PIXEL DRIVER 170
User Manual

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DOCUMENT VERSION

Due to additional product features and/or enhancements, an updated version of this document may be available online. Please scan the QR Code with your mobile device or visit www.elation-lighting.com for the latest revision/update of this manual, before installation and/or programming.

Date	Document Version	Software Version	DMX Channel Mode	Notes
07/28/21	1.0	1.0	510	Initial Release
09/03/21	2.0	N/C	No Change	Update Cover Image and Dimensional Drawings
09/17/21	3.0	N/C	No Change	Updatd Dimensional Drawings and Specifications

CONTENTS

GENERAL INFORMATION

INTRODUCTION
Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this device. These instructions contain important safety and use information.

UNPACKING
Every device has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton is damaged, carefully inspect the device for damage, and be sure all accessories necessary to install and operate the device have arrived intact. In the event damage has been found or parts are missing, please contact our customer support team for further instructions. Please do not return this device to your dealer without first contacting customer support. Please do not discard the shipping carton in the trash. Please recycle whenever possible.

BOX CONTENTS
- EL-IR Remote (x1)
- 4-pin Cable (x1)
- IR Receiver Cable, 1-meter length (x1)

CUSTOMER SUPPORT
Contact ELATION Service for any product related service and support needs.
Also visit forums.elationlighting.com with questions, comments or suggestions.

ELATION SERVICE USA - Monday - Friday 8:00am to 4:30pm PST
323-582-3322 | Fax 323-832-9142 | support@elationlighting.com

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REPLACEMENT PARTS please visit parts.elationlighting.com

⚠ IMPORTANT NOTICE!

THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT. DO NOT ATTEMPT ANY REPAIRS YOURSELF, AS DOING SO WILL VOID YOUR MANUFACTURER'S WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS FIXTURE AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID THE MANUFACTURER'S WARRANTY AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS AND/ OR REPAIRS.

LIMITED WARRANTY (USA ONLY)

A. Elation Professional hereby warrants, to the original purchaser, Elation Professional products to be free of manufacturing defects in material and workmanship for a period of two years (730 days), and Elation Professional product rechargeable batteries to be free of manufacturing defects in material and workmanship for a period of six months (180 days), from the original date of purchase. This warranty excludes discharge lamps and all product accessories. This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.

B. For warranty service, send the product only to the Elation Professional factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, Elation Professional will pay return shipping charges only to a designated point within the United States. If any product is sent, it must be shipped in its original package and packaging material. No accessories should be shipped with the product. If any accessories are shipped with the product, Elation Professional shall have no liability what so ever for loss and/or or damage to any such accessories, nor for the safe return thereof.

C. This warranty is void if the product serial number and/or labels are altered or removed; if the product is modified in any manner which Elation Professional concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the Elation Professional factory unless prior written authorization was issued to purchaser by Elation Professional; if the product is damaged because not properly maintained as set forth in the product instructions, guidelines and/or user manual.

D. This is not a service contract, and this warranty does not include any maintenance, cleaning or periodic check-up. During the periods as specified above, Elation Professional will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of Elation Professional under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of Elation Professional. All products covered by this warranty were manufactured after January 1, 1990, and bare identifying marks to that effect.

E. Elation Professional reserves the right to make changes in design and/or performance improvements upon its products without any obligation to include these changes in any products theretofore manufactured.

F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with the products described above. Except to the extent prohibited by applicable law, all implied warranties made by Elation Professional in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty periods set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said periods have expired. The consumer's and/or dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall Elation Professional be liable for any loss and/or damage, direct and/or consequential, arising out of the use of, and/or the inability to use, this product.

G. This warranty is the only written warranty applicable to Elation Professional products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

WARRANTY RETURNS

All returned service items whether under warranty or not, must be freight pre-paid and accompany a return authorization (R.A.) number. The R.A. number must be clearly written on the outside of the return package. A brief description of the problem as well as the R.A. number must also be written down on a piece of paper and included in the shipping container. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. Items returned without a R.A. number clearly marked on the outside of the package will be refused and returned at customer's expense. You may obtain a R.A. number by contacting customer support.

SAFETY GUIDELINES

This fixture is a sophisticated piece of electronic equipment. To guarantee smooth operation, it is important to follow all instructions and guidelines in this manual. Elation Professional is not responsible for injury and/or damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual. Only qualified and/or certified personnel should perform installation of this fixture and only the original rigging parts included with this fixture should be used for installation. Any modifications to the fixture and/or the included mounting hardware will void the original manufacturer's warranty and increase the risk of damage and/or personal injury.

PROTECTION CLASS 1 - FIXTURE MUST BE PROPERLY GROUNDED.

THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT. DO NOT ATTEMPT ANY REPAIRS YOURSELF. DOING SO WILL VOID YOUR MANUFACTURER'S WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS DEVICE AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID THE MANUFACTURER'S WARRANTY AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS AND/OR REPAIRS.

