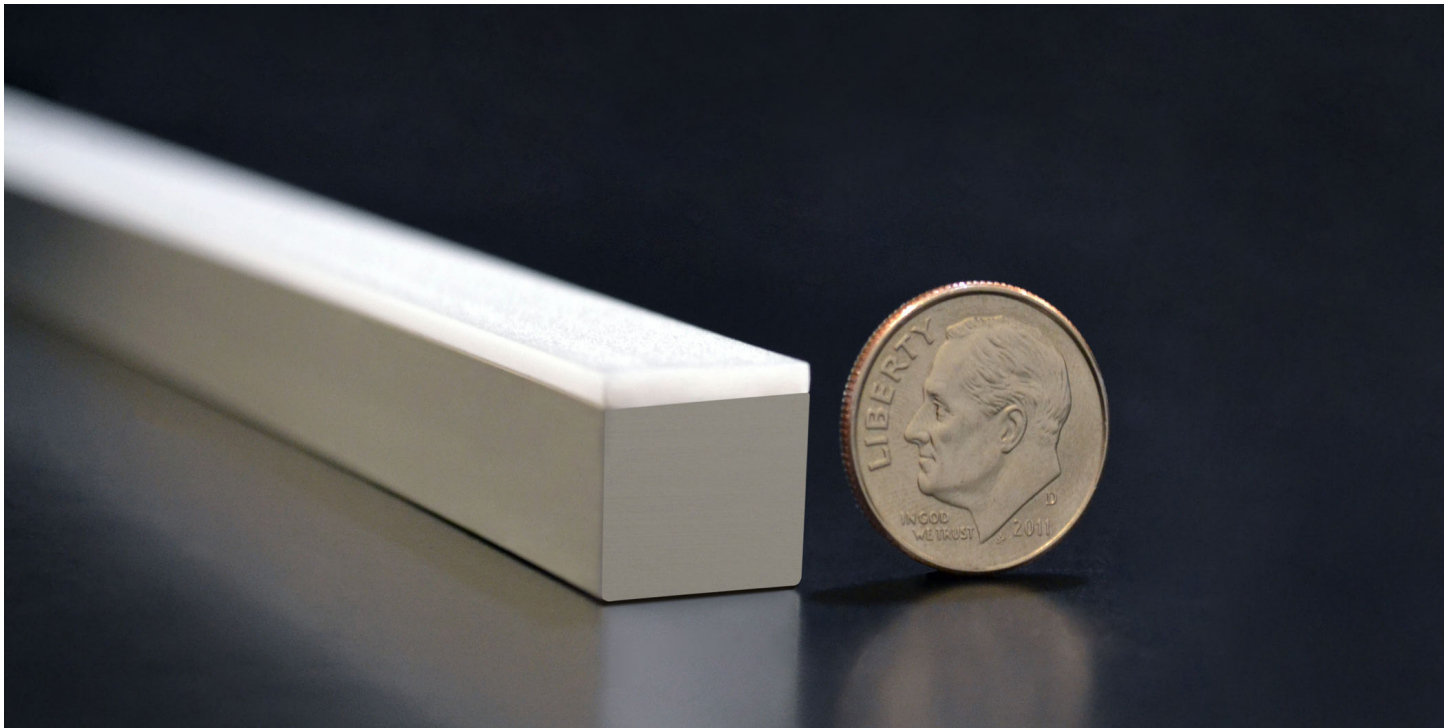


MT Series



**Compact, Low Profile**

High Rendering, 100% Diffusion

**Trimless, No Visible Hardware**

Trimless appearance for recessed applications and millwork

**Made in USA**

Fabricated with high quality American aluminum and premium UV stable optics

**Custom Lengths**

Pre-assembled: ≤ 8 ft. (96 in)

Assembly Required: > 8 ft. (96 in)

Must be installed in accordance with  
NEC 410.16 for use in clothing closet  
spaces

See separate installation instructions  
Patent Pending - Made in the USA



PRELIMINARY SPECIFICATION, SUBJECT TO CHANGE WITHOUT NOTICE

## Customization Options

MT Series fixtures are semi custom and made to order.

