

# LOGIC Drive 2X

## User Manual



Model ID: LOGICDRIVE2X

# ILUMINARC®

## Edition Notes

The LQGIC Drive 2X User Manual includes a description, safety precautions, installation, programming, operation and maintenance instructions for the LQGIC Drive 2X as of the release date of this edition.

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## Document Printing

For best results, print this document in color, on letter size paper (8.5 x 11 in), double-sided. If using A4 paper (210 x 297 mm), configure the printer to scale the content accordingly.

## Intended Audience

Any person installing, operating, and/or maintaining this product should completely read through the guide that shipped with the product, as well as this manual, before installing, operating, or maintaining this product.

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## Document Revision

This LQGIC Drive 2X User Manual is the 1<sup>st</sup> edition of this document. Go to [www.iluminarc.com](http://www.iluminarc.com) for the latest version.

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# 1. Before You Begin

## What Is Included

- LQGIC Drive 2X
- Seetronic Powerkon IP65 power cable
- LQGIC Wall Controller
- 1 Short rack ear bracket
- 1 Long rack ear bracket
- Quick Reference Guide

## Claims

Carefully unpack the product immediately and check the container to make sure all the parts are in the package and are in good condition.

If the box or the contents (the product and included accessories) appear damaged from shipping, or show signs of mishandling, notify the carrier immediately, not Chauvet. Failure to report damage to the carrier immediately may invalidate your claim. In addition, keep the box and contents for inspection.

For other issues, such as missing components or parts, damage not related to shipping, or concealed damage, file a claim with Chauvet within 7 days of delivery.

## Text Conventions

| Convention           | Meaning                                            |
|----------------------|----------------------------------------------------|
| <b>1–512</b>         | A range of values                                  |
| <b>50/60</b>         | A set of values of which only one can be chosen    |
| <b>Settings</b>      | A menu option not to be modified                   |
| <b>&lt;ENTER&gt;</b> | A key to be pressed on the product's control panel |

## Symbols

| Symbol                                                                              | Meaning                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Critical installation, configuration, or operation information. Not following these instructions may make the product not work, cause damage to the product, or cause harm to the operator. |
|  | Important installation or configuration information. The product may not function correctly if this information is not used.                                                                |
|  | Useful information.                                                                                                                                                                         |



The term “DMX” used throughout this manual refers to the USITT DMX512-A digital data transmission protocol.

## FCC Compliance

This device complies with Part 15 Part B of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## Safety Notes

Read all the following safety notes before working with this product. These notes contain important information about the installation, usage, and maintenance of this product.



**This product contains no user-serviceable parts. Any reference to servicing in this User Manual will only apply to properly trained, certified technicians. Do not open the housing or attempt any repairs.**



**All applicable local codes and regulations apply to proper installation of this product.**

## Personal Safety

- Always disconnect the product from the power source before cleaning or replacing the fuse.
- Always connect the product to a grounded circuit to avoid the risk of electrocution.
- Do not touch the product's housing when operating because it may be very hot.

## Mounting and Rigging

- The product is intended for professional use only.
- DO NOT operate this product outdoors or in any location where dust, excessive heat, water, or humidity may affect it. (IP20)
- CAUTION: When transferring product from extreme temperature environments, (e.g., cold truck to warm humid ballroom) condensation may form on the internal electronics of the product. To avoid causing a failure, allow product to fully acclimate to the surrounding environment before connecting it to power.
- Mount this product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
- Make sure there are no flammable materials within 20 in (50 cm) of this product while it is operating.
- When hanging this product, always secure to a fastening device using a safety cable.
- Never carry the product by the power cord.

## Power and Wiring

- Make sure the power cord is not crimped or damaged.
- Always make sure you are connecting this product to the proper voltage in accordance with the specifications in this manual or on the product's specification label.
- Never connect this product to a dimmer pack or rheostat.
- Make sure to replace the fuse with another of the same type and rating.
- Never disconnect this product by pulling or tugging on the power cable.
- If the external flexible cable or cord of this product is damaged, it shall be replaced with a special cable or cord exclusively available from the manufacturer or its service agent.

## Operation

- Do not operate this product if there is damage on the housing or cables. Have the damaged parts replaced by an authorized technician at once.
- Do not cover the ventilation slots when operating to avoid internal overheating.
- The maximum ambient temperature is 113 °F (45 °C). Do not operate this product at higher temperatures.
- The minimum startup temperature is -4°F (-20°C). Do not start the product at lower temperatures.
- The minimum ambient temperature is -22°F (-30°C). Do not operate the product at lower temperatures.
- In the event of a serious operation problem, stop using this product immediately!



If your Chauvet product requires service, contact Chauvet Technical Support.

## 2. Introduction

### Description

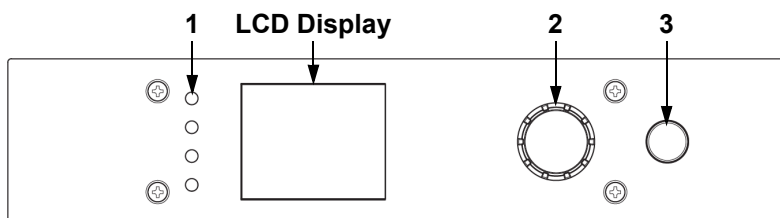
The Iluminarc LQIG Drive 2X is the heart of the LQIG Lighting System. With two Ethernet outputs supplying 110W each (Power Over Ethernet), the LQIG Drive 2X functions as the central control and power unit of the LQIG System. Accepting a variety of control schemes, the Drive also integrates calendar and scheduling functions, and easily connects to an included eight button wall panel or any industry standard wall controller.

### Features

- 2 POE (Power Over Ethernet) outputs, each supplying up to 110W
- Control options include standard wall controllers, or DMX input via 5-pin XLR, Art-Net, or sACN
- Occupancy sensor-enabled
- Supports fixture hot-swapping and automatic fixture detection
- Current and voltage monitoring
- RDM compliant

### Product Overview

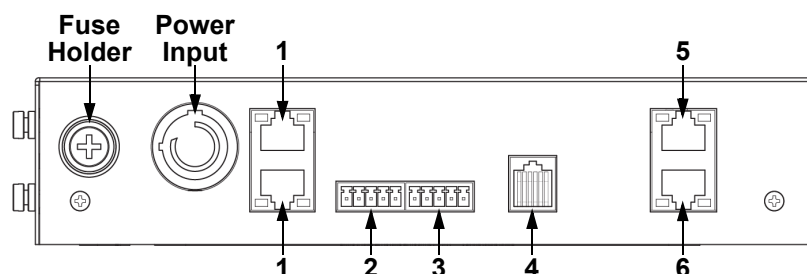
#### Front Panel Overview



#### Front Panel Description

| # | Name              | Function                                                                                                                                                                                                                                  |
|---|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | LED indicators    | <b>POWER:</b> green, indicates power connection<br><b>NET:</b> yellow, indicates ethernet connection<br><b>ACT:</b> white, indicates controller signal<br><b>ERROR:</b> red, indicates an error (see <b>Warning Messages</b> in the menu) |
| 2 | <MENU> knob       | Rotate to navigate upwards or downwards through the menu list, and increase or decrease a selected numeric value. Push to enable the currently displayed menu option or set the currently selected value into the selected function.      |
| 3 | <ESC/BACK> button | Exits the current menu or function                                                                                                                                                                                                        |

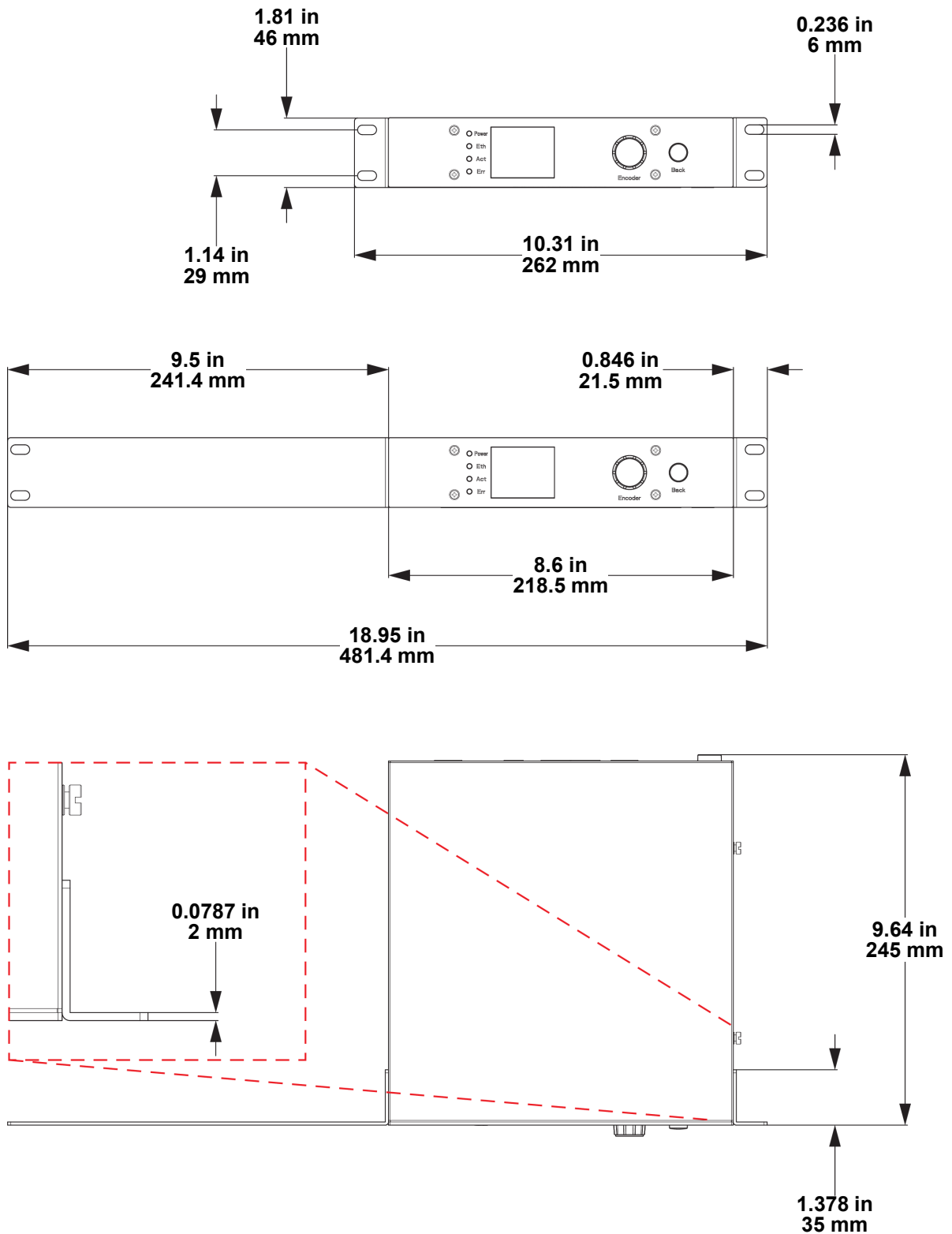
#### Rear Panel Overview



#### Rear Panel Description

| # | Name     | Function                                                   |
|---|----------|------------------------------------------------------------|
| 1 | IN/THRU  | RJ45 connectors for ethernet input and through             |
| 2 | DMX IN   | 5-pin phoenix connector for DMX input                      |
| 3 | DMX OUT  | 5-pin phoenix connector for DMX output                     |
| 4 | WALL CON | RJ12 connector for LQIG Wall Controller                    |
| 5 | OUTPUT 1 | RJ45 connector for output to first group of LQIG products  |
| 6 | OUTPUT 2 | RJ45 connector for output to second group of LQIG products |

## Product Dimensions



### 3. Setup

#### AC Power

The LQIG Drive 2X has an auto-ranging power supply and it can work with an input voltage range of 100 to 240 VAC, 50/60 Hz.

To determine the product's power requirements (circuit breaker, power outlet, and wiring), use the current value listed on the label affixed to the product's back panel, or refer to the [Technical Specifications](#). The listed current rating indicates the product's average current draw under normal conditions.



