**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**

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

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 personne, 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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DMX Signal Requires CAT5/ CAT6 or Belden 9841 Wire

 installment 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
**Wiring Diagram**

**D100-X2**

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**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.
Programming Guide
D100-X2

USER MENU

| M | DMX Address = 1 Default |
| M | Network Resolution = 8 bit |
| M | Term = No |
| 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.

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Programming Guide
D100-X2

**DALI**

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

**SHOW**

- Press M and (+) or (-) to select a different SHOW sequence (1-20)
- 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
- Press M again and (+) or (-) to change the intensity (INT) of the selected show sequence (0 through 255)
  - 0: Off
  - 255: Full On
- Press M again to exit configuration and turn off display

In DALI mode, fixtures are addressed through the DALI controller

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