DO NOT PLUG THIS UNIT INTO A DIMMER PACK
DO NOT REMOVE THE COVER UNDER ANY CONDITIONS NEVER OPERATE THIS UNIT WITH THE CASING REMOVED.
UNPLUG FROM POWER DURING LONG PERIODS OF NON-USE.
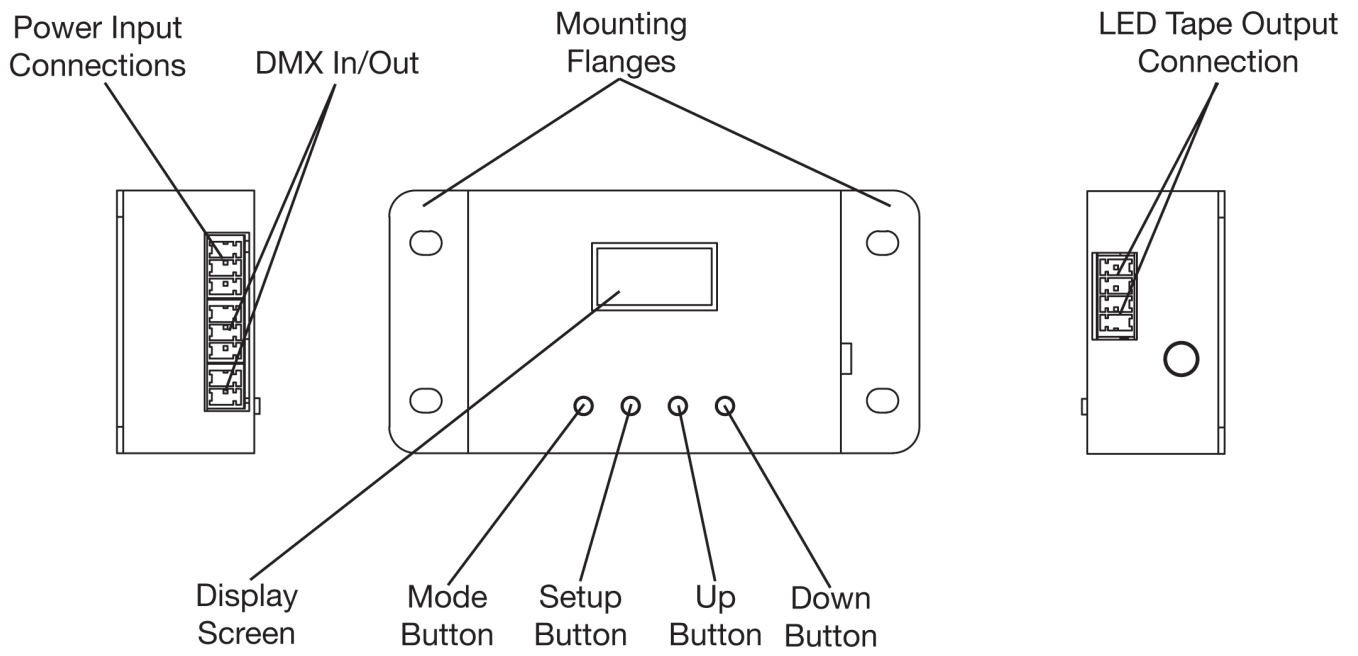**DISCONNECT POWER BEFORE PERFORMING MAINTENANCE.**

THIS DEVICE IS INTENDED FOR INDOOR USE ONLY!
USE OF THE DEVICE OUTDOORS VOIDS ALL MANUFACTURER'S WARRANTIES!
DO NOT EXPOSE THE DEVICE TO RAIN OR MOISTURE!

SAFETY GUIDELINES

For Your Own Personal Safety, Please Read and Understand This Manual Completely Before

You Attempt To Install Or Operate This Unit!

- Be sure to save the packing carton in the unlikely event the device may have to be returned for service.

- Be sure that the local power outlet matches the required voltage for the device.

- Do not open up the device under any conditions. There are no user serviceable parts inside.

- Disconnect the device's main power when left unused for long periods of time.

- Never connect this device to a dimmer pack.

- Do not attempt to operate this device if it has been damaged in any way.

- Never operate this device with the cover removed.

- Do not attempt to operate this device if the power cord has been frayed or broken.

- Do not attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.

- Disconnect from main power before making any type of connection.

- Never block the ventilation holes. Always be sure to mount this device in an area that will allow proper ventilation. Allow about 6" (15cm) between this device and a wall.

- Always mount this unit in a safe and stable matter.

- Please route your power cord out of the way of foot traffic. Power cords should be routed so they are not likely to be walked on, or pinched by items placed upon or against them.

- Do not expose this device to rain or moisture.

- **Keep flammable materials away from this fixture!**

- The device should be serviced by qualified service personnel when:

    A. The power-supply cord or the plug has been damaged.

    B. Objects have fallen on, or liquid has been spilled into, the device.

    C. The device has been immersed in liquid or exposed to water jets or sprays.

    D. The appliance does not appear to operate normally or exhibits a marked change in performance.

OVERVIEW

Power Input
Connections

DMX In/Out

Mounting
Flanges

LED Tape Output
Connection

Display
Screen

Mode
Button

Setup
Button

Up
Button

Down
Button

INSTALLATION

FLAMMABLE MATERIAL WARNING!
Keep drive a minimum of 5.0 feet (1.5m) away from flammable material and/or pyrotechnics.

DO NOT INSTALL THE DEVICE IF YOU ARE NOT QUALIFIED TO DO SO!
* The driver **MUST** be installed following all local, national, and country commercial electrical and construction codes and regulations.
* Before installing or mounting any device, a professional equipment installer **MUST** be consulted to determine whether the mounting structure or surface is properly certified to safely support the combined weight of the device and any relevant accessories.
* The device should be installed in areas outside walking paths, seating areas, or away from areas where unauthorized personnel might be able to reach the device by hand.

MOUNTING
This device can be mounted using M4x25 self-tapping screws and the mounting brackets located on each side of the device. Use all four (4) points on the mounting brackets to ensure that the device is mounted securely. Please see the illustration below for reference.