**Always connect the product to a protected circuit (a circuit breaker or fuse). Make sure the product has an appropriate electrical ground to avoid the risk of electrocution or fire.**

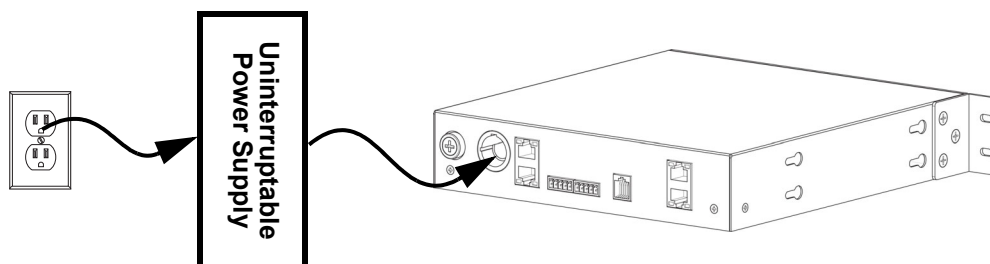


**Never connect the product to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.**

#### Emergency Backup Power

To keep the LQIG system powered on and maintain the lighting in the case of an emergency, it is recommended to use a battery backup UPS (Uninterruptable Power Supply) between the LQIG Drive 2X and the mains power, as well as between each POE injector and the mains power.

This UPS can be one which is hardwired directly to the power cord included with the LQIG Drive 2X, or one with 120V Edison ports. See [AC Plug](#) for wiring information.



#### AC Plug

The LQIG Drive 2X comes with a power input cord terminated with a Seetronic Powerkon IP65 connector on one end and an Edison plug on the other end (U.S. market). If the power input cord that came with the product has no plug, if the plug must be changed, or if the cable needs to be hardwired to a UPS, use the table below ensure correct wiring.

| Connection | Wire (U.S.)  | Wire (Europe) | Screw Color     |
|------------|--------------|---------------|-----------------|
| AC Live    | Black        | Brown         | Yellow or Brass |
| AC Neutral | White        | Blue          | Silver          |
| AC Ground  | Green/Yellow | Green/Yellow  | Green           |

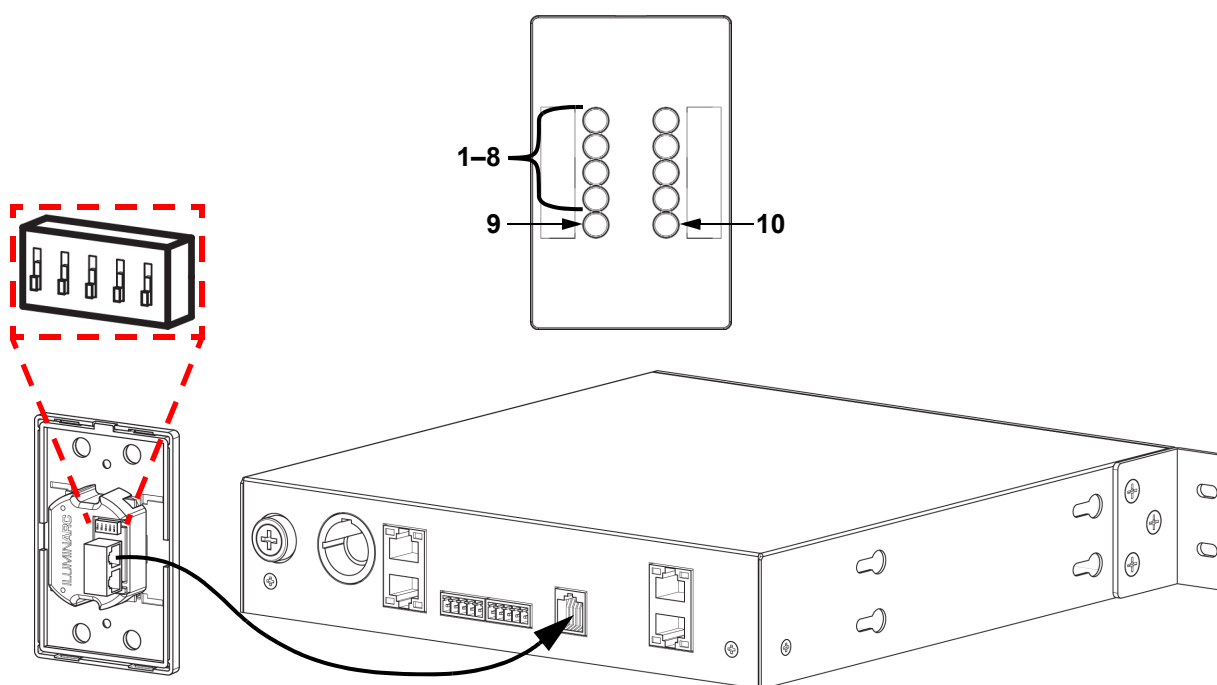
#### Fuse Replacement

1. Disconnect this product from the power outlet.
2. Using a flat-head screwdriver, unscrew the fuse holder cap from the housing.
3. Remove the blown fuse and replace with another fuse of the same type and rating (F 20 A, 250 V).
4. Screw the fuse holder cap back in place and reconnect power.

## LQIG Wall Controller

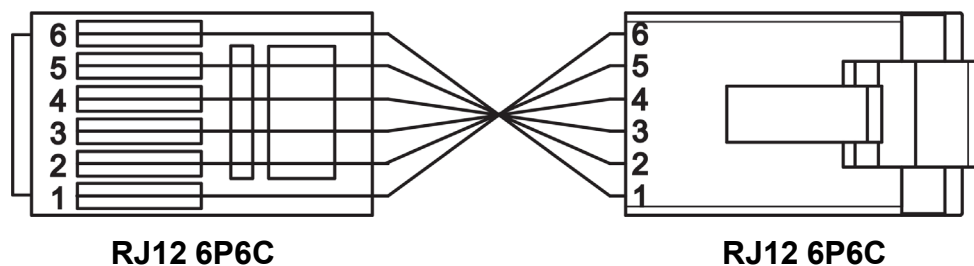
Each LQIG Drive 2X comes with a LQIG Wall Controller which can plug into the RJ12 connector on the back of the product.

- Buttons 1–8 trigger playback of the corresponding recorded scenes (see [Record](#)).
- After triggering a scene, press that button again and hold it for 6-10 seconds to lock the controls and prevent tampering. The selected button's LED backlight will flash to indicate success. Press and hold the button again to unlock the controls. See [Scene Lock](#) for more information.
- Buttons 9 and 10 decrease and increase the brightness of the connected LQIG products.
- 5-bit DIP switches set the address of the LQIG Wall Controller. Each LQIG Wall Controller must have a unique address set by this DIP switch (from 0–31), or the LQIG Drive 2X will be unable to respond to any LQIG Wall Controller. The order of addresses does not matter, only that they do not repeat.
- Up to 4 LQIG Wall Controller products can be chained to one LQIG Drive 2X, allowing versatile and convenient control from multiple locations.
- The LQIG Wall Controller requires an RJ12 cable with flipped/reversed wiring. See [RJ12 Cable Wiring](#) for more information.



## RJ12 Cable Wiring

The LQIG Wall Controller requires an RJ12 cable with flipped/reversed wiring. This means that pin 1 on one side connects to pin 6 on the other side, pin 2 connects to pin 5, pin 3 connects to pin 4, and so on. Using an RJ12 cable without flipped wiring may damage the product.



**WARNING!** The LQIG Wall Controller requires a flipped/reverse RJ12 cable! Incorrect wiring may damage the product!

## Signal Connections

The LQIC Drive 2X can receive a DMX, RDM, Art-Net™, or sACN control signal. If using other compatible products with this product, each can be individually controlled with a single controller.

### Control Personalities

The LQIC Drive 2X uses a 5-pin phoenix connection to receive DMX or RDM, or an ethernet connection to receive Art-Net™ or sACN, and a CAT6 ethernet connection to send control data to connected products for its 9 control personalities, ranging from 1 to 10 channels.

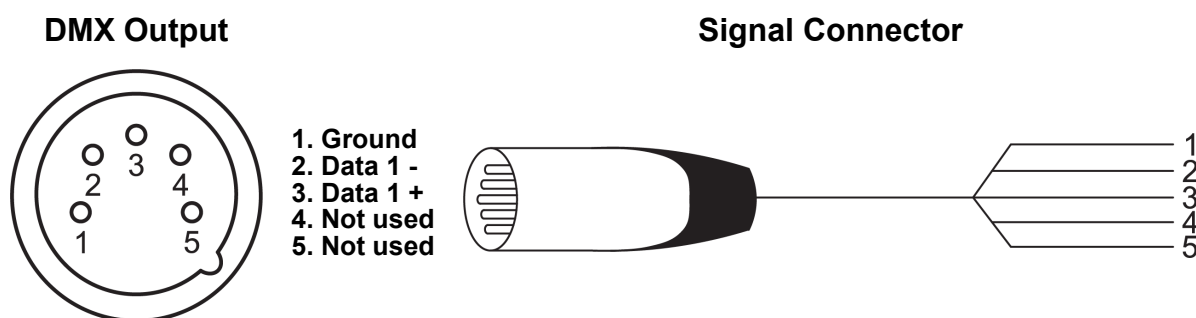
- Refer to the [Operation](#) chapter to learn how to configure the LQIC Drive 2X to work in these personalities.
- The [Control Channel Assignments and Values](#) section provides detailed information regarding the control personalities.



**If you are not familiar with or need more information about DMX standards or the DMX cables needed to link this product to a DMX controller, download the DMX Primer from the Chauvet website: [www.iluminarc.com](http://www.iluminarc.com).**

### DMX Linking

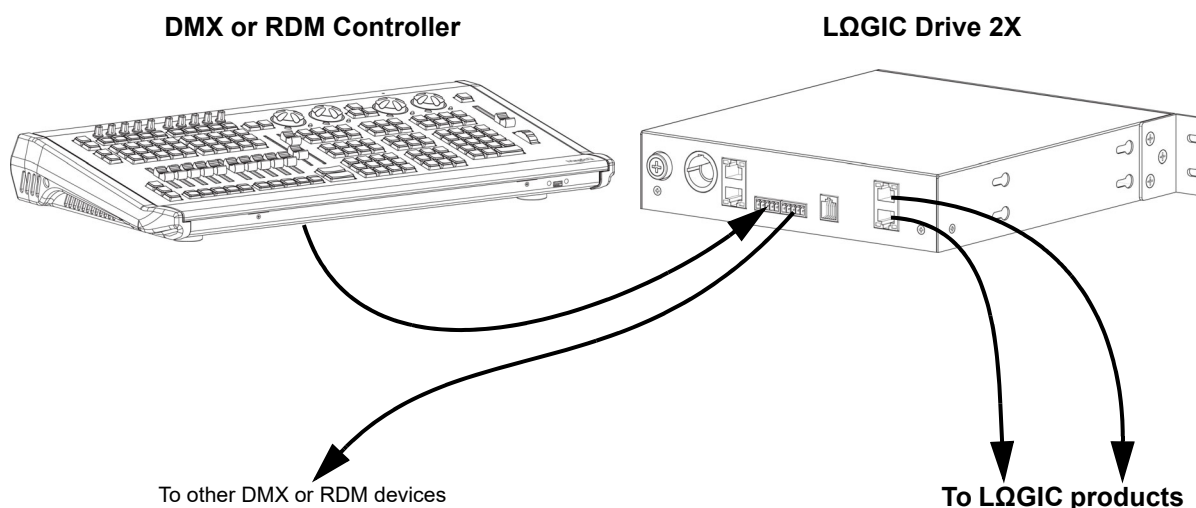
The LQIC Drive 2X will work with a DMX controller using a 5-pin phoenix connector. For more information about DMX, read the DMX primer at: [https://www.chauvetprofessional.com/wp-content/uploads/2016/06/DMX\\_Primer.pdf](https://www.chauvetprofessional.com/wp-content/uploads/2016/06/DMX_Primer.pdf).



### Remote Device Management (RDM)

Remote Device Management, or RDM, is a standard for allowing DMX-enabled devices to communicate bi-directionally along existing DMX cabling. Check the DMX controller's User Manual or with the manufacturer as not all DMX controllers have this capability. The LQIC Drive 2X supports RDM protocol that allows feedback to make changes to menu map options.

