PRELIMINARY SPECIFICATION, SUBJECT TO CHANGE WITHOUT NOTICE

ST SERIES

Linear Pendant System

Custom Lengths

Pre-assembled: ≤ 8 ft (96 in) per section

End to End Connectability

Made in the USA

See separate installation instructions

Patent Pending

SKY TRACK REQUIRES
- Aion LED Light Engine
- Aion LED Driver

Sold Separately, Not Included

Components of a complete system include: Aion LED A-Track Light Engine, Aion LED A-Track housing with diffuser lens, & Aion LED driver (power supply). Dimmer not included. Approved dimmers, controls, power supplies, cable, & other components only. Contact Aion LED for questions regarding compatibility. Electrician installed. Strictly adhere to NEC & local building code. Limited 5-year warranty against manufacturing defects only, does not cover labor; voided by: inadequate ventilation, field modifications, installation by unqualified personnel, unapproved controls, drivers, cabling, other devices, not following installation guidelines & protocol, general negligence. Installer assumes all liability with regard to property & safety. This product is UL listed. See separate "Aion LED Warranty Terms" & additional instructional materials for more information. Authorized installers only. Systems tested prior to shipping.

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Modified: February 28, 2018

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PRELIMINARY SPECIFICATION, SUBJECT TO CHANGE WITHOUT NOTICE

ST SERIES

SkyTrack fixtures are semi custom and made to order. If an additional option or feature is needed, please contact Aion LED to discuss.

Lens

Frosted
Clear
Prismatic

Finish

White Powder Coat
Black Powder Coat
Custom Color

Length

Standard Length:
8’ on Center, Including Mounting Brackets*

Custom pre-cut lengths available

Leads

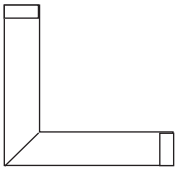
96” Black or White Cable
Custom Lengths Available

Fixture Suspension Kit

Sky Track Suspension 8’
1/32” Diameter Aircraft Cable
Grippers
Optional Canopies

Corner

12” x 12”



8’ on center suspension points. 8’ 0.875” overall fixture length including mounting brackets and end caps

MADE IN USA

c UL us LISTED

Components of a complete system include: Aion LED A-Track Light Engine, Aion LED A-Track housing with diffuser lens, & Aion LED driver (power supply). Dimmer not included. Approved dimmers, controls, power supplies, cable, & other components only. Contact Aion LED for questions regarding compatibility. Electrician installed. Strictly adhere to NEC & local building code. Limited 5-year warranty against manufacturing defects only, does not cover labor; voided by: inadequate ventilation, field modifications, installation by unqualified personnel, unapproved controls, drivers, cabling, other devices, not following installation guidelines & protocol, general negligence. Installer assumes all liability with regard to property & safety. This product is UL listed. See separate “Aion LED Warranty Terms” & additional instructional materials for more information. Authorized installers only. Systems tested prior to shipping.

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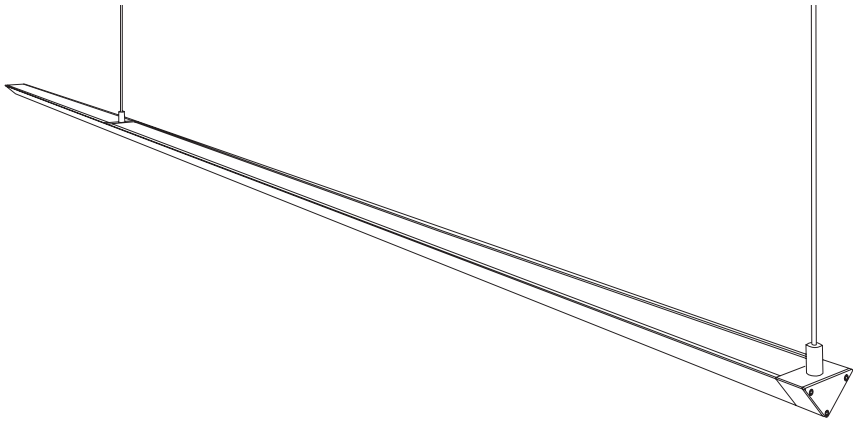
PRELIMINARY SPECIFICATION, SUBJECT TO CHANGE WITHOUT NOTICE

ST SERIES

Linear Pendant System



NOT TO SCALE

COMPATIBILITY*

ZERO DIM™
9524-FR
1524-LE
8924-LE
4924-LE
3924-LE

DIM TO GLOW™
6524-CT3022-LE
1524-CT3022-LE
8924-CT3022-LE

RGBW+ Color Tuning
8924-RGBW-LE

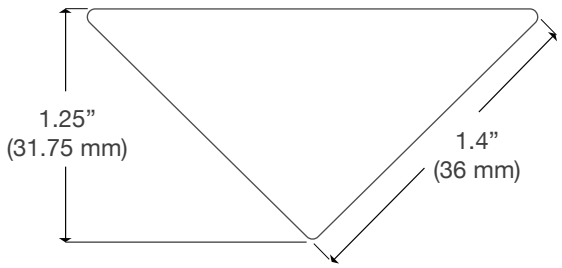
*See order forms for complete system options