M4x25 self tapping screw
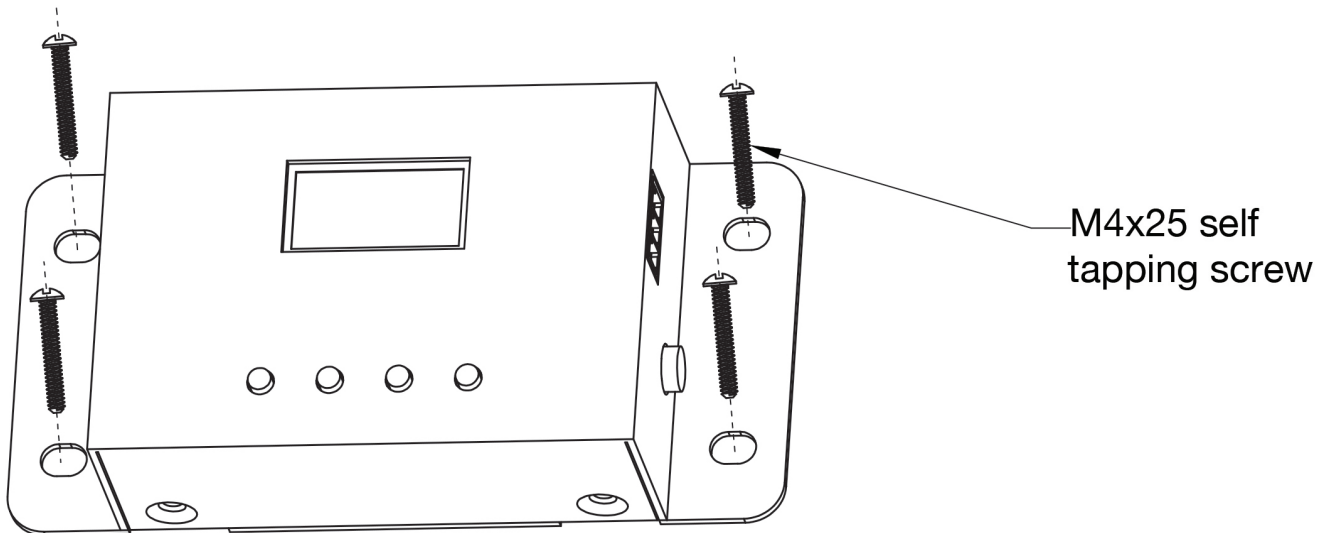
INSTALLATION

ELECTRICAL CONNECTIONS

A qualified electrician should be used for all electrical connections and/or installations.

The device connections are as follows. See the diagram below for reference.
- *Power Input Connections:* top 2 slots on left side of unit (nearest to "Mode" button). These should be connected to a power source.
- *Signal Input Connections:* lower 6 slots on left side of unit, comprised of 2 sets of outputs with 3 connections per set. These should be connected to the controller.
- *Signal Output Connections:* slots on right side of unit. These should be connected to a single strip of LED tape per driver, via a PIX-AD3 adapter. The Phoenix connector end of the PIX-AD3 will be connected to the driver, while the XLR end will be connected to the LED tape.

To Power

4pin XLR
Cable to
Pixel Strip

To Controller

PIX-AD3
Cable Adapter
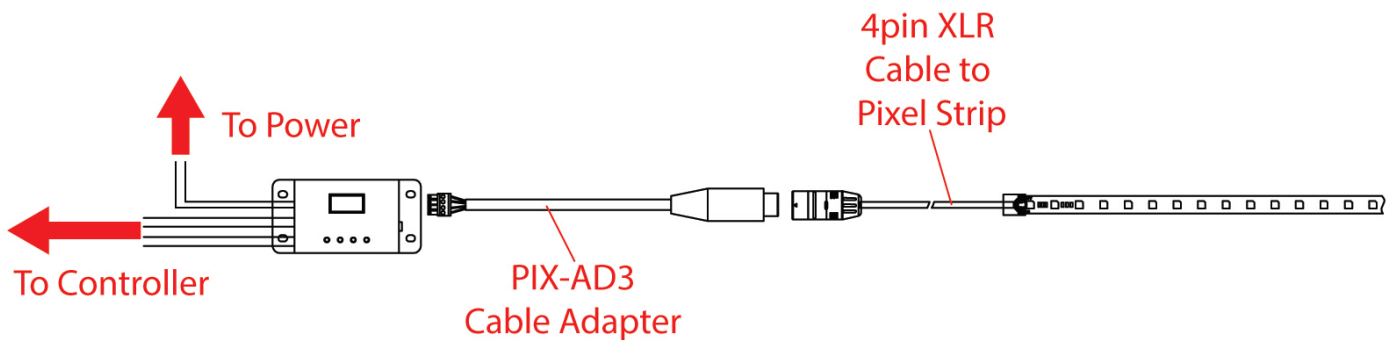
REMOTE CONTROL OPERATION

The Elation EL-IR remote is a handheld IR remote control which allows wireless control of the Pixel Driver 170 LED tape driver. One EL-IR is included in the box with every Pixel Driver 170. With the EL-IR, you can wirelessly select from and run the 10 built-in shows, select show 11 to randomly play shows 1-10, control show speed and fade, select from the 11 built in static colors, set a desired intensity via the dimmer controls, and blackout via the Off button. The EL-IR works up to 23 feet (10 meters) away from the Pixel Driver 170.