### DMX/RDM Connection Diagram



### Art-Net™ Connection

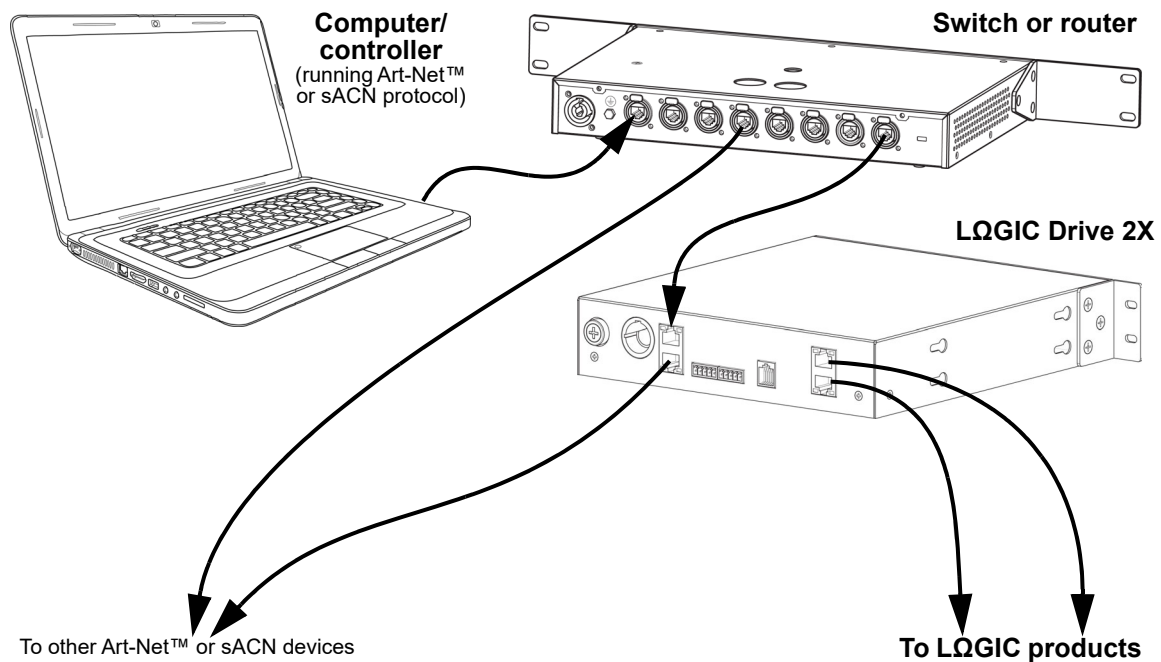
Art-Net™ is an Ethernet protocol that uses TCP/IP which transfers a large amount of DMX512 data using an ethernet connection over a large network. An Art-Net™ protocol document is available from [www.iluminarc.com](http://www.iluminarc.com).

Art-Net™ designed by and copyright Artistic Licence Holdings Ltd.

### sACN Connection

Also known as ANSI E1.31, streaming ACN is an Ethernet protocol that uses the layering and formatting of Architecture for Control Networks to transport DMX512 data over IP or any other ACN compatible network.

### Ethernet Connection Diagram



### Terminating CAT6 Cables with RJ45 Connectors

The LQIC Drive 2X communicates with Art-Net™ or sACN controllers and with connected LQIC products via RJ45 ethernet ports. In many applications, a cable with an attached connector will not fit through the required space, but will fit without the connector.

The LQIC system requires the use of T568B standard cable termination. Use the following table and diagram to ensure the RJ45 connectors are installed correctly to the CAT6 cables.

| Pin | Wire Color   | Pair | Diagram |  |  |
|-----|--------------|------|---------|--|--|
| 1   | White/Orange | 2    | Pair 2  |  |  |
| 2   | Orange       | 2    |         |  |  |
| 3   | White/Green  | 3    | Pair 1  |  |  |
| 4   | Blue         | 1    |         |  |  |
| 5   | White/Blue   | 1    | Pair 3  |  |  |
| 6   | Green        | 3    |         |  |  |
| 7   | White/Brown  | 4    | Pair 4  |  |  |
| 8   | Brown        | 4    |         |  |  |

## LQIGIC Product Chaining

The LQIGIC Drive 2X powers and controls each connected LQIGIC product via a Power Over Ethernet (POE) connection. When linking LQIGIC products to the LQIGIC Drive 2X, there is a set maximum number of each LQIGIC product which can be powered by a single port.

| Product                  | Capacity per Port/POE | Power Consumption (per Product/Total) |
|--------------------------|-----------------------|---------------------------------------|
| LQIGIC AR111 Downlight M | 3                     | 27 W each / 81 W total                |
| LQIGIC AR111 Downlight S | 5                     | 15.5 W each / 77.5 W total            |
| LQIGIC MR16 Downlight S  | 8                     | 8.3 W each / 66.4 W total*            |
| LQIGIC Cove M            | 5                     | 15 W each / 75 W total                |
| LQIGIC Cove S            | 8                     | 9.3 W each / 74.4 W total             |
| LQIGIC Graze L           | 2                     | 37.5 W each / 75 W total              |
| LQIGIC Graze S           | 6                     | 12.5 W each / 75 W total              |



\*The LQIGIC MR16 Downlight S has additional power requirements which affect the maximum number of products that can be linked per port or POE injector. See [LQIGIC POE X Linking](#) for more information

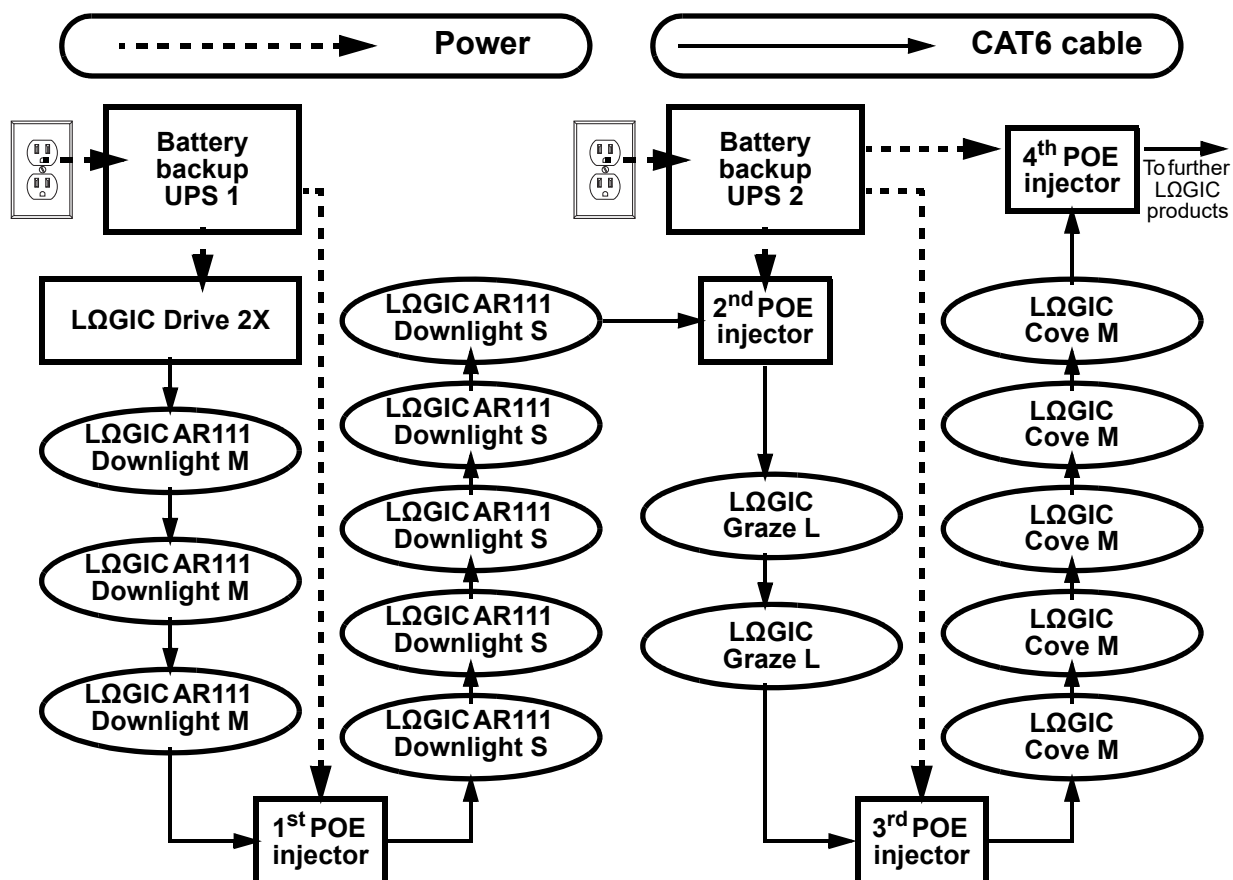
Once that capacity has been reached, a POE injector must be incorporated into the chain to continue adding products. By continuing to add POE injectors as needed, a total of 40 LQIGIC products can be linked to each port of the LQIGIC Drive 2X, regardless of the power consumption per product.

Use only POE++, IEEE 802.3 bt, type 4 injectors (4PPOE).



When using 3rd party POE injectors with the LQIGIC system, the power consumption monitoring function in the LQIGIC Drive 2X may become unavailable.

Refer to the [Technical Specifications](#) for the total maximum cable lengths possible.



## Mixing LQIG Products

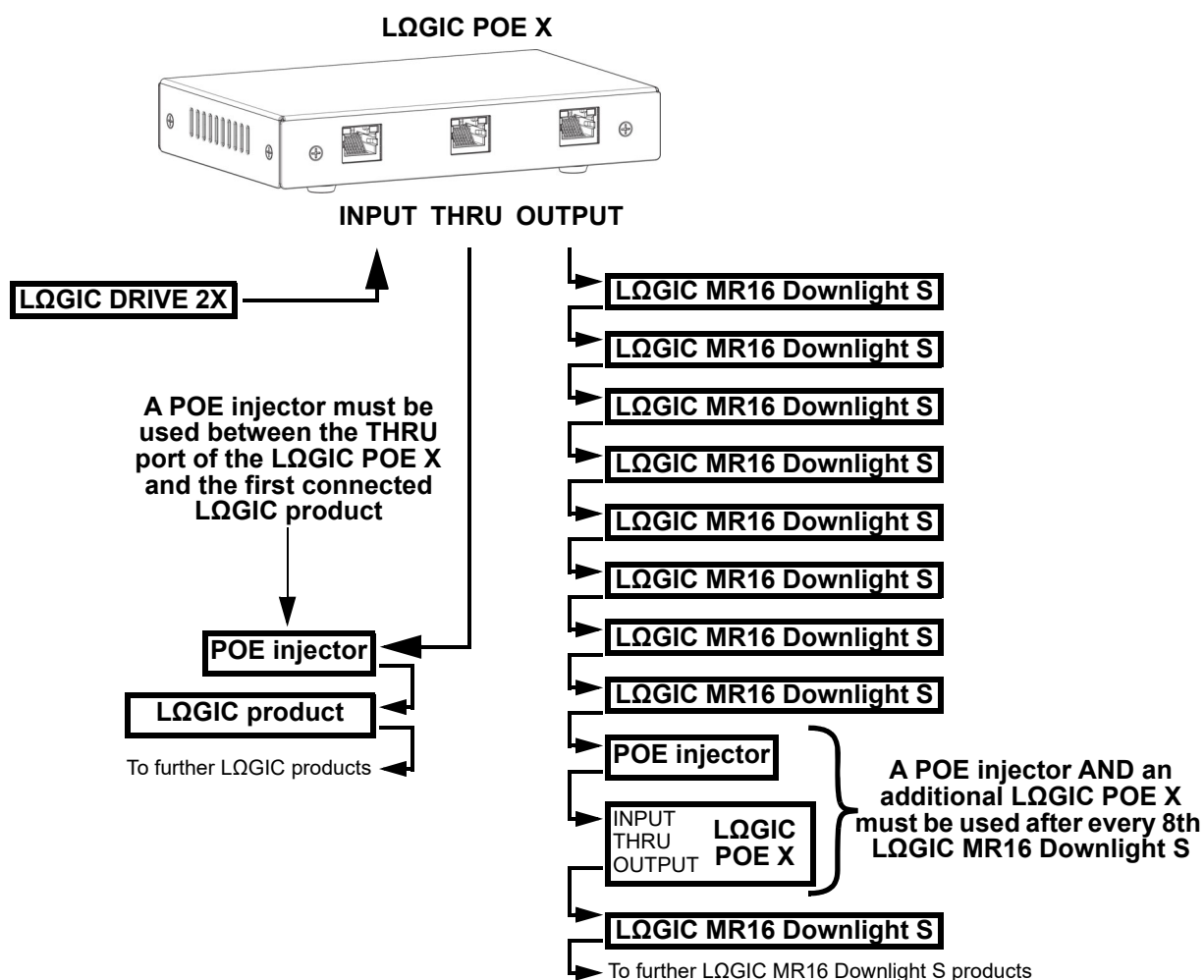
While it is not recommended to mix different LQIG products in a section of chain powered by a single POE injector, it is possible to do so. For the best results when mixing multiple product types, keep the combined power consumption at or under 75 W before adding another POE injector to the chain.

