	1.7	1.7	1.7	4
Listed Power W/ft.	4.4			
Max Run	21'			

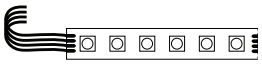
n/a = Not Applicable

Electrical	
Input Voltage	24V DC
Control System	DMX
Control IC#	SM18522PS
Address Setting	Auto
Physical	
Dimensions	0.472 (12mm)
LED	5050 4 in 1 chip
Cut Increment	3.94" (100mm)
LED/ft	21
Copper Trace	3 OZ
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

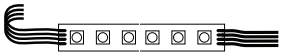
Tivoli, LLC. reserves the right to modify this specification without prior notice.
Copyright © Tivoli 09/08/26

www.tivolilighting.com tel: 714-957-6101 fax: 714-427-3458

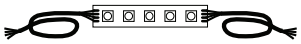
Power Leads and Jumpers (Installed by Tivoli's certified solderers)



TPL-I-LEAD-5-C
LEAD/END
24" standard 5 conductor 22AWG lead wire factory attached to one end of tape



TPL-I-LEAD-5-D
LEAD/LEAD
24" standard 5 conductor 22AWG lead wire factory attached to both ends of tape



TPL-I-XEP-5
EXTRA LEAD WIRE
Additional factory attached 22AWG lead 5 wire to extend lengths of LEAD-C and LEAD-D up to 20 ft. max
Sold per foot

In-Wall Controls



TVOQ-2-BK
Black



TVOQ-10-XX-7
XX = **BK** (Black), **WH** (White)



LTEC-UB5
5-channel DMX compatible (RGBWY) Touch enabled Multi-scene and zone with App and Bluetooth connectivity

Controls



MDRX-AURA-XX
X = **02, 12, 32** (ports)
MADRIX Aura is a stand-alone controller for up to 2, 12, or 32 universes per unit



SP630E-S
All-In-One SPI/PWM Controller
Note: Control with available BT app or optional SP630E-R remote



ARTNET-S-8-512
8 port universe Artnet to DMX interface, 4096 DMX channels
Programmable for playback and live support

Tivoli, LLC. reserves the right to modify this specification without prior notice.

Network Hardware



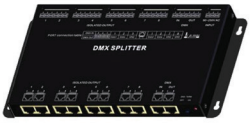
MDRX-LUNA-XX
XX = **04, 08, 16** (ports)
MADRIX Luna 4, 8, 16 port universe Artnet to DMX interface 16 port 8192, 8 port 4096, 4 port 2048 DMX channels



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



DMX-SPLT-X
X= 2, 4, 8 (Output Channels)
DMX Splitter 1 Input to 8 Output Ethernet or Hardwire Connection



DMX-WRTR
DMX writer for addressable pixel product

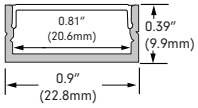


DMX3-CAT5-F-ADPTR
DMX adapter
3-pin XLR female to RJ45

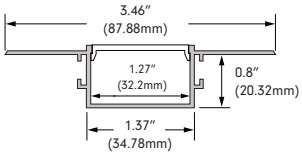


RJ45-HRDW-ADPTR
8 Wire Hardwire to CAT-5/6 Adapter

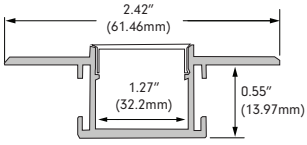
Compatible Extrusions



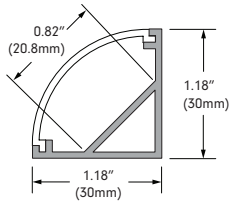
COTA-CHAN-SLV-6.5
Anodized Aluminum Extrusion, available in 6.5′ lengths



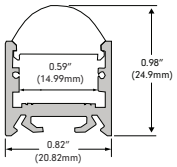
CARU-CHAN-SLV-6.5
Anodized aluminum extrusion, available in 6.5′ lengths



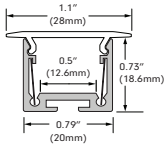
HAYS-CHAN-SLV-6.5
Anodized Aluminum Extrusion, available in 6.5′ lengths