FEATURES
- Easy to use Handheld IR Remote
- 10 Built-in Shows (Show 11 randomly plays show 1-10)
- 11 Preset Colors
- Show Fade and Speed Control
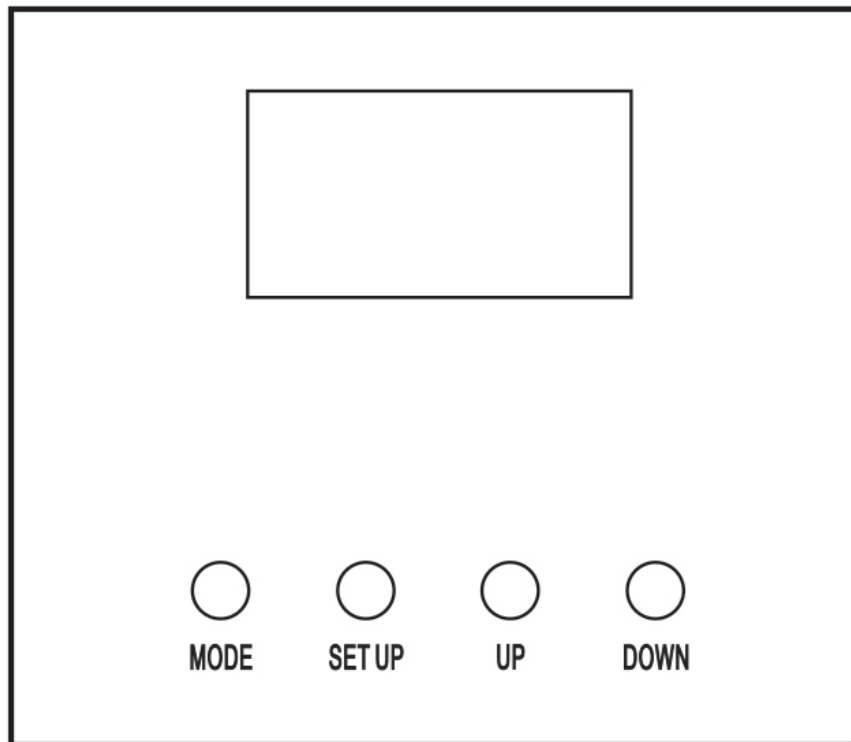- Dimmer Control

SKU NUMBER: ELI012

CONTROLS
- **Off -** Pressing this button will blackout the fixture. Press the button again to return to the initial state.
- **Speed -** Set the unit into speed mode. Use the + and – buttons to increase and decrease a running show speed.
- **Fade -** Set the unit into fade mode. Use the + and – buttons to increase and decrease the fade in a running show.
- **Color -** Press this button and use buttons 1-11 to select your desired color. 1 = Red, 2 = Blue, 3 = Green, 4 = Magenta, 5 = Purple, 6 = Cyan, 7 = Orange, 8 = Yellow, 9 = Aqua, 10 = Pink, 11 = White.
- **Dimmer -** Set the unit into speed mode. Use the + and – buttons to increase and decrease intensity.
- **"+" -** Use the + button to increase Speed, Fade and Dimmer intensity.
- **"-" -** Use the - button to decrease Speed, Fade and Dimmer intensity.
- **1 - 11 buttons -** Press these buttons to select your desired static color or to run random programs. When Color is selected, buttons 1-11 shall activate the following static colors; 1 = Red, 2 = Blue, 3 = Green, 4 = Magenta, 5 = Purple, 6 = Cyan, 7 = Orange, 8 = Yellow, 9 = Aqua, 10 = Pink, 11 = White. When Show is selected, buttons 1-11 shall activate the following shows; 1 = Show 1, 2 = Show 2, 3 = Show 3, 4 = Show 4, 5 = Show 5, 6 = Show 6, 7 = Show 7, 8 = Show 8, 9 = Show 9, 10 = Show 10, 11 = Random Shows 1-10. Shows shall run based on the speed and fade setting, 0 being slowest speed and NO fade and 100% being the fastest speed and maximum fade.

CONTROL PANEL

The Pixel Driver 170 features a display screen with a 4-button control pad, which can be used to easily adjust any device settings.

Pressing the MODE button will cycle through the various Main Menu options. When the desired Main Menu option is displayed on the screen, press the SETUP button to enter the sub-menu, then use the UP and DOWN buttons to scroll through sub-menu options. In some cases, there will be a second sub-menu that can be navigated in the same way.

```
   ○        ○        ○        ○
 MODE    SET UP     UP      DOWN
```

SYSTEM MENU

DMX CONTROL SETTINGS	Address	**001** - 512		
	Pixel Count	001 - **170**		Total number of pixels that the driver shall control
	Pixel Groups	Default = **1x170**; see *Pixel Groups* section for full list of options		Sets the number and size of pixel groups
	Channel Count	**510**		Displays the number of DMX channels being used; varies depending on Pixel Count
	No DMX Status	Blackout		
		Internal Programs		
		Hold Last		
PERSONALITY	IR Remote	**On** / Off		
	Display	Screen Saver Delay	1 - **10**, OFF	
	Service	Passcode = 011	Factory Restore	Yes / **No**
MANUAL CONTROL	Red	000 - 255		
	Green	000 - 255		
	Blue	000 - 255		
	ClrMacro	00 - 32		See *Color Macros* section for details
	Master Dimmer	000 - 255		
INTPROGS	Program 0	Speed	001 - 255	Program 0 runs randomly thru the 13 available programs
		Fade	000 - 255	
	Program 1	Speed	001 - 255	
		Fade	000 - 255	
	...	...	...	
	Program 13	Speed	001 - 255	
		Fade	000 - 255	
INFORMATION	Software Version			

