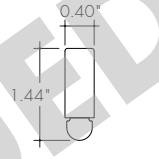
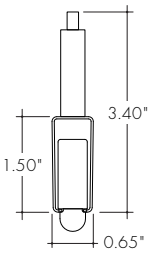
iLight Plexineon Rings Suspended | RGB, RGBW and RGBW Pixel

luminii

- Easy to install, for interior accent lighting
- Neon look providing a crisp, clear line of light visible for miles
- Mounting Clips and aircraft cable are included in the appropriate quantities
- Operating Temperature: -40° F to 140° F (-40° C to 60° C)
- 24VDC Class 2
- IK10 and 3G rated
- 5 year warranty indoor



Without Mounting Clip



With Mounting Clip and A/C Hardware

RGB RGBW Pixel 3G IK10 DIM MADE IN U.S.A CE RoHS cULus LISTED Single Bin +/- 30 CCT

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Technical Information

RING OUTER DIAMETER* (inch)		Plexineon RGB	Plexineon RGBW	Plexineon Pixel RGBW
EFFICACY		17.5 lm/W	17.1 lm/W	14.7 lm/W
Ø36 (Ø3ft)	**Lumen Output**	679 lm	792 lm	792 lm
	Power Consumption	38.6 W	46.2 W	53.7 W
Ø72 (Ø6ft)	**Lumen Output**	1357 lm	1583 lm	1583 lm
	Power Consumption	77.2 W	92.3 W	107.4 W
Ø144 (Ø12ft)	**Lumen Output**	2714 lm	3166 lm	3166 lm
	Power Consumption	154.6 W	184.7 W	214.9 W
Ø288 (Ø24)	**Lumen Output**	5429 lm	6333 lm	6333 lm
	Power Consumption	309.1 W	369.5 W	429.8 W

All channels full on.

*Rings will be made of equal sections no longer than 96" arc length. Rings exceeding 96W will have allowances for additional power feeds.

RGBW (3000K)

Model	TM-30 CRI	R_f	R_g	R_9
RGBW	93	90	102	68
RGBW-PXSPI	93	90	102	68

Dominant Wavelength

Color	RGB
Red	620nm
Green	523nm
Blue	470nm

Ordering Code

MODEL	RING DIAMETER[1]	RING TYPE	CCT	OUTPUT	LENS	MOUNTING[2]	BODY FINISH	CANOPY FINISH	POWERFEED POSITION/TYPE
PX - Plexineon	____ - Ring Outer diameter in inches, 6"-288" (24ft)	HR - Horizonal Ring	RGB - RGB RGBW - RGBW (3000K) RGBW-PXSPI - RGBW Pixel Control (3000K)	SO - Standard	F - Frosted	SP - Suspension Mount, Standard Clips SPD - Suspension Mount, Decorative Clips[3]	GG - Gloss Grey BK - Matte Black GY - Matte Grey WH - Matte White	BK - Matte Black WH - Matte White	LMB-RFB - Plug Quick Connect one end, Receptacle Quick Connect other end

1. Rings will be made of equal sections no longer than 96" arc length. Tolerance on size of diameter is +/- 1".
2. 2 mounting clips included for every 12" of diameter, with a minimum of 3 clips.
3. Standard mounting clip come with stainless steel finish. Decorative Clips match the fixture finish.

iLight Plexineon Rings Suspended | RGB, RGBW and RGBW Pixel

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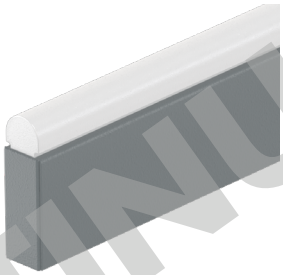
Finish Options

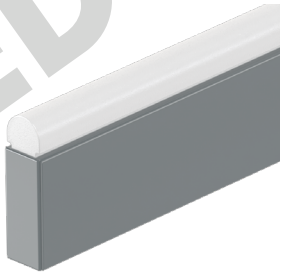
BK
Matte Black Finish

WH
Matte White Finish

GY
Matte Grey Finish



GG
Gloss Grey Finish

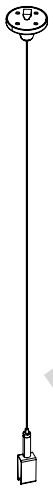


Suspension Hardware

- Suspension Hardware is included with Plexineon runs in the appropriate quantity, every 30" of linear/arc length
- Standard Clips have a stainless steel finish, Decorative Clip finishes match the fixture finishes
- Canopy Finishes come in White.