Standard 8’ on center

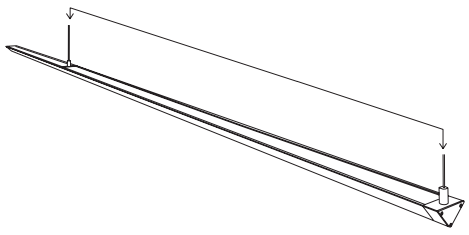
Custom lengths & configurations require reflected ceiling plan with suspension points indicated

DIMENSIONS

NOT TO SCALE



8’ on Center Suspension
8’ 0.875” overall fixture length including mounting brackets and end caps



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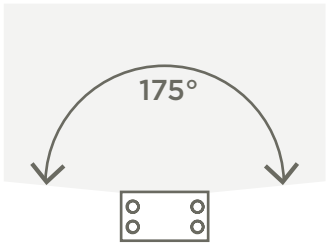
Aion LED lenses are UV stabilized and won't yellow in direct sunlight.

Frosted

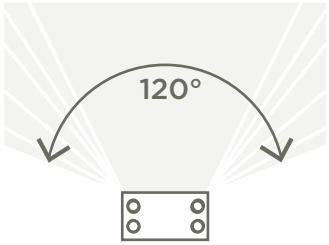
Widest Angle
Mid-Transmittance
100% Diffusion

See direct view for compatible light engines



Prismatic

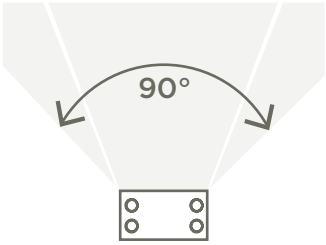
Wider Angle
High Transmittance
Mid Range Diffusion



Clear

Wide Angle
Maximum Transmittance
Zero Diffusion

Clear lens is recommended for indirect applications.



MADE IN USA

Component of a complete system including: Aion LED A-Track Light Engine, Aion LED A-Track housing with diffuser lens, & Aion LED driver (power supply). Dimmer not included. Approved dimmers, controls, power supplies, cable, & other components only. Contact Aion LED for questions regarding compatibility. Electrician installed. Strictly adhere to NEC & local building code. Limited 5-year warranty against manufacturing defects only, does not cover labor; voided by: inadequate ventilation, field modifications, installation by unqualified personnel, unapproved controls, drivers, cabling, other devices, not following installation guidelines & protocol, general negligence. Installer assumes all liability with regard to property & safety. This product is UL listed. See separate "Aion LED Warranty Terms" & additional instructional materials for more information. Authorized installers only. Systems tested prior to shipping.

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CT3022

Dynamic White Light Engines

95+ CRI

Color Guarantee

2 Step MacAdam

22 2150K

24 2350K

27 2650K

30 2950K

UL Class 2

IP20 Dry Location

Cut to Fit Available

50,000 Hour Min. Lifespan

	8924-CT3022-LE Standard Output 2 Row		1524-CT3022-LE Mid Output Compact 1 Row		6524-CT3022-LE High Output 2 Row	
	CH 1	CH 2	CH 1	CH 2	CH 1	CH 2
CCT	@2150K WARM	@2950K COOL	@2150K WARM	@2950K COOL	@2150K WARM	@2950K COOL
Total Lumens	126.64	206.60	174	220.33	405.35	490
Input Power	2.26 W	2.82 W	2.87 W	2.86 W	5.60 W	5.61 W
Color Rendering Index	94+ CRI	92+ CRI	96+ CRI	98+ CRI	95+ CRI	98+ CRI
R9	71.30	68.06	87.55	95.63	96.13	97.89
Efficacy	56.80	79	61	77	72	87
Color Rendering Index	94+ CRI	92+ CRI	96+ CRI	98+ CRI	95+ CRI	98+ CRI
R9	71.30	68.06	87.55	95.63	96.13	97.89
Input Voltage (VDC)	24.00	24.00	24.00	24.00	24.00	24.00
Input Current (Amp)	0.09	0.11	0.12	0.12	0.23	0.23

E348513

LISTED E364348

Requires, Sold Separately: D100-X2 DRIVER w/ M-Series Power Supply and Aion LED Housing

Components of a complete system include: Aion LED A-Track Light Engine, Aion LED A-Track housing with diffuser lens, & Aion LED driver (power supply). Dimmer not included. Approved dimmers, controls, power supplies, cable, & other components only. Contact Aion LED for questions regarding compatibility. Electrician installed. Strictly adhere to NEC & local building code. Limited 5-year warranty against manufacturing defects only, does not cover labor; voided by: inadequate ventilation, field modifications, installation by unqualified personnel, unapproved controls, drivers, cabling, other devices, not following installation guidelines & protocol, general negligence. Installer assumes all liability with regard to property & safety. This product is UL listed. See separate "Aion LED Warranty Terms" & additional instructional materials for more information. Authorized installers only. Systems tested prior to shipping.