## LQIG POE X Linking

The LQIG MR16 Downlight S requires the use of a LQIG POE X between the first LQIG MR16 Downlight S in a chain and the LQIG Drive 2X or any POE injector. The LQIG POE X steps down the POE voltage and performs a digital handshake which is necessary to allow the LQIG MR16 Downlight S to link correctly with the LQIG Drive 2X.

The LQIG POE X has 3 ethernet ports:

- **INPUT:** inputs power (52V) and data signal from the LQIG Drive 2X.
- **THRU:** for long-distance transmission. Outputs only the control signal from the LQIG Drive 2X, no power. A POE injector must be used BEFORE the first LQIG product in the chain to power it and further products connected to this port.
- **OUTPUT:** outputs power (48V) and data signal from the LQIG Drive 2X. A POE injector and another LQIG POE X must be used after every 8 LQIG MR16 Downlight S products.



When using 3rd party POE injectors with the LQIG system, the power consumption monitoring function in the LQIG Drive 2X may become unavailable.

## Mounting

Before mounting the product, read and follow the safety recommendations indicated in the [Safety Notes](#).

### Orientation

Always mount this product in a safe position, making sure there is adequate room for ventilation, configuration, and maintenance.

### Rigging

Chauvet recommends using the following general guidelines when mounting this product.

- Before deciding on a location for the product, make sure there is easy access to the product for maintenance.
- Make sure that the structure onto which the product is being mounted can support the product's weight. See the [Technical Specifications](#) for weight information.

### Rack Mounting

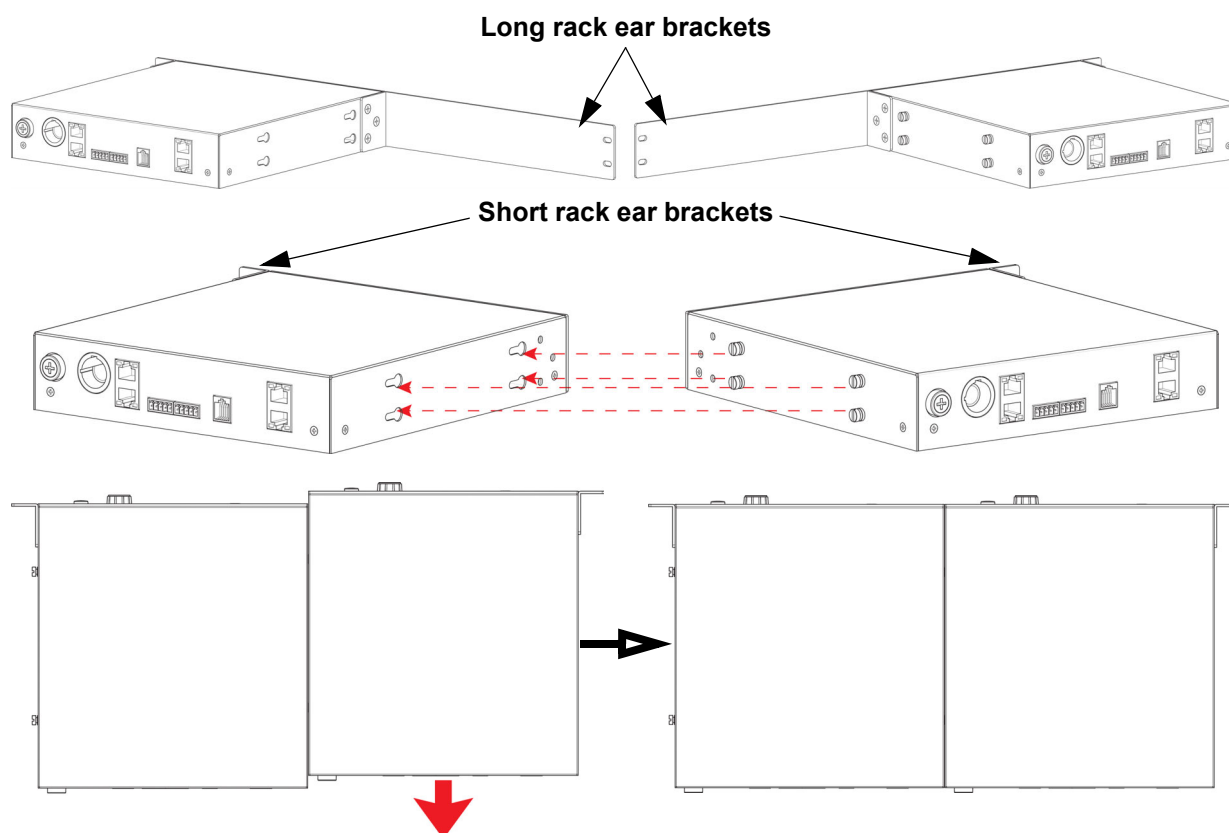
The LQGIC Drive 2X fits nicely on a standard 19" rack, or it can be placed on a flat level surface. When mounting a single LQGIC Drive 2X on a 19" rack, use the included short rack ear bracket on one side, and the included long rack ear bracket on the other side.

### Interlocking

2 LQGIC Drive 2X products can fit onto the same rack by removing one rack ear bracket each and interlocking the side panels.

- Use one short rack ear bracket on one side of one of the LQGIC Drive 2X products, and use one short rack ear bracket on the opposite side of the other LQGIC Drive 2X product. Both rack ears must face outwards of the total assembly.
- Ensure the 2 LQGIC Drive 2X products are correctly interlocked by checking that the front and back panels are flush to each other.
- DO NOT interlock a LQGIC Drive 2X to another LQGIC Drive 2X while it is mounted to a wall or other surface. The interlocking connection is not intended to support the weight of the product.

### Interlocking Diagram



**DO NOT** interlock a LQGIC Drive 2X to another LQGIC Drive 2X while it is mounted to a wall or other surface. The interlocking connection is not intended to support the weight of the product.

## Wall/Surface Mounting

The LQGIC Drive 2X has 2 four-directional tear-drop holes on the bottom for hanging on a wall or securing to a surface. Make sure that the mounting hardware and the surface to which it will be mounted can support the weight of the product.

1. Place the mounting hardware just under 6 inches apart (152 mm).



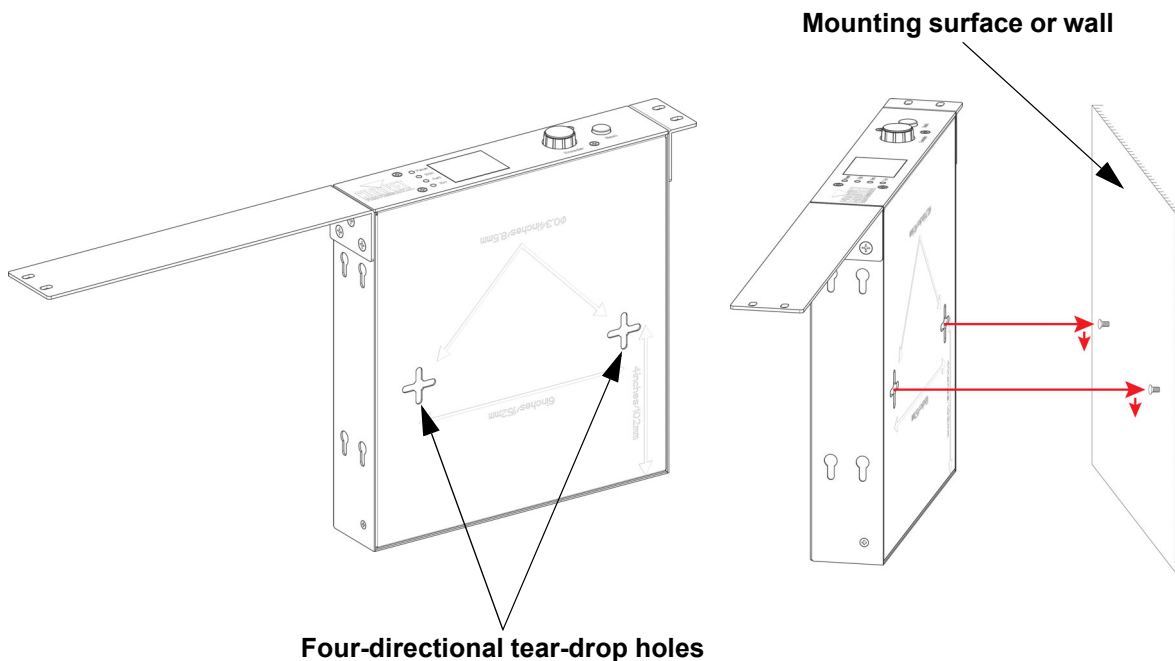
**For maximum security, it is recommended to place the mounting hardware so they are at an equal height and the spacing between them is horizontal.**

2. Position the four-directional tear-drop holes over the mounting hardware.
3. Shift the LQGIC Drive 2X in one direction as far as it can go, so that it is fully secure.



**For maximum security, it is recommended to shift the LQGIC Drive 2X downward on the mounting hardware. Doing otherwise places the product at risk of being dislodged and falling.**

### Mounting Diagram



**DO NOT interlock a LQGIC Drive 2X to another LQGIC Drive 2X while it is mounted to a wall or other surface. The interlocking connection is not intended to support the weight of the product.**

## 4. Operation

### Control Panel Description

See the [Product Overview](#) for a detailed description of the control panel.

### Programming

Refer to the Menu Map to understand the menu options. The menu map shows the main level and a variable number of programming levels for each option.

- To access the menu from the Home Screen, press the **<MENU>** knob.
- To scroll through the options on each level of the menu, turn the **<MENU>** knob. Turn it clockwise to scroll down, and turn it counter-clockwise to scroll up.
- Press the **<MENU>** knob to select the highlighted option. This will take you to the next programming level for that option, or it will highlight a value that can be edited.
- To increase a selected number value, turn the **<MENU>** knob clockwise. To decrease a selected number value, turn the **<MENU>** knob counter-clockwise.
- Press **<ESC/BACK>** to exit to the previous main level, press repeatedly to return to the Home Screen.

### Password

After being prompted to enter the password, use the **<MENU>** knob to select and enter **123456**.

### Menu Map

Refer to the LQIC Drive 2X product page on [www.iluminarc.com](http://www.iluminarc.com) for the latest menu maps.