FRE-CHAN-SLV-6.5
Anodized Aluminum Extrusion, available in 6.5′ lengths

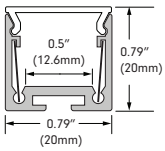


RIDG-CHAN-SLV-8
Anodized Aluminum Extrusion length 8′

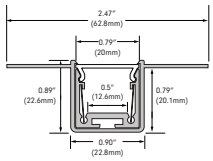


DUET-04-CHAN-SLV-6.5
Anodized aluminum extrusion available in 6.5′ length

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



DUET-04-CHAN-XXX-6.5
XXX = **SLV** (silver), **WHT** (white), **GLD** (gold), **BLK** (black)
Aluminum extrusion
6.5′ Length



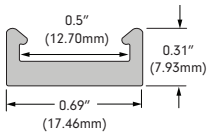
DUET-04-CHAN-M-6.5
Mud-In PC fire-proof extrusion
6.5′ Length

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

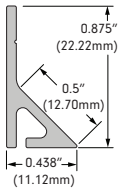
Note: For complete information on DUET 04 profile, refer to specification

Tivoli, LLC. reserves the right to modify this specification without prior notice.

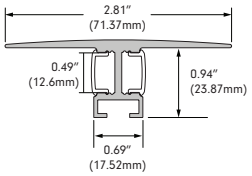
Compatible Extrusions



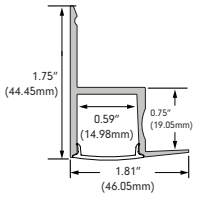
MCHAN-8-LP
Low profile NO LENS OPTION clear polycarbonate, length 8′



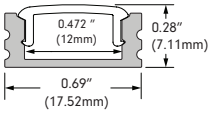
TPL-I-45-MCH-8-S
White PVC, 45° NO LENS length 8′



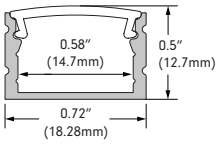
DWAR-CHAN-SLV-6.5
Anodized Aluminum Extrusion, available in 6.5′ lengths



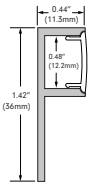
EDGE-CHAN-SLV-6.5
Anodized Aluminum Extrusion, available in 6.5′ lengths



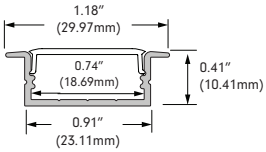
MINI-CHAN-SLV-6.5
Anodized Aluminum Extrusion, available in 6.5′ lengths



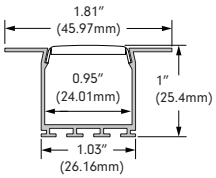
MOFT-CHAN-SLV-6.5
Anodized Aluminum Extrusion, available in 6.5′ lengths



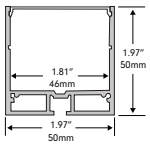
LEDA-CHAN-SLV-6.5
Anodized Aluminum Extrusion, available in 6.5′ lengths



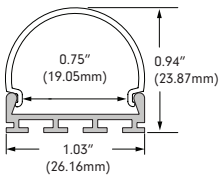
WRNR-CHAN-SLV-6.5
Anodized Aluminum Extrusion, available in 6.5′ lengths



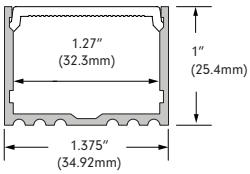
NOYS-CHAN-SLV-6.5
Anodized Aluminum Extrusion, available in 6.5′ lengths



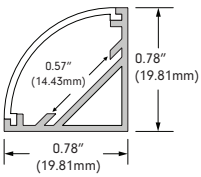
ANZI-CHAN-XXX-6.5
XXX=SLV (Silver), **BLK** (Black), **WHT** (White)
Anodized Aluminum Extrusion, available in 6.5′ lengths



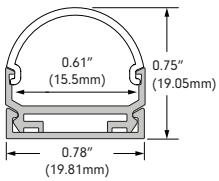
DOME-CHAN-SLV-6.5
Anodized Aluminum Extrusion, available in 6.5′ lengths



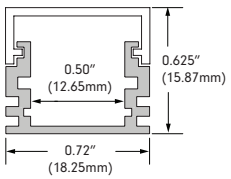
ALTN-CHAN-SLV-6.5
Anodized Aluminum Extrusion, available in 6.5′ lengths



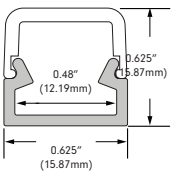
MRSL-CHAN-SLV-6.5
Anodized aluminum extrusion available in 6.5′ length