### Lens

Frosted

### Finish

Anodized Silver  
Custom Color

### Length

Custom pre-cut  
Field Cuttable

### Mounting

Standard  
Magnetic

### Wiring

24" Leads  
48" Leads  
Custom length leads  
M/F Disconnect Plugs

### Feed

End

Color for Leads & Plugs:  
White standard with silver track  
Black standard with black track

MT Series orders include:  
MT Series housing, lens, end caps  
wire grommets & mounting channel

Tested as suitable for use within  
clothing closet spaces by ETL/ Intertek

Must be installed in accordance with  
NEC 410.16 for use in clothing closet  
spaces

See separate installation instructions  
Patent Pending - Made in the USA



PRELIMINARY SPECIFICATION, SUBJECT TO CHANGE WITHOUT NOTICE

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.

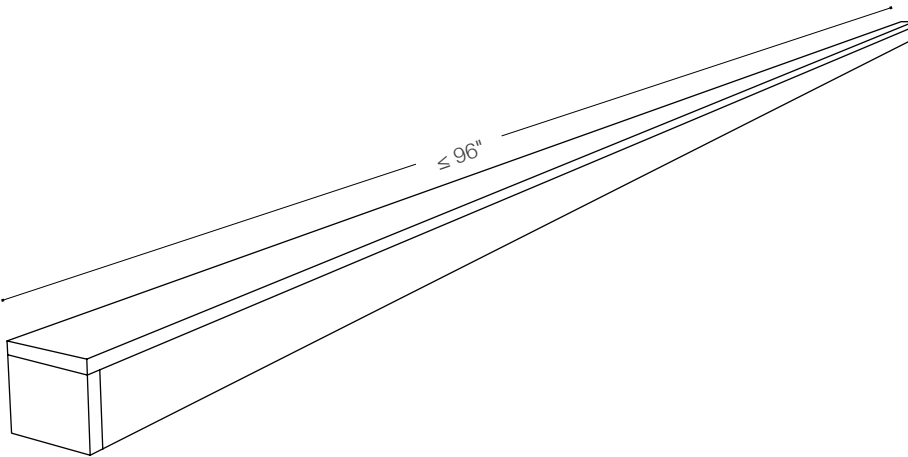


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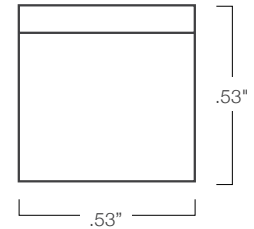
Modified: March 14, 2018

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**MT101  
HOUSING**



**Dimensions**



Actual Size  
Scale 1:1



**Lengths**

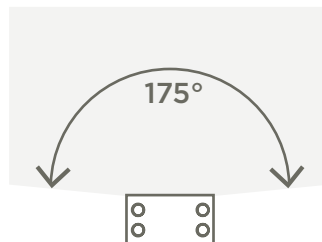
Pre-assembled:  
≤ 8 ft. (96 in)

Assembly Required:  
> 8 ft. (96 in)

Custom Leads,  
Plugs & Connectors

**Optic**

- Frosted Lens
- Widest Angle
- Mid-Transmittance
- 100% Diffusion



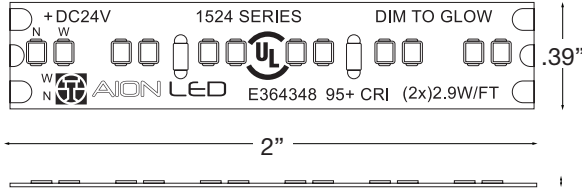
**Compatibility**

**ZERO DIM™**  
1524-LE

**DIM TO GLOW™**  
1524-CT3022-LE



**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

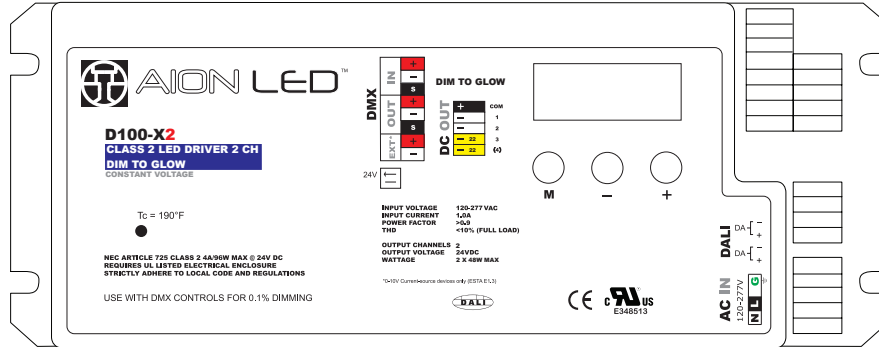


*Requires, Sold Separately: D100-X2 DRIVER w/ M-Series Power Supply and Aion LED Housing*

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.