SP/SPD

SC-1MP2-SCL-0X-0Y
Suspension Kit with Single Clip, Ø2.0" canopy, 150" A/C Cable

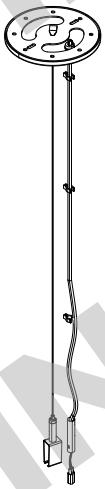


Used approximately every 30" of linear/arc length for Standard Clips and every 18" of linear/arc length for Decorative Clips

SC-1MP2-DCL-0X-0Y
Suspension Kit with Joiner Clip, Ø2.0" canopy, 150" A/C Cable

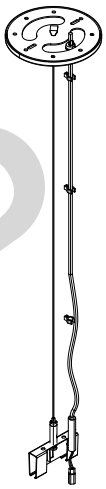
Use to join two fixtures together in the middle of a Suspended Run

SC-1FC5-SCL-CX-0X-0Y
Powerfeed Canopy Suspension Kit with Single Clip, Ø5.0" canopy, 150" A/C Cable



Used at the start of every Suspended Run

SC-1FC5-DCL-CX-0X-0Y
Powerfeed Canopy Suspension Kit with Joiner Clip, Ø5.0" canopy, 150" A/C Cable



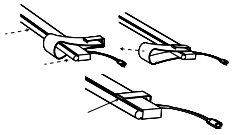
Used to join two fixtures together and to drop power in the middle of a Suspended Run

CX	Connector Type
C4	For RGB
C5	For RGBW
C3	For Pixel

0X	Clip Finish
00	Stainless Steel
01	Matte Black
02	Matte Grey
03	Matte White

0Y	Canopy Finish
01	Matte Black
03	Matte White

70-TOL02-001-01
Mounting Clip Installation Tool



Use for installation of Plexineon into Mounting Clips

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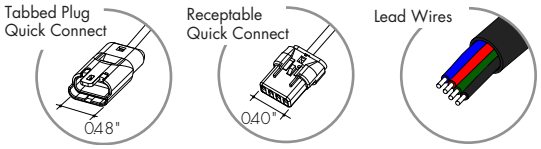
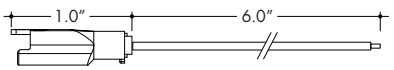
Powerfeed and Connectors

- Quick Connectors with 6" flying leads are included in the Plexineon runs per CCT option selected. Order extras as desired.
- Pixel data direction travels from Plug to Receptacle

Connectors for use with RGB - Sold Separately



60-SJ-C4-0001-01
iLight TABBED PLUG Quick Connect with 6" flying leads, 4-conductor, Black



Also available with longer Flying Leads

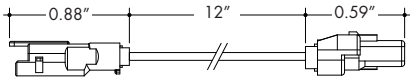
60-SJ-C4-0003-01	120" flying leads

60-SJ-C4-0002-01
iLight RECEPTABLE Quick Connect with 6" flying leads, 4-conductor, Black

Also available with longer Flying Leads

60-SJ-C4-0004-01	120" flying leads

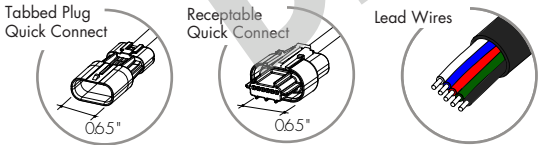
60-SJ-C4-JMP-12-01
iLight Plug-Receptacle Quick Connect 12" Jumper, 4-conductor, Black silicone jacket



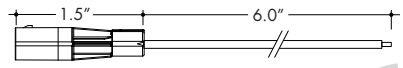
Also available with longer wires

60-SJ-C4-JMP-48-01	48" jumper
60-SJ-C4-JMP-120-01	120" jumper

Connectors for use with RGBW - Sold Separately



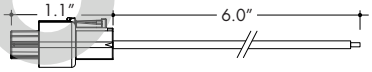
60-SJ-C5-0001-01
iLight TABBED PLUG Quick Connect with 6" flying leads, 5-conductor, Black



Also available with longer Flying Leads

60-SJ-C5-0003-01	120" flying leads

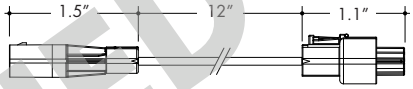
60-SJ-C5-0002-01
iLight RECEPTABLE Quick Connect with 6" flying leads, 5-conductor, Black