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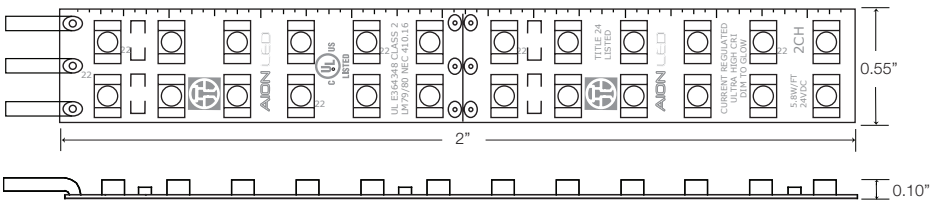
8924-CT3022-LE

Dynamic White Light Engine



2 Channel Fixture:
CH 1: 3000K ~2.8W/ft.
CH 2: 2150K ~2.8W/ft.
TOTAL: 5.61 W/ft.

Min. Increment:
2 in.

Maximum Increment:
30 ft.

	WARM	COOL
Total Lumens	126.64	206.60
Input Power	2.26 W	2.82 W
Efficacy	56.80	79
Color Rendering Index	94+ CRI	92+ CRI
R9	71.30	68.06
Input Voltage (VDC)	24.00	24.00
Input Current (Amp)	0.09	0.11
Correlated Color Temperature	2150K	2950K

Requires, Sold Separately: D100-X2 DRIVER w/ M-Series Power Supply and Aion LED Housing

Components of a complete system include: Aion LED A-Track Light Engine, Aion LED A-Track housing with diffuser lens, & Aion LED driver (power supply). Dimmer not included. Approved dimmers, controls, power supplies, cable, & other components only. Contact Aion LED for questions regarding compatibility. Electrician installed. Strictly adhere to NEC & local building code. Limited 5-year warranty against manufacturing defects only, does not cover labor; voided by: inadequate ventilation, field modifications, installation by unqualified personnel, unapproved controls, drivers, cabling, other devices, not following installation guidelines & protocol, general negligence. Installer assumes all liability with regard to property & safety. This product is UL listed. See separate “Aion LED Warranty Terms” & additional instructional materials for more information. Authorized installers only. Systems tested prior to shipping.

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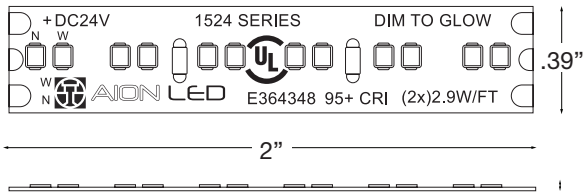
1524-CT3022-LE

Dynamic White Light Engine



2 Channel Fixture:

CH 1: 3000K ~2.8W/ft.

CH 2: 2150K ~2.8W/ft.

TOTAL: 5.61 W/ft.

Min. Increment:

2 in.

Maximum Increment:

30 ft.

	COMBINED	WARM	COOL
Correlated Color Temperature	2519K	2150K	2950K
Lumens /ft.	386.95	174	220.33
Watts /ft.	5.61	2.87	2.86
Efficacy	69	61	77
Color Rendering Index	97	96	98
R9	94.39	87.55	95.63
Input Voltage (VDC)	24.00	24.00	24.00
Input Current (Amp)	0.23	0.12	0.12

E348513

E364348

Requires, Sold Separately: *D100-X2 DRIVER w/ M-Series Power Supply and Aion LED Housing*

Components of a complete system include: Aion LED A-Track Light Engine, Aion LED A-Track housing with diffuser lens, & Aion LED driver (power supply). Dimmer not included. Approved dimmers, controls, power supplies, cable, & other components only. Contact Aion LED for questions regarding compatibility. Electrician installed. Strictly adhere to NEC & local building code. Limited 5-year warranty against manufacturing defects only, does not cover labor; voided by: inadequate ventilation, field modifications, installation by unqualified personnel, unapproved controls, drivers, cabling, other devices, not following installation guidelines & protocol, general negligence. Installer assumes all liability with regard to property & safety. This product is UL listed. See separate “Aion LED Warranty Terms” & additional instructional materials for more information. Authorized installers only. Systems tested prior to shipping.

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Modified: August 7, 2018

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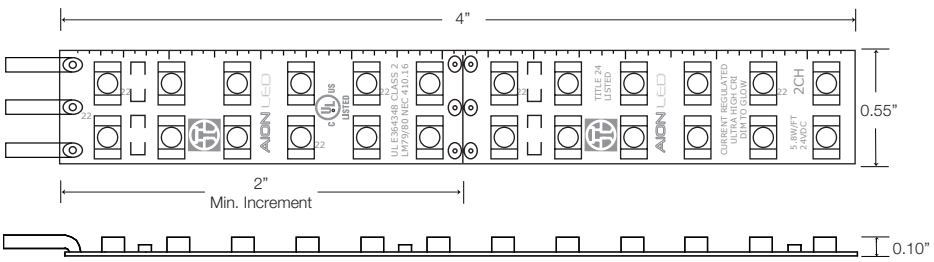
6524-CT3022-LE

Dynamic White Light Engine



2 Channel Fixture:
CH 1: ~5.6W/ft.
CH 2: ~5.6W/ft.
TOTAL: 11.04 W/ft.

Minimum Increment:
2 in.

Maximum Increment:
8 ft.