## X2

### DMX, 2 CHANNEL



### 2 Channel DMX Driver

Factory Programmed for Dim to Glow

Factory Wire Harness for Ease of Installation

Integrated Class 2 Supply

LCD interface

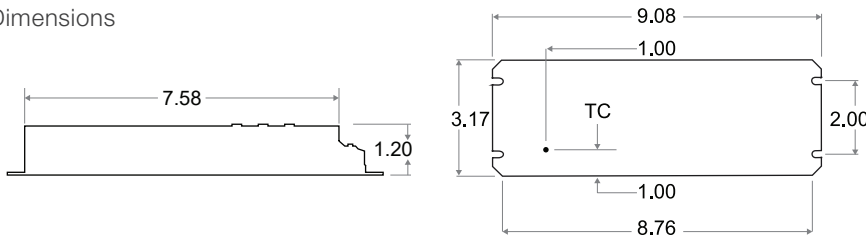
Universal 100-277VAC Input

UL, CE, & CSA APPROVED

Requires UL Listed Enclosure

Default Address 1

### Dimensions



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)



Requires, Sold Separately: Aion LED DTM

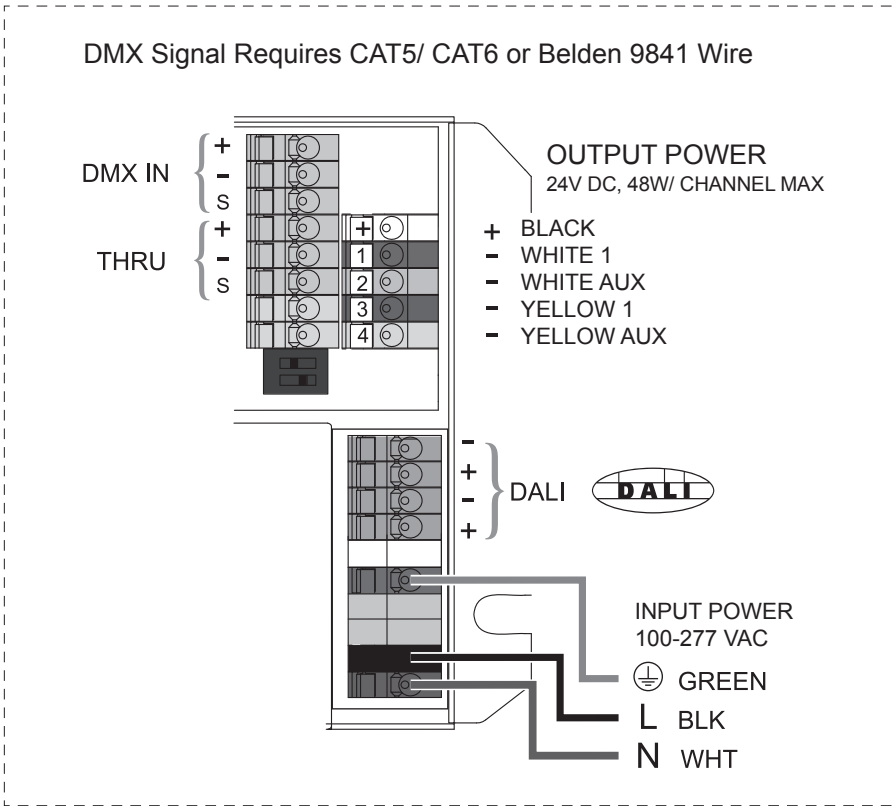
Components of a complete system include: Aion LED A-Track Light Engine, Aion LED A-Track housing with diffuser lens, & Aion LED driver (power supply). Dimmer not included. Approved dimmers, controls, power supplies, cable, & other components only. Contact Aion LED for questions regarding compatibility. 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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**INSTALL PER NEC**