| Main Level        | Programming Levels |                                        |                                                                           | Description                                                                    |
|-------------------|--------------------|----------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Protocol          | DMX512             |                                        |                                                                           | Selects the control protocol                                                   |
|                   | ArtNet             |                                        |                                                                           |                                                                                |
|                   | sACN               |                                        |                                                                           |                                                                                |
| Local             | Net Switch         | 2.X.X.X                                |                                                                           | Selects the first value of the IP address                                      |
|                   |                    | 10.X.X.X                               |                                                                           |                                                                                |
|                   | Universe           | 000–255 / 001–256<br>(Art-Net™) (sACN) |                                                                           | Selects universe                                                               |
|                   | Password           | ON                                     |                                                                           | Enables/disables password lock: <b>123456</b>                                  |
|                   |                    | OFF                                    |                                                                           |                                                                                |
|                   | Output Status      | Output 1 Status                        | Status:        _ _ _ _ _                                                  | Shows <b>Normal</b> or <b>Fault</b>                                            |
|                   |                    |                                        | Connect:        _ _ _                                                     | Shows <b>On</b> or <b>Off</b>                                                  |
|                   |                    |                                        | CLASS:        _ _ _ _                                                     | Shows <b>None</b> or <b>1–8</b>                                                |
|                   |                    | Output 2 Status                        | V1: _ _ V Cur 1: _ _ mA<br>V2: _ _ V Cur 2: _ _ mA<br>Power:        _ _ W | Shows voltage and current of output                                            |
|                   |                    |                                        |                                                                           |                                                                                |
|                   | Local Info         | Version                                | V _ _ _                                                                   | Shows current firmware version                                                 |
|                   |                    | IP Address                             | _ _ _ . _ _ _ . _ _ _ . _ _ _                                             | Shows the IP address                                                           |
|                   |                    | Fixture Hours                          | _ hours                                                                   | Shows length of time product has been on                                       |
|                   |                    |                                        | _ _ minutes                                                               |                                                                                |
|                   |                    |                                        | _ _ seconds                                                               |                                                                                |
|                   |                    | Label                                  | Logic Drive 2X                                                            | Shows product label                                                            |
|                   |                    | Device UID                             | _ _ _ _ _ - _ _ _ _ _                                                     | Shows device UID                                                               |
|                   |                    | MAC Address                            | _ _ _ _ _ _ _ _ _ _ _                                                     | Shows the MAC address                                                          |
|                   |                    | Temperature                            | _ _ _ °C                                                                  | Shows the current temperature in °C                                            |
|                   |                    | Warning Messages                       | _ _ _ _ _ _ _ _ _                                                         | Shows current error(s), e.g. “DMX Signal Lost” or “Devices No Longer Detected” |
| _ _ _ _ _ _ _ _ _ |                    |                                        |                                                                           |                                                                                |

| Main Level        | Programming Levels |                            |                                                                                     |                                                                                     | Description                                                                                                            |
|-------------------|--------------------|----------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Local<br>(cont.)  | Priority           | Control Panel              |                                                                                     |                                                                                     | Wall-mounted control panel has priority                                                                                |
|                   |                    | Signal                     |                                                                                     |                                                                                     | Signal input has priority                                                                                              |
|                   | Reset              | No                         |                                                                                     |                                                                                     | Resets the LQGC Drive 2X to factory default settings                                                                   |
|                   |                    | Yes                        |                                                                                     |                                                                                     |                                                                                                                        |
|                   | History            | List                       | -----                                                                               |                                                                                     | Displays connected product history                                                                                     |
|                   |                    | Clear                      | No                                                                                  |                                                                                     | Cancel clear                                                                                                           |
|                   |                    |                            | Yes                                                                                 |                                                                                     | Clear history                                                                                                          |
| Linked<br>Fixture | Status             | Output 1                   | -----                                                                               | Dmx Address                                                                         | Sets selected product settings individually instead of all at once (see <a href="#">Linked LQGC Product Menu Map</a> ) |
|                   |                    |                            | -----                                                                               | Personality                                                                         |                                                                                                                        |
|                   |                    | Output 2                   | -----<br>(or<br>No device!)                                                         | Network                                                                             |                                                                                                                        |
|                   |                    |                            |                                                                                     | Information                                                                         |                                                                                                                        |
|                   |                    |                            |                                                                                     | Factory Reset                                                                       |                                                                                                                        |
|                   |                    | Renew                      | No                                                                                  |                                                                                     | Re-scan for connected products                                                                                         |
|                   | Yes                |                            |                                                                                     |                                                                                     |                                                                                                                        |
|                   | Personality        | RED                        |                                                                                     |                                                                                     | 1-channel: dimmer (red only)                                                                                           |
|                   |                    | GREEN                      |                                                                                     |                                                                                     | 1-channel: dimmer (green only)                                                                                         |
|                   |                    | BLUE                       |                                                                                     |                                                                                     | 1-channel: dimmer (blue only)                                                                                          |
|                   |                    | WHITE                      |                                                                                     |                                                                                     | 1-channel: dimmer                                                                                                      |
|                   |                    | TW                         |                                                                                     |                                                                                     | 2-channel, Tunable White: dimmer, color temperature                                                                    |
|                   |                    | RGB                        |                                                                                     |                                                                                     | 3-channel: RGB                                                                                                         |
|                   |                    | RGBW                       |                                                                                     |                                                                                     | 4-channel: RGBW                                                                                                        |
|                   |                    | RGBW+D                     |                                                                                     |                                                                                     | 5-channel: dimmer, RGBW                                                                                                |
|                   |                    | FULL                       |                                                                                     |                                                                                     | 10-channel: dimmer, RGBW, color macros, strobe, auto programs and speed, dimmer speed                                  |
|                   | Power Selection    | Power 100%                 |                                                                                     |                                                                                     | Enables 100% power                                                                                                     |
|                   |                    | Power 50%                  |                                                                                     |                                                                                     | Sets maximum power to 50%                                                                                              |
|                   |                    | Power 30%                  |                                                                                     |                                                                                     | Sets maximum power to 30%                                                                                              |
|                   | Breaking Signal    | Current State              |                                                                                     |                                                                                     | Holds value on signal loss                                                                                             |
|                   |                    | Blackout                   |                                                                                     |                                                                                     | Blacks out on signal loss                                                                                              |
|                   |                    | White                      |                                                                                     |                                                                                     | Switches to full on signal loss                                                                                        |
| Static            | Red                | 000–255                    |                                                                                     |                                                                                     | Temporary manual control of all connected products. Combine red, green, blue, and white to make a custom color.        |
|                   | Green              | 000–255                    |                                                                                     |                                                                                     |                                                                                                                        |
|                   | Blue               | 000–255                    |                                                                                     |                                                                                     |                                                                                                                        |
|                   | White              | 000–255                    |                                                                                     |                                                                                     |                                                                                                                        |
|                   | Strobe             | 000–255                    |                                                                                     |                                                                                     | Sets standalone strobe speed                                                                                           |
| Record            | Play               | Record1–8 _<br>_ : _ : _ _ |  | Brightness:<br>000–255                                                              | Plays back recorded input. Press the <MENU> knob to toggle play and stop.                                              |
|                   |                    |                            |  |                                                                                     |                                                                                                                        |
|                   | Record             | Record1–8                  |                                                                                     |  | Captures/records live controller input to selected Record slot.                                                        |
|                   |                    |                            |                                                                                     |  | Press the <MENU> knob to start and stop.                                                                               |
|                   | Erase Record       | Record1–8 Clr              |                                                                                     | No                                                                                  | Erases selected recording                                                                                              |
|                   |                    |                            |                                                                                     | Yes                                                                                 |                                                                                                                        |

| Main Level   | Programming Levels |                 |                                                     |                                                      | Description                                                                              |
|--------------|--------------------|-----------------|-----------------------------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------|
| System Clock | Schedule           | Everyday<br>○/● | Turn on<br>00–23:00–59:00–59                        | Turn off                                             | Schedules daily times to turn on and off (stackable with other schedule options)         |
|              |                    | By date ○/●     | Turn on<br>Month:01–12<br>Day:01–31<br>Year:2000–99 | Turn off<br>Month:01–12<br>Day:01–31<br>Year:2000–99 | Schedules a date and time to turn on and off (stackable with other schedule options)     |
|              |                    | By week<br>○/●  | Mon :           ○/●                                 |                                                      | Schedules which days of the week to be on or off (stackable with other schedule options) |
|              |                    |                 | Tues :           ○/●                                |                                                      |                                                                                          |
|              |                    |                 | Wed :           ○/●                                 |                                                      |                                                                                          |
|              |                    |                 | Thur :           ○/●                                |                                                      |                                                                                          |
|              |                    |                 | Fri :           ○/●                                 |                                                      |                                                                                          |
|              |                    |                 | Sat :           ○/●                                 |                                                      |                                                                                          |
|              |                    |                 | Sun :           ○/●                                 |                                                      |                                                                                          |
|              | Setting Clock      | SysClock:       |                                                     | 24 hours                                             | Shows system clock is 24-hour                                                            |
|              |                    | Date:           | 01–12:01–31:2000–2099                               |                                                      | Sets the current date                                                                    |
|              |                    | Time:           | 00–23:00–59:00–59                                   |                                                      | Sets the current time                                                                    |
|              |                    | Week:           | 1–7                                                 |                                                      | Sets the current day of the week                                                         |
|              | Fade In/Out        | Fade In         | On-instant                                          |                                                      | Sets fade in to instant                                                                  |
|              |                    |                 | On-3second fade                                     |                                                      | Sets fade in to 3-second fade                                                            |
|              |                    | Fade Out        | Off-instant                                         |                                                      | Sets fade out to instant                                                                 |
|              |                    |                 | Off-3second fade                                    |                                                      | Sets fade out to 3-second fade                                                           |
| Enable Clock | No                 |                 |                                                     | Enables/disables clock functions                     |                                                                                          |
|              | Yes                |                 |                                                     |                                                      |                                                                                          |

## RDM Chart

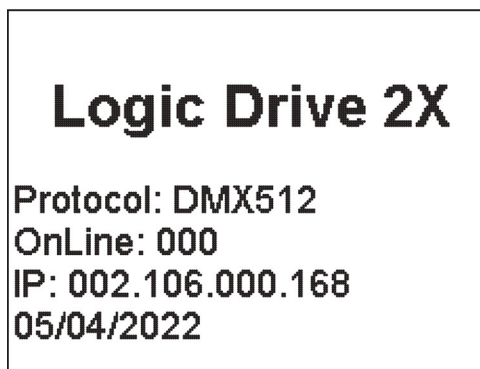
Refer to the LQIGIC Drive 2X product page on [www.iluminarc.com](http://www.iluminarc.com) for the latest RDM chart.

| GET | SET | Category            | RDM Parameter IDs (Slot 21-22) | Value  | Req. | Detail                                                                                                                                                                                                                                                                |
|-----|-----|---------------------|--------------------------------|--------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |     | Network Management  | DISC_UNIQUE_BRANCH             | 0x0001 | ✓    |                                                                                                                                                                                                                                                                       |
|     |     |                     | DISC_MUTE                      | 0x0002 | ✓    |                                                                                                                                                                                                                                                                       |
|     |     |                     | DISC_UN_MUTE                   | 0x0003 | ✓    |                                                                                                                                                                                                                                                                       |
| ✓   |     |                     | QUEUED_MESSAGE                 | 0x0020 |      |                                                                                                                                                                                                                                                                       |
| ✓   |     | RDM Information     | SUPPORTED_PARAMETERS           | 0x0050 | ✓    | IDENTIFY_DEVICE,<br>DEVICE_INFO,<br>SOFTWARE_VERSION_LABEL,<br>SUPPORTED_PARAMETERS,<br>DMX_START_ADDRESS,<br>DEVICE_MODEL_DESCRIPTION,<br>MANUFACTURER_LABEL,<br>DEVICE_LABEL,<br>DMX_PERSONALITY,<br>PERSONALITY_DESCRIPTION,<br>SENSOR_DEFINITION,<br>SENSOR_VALUE |
| ✓   |     |                     | PARAMETER_DESCRIPTION          | 0x0051 | ✓    |                                                                                                                                                                                                                                                                       |
| ✓   |     | Product Information | DEVICE_INFO                    | 0x0060 | ✓    | 1, RDM Protocol Version: V1.0;<br>2, Device_Mode_ID: 0x1731;<br>3, Product Category Defines:<br>PRODUCT_CATEGORY_FIXTURE_FIXED;<br>4, Software Version ID;<br>5, DMX512 Footprint;<br>6, DMX512 Personality;<br>7, DMX512 Start Address;<br>8, Sensor Count;          |
|     |     |                     | PRODUCT_DETAIL_ID_LIST         | 0x0070 |      |                                                                                                                                                                                                                                                                       |
| ✓   |     |                     | DEVICE_MODEL_DESCRIPTION       | 0x0080 |      | DRIVE 2X                                                                                                                                                                                                                                                              |
| ✓   |     |                     | MANUFACTURER_LABEL             | 0x0081 |      | ILUMINARC                                                                                                                                                                                                                                                             |
| ✓   | ✓   |                     | DEVICE_LABEL                   | 0x0082 |      | DRIVE 2X                                                                                                                                                                                                                                                              |
| ✓   |     |                     | SOFTWARE_VERSION_LABEL         | 0x00C0 | ✓    | V_._                                                                                                                                                                                                                                                                  |
| ✓   | ✓   |                     | FACTORY_DEFAULTS               |        |      | FACTORY_DEFAULTS : yes                                                                                                                                                                                                                                                |
| ✓   | ✓   | DMX Setup           | DMX_PERSONALITY                | 0x00E0 |      | 9pcs persons                                                                                                                                                                                                                                                          |
| ✓   |     |                     | DMX_PERSONALITY_DESCRIPTION    | 0x00E1 |      | RED/1CH, GREEN/1CH, BLUE/<br>1CH, WHITE/1CH, TW/2CH, RGB/<br>3CH, RGBW/4CH, RGBW+D/5CH,<br>FULL/10CH                                                                                                                                                                  |
| ✓   | ✓   |                     | DMX_START_ADDRESS              | 0x00F0 | ✓    | 1-503                                                                                                                                                                                                                                                                 |
| ✓   |     | Sensors             | SENSOR_DEFINITION              | 0x0200 |      | 0.) Product Temperature __ °C                                                                                                                                                                                                                                         |
| ✓   |     |                     | SENSOR_VALUE                   | 0x0201 |      | —20° —100°                                                                                                                                                                                                                                                            |
| ✓   | ✓   | Control             | IDENTIFY_DEVICE                | 0x1000 | ✓    | Identify State: Off                                                                                                                                                                                                                                                   |

## Home Screen

The LQIG Drive 2X has a home screen that shows the current control protocol, number of connected LQIG products, IP address, and date as set on the internal calendar. The home screen will also indicate if the System Clock has placed the product in **Shut off** mode.