Also available with longer Flying Leads

60-SJ-C5-0004-01	120" flying leads

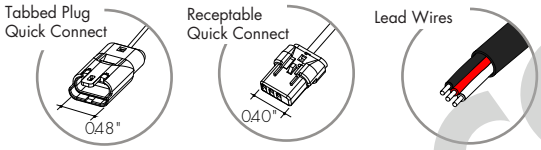
60-SJ-C5-JMP-12-01
iLight Plug-Receptacle Quick Connect 12" Jumper, 5-conductor, Black silicone jacket



Also available with longer wires

60-SJ-C5-JMP-48-01	48" jumper
60-SJ-C5-JMP-120-01	120" jumper

Connectors for use with Pixel - Sold Separately

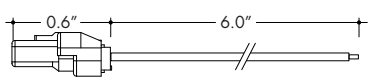


60-SJ-C3-0001-01
iLight TABBED PLUG Quick Connect with 6" flying leads, 3-conductor, Black

Also available with longer Flying Leads

60-SJ-C3-0007-01	120" flying leads

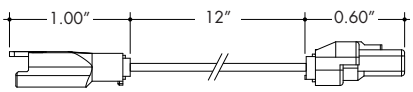
60-SJ-C3-0002-01
iLight RECEPTABLE Quick Connect with 6" flying leads, 3-conductor, Black



Also available with longer Flying Leads

60-SJ-C3-0008-01	120" flying leads

60-SJ-C3-JMP-12-01
iLight Plug-Receptacle Quick Connect 12" Jumper, 3-conductor, Black silicone jacket



Also available with longer wires

60-SJ-C3-JMP-48-01	48" jumper
60-SJ-C3-JMP-120-01	120" jumper

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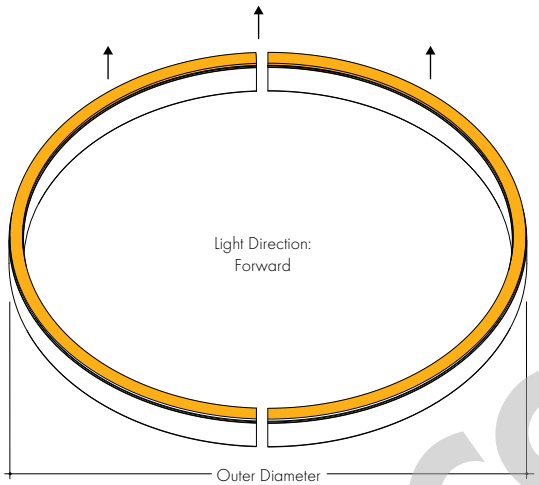
Ring Types

HR
Horizontal Ring

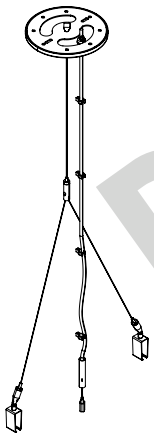


(Use this dimension for Ordering Code)

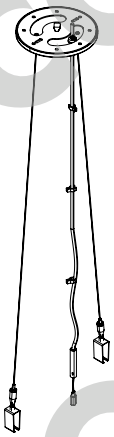
Additional Material

- Ordered separately.

CC-2MF-190-SCL-CX-0X-0Y
Powerfeed Canopy Suspension Kit with Cross Cable and 2 Single Clips Ø5.0" canopy 150" A/C Cable



CC-2MF-150-SCL-CX-0X-0Y
Powerfeed Canopy Suspension Kit with 2 Cables and Single Clips Ø5.0" canopy 150" A/C Cable



SC-2FC5-DCL-CX-0X-0Y
Dual Powerfeed Canopy Standard or Decorative Joiner Clips 150" A/C Cable