DMX TRAITS

| CHANNEL	PIXEL#	DMX VALUE	FUNCTION
1		000 - 255	**Red,** 0% - 100%
2	1	000 - 255	**Green,** 0% - 100%
3		000 - 255	**Blue,** 0% - 100%
4		000 - 255	**Red,** 0% - 100%
5	2	000 - 255	**Green,** 0% - 100%
6		000 - 255	**Blue,** 0% - 100%
...	...	...	...
508		000 - 255	**Red,** 0% - 100%
509	170	000 - 255	**Green,** 0% - 100%
510		000 - 255	**Blue,** 0% - 100%

PIXEL GROUPS

The number of pixels that this device can control is limited by the available number of DMX control channels. The device has a total of 512 available DMX control channels, and each pixel requires three channels (red, green, and blue) to operate. Therefore, the maximum number of pixels that can be controlled in standard configuration is 170: 170 pixels x 3 channels per pixel = 510 channels, which is the maximum number of 3-channel groups that can be accommodated without exceeding the 512 channel limitation.

However, this device also gives the user the ability to adjust the pixel grouping configuration. In the standard configuration, individual pixels are controlled independently for finer control over the resolution of the lighting display. Alternately, multiple individual pixels may be grouped together under a common set of control channels in order to reduce the number of required control channels. This also reduces the effective pixel count for each fixture. The downside to this is the reduced resolution of the lighting display.

In each pixel control mode, the first number denotes the number of individual pixels that make up each control group, while the second number denotes the number of control groups. Each control group will always occupy 3 DMX channels (for red, green, and blue control). This means that within each control group, all pixels will be controlled by the same set of 3 DMX channels.

For example, let us examine a 30-pixel strip, as shown below. Selecting *2x15* mode means that the pixels will be divided into 15 control groups, with each group containing 2 LEDs.
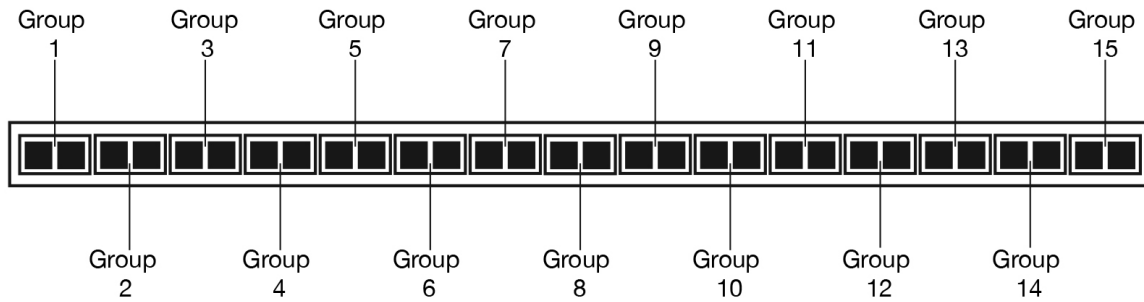
In this mode, a total of 45 DMX channels are used: 3 DMX channels (for Red, Green, Blue) per group multiplied by 15 groups.

If we want to reduce the number of control groups required, one possible solution is to select a different pixel grouping mode. For instance, selecting *3x10* mode will result in the LED display being divided into 10 control groups each containing 3 pixels. Therefore, the number of DMX channels required drops to 30: 10 control groups multiplied by 3 DMX channels (for Red, Green, and Blue) per group.
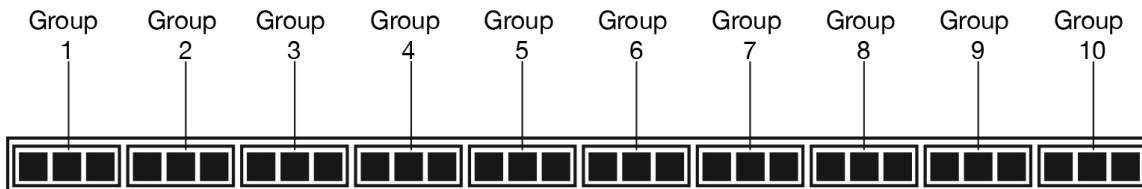
Available pixel grouping modes are shown in the tables on the following pages.

PIXEL GROUPS

Pixel Count	Pixel Group Options
1	1x1
2	1x2, 2x1
3	1x3, 3x1
4	1x4, 2x2, 4x1
5	1x5, 5x1
6	1x6, 2x3, 3x2, 6x1
7	1x7
8	1x8, 2x4, 4x2, 8x1
9	1x9, 3x3, 9x1
10	1x10, 2x5, 5x2, 10x1
11	1x11
12	1x12, 2x6, 3x4, 4x3, 6x2, 21x1
13	1x13
14	1x14, 2x7, 7x2, 14x1
15	1x15, 3x5, 5x3, 15x1
16	1x16, 2x8, 4x4, 8x2, 16x1
17	1x17
18	1x18, 2x9, 3x6, 6x3, 9x2, 18x1
19	1x19
20	1x20, 2x10, 4x5, 5x4, 10x2, 20x1
21	1x21, 3x7, 7x3, 21x1
22	1x22, 2x11, 11x2, 22x1
23	1x23
24	1x24, 2x12, 3x8, 4x6, 6x4, 8x3, 12x2, 24x1
25	1x25, 5x5, 25x1
26	1x26, 2x13, 13x2, 26x1
27	1x27, 3x9, 9x3, 27x1
28	1x28, 2x14, 4x7, 7x4, 14x2, 28x1
29	1x29
30	1x30, 2x15, 3x10, 5x6, 6x5, 10x3, 15x2, 30x1
31	1x31
32	1x32, 2x16, 4x8, 8x4, 16x2, 32x1