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



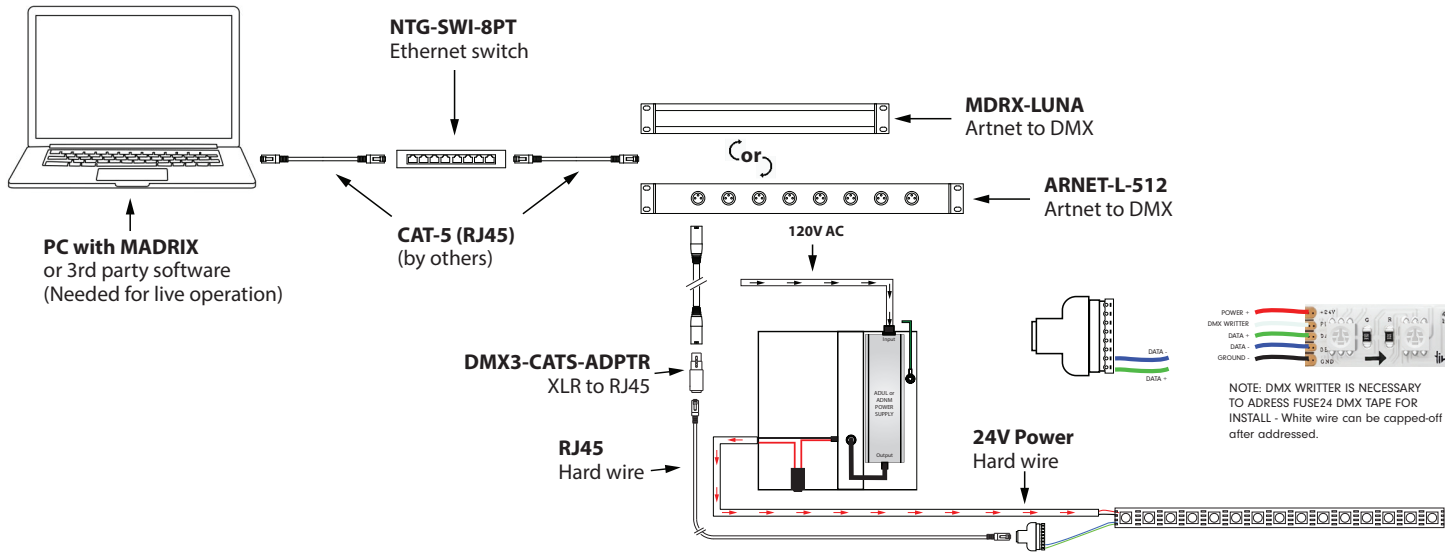
INF-X-CHAN-8
X = **C** (clear), **F** (frosted) PC extrusion, available in 8′ lengths

Tivoli, LLC. reserves the right to modify this specification without prior notice.

Data Operation & Wiring Diagram Artnet to DMX ON-LINE operation

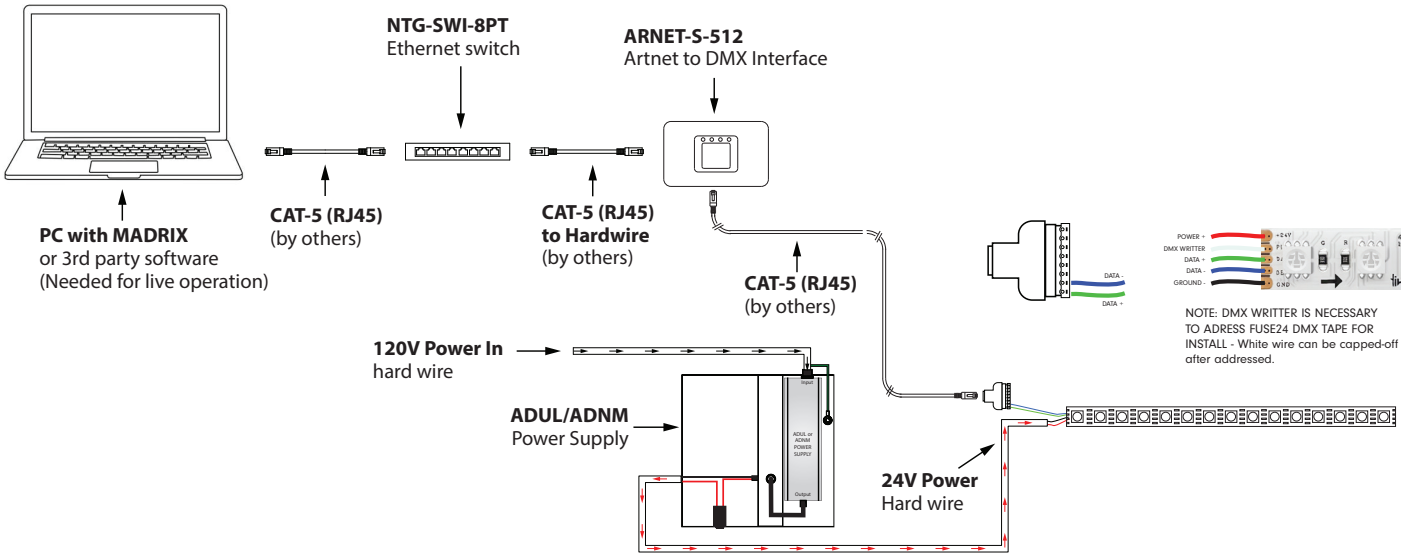
MDRX-LUNA or ARTNET-L (Live)