CX	Connector Type
C4	For RGB
C5	For RGBW
C3	For Pixel

0X	Clip Finish
00	Stainless Steel
01	Matte Black
02	Matte Grey
03	Matte White

0Y	Canopy Finish
01	Matte Black
03	Matte White

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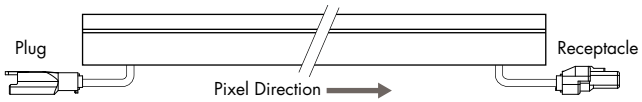
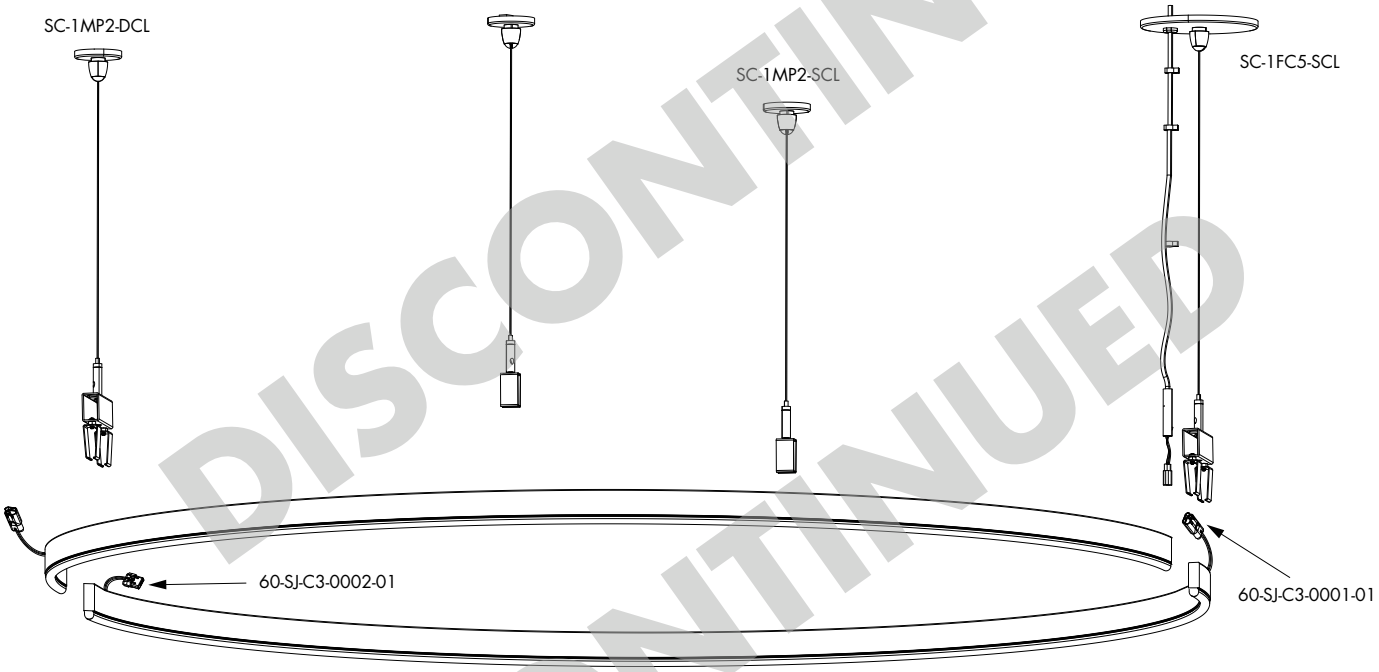
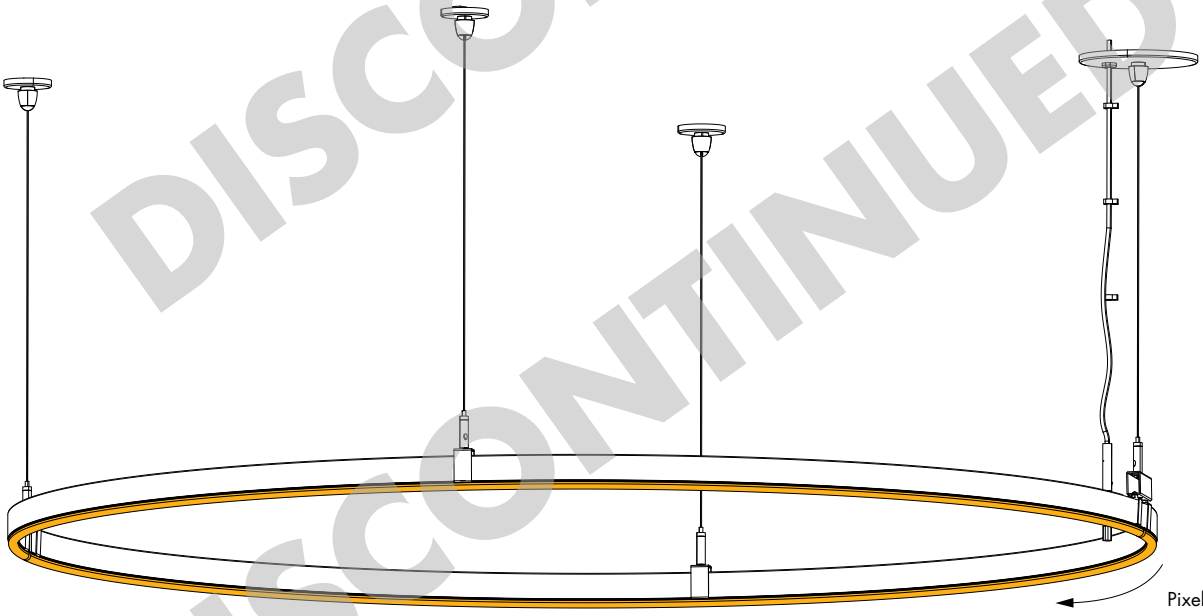
Sample Layout