**Requires:**  
DMX Controller & Control Wire Daisy-Chain

**Each Fixture Requires:**

- (1) Black Conductor
- (1) White
- (1) Yellow

**Outputs:**

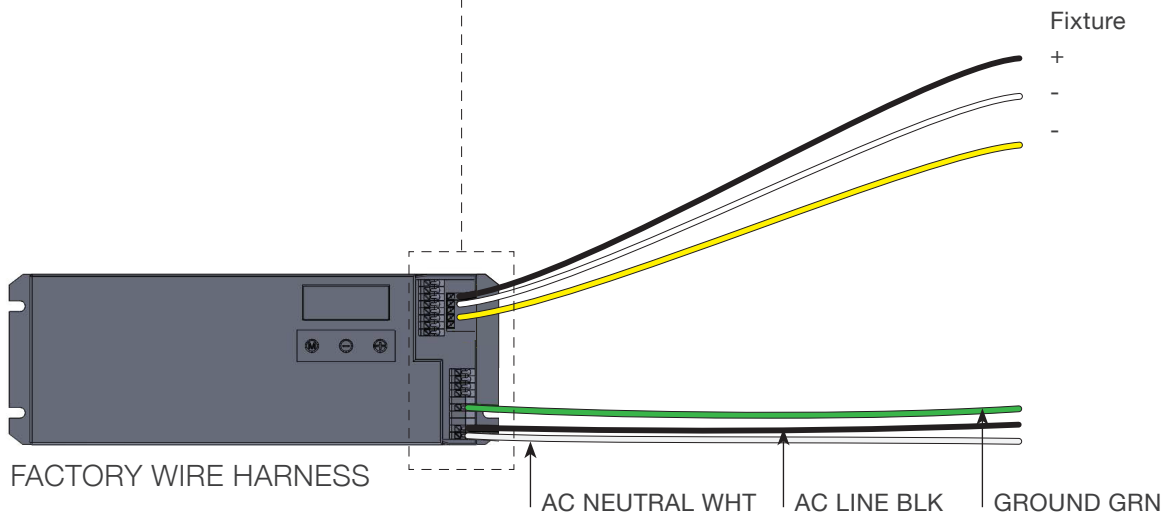
- Black= COMMON POS+
- White= NEG-
- Yellow= NEG-

**AC Input:**

- LINE (BLK)
- NEUTRAL (WHT)
- GROUND (GRN)

**Max Run**

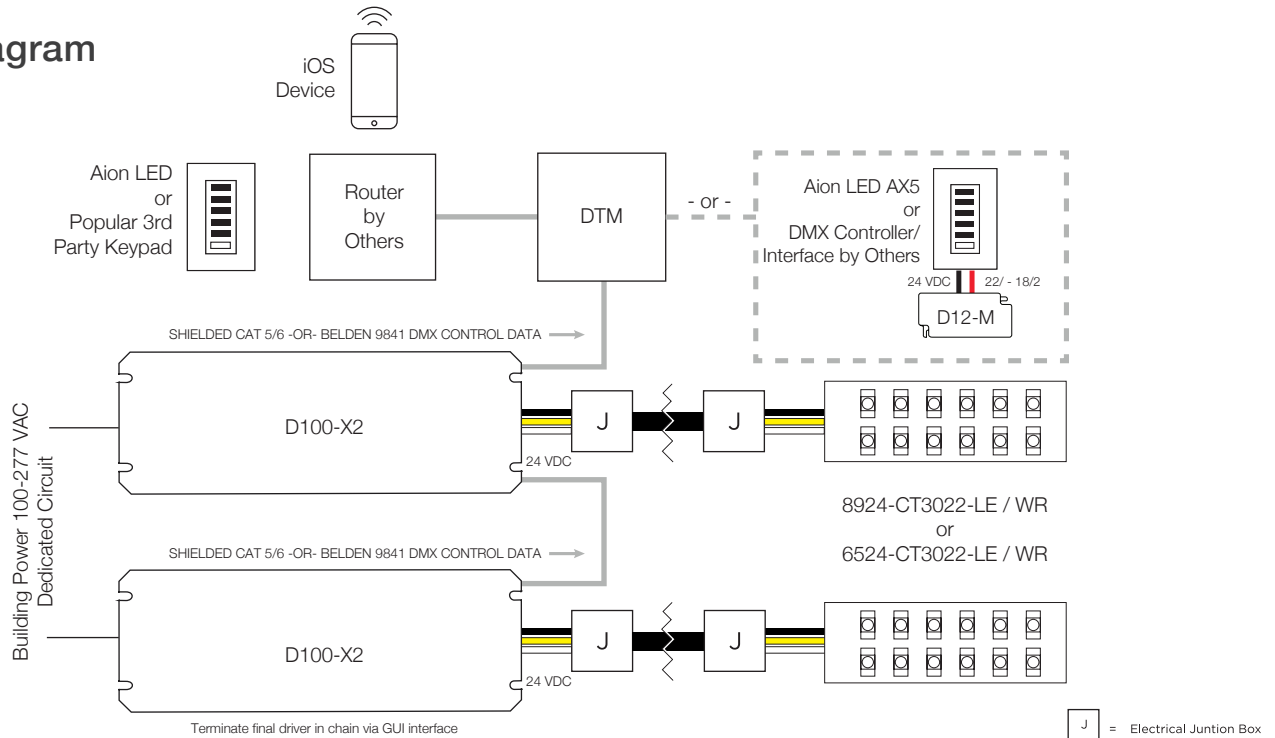
- (Dictated by Programming)
- Max 48W per Channel