	COMBINED	WARM	COOL
Correlated Color Temperature	2550K	2150K	2950K
Lumens /ft.	885	405.35	490
Watts /ft.	11.04	5.60	5.61
Efficacy	80	72	87
Color Rendering Index	96	95	98
R9	97.60	96.13	97.89
Input Voltage (VDC)	24.00	24.00	24.00
Input Current (Amp)	0.46	0.23	0.23

E348513

LISTED E364348

Requires, Sold Separately: D100-X2 DRIVER w/ M-Series Power Supply and Aion LED Housing

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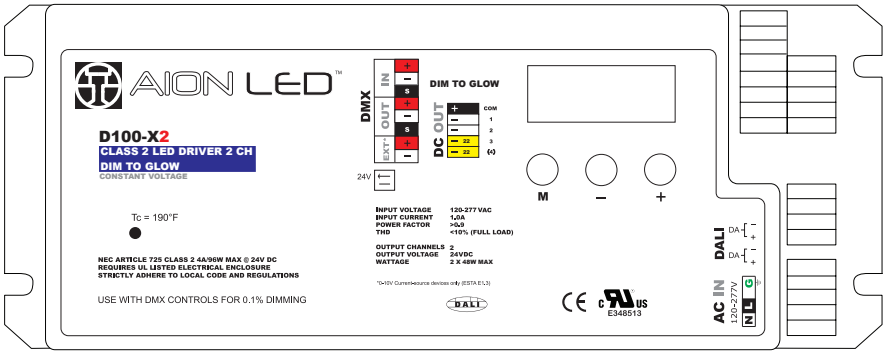
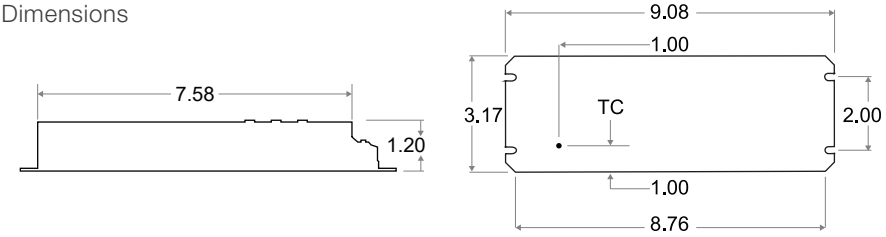
X2

DMX, 2 CHANNEL



Dimensions



DIM TO GLOW™

2 Channel DMX Driver

Factory Programmed for Dim to Glow

Factory Wire Harness for Ease of Installation

Integrated Class 2 Supply

LCD interface

Universal 100-277VAC Input

UL, CE, & CSA APPROVED

Requires UL Listed Enclosure

Default Address 1

MODEL	D100-X2	**DIMENSIONS (L-W-H)"**	9.06 x 3.15 x 1.18”
CASE	DRY & DAMP	**PRIMARY BREAKER**	AUTO-RESET
WATTAGE	96W @ 24 VDC	**DIMMING**	0.1%
INPUT VOLTAGE (Hz)	100-277 VAC, 60HZ	**CONTROL TYPE**	Aion LED AX5-2 Controller, DTM or 3rd Party DMX Interface
INRUSH CURRENT	120 VAC: 35A 240µs 277 VAC: 75A 240µs	**3RD PARTY DMX COMPATIBILITY**	Lutron, Vantage, Crestron, ETC AMX (ANY DMX)
INPUT CURRENT	120 VAC: 1.05A 277 VAC: 0.45A	**THERMAL CLASS**	(B) 130 C
POWER FACTOR	>0.94	**MAX FEET 8924-CT3022**	30 ft. (Max 48W/ Channel)
VOLTAGE LOADED	23.5 VDC	**MAX FEET 1524-CT3022**	30 ft. (Max 48W/ Channel)
VOLTAGE OPEN	24.2 VDC	**MAX FEET 6524-CT3022**	8 ft. (Max 48W/ Channel)

CE FC RoHS c UL us E348513 c UL us LISTED E364348

Requires, Sold Separately: *Aion LED DTM*

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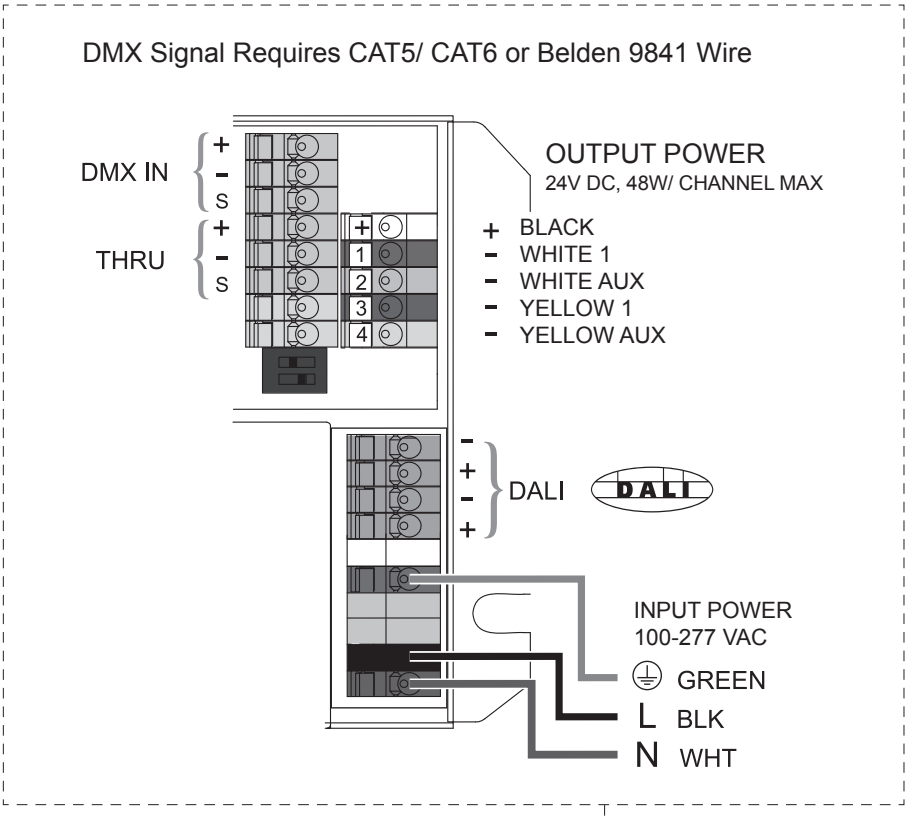