- Note (Pixel Only): Pixel direction will be shown with a label on the side of the fixture. Pixel data direction travels from Plug to Receptacle



PX-48-HR-RGBW-PXSPI-SO-F-SP-GG-BK-B-4
Plexineon Horizontal Ring, Suspended Mounting Clips





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Power Consumption

Tested at Full Power with PS-UNI Series power supplies.
Standard Nominal Lengths offered provide minimal shadowing. For alternate lengths, please consult Inside Sales with specific request.

RGB

Nominal Diameter (in)	Watts	Nominal Length (in)	Watts
12	12.8	**217**	236.8
24	26.2	**222**	242.4
36	39	**227**	246.4
48	52.4	**232**	252.8
60	64.4	**237**	257.6
72	78.6	**242**	257.6
84	90.9	**244**	266.4
96	104.8	**250**	272.7
156	170.4	**256**	277.2
159	173.4	**261**	284.4
163	177.6	**267**	289.8
167	181.8	**273**	289.8
171	184.8	**272**	296
174	189.6	**278**	303
178	193.2	**284**	308
182	193.2		
181	198.8		
186	202.3		
190	207.2		
195	212.1		
199	215.6		
203	221.2		
208	225.4		
212	225.4		

RGBW

Nominal Length (in)	Watts
12	17.1
24	34.6
36	51.8
48	69.2
72	103.8
84	116.1
96	138.4
120	173
159	224.4
167	232.2
174	242.4
182	253.2
177	250.6
186	261.8
195	270.9
203	282.8
212	295.4
222	309.6
232	323.2
242	337.6
239	336.6
250	348.3
261	363.6
273	379.8
265	374
278	387

PIXEL

Nominal Length (in)	Watts	Pixel Qty
12	17.5	**9**
24	36.2	**19**
36	53.8	**28**
48	72.4	**38**
72	108.6	**57**
84	125.1	**66**
96	144.8	**76**
120	181	**95**
159	240	**126**
167	250.2	**132**
174	261.6	**138**
182	271.2	**144**
177	266.7	**140**
186	280	**147**
195	291.9	**154**
203	305.2	**161**
212	316.4	**168**
222	333.6	**176**
232	348.8	**184**
242	361.6	**192**
239	360	**189**
250	375.3	**198**
261	392.4	**207**
273	406.8	**216**
265	400	**210**
278	417	**220**

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Voltage Drop Calculator

The below chart assumes nominal voltage of 24 Volts and a Voltage Drop Allowance of 3% through the wire

Wattage [W]	Maximum Wire Length From Power Supply to Start of Run [ft]						
	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG
5	1088.2	684.4	430.3	270.6	170.2	107.1	67.3
10	544.1	342.2	215.1	135.3	85.1	53.5	33.7
15	362.7	228.1	143.4	90.2	56.7	35.7	22.4
20	272.0	171.1	107.6	67.7	42.6	26.8	16.8
25	217.6	136.9	86.1	54.1	34.0	21.4	13.5
30	181.4	114.1	71.7	45.1	28.4	17.8	11.2
35	155.5	97.8	61.5	38.7	24.3	15.3	9.6
40	136.0	85.5	53.8	33.8	21.3	13.4	8.4
45	120.9	76.0	47.8	30.1	18.9	11.9	7.5
50	108.8	68.4	43.0	27.1	17.0	10.7	6.7
55	98.9	62.2	39.1	24.6	15.5	9.7	6.1
60	90.7	57.0	35.9	22.6	14.2	8.9	5.6
65	83.7	52.6	33.1	20.8	13.1	8.2	5.2
70	77.7	48.9	30.7	19.3	12.2	7.6	4.8
75	72.5	45.6	28.7	18.0	11.3	7.1	4.5
80	68.0	42.8	26.9	16.9	10.6	6.7	4.2
85	64.0	40.3	25.3	15.9	10.0	6.3	4.0
90	60.5	38.0	23.9	15.0	9.5	5.9	3.7
96	56.7	35.6	22.4	14.1	8.9	5.6	3.5