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.

## 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.



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

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

### TO LOCK/ UNLOCK MODE MENU

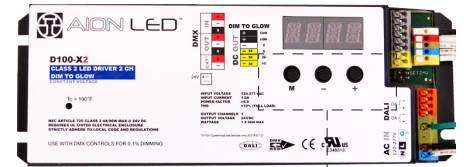
<b>M</b> + <b>+</b>	Hold for 3 seconds, then select (+) or (-) to lock or unlock
---------------------	--

### TO ACCESS OUTPUT MENU

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

### TO ACCESS MODE MENU

<b>M</b>	Hold for 3 seconds SET MODE = DMX
<b>-</b> + <b>+</b>	SET MODE = <b>DMX, DALI, SHOW</b>
<b>M</b>	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.



## Programming Guide

D100-X2

### DALI

<b>M</b>	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.)
<b>M</b>	Press M again to view address (ADDR SET) or if one has not been set (NO ADDR)
<b>M</b>	Press M again to exit configuration and turn off display

In DALI mode, fixtures are addressed through the DALI controller

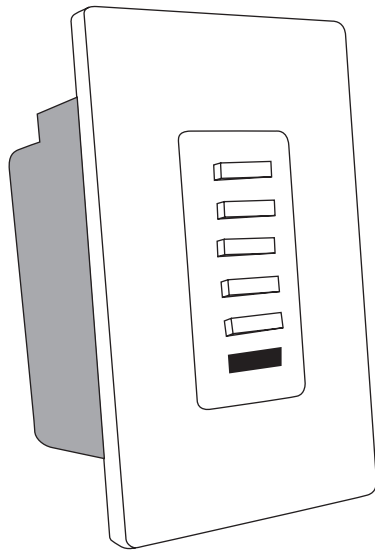
### SHOW

<b>M</b>	Press M and (+) or (-) to select a different SHOW sequence (1-20)
<b>M</b>	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
<b>M</b>	Press M again and (+) or (-) to change the intensity (INT) of the selected show sequence (0 through 255) 0                              Off 255                              Full On
<b>M</b>	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.

## 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

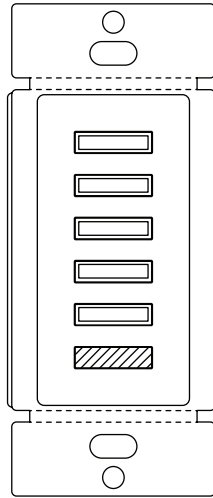
Requires Approved DMX Signal Cable, Including Belden 9841 -Sold Separately