INSTALL PER NEC

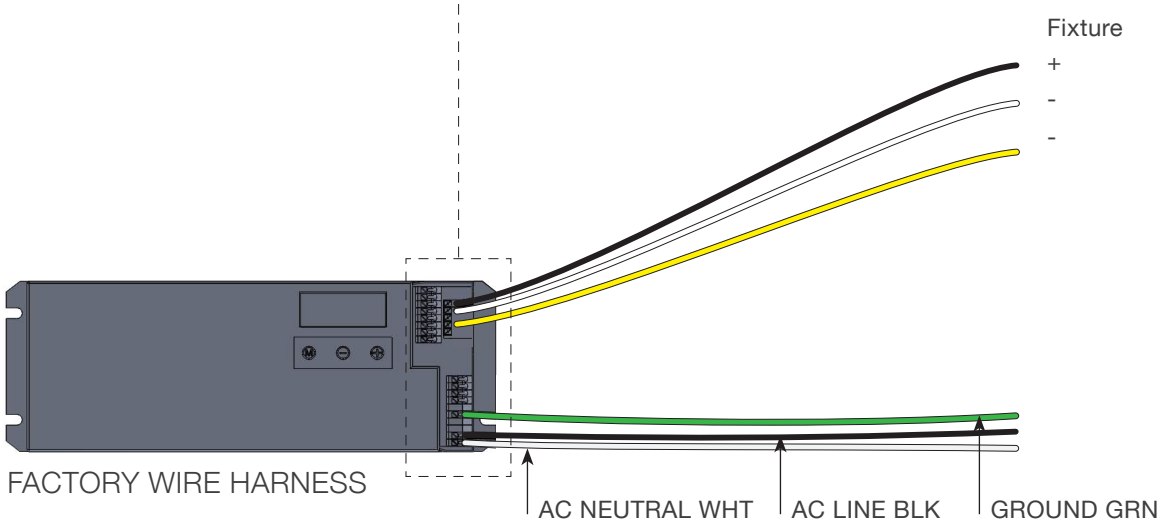
Requires:
DMX Controller & Control Wire Daisy-Chain

Each Fixture Requires:
(1) Black Conductor
(1) White
(1) Yellow

Outputs:
Black= COMMON POS+
White= NEG-
Yellow= NEG-

AC Input:
LINE (BLK)
NEUTRAL (WHT)
GROUND (GRN)

Max Run
(Dictated by Programming)
Max 48W per Channel



E348513
LISTED E364348

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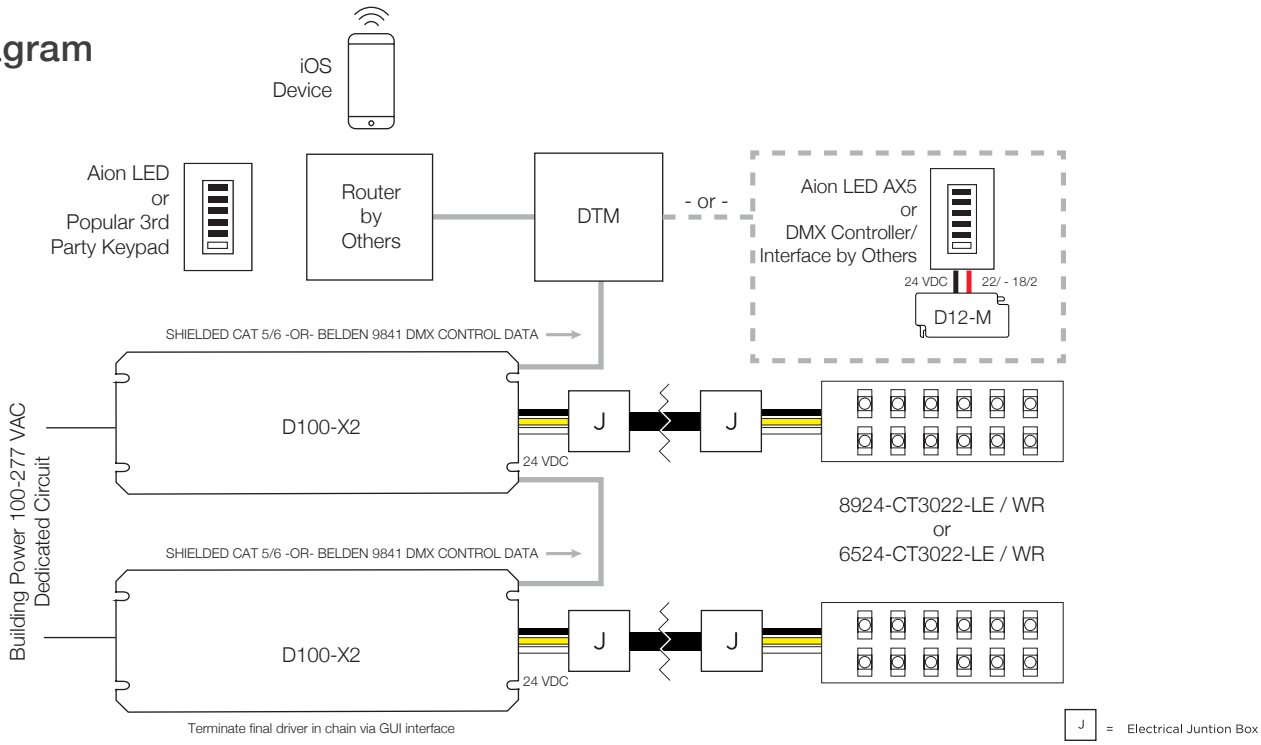
Wiring Diagram