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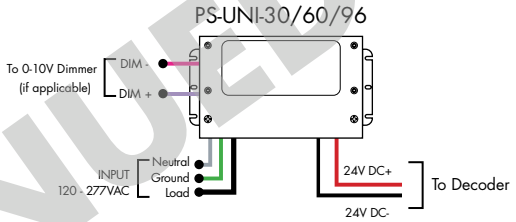
Power Supplies

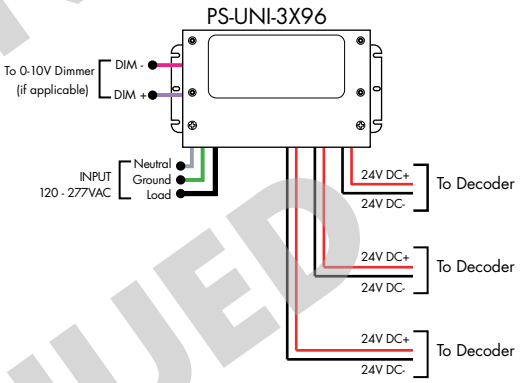
See fixture and power supply instructions & spec sheet for wiring information. Dimming possible in select models - view Luminii website for list of compatible dimmers.

For use with RGB/RGBW

Ordering Code - Universal Dimming Power Supplies 0.1% 120VAC - 277VAC

MODEL		INPUT CONTROL		WATTAGE		OUTPUT
	–		–		–	
PS - Power Supply, 120-277VAC		UNI - 0-10V Dimming (0.1%), Phase Dimming (0.1%)		30 - 30 Watts 60 - 60 Watts 96 - 96 Watts 3x96 - 3x96 Watts		24 - 24 VDC





MODELS	PS-UNI-30W	PS-UNI-60W	PS-UNI-96W	PS-UNI-3X96W
Length	6.50"	7.40"	8.66"	11.85"
Width	3.73"	3.73"	3.73"	4.32"
Depth	1.61"	1.61"	1.61"	1.81"

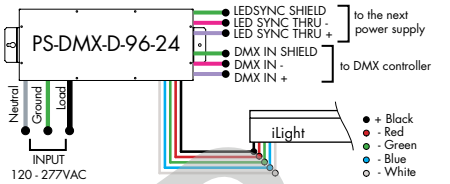
REQUIRES A CONTROLLER AND A DECODER TO WORK PROPERLY

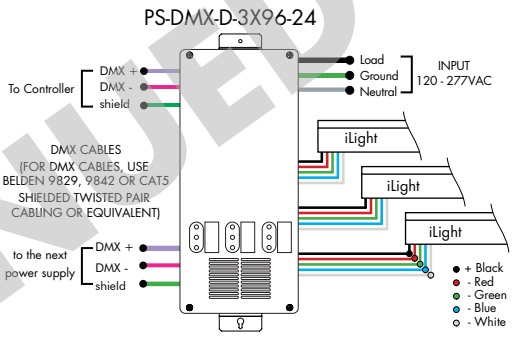
For use with RGB/RGBW

Ordering Code - DMX Dimming Power Supplies 0.1% 120VAC - 277VAC

MODEL		INPUT CONTROL		ENVIRONMENT		WATTAGE		OUTPUT
	-		-		-		-	
PS - Power Supply, 120-277VAC		DMX - DMX (0.1%)		D - Dry		96 - 96 Watts 3X96 - 3X96 Watts		24 - 24 VDC

DMX CABLES
(FOR DMX CABLES, USE BELDEN 9829, 9842 OR CAT5 SHIELDED TWISTED PAIR CABLING OR EQUIVALENT)



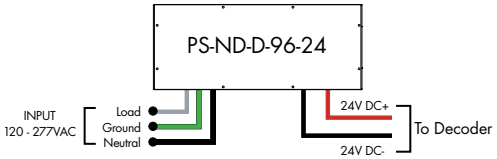


MODELS	96W	3X96
Length	14.40"	15.00"
Width	5.20"	6.62"
Depth	2.60"	4.56"

For use with RGB/RGBW/Pixel

Ordering Code - Non-Dimming Power Supply 120VAC - 277VAC

MODEL		INPUT CONTROL		ENVIRONMENT		WATTAGE		OUTPUT
	-		-		-		-	
PS - PSV Series		ND - Non Dimming		D - Dry		96 - 96 Watts		24 - 24 VDC



MODELS	96W
Length	14.40"
Width	5.20"
Depth	2.60"

REQUIRES A CONTROLLER AND A DECODER TO WORK PROPERLY

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Controllers and Decoders

For use with RGB/RGBW Power Supplies

ORDERING CODE

MODEL

DDMX-RGBW

DDMX-RGBW - DMX decoder

Translates controller DMX512 programs for RGB and white LED strips.