To see the home screen, press **<ESC/BACK>** repeatedly until it shows on the display.



## Control Protocol

The LQIG Drive 2X works with DMX, Art-Net™, and sACN control signals. To select which protocol to use:

1. Go to the **Protocol** main menu.
2. Select the desired protocol, from **DMX512**, **ArtNet**, or **sACN**.

## Local

The Local settings include the network settings for the LQIG Drive 2X as well as system information and other general options.

### Net Switch

To select the first value of the IP address for the LQIG Drive 2X:

1. Go to the **Local** main menu.
2. Select the **Net Switch** option.
3. Select the first value of the IP address from **2.X.X.X** or **10.X.X.X**.



- **The first value of the IP address of each connected LQIG product MUST match that of the LQIG Drive 2X, or they will not be able to link properly.**
- **Changing the Net Switch setting may cause the LQIG Drive 2X to disconnect from any connected products.**

## Universe

To assign an Art-Net™ or sACN universe to the LQIG Drive 2X:

1. Go to the **Local** main menu.
2. Select the **Universe** option.
3. Set the universe, from **000–255** (for Art-Net™) or from **001–256** (for sACN).

## Password Lock

To turn the password lock on or off:

1. Go to the **Local** main menu.
2. Select the **Password** option.
3. Select from **ON** or **OFF**.



**When the password lock is activated, the product will prompt for the password in order to access the menu. Use the <MENU> knob to select and enter 123456.**

## Output Status

To view the status of the output ports:

1. Go to the **Local** main menu.
2. Select the **Output Status** option.
3. Select the output, from **Output 1 Status** or **Output 2 Status**.
4. View the output data:
  - **Status**: Shows **Normal** or **Fault** (if no connection or faulty connection).
  - **Connect**: Shows **On** (connected) or **Off** (not connected).
  - **CLASS**: Shows **None** or the type of POE connection, from **1–8**.
  - **V1, Cur 1, V2, Cur 2**, and **Power**: electrical data in volts, milliamperes, and watts.

## Local Information

To view general information about the LQGIC Drive 2X including the firmware version, IP address, and any current errors:

1. Go to the **Local** main menu.
2. Select the **Local Info** option.
3. Select which information to view, from:
  - **Version** (current firmware version),
  - **IP Address**,
  - **Fixture Hours** (the amount of time the product has been powered on, in hours, minutes, and seconds),
  - **Label**,
  - **Device UID**,
  - **MAC Address**,
  - **Temperature** (in degrees Celsius),
  - or
  - **Warning Messages** (current errors)

## Priority

To select whether input from a LQGIC Wall Controller or input from a control signal (DMX, Art-Net™, or sACN) will take priority over the other:

1. Go to the **Local** main menu.
2. Select the **Priority** option.
3. Select from **Control Panel** or **Signal**. The selected option will have priority.

## Reset

To reset the LQGIC Drive 2X to factory default settings:

1. Go to the **Local** main menu.
2. Select the **Reset** option.
3. Select from **No** or **Yes**.



**System Clock settings will not be reset.**

## History

The LQGIC Drive 2X keeps a record of all LQGIC products to which it has linked.

To view the history:

1. Go to the **Local** main menu.
2. Select the **History** option.
3. Select the **List** option.

## Disconnecting Products from the LQGIC Drive 2X

When any LQGIC product which has linked to the LQGIC Drive 2X is disconnected or removed, it will trigger an error message. To remove the error message, either reconnect the product or clear the history so the LQGIC Drive 2X no longer has a record of that product being linked.

To clear the history:

1. Go to the **Local** main menu.
2. Select the **History** option.
3. Select the **Clear** option.
4. Select from **No** (cancel) or **Yes** (clear).

## Linked Fixture

Use control configurations to operate the connected LQIC products with a DMX, Art-Net™, or sACN controller.

### Linked LQIC Product Menu Map

To access the menu map for a connected LQIC product:

1. Go to the **Linked Fixture** main menu.
2. Select **Status**.
3. Select the output to which the desired LQIC product is connected, from **Output 1** or **Output 2**.
4. Select the desired LQIC product. The selected product will flash its LEDs for the duration it is being accessed.

Refer to the LQIC Drive 2X product page and the product page for the selected LQIC product on [www.iluminarc.com](http://www.iluminarc.com) for the latest menu maps.

| Main Level    | Programming Levels |                                        | Description                                                                                        |
|---------------|--------------------|----------------------------------------|----------------------------------------------------------------------------------------------------|
| Dmx Address   | 001–512            |                                        | Selects DMX address                                                                                |
| Personality   | RED                |                                        | 1-channel: dimmer (red only)                                                                       |
|               | GREEN              |                                        | 1-channel: dimmer (green only)                                                                     |
|               | BLUE               |                                        | 1-channel: dimmer (blue only)                                                                      |
|               | WHITE              |                                        | 1-channel: dimmer (white only)                                                                     |
|               | TW                 |                                        | 2-channel, Tunable White: dimmer, color temperature                                                |
|               | RGB                |                                        | 3-channel: RGB control                                                                             |
|               | RGBW               |                                        | 4-channel: RGBW control                                                                            |
|               | RGBW+D             |                                        | 5-channel: dimmer, RGBW control                                                                    |
|               | FULL               |                                        | 10-channel: dimmer, RGBW control, color temperature, strobe, auto programs and speed, dimmer speed |
| Network       | Net Switch         | 2.X.X.X                                | Selects the first value of the IP address                                                          |
|               |                    | 10.X.X.X                               |                                                                                                    |
|               | Universe           | 000–255 / 001–256<br>(Art-Net™) (sACN) | Selects universe                                                                                   |
| Information   | Version            | V _ _ _                                | Shows current firmware version                                                                     |
|               | IP Address         | _ _ _ . _ _ _ . _ _ _ . _ _ _          | Shows the IP address                                                                               |
|               | Fixture Hours      | _ hours                                | Shows length of time product has been on                                                           |
|               | Label              | _ _ _ _ _ _ _ _                        | Shows product label                                                                                |
|               | Device UID         | _ _ _ _ _ - _ _ _ _ _                  | Shows device UID                                                                                   |
|               | MAC Address        | _ _ _ _ _ _ _ _ _ _                    | Shows the MAC address                                                                              |
|               | Temperature        | _ _ _ °C                               | Shows the current temperature in °C                                                                |
| Factory Reset | No                 |                                        | Resets to factory default settings                                                                 |
|               | Yes                |                                        |                                                                                                    |

## Individual LQIC Product Configuration

### Control Personality (Individual)

To set the control personality individually for the selected LQIC product:

1. From the menu of the selected LQIC product, select the **Personality** option.
2. Select the desired personality, from **RED**, **GREEN**, **BLUE**, **WHITE**, **TW**, **RGB**, **RGBW**, **RGBW+D**, or **FULL**.
  - See the [Starting Address](#) section for the highest starting address you can select for each personality.
  - Make sure that the starting addresses on the various products do not overlap due to the new personality setting.



### Starting Address

Each product will respond to a unique starting address from the controller. All products with the same starting address will respond in unison. To set the starting address for the selected LQIC product:

1. From the menu of the selected LQIC product, select the **DMX Address** option.
2. Select the starting address (**001–512**).

| Personality   | Channels  | Highest Address | Products per Universe |
|---------------|-----------|-----------------|-----------------------|
| <b>RED</b>    | <b>1</b>  | <b>512</b>      | <b>512</b>            |
| <b>GREEN</b>  | <b>1</b>  | <b>512</b>      | <b>512</b>            |
| <b>BLUE</b>   | <b>1</b>  | <b>512</b>      | <b>512</b>            |
| <b>WHITE</b>  | <b>1</b>  | <b>512</b>      | <b>512</b>            |
| <b>TW</b>     | <b>2</b>  | <b>511</b>      | <b>256</b>            |
| <b>RGB</b>    | <b>3</b>  | <b>510</b>      | <b>170</b>            |
| <b>RGBW</b>   | <b>4</b>  | <b>509</b>      | <b>128</b>            |
| <b>RGBW+D</b> | <b>5</b>  | <b>508</b>      | <b>102</b>            |
| <b>FULL</b>   | <b>10</b> | <b>503</b>      | <b>51</b>             |

### Network Settings

The Network Settings control the first value of the IP address and the universe of the selected LQIC product.

#### Net Switch

To select the first value of the IP address for the selected LQIC product:

1. From the menu of the selected LQIC product, select the **Network** option.
2. Select the **Net Switch** option.
3. Select the first value of the IP address from **2.X.X.X** or **10.X.X.X**.
  - **The first value of the IP address of each connected LQIC product MUST match that of the LQIC Drive 2X, or they will not be able to link properly.**
  - **Changing the Net Switch setting may cause the selected product to disconnect from the LQIC Drive 2X.**



#### Universe

To assign an Art-Net™ or sACN universe to the selected LQIC product:

1. From the menu of the selected LQIC product, select the **Network** option.
2. Select the **Universe** option.
3. Set the universe, from **000–255** (for Art-Net™) or from **001–256** (for sACN).

### Factory Reset

To reset the selected LQIC product to factory default settings:

1. From the menu of the selected LQIC product, select the **Factory Reset** option.
2. Select **Yes** to reset, or **No** to cancel.

### Information

To view additional information on the status of the selected LQIC product:

1. From the menu of the selected LQIC product, select the **Information** option.
2. Select which information to view, from **Version**, **IP Address**, **Fixture Hours**, **Label**, **Device UID**, **MAC Address**, and **Temperature**.

## Renew

To re-scan for connected LQGIC products:

1. Go to the **Linked Fixture** main menu.
2. Select **Status**.
3. Select **Renew**.
4. Select from **No** (cancel) or **Yes** (renew).

## Control Personality (Global)

To set the control personality of all connected LQGIC products at once:

1. Go to the **Linked Fixture** main menu.
2. Select the **Personality** option.
3. Select the desired personality, from **RED**, **GREEN**, **BLUE**, **WHITE**, **TW**, **RGB**, **RGBW**, **RGBW+D**, or **FULL**.



- See the [Starting Address](#) section for the highest starting address you can select for each personality.
- Make sure that the starting addresses on the various products do not overlap due to the new personality setting.

## Power Selection

To set the maximum output level for all connected LQGIC products:

1. Go to the **Linked Fixture** main menu.
2. Select **Power Selection**.
3. Select from **Power 100%**, **Power 50%**, or **Power 30%**.

## Breaking Signal

To set how the LQGIC Drive 2X will respond to losing the control signal:

1. Go to the **Linked Fixture** main menu.
2. Select **Breaking Signal**.
3. Select from:
  - **Current State** (holds the current value),
  - **Blackout** (blacks out all connected LQGIC products),
  - or
  - **White** (sets all connected LQGIC products to full output).