D100-X2



Installation Instructions

1. Install per NEC and Local code by qualified personnel
2. Requires UL Listed enclosure with adequate ventilation
3. Strain-relief wiring to enclosure to prevent wires from pulling out
4. Wire AC power with 18AWG power wire
5. Ensure that jacket goes all the way into connector
6. Connect DMX controller to ‘DMX in’ on first unit with Belden 9841 DMX wire (plus, minus, shield),-or- shielded CAT5/6
7. Daisy chain additional units from ‘DMX out’ to ‘DMX’ of following unit with Belden 9841 cable -or- shielded CAT5/6
8. Terminate only the final unit in DMX chain via programming interface
9. Wire fixture to wire harness with wire nuts [White, Yellow, DC+ (Black)]
10. Drivers are pre-programmed and tested at Aion LED for specific Aion LED fixtures. Each of the four D100-X series models (X1,X2, X3, X4) ship with a separate and unique Aion LED factory wiring harness for plug and play functionality and to eliminate mistakes in the field. Aside from changing the default DMX address (1) via supplied GUI interface, or activating “Termination” on the final unit in a control chain, only certified integrators and qualified personnel should attempt changing other settings. Default programming settings are for reference only.

E348513

LISTED E364348

Components of a complete system include: Aion LED A-Track Light Engine, Aion LED A-Track housing with diffuser lens, & Aion LED driver (power supply). Dimmer not included. Approved dimmers, controls, power supplies, cable, & other components only. Contact Aion LED for questions regarding compatibility. Electrician installed. Strictly adhere to NEC & local building code. Limited 5-year warranty against manufacturing defects only, does not cover labor; voided by: inadequate ventilation, field modifications, installation by unqualified personnel, unapproved controls, drivers, cabling, other devices, not following installation guidelines & protocol, general negligence. Installer assumes all liability with regard to property & safety. This product is UL listed. See separate “Aion LED Warranty Terms” & additional instructional materials for more information. Authorized installers only. Systems tested prior to shipping.

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Programming Guide

D100-X2

USER MENU

Highlighted Yellow = User Defined

M	DMX Address = 1 Default
M	Network Resolution = 8 bit
M	Term = No terminate final driver in chain
M	Network Set = Manual
M	Interpolation = White

TO LOCK/ UNLOCK MODE MENU

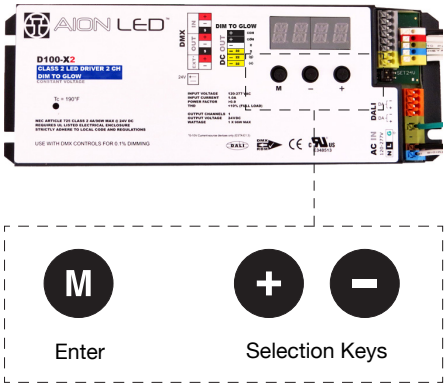
M + +	Hold for 3 seconds, then select (+) or (-) to lock or unlock

TO ACCESS OUTPUT MENU

M + +	Hold for 0.5 seconds LED = 2 - 4 L
M	External Input = OFF
M	Dim Curve = Log

TO ACCESS MODE MENU

M	Hold for 3 seconds SET MODE = DMX
− + +	SET MODE = DMX, DALI, SHOW
M	Select M to Select



Can operate Aion LED X Series with DMX or DALI controls. DMX as default. To change to DALI, follow appropriate steps on page 2 of programming guide.

Ensure all wiring is correct and properly terminated

Default DMX address is 1 and can be changed via GUI interface.

Drivers are pre-programmed and tested at Aion LED for specific Aion LED fixtures. Each of the four D100-X series models (X1,X2, X3, X4) ship with a separate and unique Aion LED factory wiring harness for plug and play functionality and to eliminate mistakes in the field.