Pixel Count	Pixel Group Options
33	1x33, 3x11, 11x3, 33x1
34	1x34, 2x17, 17x2, 34x1
35	1x35, 5x7, 7x5, 35x1
36	1x36, 2x18, 3x12, 4x9, 6x6, 9x4, 12x3, 18x2, 36x1
37	1x37
38	1x38, 2x19, 19x2, 38x1
39	1x39, 3x13, 13x3, 39x1
40	1x40, 2x20, 4x10, 5x8, 8x5, 10x4, 20x2, 40x1
41	1x41
42	1x42, 2x21, 3x14, 6x7, 7x6, 14x3, 21x2, 42x1
43	1x43
44	1x44, 2x22, 4x11, 11x4, 22x2, 44x1
45	1x45, 3x15, 5x9, 9x5, 15x3, 45x1
46	1x46, 2x23,32x2, 46x1
47	1x47
48	1x48, 2x24, 3x16, 4x12, 6x8, 8x6, 12x4, 16x3, 24x2, 48x1
49	1x49, 7x7, 49x1
50	1x50, 2x25, 5x10, 10x5, 25x2, 50x1
51	1x51, 3x17, 17x3, 51x1
52	1x52, 2x26, 4x13, 13x4, 26x2, 52x1
53	1x53
54	1x54, 2x27, 3x18, 6x9, 9x6, 18x3, 27x2, 54x1
55	1x55, 5x11, 11x5, 55x1
56	1x56, 2x28, 4x14,7x8, 8x7, 14x4, 28x2, 56x1
57	1x57, 3x19, 19x3, 57x1
58	1x58, 2x29, 29x2, 58x1
59	1x59
60	1x60, 2x30, 3x20, 4x15, 5x12, 6x10, 10x6, 12x5, 15x4, 20x3, 30x2, 60x1
61	1x61

PIXEL GROUPS

Pixel Count	Pixel Group Options
62	1x62, 2x31, 31x2, 62x1
63	1x63, 3x21, 7x9, 9x7, 21x3, 63x1
64	1x64, 2x32, 4x16, 8x8, 16x4, 32x2, 64x1
65	1x65, 5x13, 13x5, 65x1
66	1x66, 2x33, 3x22, 6x11, 11x6, 22x3, 33x2, 66x1
67	1x67
68	1x68, 2x34, 4x17, 17x4, 34x2, 68x1
69	1x69, 3x23, 23x3, 69x1
70	1x70, 2x35, 5x14, 7x10, 10x7, 14x5, 35x2, 70x1
71	1x71
72	1x72, 2x36, 3x24, 4x18, 6x12, 8x9, 9x8, 12x6, 18x4, 24x3, 36x2, 72x1
73	1x73
74	1x74, 2x37, 37x2, 74x1
75	1x75, 3x25, 5x15, 15x5, 25x3, 75x1
76	1x76, 2x38, 4x19, 19x4, 38x2, 76x1
77	1x77, 7x11, 11x7, 77x1
78	1x78, 2x39, 3x26, 6x13, 13x6, 26x3, 39x2, 78x1
79	1x79
80	1x80, 2x40, 4x20, 5x16, 8x10, 10x8, 16x5, 20x4, 40x2, 80x1
81	1x81, 3x27, 9x9, 27x3, 81x1
82	1x82, 2x41, 41x2, 82x1
83	1x83
84	1x84, 2x42, 3x28, 4x21, 6x14, 7x12, 12x7, 14x6, 21x4, 28x3, 42x2, 84x1
85	1x85, 5x17, 17x5, 85x1
86	1x86, 2x43, 43x2, 86x1
87	1x87, 3x29, 29x3, 87x1
88	1x88, 2x44, 4x22, 8x11, 11x8, 22x4, 44x2, 88x1
89	1x89
90	1x90, 2x45, 3x30, 5x18, 6x15, 9x10, 10x9, 15x6, 18x5, 30x3, 45x2, 90x1

Pixel Count	Pixel Group Options
91	1x91, 7x13, 13x7, 91x1
92	1x92, 2x46, 4x23, 23x4, 46x2, 92x1
93	1x93, 3x31, 31x3, 93x1
94	1x94, 2x47, 47x2, 94x1
95	1x95, 5x19, 19x5, 95x1
96	1x96, 2x48, 3x32, 4x24, 6x16, 8x12, 12x8, 16x6, 24x4, 32x4, 48x2, 96x1
97	1x97
98	1x98, 2x49, 7x14, 14x7, 49x2, 98x1
99	1x99, 3x33, 9x11, 11x9, 33x3, 99x1
100	1x100, 2x50, 4x25, 5x20, 10x10, 20x5, 25x4, 50x2, 100x1
101	1x101
102	1x102, 2x51, 3x34, 6x17, 17x6, 34x3, 51x2, 102x1
103	1x103
104	1x104, 2x52, 4x26, 8x13, 13x8, 26x4, 52x2, 104x1
105	1x105, 3x35, 5x21, 7x15, 15x7, 21x5, 35x3, 105x1
106	1x106, 2x53, 53x2, 106x1
107	1x107
108	1x108, 2x54, 3x36, 4x27, 6x18, 9x12, 12x9, 18x6, 27x4, 36x3, 54x2, 108x1
109	1x109
110	1x110, 2x55, 5x22, 10x11, 11x10, 22x5, 55x2, 110x1
111	1x111, 3x37, 37x3, 111x1
112	1x112, 2x56, 4x28, 7x16, 8x14, 14x8, 16x7, 28x4, 56x2, 112x1
113	1x113
114	1x114, 2x57, 3x38, 6x19, 19x6, 38x3, 57x2, 114x1
115	1x115, 5x23, 23x5, 115x1
116	1x116, 2x58, 4x29, 29x4, 58x2, 116x1
117	1x117, 3x39, 9x13, 13x9, 39x3, 117x1
118	1x118, 2x59, 59x2, 118x1