Requires D12-M-24 Power Supply

MODEL	AX5-22
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

## Default Programming

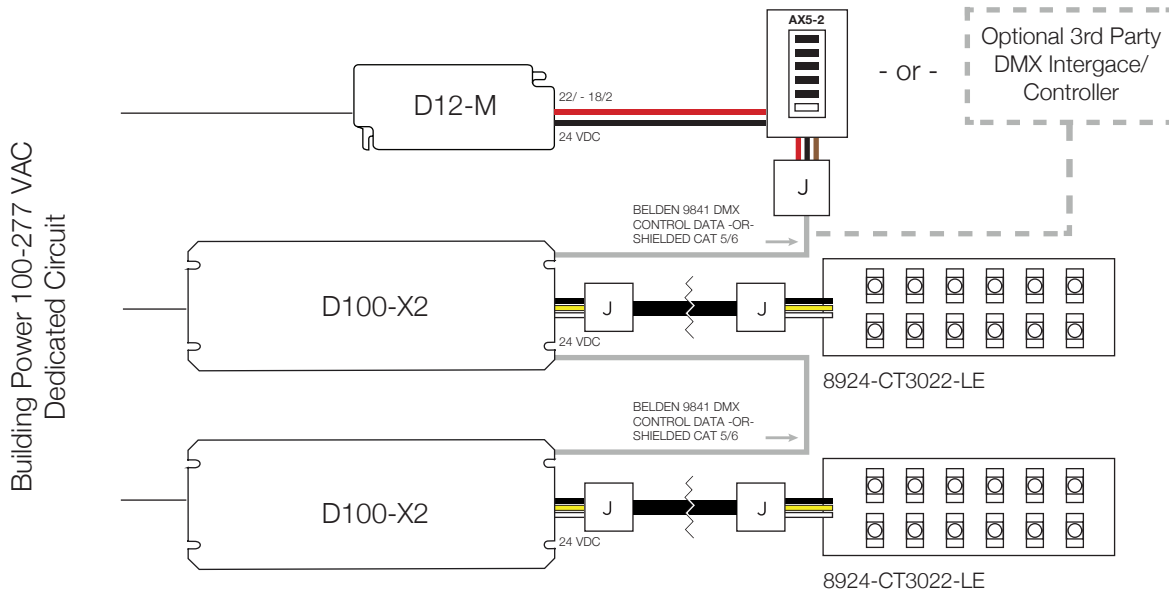
AX5-2



Up: 2150K @ 0.1% - 2950K @100%  
 Down: 2950K @100% - 2150K @ 0.1%, Off  
 Scene: 2150K - 2700K - 2950K @100%  
 Demo  
 Off

## Wiring Diagram

AX5-2



**J** = Electrical Junction Box

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.

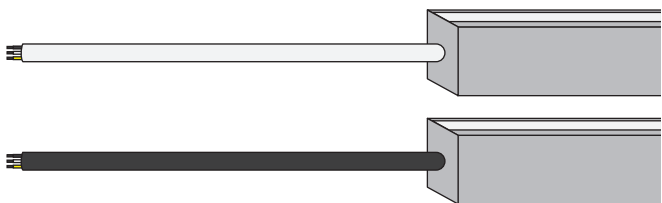
## LEADS & PLUGS

Dim to Glow

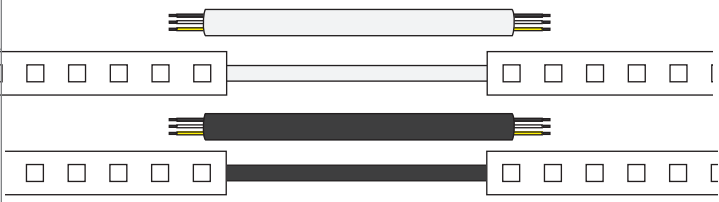
Low-Voltage Class 2/3 Power Cable by Aion LED

UV Rated · Indoor/ Outdoor

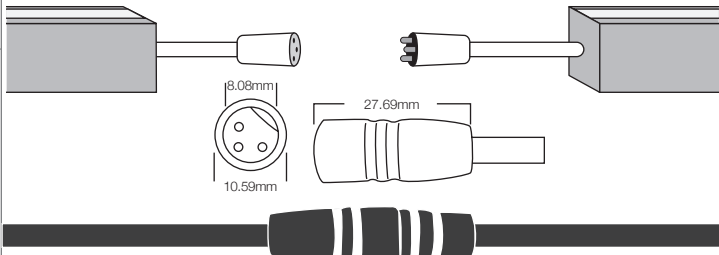
### Fixture Power Lead

Fixture Power Lead	White Jacket	Black Jacket	
12" Power Lead	CT-A12	CTB-A12	
24" Power Lead	CT-A24	CTB-A24	
48" Power Lead	CT-A48	CTB-A48	

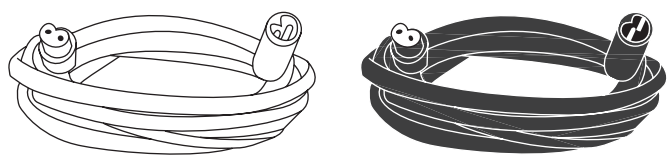
### Hard Wire Jumper- Recommended with WR Type & LE Applications Only

