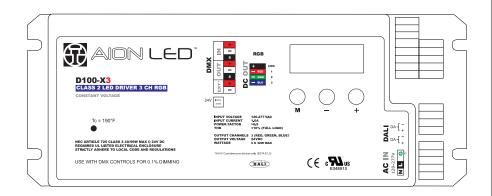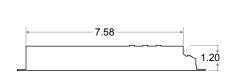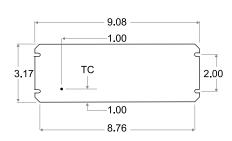# X3

3 Channel DMX Driver

RGB

3 Channel DMX Driver

Integrated Class 2 Supply

LCD interface

Universal 100-277VAC Input

UL, CE, & CSA APPROVED

Requires UL Listed Enclosure

Factory Programmed for RGBW+

Factory Wire Harness for Ease of Installation

Default Address 1

MODEL	D100-X3		
CASE	DRY & DAMP	DIMENSIONS (L-W-H)"	9.06 x 3.15 x 1.18"
WATTAGE	96W @ 24 VDC	PRIMARY BREAKER	AUTO-RESET
INPUT VOLTAGE (Hz)	100-277 VAC, 60HZ	DIMMING	0.1%
INRUSH CURRENT	120 VAC: 35A 240µs 277 VAC: 75A 240µs	CONTROL TYPE	Aion LED AX5-3 Controller, DTM or 3rd Party DMX Interface
INPUT CURRENT	120 VAC: 1.05A 277 VAC: 0.45A	3RD PARTY DMX COMPATIBILITY	Lutron, Vantage, Crestron, ETC AMX (ANY DMX)
POWER FACTOR	>0.94	THERMAL CLASS	(B) 130 C
VOLTAGE LOADED	23.5 VDC	MAX FEET 7024-RGB	20
VOLTAGE OPEN	24.2 VDC	MAX FEET 5024-RGB	35

AION LED®

DMX Signal Requires CAT5/ CAT6 or Belden 9841 Wire

DMX IN { + − S }

THRU { + − S }

OUTPUT POWER
96W @ 24 VDC

+ BLACK
− RED
− GREEN
− BLUE

1
2
3
4

− +
+
− } DALI

DALI

INPUT POWER
100-277 VAC

⏚ GREEN
L BLK
N WHT

INSTALL PER NEC

Requires:
DMX Controller & Control Wire Daisy-Chain

Fixture Load:
Requires 4 Conductor Cable
Black = Common POS +
Red, Green, Blue = NEG -

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

Max Run:
7024-RGB: 20 ft.
5024-RGB: 35 ft.

DC+ BLK

DC+

DC-

GROUND GRN

AC LINE BLK

AC NEUTRAL WHT

FACTORY WIRE HARNESS

CE FC ♦RoHS c ᴜᴸ us E348513 c (UL) us LISTED E364348

X3 WIRING DIAGRAM

iOS
Device

Aion LED
or
Popular 3rd
Party Keypad

Router
by
Others

DTM

- or -

Aion LED AX5
or
DMX Controller/
Interface by Others

24 VDC   22/ - 18/2

D12-M

SHIELDED CAT 5/6 -OR- BELDEN 9841 DMX CONTROL DATA

D100-X3

24 VDC

J

J

Building Power 100-277 VAC
Dedicated Circuit

7024-RGB-LE / WR

SHIELDED CAT 5/6 -OR- BELDEN 9841 DMX CONTROL DATA

D100-X3

24 VDC

J

J

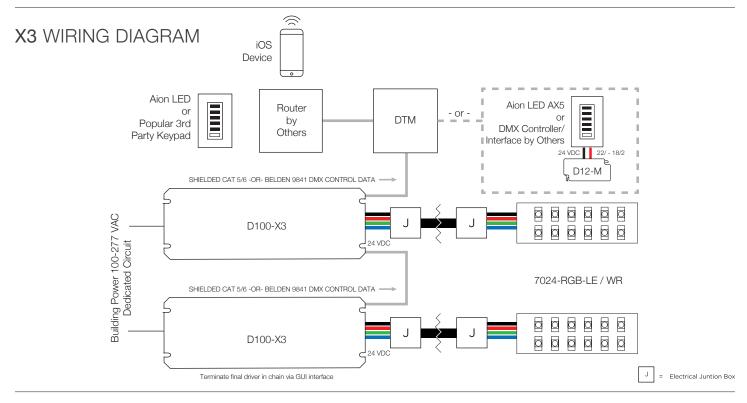Terminate final driver in chain via GUI interface

J = Electrical Juntion Box

X3 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

7. Daisy chain additional units from 'DMX out' to 'DMX' of following unit with Belden 9841 cable -or- shielded CAT5

8. Terminate only the final unit in DMX chain via programming interface

9. Wire fixture to wire harness with wire nuts [R, G, B, 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.
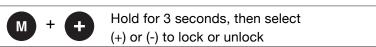
CE FC RoHS UL c us E348513 UL c us LISTED E364348

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Modified: November 29, 2017
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X3 PROGRAMMING GUIDE

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 = Color

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 =RGB
M		External Input = OFF
M		Dim Curve = Log

TO ACCESS MODE MENU

M	Hold for 3 seconds SET MODE = DMX

M Enter

+ **−** Selection Keys

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.