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-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.

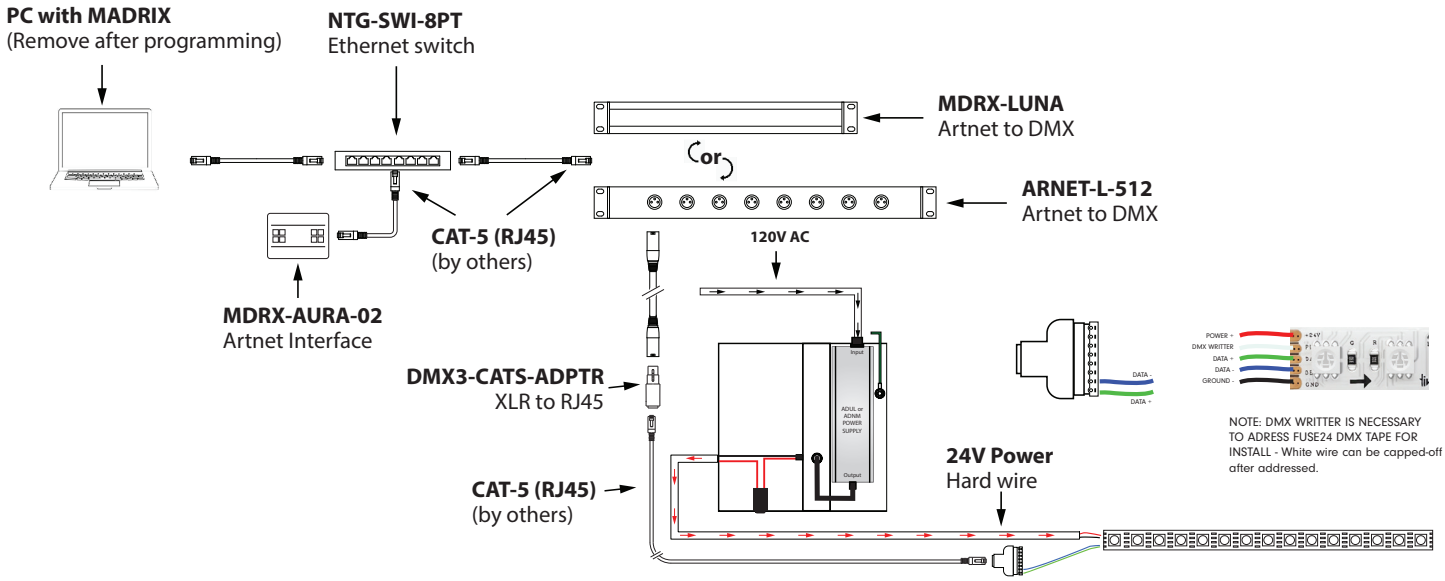


Tivoli, LLC. reserves the right to modify this specification without prior notice.