**Control Channel Assignments and Values****FULL (10 Channels)**

| Channel | Function           | Value     | Percent/Setting                       |
|---------|--------------------|-----------|---------------------------------------|
| 1       | Dimmer             | 000 ⇔ 255 | 0–100%                                |
| 2       | Red                | 000 ⇔ 255 | 0–100%                                |
| 3       | Green              | 000 ⇔ 255 | 0–100%                                |
| 4       | Blue               | 000 ⇔ 255 | 0–100%                                |
| 5       | White              | 000 ⇔ 255 | 0–100%                                |
| 6       | Color temperature  | 000 ⇔ 010 | No function                           |
|         |                    | 011 ⇔ 020 | 1800K                                 |
|         |                    | 021 ⇔ 030 | 2200K                                 |
|         |                    | 031 ⇔ 040 | 2700K                                 |
|         |                    | 041 ⇔ 050 | 3000K                                 |
|         |                    | 051 ⇔ 060 | 3200K                                 |
|         |                    | 061 ⇔ 070 | 4000K                                 |
|         |                    | 071 ⇔ 080 | 4500K                                 |
|         |                    | 081 ⇔ 090 | 5000K                                 |
|         |                    | 091 ⇔ 100 | 5600K                                 |
|         |                    | 101 ⇔ 110 | 6000K                                 |
|         |                    | 111 ⇔ 120 | 6500K                                 |
|         |                    | 121 ⇔ 130 | 7000K                                 |
|         |                    | 131 ⇔ 140 | 8000K                                 |
|         |                    | 141 ⇔ 150 | 10000K                                |
|         |                    | 151 ⇔ 255 | No function                           |
| 7       | Strobe             | 000 ⇔ 009 | No function                           |
|         |                    | 010 ⇔ 099 | Strobe, 0–25 Hz                       |
|         |                    | 100 ⇔ 109 | No function                           |
|         |                    | 110 ⇔ 179 | Lightning strobe, slow to fast        |
|         |                    | 180 ⇔ 189 | No function                           |
|         |                    | 190 ⇔ 255 | Random strobe, slow to fast           |
| 8       | Auto programs      | 000 ⇔ 040 | No function                           |
|         |                    | 041 ⇔ 050 | Automatic program 1                   |
|         |                    | 051 ⇔ 060 | Automatic program 2                   |
|         |                    | 061 ⇔ 070 | Automatic program 3                   |
|         |                    | 071 ⇔ 080 | Automatic program 4                   |
|         |                    | 081 ⇔ 090 | Automatic program 5                   |
|         |                    | 091 ⇔ 100 | Automatic program 6                   |
|         |                    | 101 ⇔ 110 | Automatic program 7                   |
|         |                    | 111 ⇔ 120 | Automatic program 8                   |
|         |                    | 121 ⇔ 130 | Automatic program 9                   |
|         |                    | 131 ⇔ 140 | Automatic program 10                  |
|         |                    | 141 ⇔ 255 | No function                           |
| 9       | Auto program speed | 000 ⇔ 255 | Automatic program speed, slow to fast |
| 10      | Dimmer speed       | 000 ⇔ 129 | Dimmer curve on                       |
|         |                    | 130 ⇔ 255 | Dimmer curve off                      |

**RGBW+D (5 Channels)**

| Channel | Function | Value     | Percent/Setting |
|---------|----------|-----------|-----------------|
| 1       | Dimmer   | 000 ⇔ 255 | 0–100%          |
| 2       | Red      | 000 ⇔ 255 | 0–100%          |
| 3       | Green    | 000 ⇔ 255 | 0–100%          |
| 4       | Blue     | 000 ⇔ 255 | 0–100%          |
| 5       | White    | 000 ⇔ 255 | 0–100%          |

**RGBW (4 Channels)**

| Channel | Function | Value     | Percent/Setting |
|---------|----------|-----------|-----------------|
| 1       | Red      | 000 ⇔ 255 | 0–100%          |
| 2       | Green    | 000 ⇔ 255 | 0–100%          |
| 3       | Blue     | 000 ⇔ 255 | 0–100%          |
| 4       | White    | 000 ⇔ 255 | 0–100%          |

**RGB (3 Channels)**

| Channel | Function | Value     | Percent/Setting |
|---------|----------|-----------|-----------------|
| 1       | Red      | 000 ⇔ 255 | 0–100%          |
| 2       | Green    | 000 ⇔ 255 | 0–100%          |
| 3       | Blue     | 000 ⇔ 255 | 0–100%          |

**TW (Tunable White: 2 Channels)**

| Channel | Function          | Value     | Percent/Setting |
|---------|-------------------|-----------|-----------------|
| 1       | Dimmer            | 000 ⇔ 255 | 0–100%          |
| 2       | Color temperature | 000 ⇔ 010 | No function     |
|         |                   | 011 ⇔ 020 | 1800K           |
|         |                   | 021 ⇔ 030 | 2200K           |
|         |                   | 031 ⇔ 040 | 2700K           |
|         |                   | 041 ⇔ 050 | 3000K           |
|         |                   | 051 ⇔ 060 | 3200K           |
|         |                   | 061 ⇔ 070 | 4000K           |
|         |                   | 071 ⇔ 080 | 4500K           |
|         |                   | 081 ⇔ 090 | 5000K           |
|         |                   | 091 ⇔ 100 | 5600K           |
|         |                   | 101 ⇔ 110 | 6000K           |
|         |                   | 111 ⇔ 120 | 6500K           |
|         |                   | 121 ⇔ 130 | 7000K           |
|         |                   | 131 ⇔ 140 | 8000K           |
|         |                   | 141 ⇔ 150 | 10000K          |
|         |                   | 151 ⇔ 255 | No function     |

## WHITE (1 Channel)

| Channel | Function | Value     | Percent/Setting    |
|---------|----------|-----------|--------------------|
| 1       | Dimmer   | 000 ⇄ 255 | White only, 0–100% |

## BLUE (1 Channel)

| Channel | Function | Value     | Percent/Setting   |
|---------|----------|-----------|-------------------|
| 1       | Dimmer   | 000 ⇄ 255 | Blue only, 0–100% |

## GREEN (1 Channel)

| Channel | Function | Value     | Percent/Setting    |
|---------|----------|-----------|--------------------|
| 1       | Dimmer   | 000 ⇄ 255 | Green only, 0–100% |

## RED (1 Channel)

| Channel | Function | Value     | Percent/Setting  |
|---------|----------|-----------|------------------|
| 1       | Dimmer   | 000 ⇄ 255 | Red only, 0–100% |

## Static

To take temporary manual control of all connected LQGIC products, custom mix a color, and assign a strobe speed:

1. Go to the **Static** main menu.
2. Select which value to alter, from **Red**, **Green**, **Blue**, **White**, or **Strobe**.
3. Set the selected value, from **000–512**.

For **Strobe**, reference the following table:

| Value     | Percent/Setting                |
|-----------|--------------------------------|
| 000 ⇄ 009 | No function                    |
| 010 ⇄ 099 | Strobe, 0–25 Hz                |
| 100 ⇄ 109 | No function                    |
| 110 ⇄ 179 | Lightning strobe, slow to fast |
| 180 ⇄ 189 | No function                    |
| 190 ⇄ 255 | Random strobe, slow to fast    |

4. Press the **<MENU>** knob to cycle to the next value.
5. Repeat steps 3-4 until the products output as desired.
6. Press **<ESC/BACK>** to finish.

## Record

The LQGIC Drive 2X can record control signal input (DMX, Art-Net™, or sACN) for later playback through the display menu or by a connected LQGIC Wall Controller.

The LQGIC Drive 2X has 8 recording slots. When a scene is triggered for playback, it will play continuously until it is stopped or another recording is triggered.



**Due to memory capacity it is only recommended to record several seconds of a single look to each recording slot.**

## Recording

To record a scene:

1. Go to the **Record** main menu.
2. Select the **Record** option.
3. Select the desired recording slot, from **Record1–8**.
4.  will show on the display. Press the **<MENU>** knob to begin recording the current control signal input.



**To prevent errors during the recording of a scene, do not change any control signal values.**

5.  will show on the display. Press the **<MENU>** knob to stop recording.

## Display Menu Playback

To play back a recorded scene via the display menu:

1. Go to the **Record** main menu.
2. Select the **Record** option.
3. Select the desired recording slot, from **Record1–8**.
4.  will show on the display. Press the **<MENU>** knob to begin playback.
5.  will show on the display. Press the **<MENU>** knob to stop playback. The connected products will black out.



- **Pressing the **<MENU>** knob again at this point will restart the recording.**
- **If no scene is recorded to a recording slot, it cannot be selected for playback.**

6. Press **<ESC/BACK>** to exit.

## Scene Brightness (via Display Menu)

To set the **Brightness** of the connected LQGIC products from **000–255** during playback of a scene, turn the **<MENU>** knob clockwise or counterclockwise.

## LQGIC Wall Controller Playback

To play back a recorded scene via a connected LQGIC Wall Controller:

1. Press the numbered button which corresponds with the number of the desired recording slot to begin playback.
2. Press that same button again to stop playback. The connected products will black out.



- **Pressing the same button again (without holding) at this point will restart the recording.**
- **If no scene is recorded to a recording slot, pressing the corresponding button will do nothing.**

## Scene Brightness (via LQGIC Wall Controller)

To increase or decrease the brightness of the connected LQGIC products during playback of a scene, press the **<+>** or **<->** buttons on the LQGIC Wall Controller.

## Scene Lock

To lock a scene in place and prevent tampering:

1. Trigger a scene via the LQGIC Wall Controller. A scene cannot be locked if no scene is playing back.
2. Press and hold the same button for 6-10 seconds. The backlight will flash to indicate the scene is locked.
3. Press and hold the button again to release the lock.

## Erase Recording

To erase a recording slot:

1. Go to the **Record** main menu.
2. Select the **Record Erase** option.
3. Select the desired recording slot, from **Record1–8 Clr.**
4. Select from **No** (cancel) or **Yes** (erase the selected recording slot).

## System Clock

The system clock functions allow the LQGIC Drive 2X to place itself in or out of **Shut off** mode on a set schedule. While in **Shut off** mode:

- The LQGIC Drive 2X will black out all connected LQGIC products.
- The LQGIC Drive 2X will function at minimum power consumption.
- All settings other than the **System Clock** settings will be inaccessible.

## Setting Clock

Before setting the schedule, ensure the internal clock and calendar is set correctly:

1. Go to the **System Clock** main menu.
2. Select the **Setting Clock** option.
3. Review the current settings. If they are inaccurate, press the **<MENU>** knob to begin setting the clock. After setting each option, press the **<MENU>** knob to move to the next option.
4. Set the month of the current date, from **01–12** (January to December).
5. Set the day of the month, from **01–31**.
6. Set the year, from **2000–2099**.
7. Set the hour of the day, from **00–23** (in a 24-hour clock, **00** is midnight and **13** is 1 PM).
8. Set the minute of the hour, from **00–59**.
9. Set the second of the minute, from **00–59**.
10. Set the day of the week, from **1–7** (Monday to Sunday).
11. Press **<ESC/BACK>** to exit.

## Schedule

The LQGIC Drive 2X can be scheduled by the time of day (**Everyday**), from one date to another (**By date**), and by the day of the week (**By week**) all at the same time.



- Selecting the **Everyday**, **By date**, or **By week** options not only enters the sub-menu for the selected option but also automatically enables it.
- To disable the option, select it again from the **Schedule** menu.
- To alter one of these settings, it must be disabled and then reselected.

## Everyday

To set the daily schedule:

1. Go to the **System Clock** main menu.
2. Select the **Schedule** option.
3. Select the **Everyday** option.
4. Review the current settings. To begin editing them, press the **<MENU>** knob. After setting each option, press the **<MENU>** knob to move to the next option.
5. Set the **Turn on** hour, from **00–23** (in a 24-hour clock, **00** is midnight and **13** is 1 PM).
6. Set the **Turn on** minute, from **00–59**.
7. Set the **Turn on** second, from **00–59**.
8. Set the **Turn off** hour, from **00–23**.
9. Set the **Turn off** minute, from **00–59**.
10. Set the **Turn off** second, from **00–59**.
11. Press **<ESC/BACK>** to exit.

**By date**

To set specific dates to turn on and off:

1. Go to the **System Clock** main menu.
2. Select the **Schedule** option.
3. Select the **By date** option.
4. Review the current settings. To begin editing them, press the **<MENU>** knob. After setting each option, press the **<MENU>** knob to move to the next option.
5. Set the **Turn on Month**, from **01–12** (January to December).
6. Set the **Turn on Day**, from **01–31**.
7. Set the **Turn on Year**, from **2000–2099**.
8. Set the **Turn off Month**, from **01–12**.
9. Set the **Turn off Day**, from **01–31**.
10. Set the **Turn off Year**, from **2000–2099**.
11. Press **<ESC/BACK>** to exit.

**By week**

To set which days of the week to turn on:

1. Go to the **System Clock** main menu.
2. Select the **Schedule** option.
3. Select the **By week** option.
4. Review the current settings. To begin editing them, press the **<MENU>** knob.
5. Select each desired day, from **Mon, Tues, Wed, Thur, Fri, Sat**, and/or **Sun**.
6. Select any selected day again to deselect it.
7. Press **<ESC/BACK>** to finish, and then again to exit.

**Fade In and Fade Out**

To set whether the lights will turn on or off instantly when entering or leaving **Shut off** mode, or whether they will fade in or out:

1. Go to the **System Clock** main menu.
2. Select the **Fade In/Out** option.
3. Select which option to set, from **Fade In** or **Fade Out**.
4. For **Fade In**, select from **On-instant** or **On-3second fade**.  
For **Fade Out**, select from **Off-instant** or **Off-3second fade**.