PIXEL GROUPS

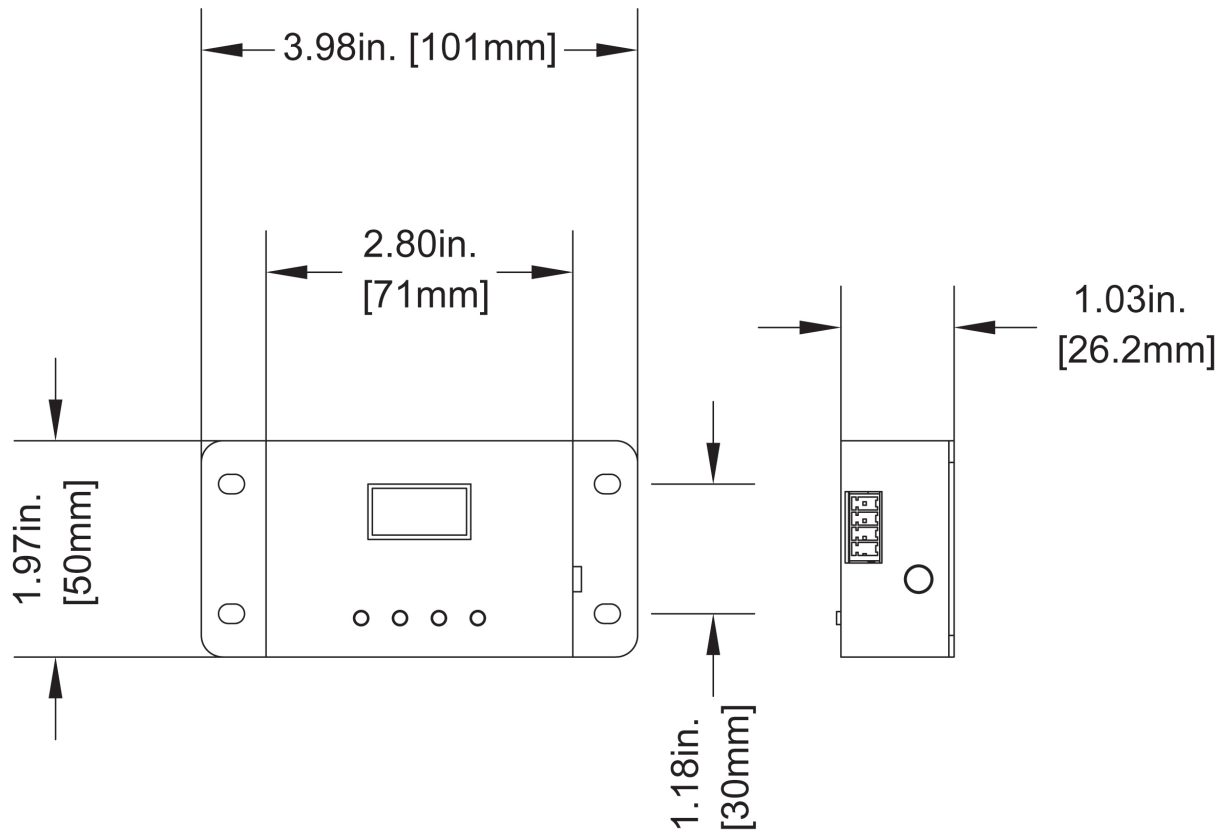| Pixel Count	Pixel Group Options
119	1x119, 7x17, 17x7, 119x1
120	1x120, 2x60, 3x40, 4x30, 5x24, 6x20, 8x15, 10x12, 12x10, 15x8, 20x6, 24x5, 30x4, 40x3, 60x2, 120x1
121	1x121, 11x11, 121x1
122	1x122, 2x61, 61x2, 122x1
123	1x123, 3x41, 41x3, 123x1
124	1x124, 2x62, 4x31, 31x4, 62x2, 124x1
125	1x125, 5x25, 25x5, 125x1
126	1x126, 2x63, 3x42, 6x21, 7x18, 9x14, 14x9, 18x7, 21x6, 42x3, 63x2, 126x1
127	1x127
128	1x128, 2x64, 4x32, 8x16, 16x8, 32x4, 64x2, 128x1
129	1x129, 3x43, 43x3, 129x1
130	1x130, 2x65, 5x26, 10x13, 13x10, 26x5, 65x2, 130x1
131	1x131
132	1x132, 2x66, 3x44, 4x33, 6x22, 11x12, 12x11, 22x6, 33x4, 44x3, 66x2, 132x1
133	1x133, 7x19, 19x7, 133x1
134	1x134, 2x67, 67x2, 134x1
135	1x135, 3x45, 5x27, 9x15, 15x9, 27x5, 45x3, 135x1
136	1x136, 2x68, 4x34, 8x17, 17x8, 34x4, 68x2, 136x1
137	1x137
138	1x138, 2x69, 3x46, 6x23, 23x6, 46x3, 69x2, 138x1
139	1x139
140	1x140, 2x70, 4x35, 5x28, 7x20, 10x14, 14x10, 20x7, 28x5, 35x4, 70x2, 140x1
141	1x141, 3x47, 47x3, 141x1
142	1x142, 2x71, 71x2, 142x1
143	1x143, 11x13, 13x11, 143x1
144	1x144, 2x72, 3x48, 6x36, 8x24, 9x18, 12x16, 16x12, 18x9, 24x8, 36x6, 48x3, 72x2, 144x1
145	1x145, 5x29, 29x5, 145x1