Aside from changing the default DMX address (1) via supplied GUI interface, or activating “Termination” on the final unit in a control chain, only certified integrators and qualified personnel should attempt changing other settings. Default programming settings are for reference only.

Components of a complete system include: Aion LED A-Track Light Engine, Aion LED A-Track housing with diffuser lens, & Aion LED driver (power supply). Dimmer not included. Approved dimmers, controls, power supplies, cable, & other components only. Contact Aion LED for questions regarding compatibility. Electrician installed. Strictly adhere to NEC & local building code. Limited 5-year warranty against manufacturing defects only, does not cover labor; voided by: inadequate ventilation, field modifications, installation by unqualified personnel, unapproved controls, drivers, cabling, other devices, not following installation guidelines & protocol, general negligence. Installer assumes all liability with regard to property & safety. This product is UL listed. See separate “Aion LED Warranty Terms” & additional instructional materials for more information. Authorized installers only. Systems tested prior to shipping.

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Programming Guide

D100-X2

DALI

M	Press M to view the number of ballasts connected (Channels per fixture). Address is set by DALI Control (or via LED type set in DMX menu.)
M	Press M again to view address (ADDR SET) or if one has not been set (NO ADDR)
M	Press M again to exit configuration and turn off display

In DALI mode, fixtures are addressed through the DALI controller

SHOW

M	Press M and (+) or (-) to select a different SHOW sequence (1-20)
M	Press M again and (+) or (-) to change the speed (SPD) of the selected show sequence (-99 through 99) -99 Twice as Slow 0 Sequence's Default 99 Twice as Fast
M	Press M again and (+) or (-) to change the intensity (INT) of the selected show sequence (0 through 255) 0 Off 255 Full On
M	Press M again to exit configuration and turn off display

SHOW mode is intended to pretest fixtures prior to controls installation. Return to DMX or DALI mode after testing.

Components of a complete system include: Aion LED A-Track Light Engine, Aion LED A-Track housing with diffuser lens, & Aion LED driver (power supply). Dimmer not included. Approved dimmers, controls, power supplies, cable, & other components only. Contact Aion LED for questions regarding compatibility. Electrician installed. Strictly adhere to NEC & local building code. Limited 5-year warranty against manufacturing defects only, does not cover labor; voided by: inadequate ventilation, field modifications, installation by unqualified personnel, unapproved controls, drivers, cabling, other devices, not following installation guidelines & protocol, general negligence. Installer assumes all liability with regard to property & safety. This product is UL listed. See separate "Aion LED Warranty Terms" & additional instructional materials for more information. Authorized installers only. Systems tested prior to shipping.

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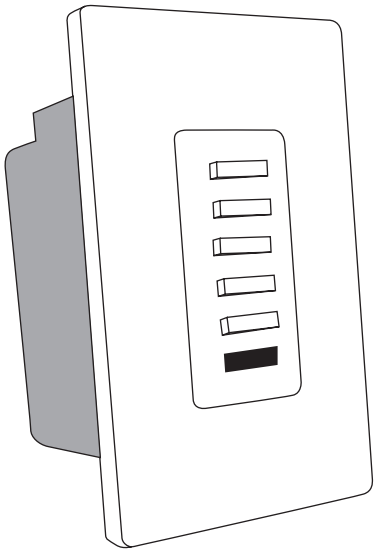
AX5-2
Compact DMX Controller



AX5 ships pre-programmed to factory default settings per application

Standard Decora™ Mounting

Optional programming software, USB interface & remote control available

Requires Approved DMX Signal Cable, Including Belden 9841 -Sold Separately

Requires D12-M-24 Power Supply

MODEL	AX5-2
DIMENSIONS (L-W-H)"	1.8 x 1.8 x 4.1"
WEIGHT	2.9 oz
POWER	2- POSITION SPRING CLIP TERMINAL
DMX PORT	3- POSITION REMOVABLE TERMINAL BLOCK
INPUT	24 VDC

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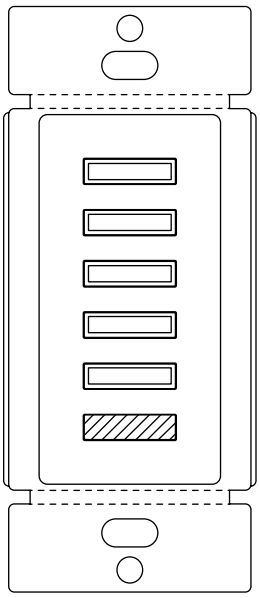
DEFAULT PROGRAMMING