Data & Wiring Diagram TivoCUE, LUNA or ARTNET-L OFF-LINE operation

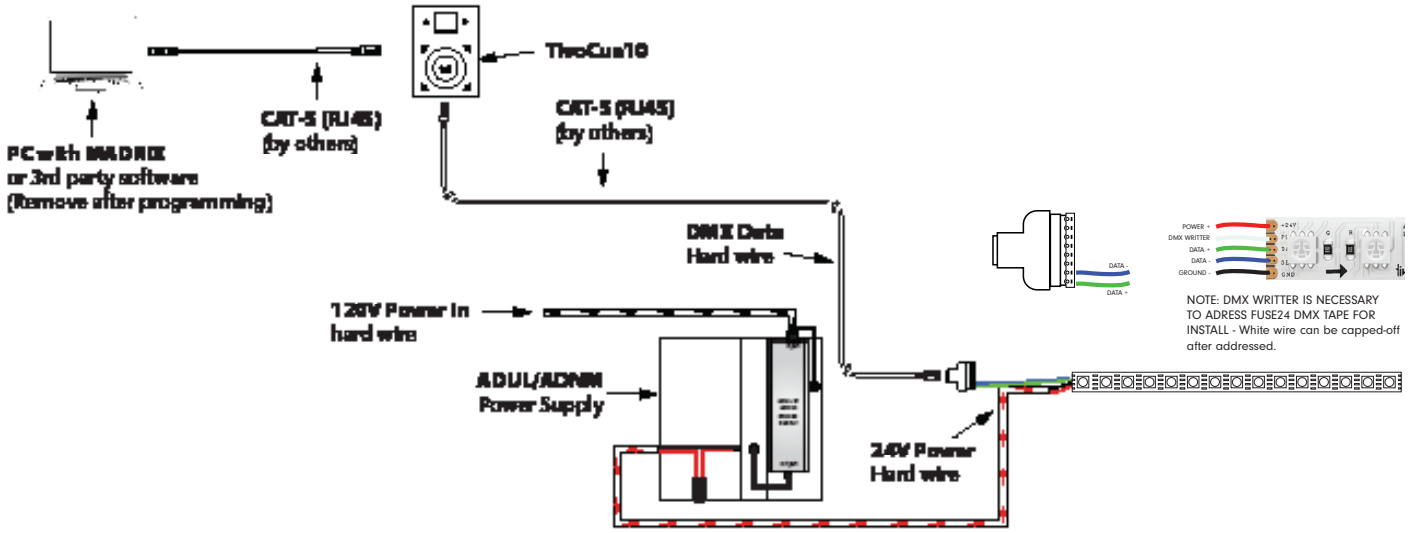
MDRX-LUNA or ARTNET-L (Preset)

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 form 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.



TivoCUE (Preset)

A stand-alone system with no need for support via network/software (MADRIX 5). Once scene playback is saved to TivoCUE 10/2 hardware via lighting software, PC/network can be removed form the system using only the TivoCUE 10/2 to control playback. Please refer to the TivoCUE 10/2 specification for setup and record information.