Unique DMX address for the decoder can be set easily and displayed by the numeric display on the case. Changing and resetting the DMX address requires manual input.

Use power repeater to expand output.

Operating Voltage

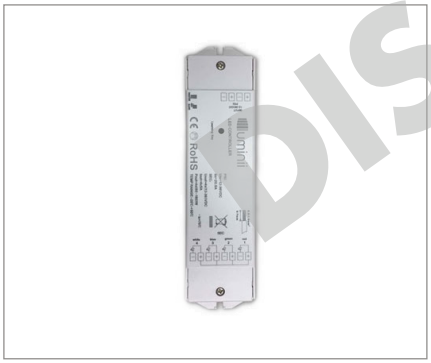
12-36 VDC

Power Capacity

up to 96W at 24V

Operating Temperature Range

from -4°F to +122°F in case



ORDERING CODE

MODEL

RGBW-RC-R

RGBW-RC-R - RGBW receiver

The RGBW receiver is easily paired with controller by the click of a button. Receiver can be reset to factory settings at any time.

Each receiver can store one static RGB color, one color sequence, and one brightness setting for the white LED strip. Receivers assigned to the same scene within the same zone will have the same LED static color and color sequence.

Operating Voltage

12-36 VDC

Power Capacity

up to 96W at 24V

Operating Temperature Range

from -4°F to +122°F in case

ORDERING CODE

MODEL

RGBW-SR

RGBW-SR - RGBW signal repeater

Extends identical signal when connected in series to an RGBW LED control system. The RGBW signal repeater works with Luminii RGB and RGBW controllers, receivers, and decoders.

RGBW signal can be extended indefinitely when adequate power supply (not included) is connected to the system.

Operating Voltage

12-36 VDC

Power Capacity

up to 96W at 24V

Operating Temperature Range

from -4°F to +122°F in case

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Controllers and Decoders

For use with RGB/RGBW Power Supplies

ORDERING CODE

MODEL

RGBW-MC3

RGBW-MC3 - 4-zone RGBW controller

Easy to operate wireless interface suitable for static or color changing scenes. Control 4 different color zones separately or at the same time. RGBW receiver (RGBW-RC-R) required for operation. Assign multiple receivers per zone to cover a large area.

Color wheel enables highly stable and sensitive color control functionality. Create your own color changing sequences with ease and flexibility.

Power

qty 3 AAA batteries

Scenes

up to 4 unique zones

Signal

Wireless (RF)

Energy Saving

Deactivates after 10 seconds of inactivity

Color Parameters

- Brightness
- Saturation
- Primary colors
- Speed of color changing sequence
- Fading

ORDERING CODE

MODEL	ZONES	COLOR
DMX-DMX Controller	3Z-Three Zone 1Z-One Zone	RGBW-Red,Green, Blue,& White

DMX /Wireless RGB-W wall-mount controller controls DMX lighting fixtures, wireless control of RGB-W lighting fixture or use both simultaneously. Fits in any standard US switch box. Includes all the outputs in the back of the controller.

Control brightness levels with a single touch, personalize and memorize 3 different scenes, and even create 3 variations of white.

Features

- 2 in 1 in-Wall Controller: DMX Control or Wireless RGB-W
- 65,000 Color Options, Dimming and Speed Control
- Memory Function
- 50 Foot Wireless Range
- Easily Fits Standard US Switch Boxes
- Touch Sensitive Glass Surface
- Includes 10 Built in Programs, or Create and Play Your Own

Operating Voltage

12 - 24V DC

Color Parameters

- Brightness
- Saturation
- Primary colors
- Fading
- Color changing speed

For use with RGB/RGBW, Pixel Power Supplies

ORDERING CODE

MODEL

TSDMX-E

TSDMX-E - Touchscreen DMX controller

Programmable advanced DMX512 lighting controller featuring a touch-screen interface. Operates as stand alone controller or integrated with most architectural lighting control systems. Can controller endless DMX512 enabled devices.