Up: 2150K @ 0.1% - 2950K @100%

Down: 2950K @100% - 2150K @ 0.1%, Off

Scene: 2150K - 2700K - 2950K @100%

Demo

Off

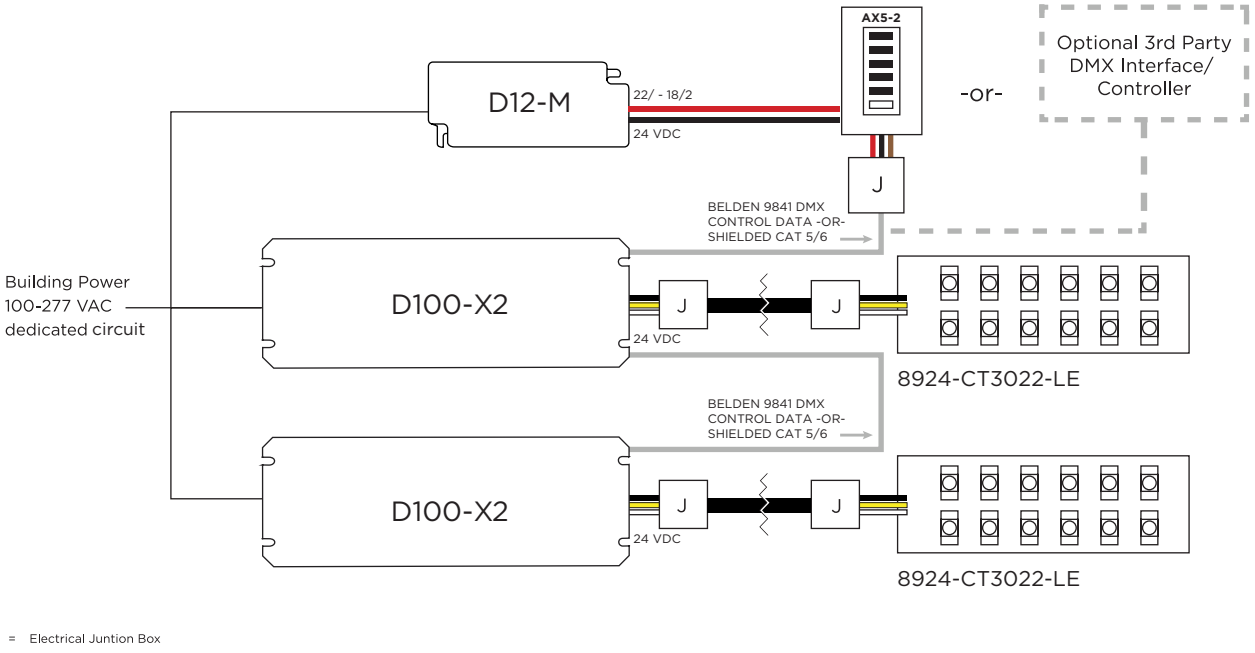
AX5 ships pre-programmed to factory default settings per application

Requires Approved DMX Signal Cable, Including Belden 9841 -Sold Separately

Requires D12-M-24 Power Supply

Default programming subject to change without notice

AX5-2 WIRING DIAGRAM



J = Electrical Juntion Box

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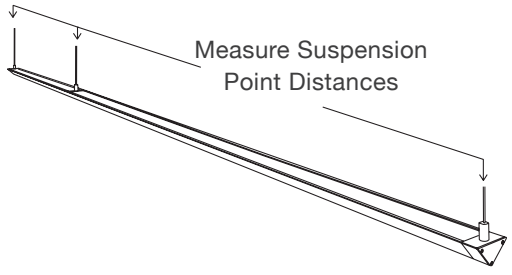
PRELIMINARY SPECIFICATION, SUBJECT TO CHANGE WITHOUT NOTICE

ST SERIES

Linear Pendant System

Please include reflected ceiling plan.
Note suspension point distances, power feed locations*
and total overall lengths of fixtures.



Power Feed Requirements

9524-FR	1 per 8’ max
8924-LE	1 per 16’ max
4924-LE	1 per 32’ max

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AION LED®

ST SERIES | DIM TO GLOW | SYSTEM SPECIFICATION

NAME	TYPE	SPECIFIER

HOUSING

ST850	- LENS	- FINISH
	F Frosted C Clear P Prismatic	BLK Black WHT White
ST850-C CORNER	- LENS	- FINISH
	F Frosted C Clear P Prismatic	BLK Black WHT White

DIM TO GLOW LIGHT ENGINE

□□24 LIGHT ENGINE	- CT3022	- LE
65 6524 15 1524 89 8924		

LEADS

POWER LEADS	TOTAL SUSPENSION POINTS
CT□-A24 White 96” CTB-A24 Black 96” CT□-A□□ Custom	SK-2 2 SK-3 3 SK-4 4

DRIVER

X DMX, 2 CHANNEL	AX5 DMX CONTROLLER	DYNAMIC TUNER MODULE & IOS APP
☐ D100-X2	☐ AX5-2 ☐ D12-M	☐ **Configuration A** No Keypad ☐ **Configuration B** Aion LED Keypad ☐ **Configuration C** Authorized 3rd Party Control

Required Fixture Lengths

Please input fixture lengths/ quantity & configuration types

☐ **Standard Lengths**
Light Engines are cut to minimum increments Track measurements are rounded down and cut to the inch. 1” tolerance

☐ **Precision Lengths**
Light Engines are cut to minimum increments Track is cut to a fraction of an inch. 1/8” tolerance

ZONE	LENGTH	QUANTITY	CONFIGURATION TYPE

Notes

Refer to Light Engine Data Sheets for Light Engine Increments.

Allow tolerance for wiring/ plugs

Fixtures up to Class 2 max. length

Fully assembled up to ≤ 8 ft. (96 in).

Fixtures > 8 ft. (96 in) may require assembly at the job site.

SIGNATURE

☐ Final Order Lengths (Requires Signature)

☐ Budgetary only, requires field verification

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