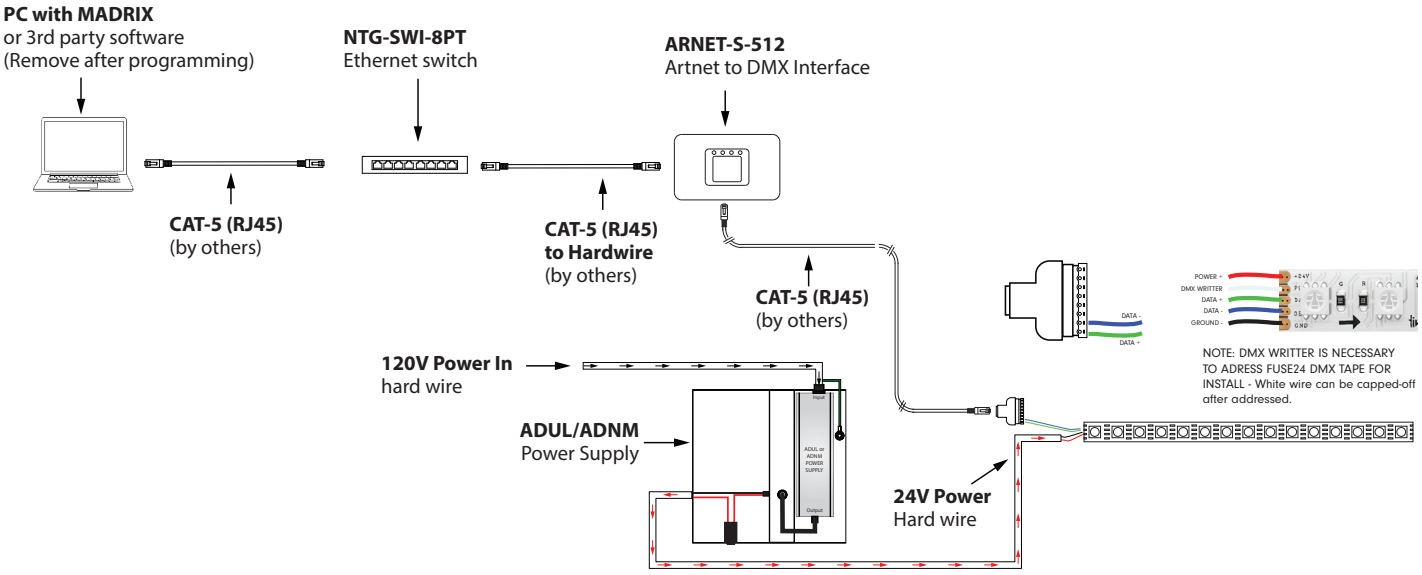


Tivoli, LLC. reserves the right to modify this specification without prior notice.

Data & Wiring Diagram OFF-LINE operation

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-512 hardware via lighting software, PC/network can be removed form the system using only the ARTNET-S-512 hardware to control playback. Please refer to the ARTNET-S-512 specification for setup/record information.



Key & Software Levels

PRODUCT CODE		CONTROL		5 KEY & SOFTWARE LEVEL
MDRX	-	LC	-	
MDRX = MADRIX		LC = Lighting Control		5S = Start Level 5E = Entry Level 5B = Basic Level 5P = Professional Level 5U = Ultimate Level 5M = Maximum Level

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
DMX-Based Output						
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
DVI-Based Output						
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

Tivoli, LLC. reserves the right to modify this specification without prior notice.

Power Supplies

ADUL/ADNM - NON DIMMING

DESCRIPTION	CAT NO	APPLICATION	PRIMARY VOLTAGE	SECONDARY VOLTAGE	CIRCUIT BREAKERS	MAX LOAD	CIRCUIT CAPACITY
ADUL/ADNM Series Class 2 Transformer	ADNM-90-1-4-24-D	Indoor/Outdoor	100-277V AC 50/60 HZ	24V DC	1	90W	3.75A
	ADUL-120-1-4-24-D	Indoor			1	96W	4A
	ADUL-240-2-4-24-D	Indoor			2	2x96W	2x4A
	ADUL-320-3-4-24-D	Indoor			3	3x96W	3x4A

Tivoli Commissioning Service

Tivoli's DMX Commissioning service involves the setup and configuration of our DMX lighting and control system, ensuring the seamless integration of our lighting fixtures with the specified DMX Control system ordered.

For more information about commission service, contact:
sales@tivoliusa.com
714-957-6101 (Engineering Tech Support)

Tivocue Wall Controllers (Default Scenes: White, Red,Green, Blue, Light Blue, Purple, Pink, Dim White, Yellow, Cool Cycle, Warm Cycle, All Cycle, Rainbow Scroll, Blackout)	
TVOQ-REM-COMM-1	Remote DMX commissioning for TIVOCUE 2 and 10 dmx wall controller. Pixel mapping/control is not offered for remote commissioning
TVOQ-ONS-COMM-1	Onsite DMX comissioning for TIVOCUE 2 and 10 dmx wall controller (est. 2 days)
ARTNET-S-8-512 (Default Scenes: White, Red,Green, Blue, Light Blue, Purple, Pink, Dim White, Yellow, Cool Cycle, Warm Cycle, All Cycle, Rainbow Scroll, Blackout)	
ARTNET-S-REM-COMM-8	Remote DMX commissioning for artnet s recorder up to 8 universes. Pixel mapping/control is not offered for remote commissioning
ARTNET-S-ONS-COMM-8	Onsite DMX commissioning for artnet s recorder up to 8 universes (est. 3 days)
MADRIX DMX SYSTEM	
DMX-COMM-2U-MDRX	Onsite commissioning for madrix, up to 2 universes (est. 3 days)
DMX-COMM-8U-MDRX	Onsite commissioning for madrix, up to 8 universes (est. 3 days)
DMX-COMM-16U-MDRX	Onsite commissioning for madrix, up to 16 universes (est. 4 days)
DMX-COMM-24U-MDRX	Onsite commissioning for madrix, up to 24 universes (est. 4 days)
DMX-COMM-32U-MDRX	Onsite commissioning for madrix, up to 32 universes (est. 5 days)
32+ UNIVERSE	Contact factory

Tivoli, LLC. reserves the right to modify this specification without prior notice.