Hard Wire Jumper	White Jacket	Black Jacket	
4" Hard Wire Jumper	CT-C4	CTB-C4	
12" Hard Wire Jumper	CT-C12	CTB-C12	
24" Hard Wire Jumper	CT-C24	CTB-C24	

### 3 Pin Plugs- Recommended with all AT Series Housings & Fixtures

3 Pin Jumper w/ Disconnect	White Jacket	Black Jacket	
4" Jumper with Disconnect	CT-BP4	CTB-BP4	
12" Jumper with Disconnect	CT-BP12	CTB-BP12	
24" Jumper with Disconnect	CT-BP24	CTB-BP24	
48" Jumper with Disconnect	CT-BP48	CTB-BP48	

### Patch Cord- Optional, to Extend Length

Patch Cord	White Jacket	Black Jacket	
24" M to F Extension Cord	BP-3FM24	BPB-3FM24	
48" M to F Extension Cord	BP-3FM48	BPB-3FM48	
96" M to F Extension Cord	BP-3FM96	BPB-3FM96	



Black standard for dark bronze housings  
White standard for silver housings

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.

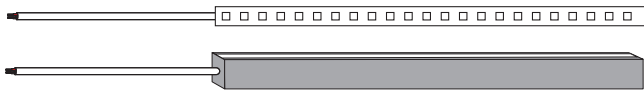
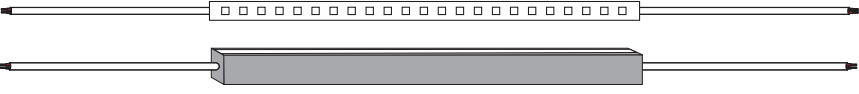
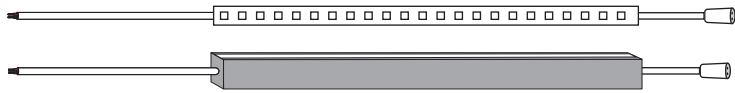
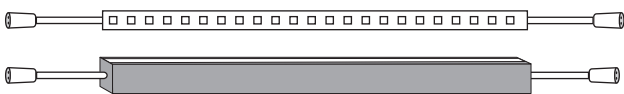
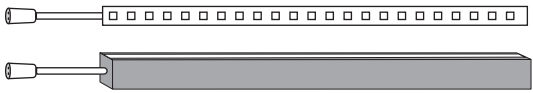





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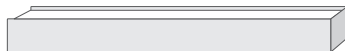
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Unless Otherwise Noted, Leads are 24" and Plugs are 4". Other Lengths Available

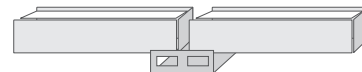
- |                                     |   |  |
|-------------------------------------|---|--|
| <input checked="" type="checkbox"/> | <b>CONFIGURATION 1</b><br>Power Lead to Fixture<br><i>Default, Unless Otherwise Noted</i>                       |    |
| <input type="checkbox"/>            | <b>CONFIGURATION 2</b><br>Power Lead to Fixture with End Lead   |    |
| <input type="checkbox"/>            | <b>CONFIGURATION 3</b><br>Power Lead to Fixture with End Plug   |    |
| <input type="checkbox"/>            | <b>CONFIGURATION 4</b><br>Power Plug to Fixture with End Plug   |    |
| <input type="checkbox"/>            | <b>CONFIGURATION 5</b><br>Power Plug to Fixture   |   |
| <input type="checkbox"/>            | <b>CONFIGURATION 6</b><br><b>NOT COMPATIBLE WITH TRACK</b><br>Power Lead to Fixture with Jumper to Next Fixture |  |
| <input type="checkbox"/>            | <b>CONFIGURATION 7</b><br><b>NOT COMPATIBLE WITH TRACK</b><br>Jumper to Fixture with Jumper to Next Fixture     |  |
| <input type="checkbox"/>            | <b>CONFIGURATION 8</b><br><b>NOT COMPATIBLE WITH TRACK</b><br>Jumper to Fixture                                 |  |

### A-TRACK FIXTURES

Pre-assembled: ≤ 8 ft (96 in)



Assembly Required: > 8 ft (96 in)



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.