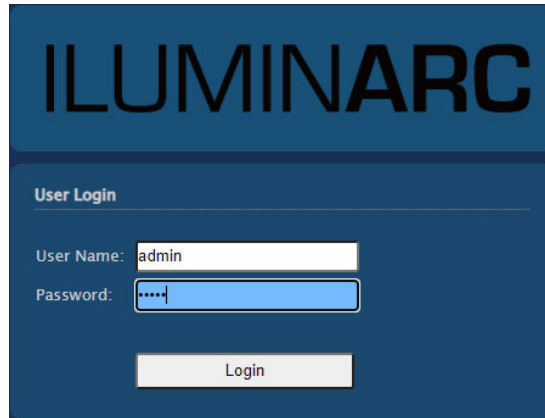
**Enable Clock**

To enable or disable the system clock functions:

1. Go to the **System Clock** main menu.
2. Select the **Enable Clock** option.
3. Select from **No** (disable) or **Yes** (enable).

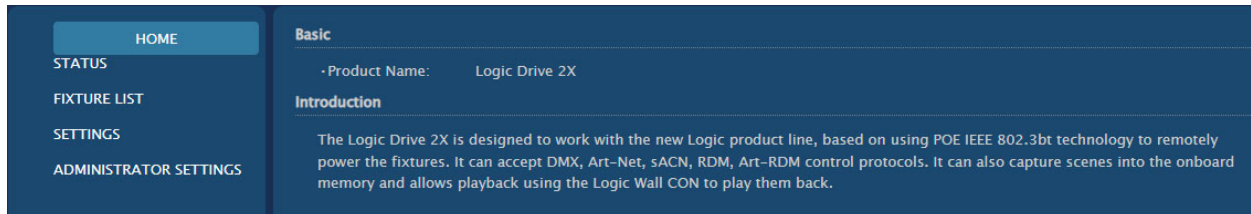
## Web Server

The LOGIC Drive 2X web server can be accessed by any computer on the same network as the product. It allows network access to system information, settings such as product addressing, static color testing, and calendar triggers, as well as firmware updates for both the LOGIC Drive 2X and any connected LOGIC products.



1. Connect the product to a Windows computer with a network cable.
2. On the computer, set the IP address of the new network to have the same value as the [Net Switch](#) setting (**002** or **010**).
3. Enter the IP address of the product into the URL bar of a web browser on the computer.
4. Enter both the User Name and Password as **admin** to log in.

## Home



The **HOME** screen displays the name of the product and a brief introduction to it.

## Status

**Operating Status**

Temperature: 33.0°C  
 Protocol: DMX-512  
 IP address: 2. 232. 0. 216  
 Personality: FULL

**Port Status**

Power OFF: Power ON: Power Overload:

|           |               |            |             |                             |                             |              |  |
|-----------|---------------|------------|-------------|-----------------------------|-----------------------------|--------------|--|
| Output 1: | Status: Fault | Power: Off | Class: None | Cur1: 0.0 mA<br>Vol1: 0.0 V | Cur2: 0.0 mA<br>Vol2: 0.0 V | Power: 0.0 W |  |
| Output 2: | Status: Fault | Power: Off | Class: None | Cur1: 0.0 mA<br>Vol1: 0.0 V | Cur2: 0.0 mA<br>Vol2: 0.0 V | Power: 0.0 W |  |

**Warning/Errors Reported:**

DMX signal lost.

The **STATUS** screen displays the information available in the [Local Information](#) and [Output Status](#) sections of the display menu.

## Fixture List

**Detected Fixture List**

| Num: | Port: | RDM Identify: | Fixture: | DMX Address: | Personality: | Universe: | Protocol: | Temperature: | Software Version: |
|------|-------|---------------|----------|--------------|--------------|-----------|-----------|--------------|-------------------|
| 1    | 1     |               | LOGICZL  | 1            | FULL         | 0         | DMX-512   | 34.0°C       | V1.04             |

The **FIXTURE LIST** screen displays information for each connected LQIC product which has been detected by the LQIC Drive 2X and provides the following control options:

- **Renew:** rescans for connected LQIC products.
- **Save:** sends any changes to the connected LQIC products.
- **RDM Identify:** causes the selected product to blink its LEDs for identification.
- **DMX Address:** displays and sets the DMX Address of the selected product.
- **Personality:** displays and sets the control personality of the selected product.
- **Universe:** displays and sets the universe address of the selected product.



**After changing the DMX Address, Personality, or Universe, click Save to send those settings to the selected product(s).**

## Settings

The **SETTINGS** screen displays and provides 5 types of control options:

- **Basic:** displays and sets the control **Protocol**, the first value of the IP address (**Net switch**) for the LQIGC Drive 2X, the control **Personality**, and the **Universe** address if applicable. Click **Save** to send any changed settings to the LQIGC Drive 2X.



**Changing the Net switch option will cause the computer to disconnect from the LQIGC Drive 2X.**

- **Local:** displays the product **Temperature** in °C and the **Fixture Time**.
- **Static Test:** displays and provides the same control options as the [Static](#) section of the display menu.
- **System Calendar Trigger Settings:** displays and provides the same control options as the [System Clock](#) section of the display menu. Click **Save** to send any changed settings to the LQIGC Drive 2X.



**Years beyond those available through the display menu may be selected through this method, but selecting them may cause unforeseen errors.**

- **Reset:** provides the **System Restart** function. Set the drop-down menu to **Yes** and click **Save** to reset the LQIGC Drive 2X to factory default settings.



**System Clock settings will not be reset.**

## Administrator Settings

The **ADMINISTRATOR SETTINGS** screen displays the current firmware version of the LQGIC Drive 2X and provides the ability to change the web server password, update the firmware of the LQGIC Drive 2X, and update the firmware of any connected LQGIC products.

### Firmware Update

The procedure for updating the firmware of the LQGIC Drive 2X is identical to the procedure for updating the firmware of connected LQGIC products.

1. Download the latest firmware files from [www.iluminarc.com](http://www.iluminarc.com).
2. Access the web server for LQGIC Drive 2X according to the instructions under [Web Server](#).
3. Navigate to the **ADMINISTRATOR SETTINGS** screen.
4. Click **Browse** and select the desired firmware file.
5. Click **Update**.
  - At this point the web server may return to the login screen. Enter the password to continue, and then redo steps 4 and 5.
  - The Upload Progress bar will fill, indicating the firmware is being sent to the relevant product(s).
  - Data in the firmware files includes a model type signature which allows only the relevant products to receive it.



**ALL connected products of the type designated by the firmware file will be updated! Disconnect any products of that type which should not be updated prior to beginning the update procedure!**



**Connected products which are not of the type designated by the firmware file will not be affected.**

- POE injectors will not filter the firmware file transfer.
- During the update the LQGIC Drive 2X display menu will freeze and all control signals will be interrupted.
- When updating the LQGIC Drive 2X, the message **Remove code 1 MCU erasure** will show on the display, followed by **Updating....** When finished, the LQGIC Drive 2X will restart.
- When updating connected LQGIC products, the message **Update slave Device** will show on the display. When finished, the LQGIC Drive 2X will rescan for connected products.

## 5. Maintenance

### Product Maintenance

Dust build-up reduces light output performance and can cause overheating. This can lead to reduction of the light source's life and/or mechanical wear. To maintain optimum performance and minimize wear, clean your lighting products at least twice a month. However, be aware that usage and environmental conditions could be contributing factors to increase the cleaning frequency.

To clean the product, follow the instructions below:

1. Unplug the product from power.
2. Wait until the product is at room temperature.
3. Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external surface/vents.
4. Apply a solution of ammonia-free glass cleaner or isopropyl alcohol directly to a soft, lint free cotton cloth or a lens cleaning tissue.
5. Use the cloth or tissue to clean all transparent surfaces.
6. Softly drag any dirt or grime to the outside of the transparent surface.
7. Gently polish the transparent surfaces until they are free of haze and lint.



**Always dry the transparent surfaces carefully after cleaning them.**

## 6. Technical Specifications

### Dimensions and Weight

| Length            | Width            | Height          | Weight          |
|-------------------|------------------|-----------------|-----------------|
| 10.31 in (262 mm) | 9.64 in (245 mm) | 1.81 in (46 mm) | 4.6 lb (2.1 kg) |

**Note:** Dimensions in inches are rounded.

### Power

| Power Supply Type        | Range                    |              | Voltage Selection     |              |              |
|--------------------------|--------------------------|--------------|-----------------------|--------------|--------------|
| Switching (internal)     | 100 to 240 VAC, 50/60 Hz |              | Auto-ranging          |              |              |
| Output Port Power Rating | Output Port Voltage      |              | POE Output Connectors |              |              |
| 92.5 W per port          | 54 VDC                   |              | RJ45 x2               |              |              |
| Parameter                | 100 V, 60 Hz             | 120 V, 60 Hz | 208 V, 60 Hz          | 230 V, 50 Hz | 240 V, 50 Hz |
| Consumption              | 260 W                    | 260 W        | 260 W                 | 260 W        | 260 W        |
| Operating Current        | 2.60 A                   | 2.17 A       | 1.25 A                | 1.14 A       | 1.09 A       |
| Power I/O                | U.S./Worldwide           |              | UK/Europe             |              |              |
| Power Input Connectors   | Seetronic TRUE1          |              | Seetronic TRUE1       |              |              |
| Power Cord plug          | Edison (U.S.)            |              | Local Plug            |              |              |
| Recommended Power Cable  |                          |              | 3 x 14 AWG            |              |              |

### Data Connectors

| DMX/RDM                  | Ethernet (Art-Net™/sACN) | LOGIC Wall Controller |
|--------------------------|--------------------------|-----------------------|
| 5-pin Phoenix in and out | RJ45 x2                  | RJ12                  |

### POE Cabling

| Required Cable Type                             | Minimum Conductor Diameter                     | Conductor Material                                     |
|-------------------------------------------------|------------------------------------------------|--------------------------------------------------------|
| CAT6/A, shielded                                | 23 AWG (0.5733 mm)                             | Solid bare copper wire (stranded not supported)        |
| Cable Plug                                      | Cable Terminator                               | Recommended Cable (or equivalent)                      |
| RJ45, CAT6/A, Shielded                          | T568B standard                                 | Belden 2413F, 2412F                                    |
| Total Max Cable Length (Drive to first fixture) | Total Max Cable Length (Drive to last fixture) | Total Max Cable Length (First fixture to last fixture) |
| 328 ft (100 m)                                  | 460 ft (140 m)                                 | 131 ft (40 m)                                          |

### Thermal

| Operating Temperature Range | Maximum Surface Temperature | Cooling System          |
|-----------------------------|-----------------------------|-------------------------|
| -4 °F–113 °F (-20 °C–45 °C) | 158 °F (70 °C)              | Fan-assisted convection |

### Ordering

| Product Name   | Item Name    | Item Code | UPC Number   |
|----------------|--------------|-----------|--------------|
| LOGIC Drive 2X | LOGICDRIVE2X | 01541731  | 781462220792 |



UL 2108, UL 1598A  
CSA C22.2 No. 250.2  
E115166



## Returns

Send the product prepaid, in the original box, and with the original packing and accessories. Chauvet will not issue call tags.

Call Chauvet and request a Return Merchandise Authorization (RMA) number before shipping the product. Be prepared to provide the model number, serial number, and a brief description of the cause(s) for the return.

To submit a service request online, go to [www.chauvetprofessional.com/service-request](http://www.chauvetprofessional.com/service-request).

Clearly label the package with an RMA number. Chauvet will refuse any product returned without an RMA number.



**Write the RMA number on a properly affixed label. DO NOT write the RMA number directly on the box.**

Before sending the product, clearly write the following information on a piece of paper and place it inside the box:

- Your name
- Your address
- Your phone number
- RMA number
- A brief description of the problem

Be sure to pack the product properly. Any shipping damage resulting from inadequate packaging will be your responsibility. FedEx packing or double-boxing are recommended.



**Chauvet reserves the right to use its own discretion to repair or replace returned product(s).**

## Contact Us

| General Information                                                                                                                                    | Technical Support                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chauvet World Headquarters</b>                                                                                                                      |                                                                                                                                                                                              |
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| <b>Chauvet Europe Ltd</b>                                                                                                                              |                                                                                                                                                                                              |
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