Mounts to standard single or dual gang wall box with the included power supply inside the junction box. Terminal block design for power and data connections.

Features

- Sleek glass design which sits 0.43" from the wall
- Graphical color display to show selected environment
- Color/dimmer/speed palette
- Color temperature mixing
- Touch sensitive buttons. No mechanical parts
- Touch sensitive wheel allows for accurate color selection
- Multi-zone microSD memory
- Multi-room control with 500 scenes, 10 zones
- 1024 DMX channels. Control 340 RGB fixtures
- USB & Ethernet connectivity for programming and control

Power Supply

7 VDC (included)

Programmability

PC, Mac, Tablet, Smartphone

Output Signal

DMX512 (1024 channels)

Color Parameters

- Brightness
- Saturation
- Speed of color changing sequence
- Fading / dimming / brightness

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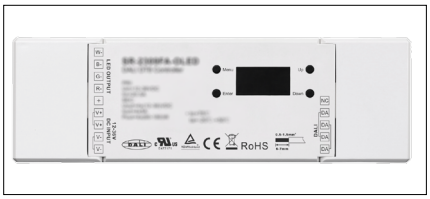
Controllers and Decoders

For use with RGB/RGBW Power Supplies



ORDERING CODE

MODEL

DALI2-DT8-RGBW

DALI2-DT8-RGBW - DALI-2 RGBW Decoder

A 4-channel DALI2 DT8 decoder designed to control RGB, RGBW, and TW LED fixtures, featuring adjustable color temperature and customizable lumen output.

Voltage/Frequency
12-36VDC

Max Output Power
4 output channels, 60-180W each

Max Output Current
4 output channels, max of 5A each

Ambient Operating Temperature Range
-20 to 50°C

Environment
Dry (IP20)

ORDERING CODE

MODEL

DDMX-5CH-RDM-PRO

DDMX-5CH-RDM-PRO - DMX512 Decoder

DMX512 decoder with RDM functionality features 5 PWM output channels with common anode. High PWM output frequency range allows the product to be used in HD video conferencing spaces.
All DMX products to be installed per DMX512 Standard.

Power
96 Watt

Inputs
RJ45, XLR-5Pin, Terminal Block

DMX Channels
1 to 5 settable

PWM Output Resolution Ratio
8 or 16 bit

PWM Output Frequency
500Hz - 30KHz

Output Dimming Curve Gamma Value
0.1 ~ 9.9

ORDERING CODE

MODEL

RGBW-WI-R

RGBW-WI-R - WIFI generator

RGBW-WI-R creates a local network that enables any electronic device (phone, tablet, etc.) to control the RGB/W strip connected to a RGBW-RC-R receiver.

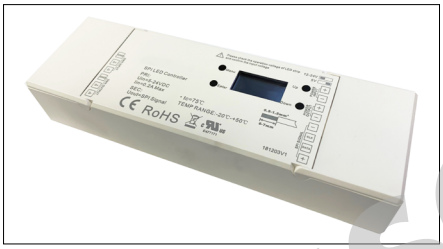
The control functions are achieved through a free application download for Android and iOS devices called REALCOLOR.

Operating Voltage
12-36 VDC

Power Supply
PI-130-24 (included)

Operating Temperature Range
from -4°F to +122°F in case

For use with Pixel Power Supplies - Pair with PS-ND-96-24



ORDERING CODE

MODEL

SR-DMX-SPI

SR-DMX-SPI - Smart Pixel Decoder

The SR-DMX-SPI is a smart LED pixel decoder that controls 12-24V RGB/RGBW pixel LED strips with SPI signal.
Designed with an OLED backlit panel, the pixel controller allows for easy configuration of most settings. Four push buttons provide access to configuration settings through OLED display.

Features

- SPI signal output for RGB/RGBW pixel light control
- DMX512 controllable or RF remote controllable. 512 DMX decoding channels
- 35 built in sequences for chasing, changing, and static colors under RF mode
- Works with integrated DMX consoles and sequencing software
- Supports 44 selectable pixel IC protocols including UCS2903 and UCS2904

Operating Voltage
DC5V - DC12-24V

Power capacity
up to 96W at 24V

Operating temperature range
-4°F to +122°F

Pixel Capacity
RGB - 170 pixels individually
(3,333 pixels at the same time)
RGBW - 128 RGBW pixels individually
(2,499 pixels at the same time)

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