Pixel Count	Pixel Group Options
146	1x146, 2x73, 73x2, 146x1
147	1x147, 3x49, 7x21, 21x7, 49x3, 147x1
148	1x148, 2x74, 4x37, 37x4, 74x2, 148x1
149	1x149
150	1x150, 2x75, 3x50, 5x30, 6x25, 10x15, 15x10, 25x6, 30x5, 50x3, 75x2, 150x1
151	1x151
152	1x152, 2x76, 4x38, 8x19, 19x8, 38x4, 76x2, 152x1
153	1x153, 3x51, 9x17, 17x9, 51x3, 153x1
154	1x154, 2x77, 7x22, 11x14, 14x11, 22x7, 77x2, 154x1
155	1x155, 5x31, 31x5, 155x1
156	1x156, 2x78, 3x52, 4x39, 6x26, 12x13, 13x12, 26x6, 39x4, 52x3, 78x2, 156x1
157	1x157
158	1x158, 2x79, 79x2, 158x1
159	1x159, 3x53, 53x3, 159x1
160	1x160, 2x80, 4x40, 5x32, 8x20, 10x16, 16x10, 20x8, 32x5, 40x4, 80x2, 160x1
161	1x161, 7x23, 23x7, 161x1
162	1x162, 2x81, 3x54, 6x27, 9x18, 18x9, 27x6, 54x3, 81x2, 162x1
163	1x163
164	1x164, 2x82, 4x41, 41x4, 82x2, 164x1
165	1x165, 3x55, 5x33, 11x15, 15x11, 33x5, 55x3, 165x1
166	1x166, 2x83, 83x2, 166x1
167	1x167
168	1x168, 2x84, 3x56, 4x42, 6x28, 7x24, 8x21, 12x14, 14x12, 21x8, 24x7, 28x6, 42x4, 56x3, 84x2, 168x1
169	1x169, 13x13, 169x1
170	1x170, 2x85, 5x34, 10x17, 17x10, 34x5, 85x2, 170x1

COLOR MACROS

DMX Values	Macro Name	Red	Green	Blue	DMX Values	Macro Name	Red	Green	Blue
000	Off	0	0	0	128 - 135	Light Steel Blue	1	134	201
001 - 007	Bastard Amber	255	206	143	136 - 143	Light Sky Blue	0	145	212
008 - 015	Medium Amber	254	177	153	144 - 151	Sky Blue	0	121	192
016 - 023	Pale Amber Gold	254	192	138	152 - 159	Brilliant Blue	0	129	184
024 - 031	Gallo Gold	254	165	98	160 - 167	Light Green Blue	0	83	115
032 - 039	Golden Amber	254	121	0	168 - 175	Bright Blue	0	97	166
040 - 047	Light Red	176	17	0	176 - 183	Primary Blue	1	100	167
048 - 055	Medium Red	96	0	11	184 - 191	Congo Blue	0	40	86
056 - 063	Medium Pink	234	139	171	192 - 199	Pale Yellow Green	209	219	182
064 - 071	Broadway Pink	442	5	97					
072 - 079	Follies Pink	175	77	173	200 - 207	Moss Green	42	165	85
080 - 087	Light Lavender	119	130	199	208 - 215	Primary Green	0	46	35
088 - 095	Special Lavender	147	164	212	216 - 223	Double CTB	8	107	222
096 - 103	Lavender	88	2	163	224 - 231	Full Red	255	0	0
104 - 111	Indigo	0	38	86	232 - 239	Full Green	0	255	0
112 - 119	Hemsley Blue	0	142	208	240 - 247	Full Blue	0	0	255
120 - 127	Tipton Blue	52	148	209	248 - 255	White	255	255	255

DIMENSIONAL DRAWINGS

3.98in. [101mm]

2.80in. [71mm]

1.97in. [50mm]

1.18in. [30mm]

1.03in. [26.2mm]

Dimensions may not be drawn to scale.

SPECIFICATIONS

CONTROL / CONNECTIONS
3-Button OLED Display
1 DMX Universe (170 Pixels)
EL IR Remote (Included)
DMX Input via 3pin Phoenix connector block
DMX Output via 3pin Phoenix connector block
LED Tape Out via 4pin Phoenix connector block

SIZE / WEIGHT
Length: 3.98" (101mm)
Width: 1.97" (50mm)
Height: 1.03" (26.2mm)
Weight: 0.29lbs (0.133kgs)

ELECTRICAL
DC Input 12-24VDC, 2A
48W Max Power Consumption

APPROVALS / RATING
CE | cETL | RoHs
IP20