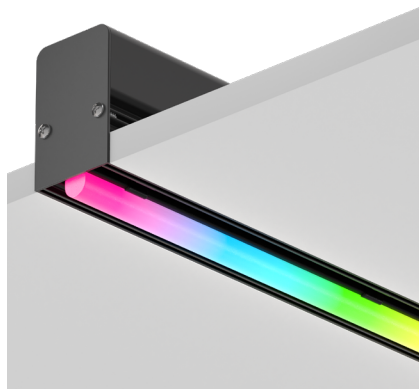


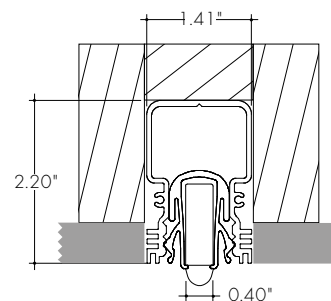
Plexineon Recessed Mount

RGB, RGBW and RGBW Pixel

ilight
by luminii



- For interior accent lighting.
- Neon look providing a crisp, clear line of light visible for miles
- Mounting Clips 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



In Recessed Extrusion



Technical Information

MODEL	Plexineon RGB	Plexineon RGBW	Plexineon Pixel RGBW
OUTPUT OPTIONS	SO		
Lumens Output (all channels full on)	72 lm/ft	110 lm/ft	84 lm/ft
Average Power Consumption (for a 4" section)	4.1 W/ft	5.4 W/ft	5.7 W/ft
Efficacy	17.5 lm/W	20.3 lm/W	14.7 lm/W
Order Increment	1.97"	3.94"	3.94"
Max Run Length (in series)	32 ft	17 ft	16 ft
SPI Protocol	N/A	N/A	UCS 2904
DMX Addresses Occupied	N/A	N/A	4-channels per pixel

RGBW (3000K)				
Model	TM-30			
	CRI	R _f	R _g	R _p
RGBW	85	84	98	22
RGBW-PXSPI	85	84	98	22

Dominant Wavelength	
Color	RGB
Red	622nm
Green	525nm
Blue	468nm

Ordering Code

MODEL	RUN LENGTH ¹	BEND	CCT	OUTPUT	LENS	MOUNTING ²	FINISH	POWERFEED POSITION/TYPE
PX-Plexineon	— -Run length in inches, 3" (RGB) and 5" (RGBW/PIXEL) min, no max run length	SR-Straight Run	RGB-RGB RGBW-RGBW (3000K) RGBW-PXSPI-RGBW Pixel Control (3000K)	SO-Standard	F-Frosted	RM-Recessed Mount	BK-Matte Black	B-4-Plug Quick Connect one end, Receptacle Quick Connect other end

1. RGB is available in 2" (1.97") order increments. RGBW and Pixel RGBW are available in 4" (3.94"), +/- 1/2" tolerance. Run Lengths over 96" (8ft) will be made of equal sections no longer than 96".

2. Recessed Mount includes all necessary hardware for either mud-in or hard ceiling (stone, marble) installation. Blocking above ceiling built by others.

Plexineon Recessed Mount

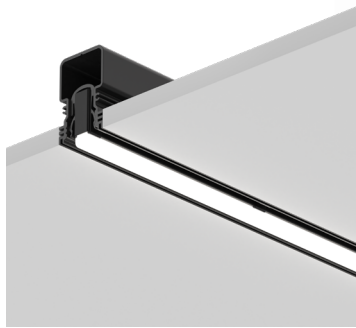
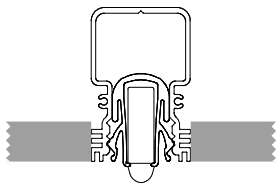
RGB, RGBW and RGBW Pixel

Installation Configurations

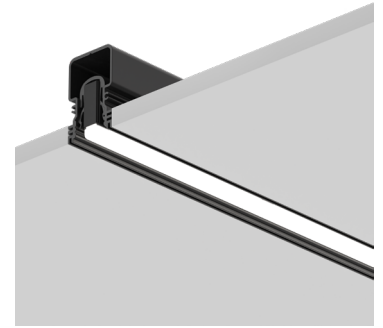
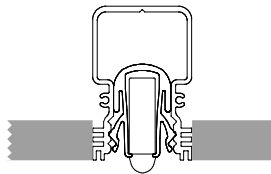
- Position of Plexineon fixtures within Extrusion Housing is adjustable in the field at time of install.



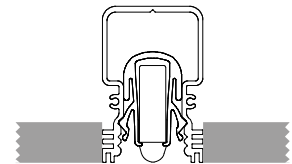
Exposed



Semi-Recessed



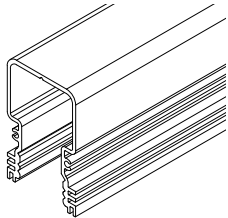
Fully Recessed



Recessed Mounting Components & Tools

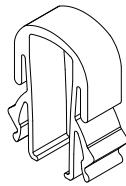
- Mounting Hardware is included with Plexineon runs in the appropriate quantity, including Extrusion Housing and Plaster Plate. Order extras as desired. Blocking above ceiling built by others.

75-EXT01-001-00
Extrusion Housing (Black)



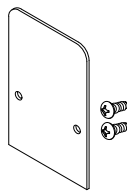
Mount to deck or support backing above ceiling. Ships in 96" sections, field cut to size

75-CLP32-001-00
Recessed Mounting Clip



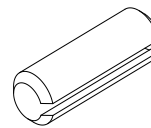
Placed approximately every 30" as well as 2" from the ends. **Use Glue to adhere with Plexineon fixture.**

80-MTP01-001-00
End Plate



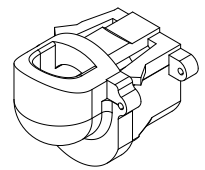
Two per continuous run

80-PIN03-001-00
Alignment Pin



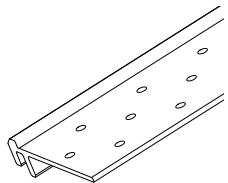
Two for every Extrusion to Extrusion connection.

80-BSH02-001-00
Powerfeed Strain Relief



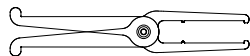
One per driver connection

35-EXT01-001-00
Plaster Plate, Mud-in



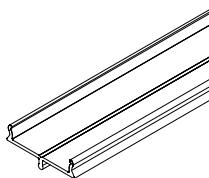
Used for drywall install and mud-in applications

70-TOL03-001-00
Tool



Allows for changing of installation configurations

35-EXT03-001-00
Paint Mask



Protects interior of the Extrusion Housing during mud-in and paint

45-GLU01-001-00
Glue



Used to adhere Recessed Mounting Clips to Plexineon fixture

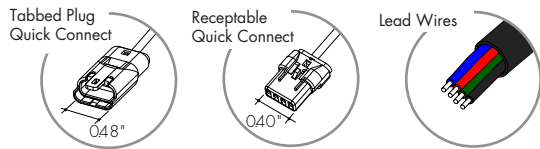
Plexineon Recessed Mount

RGB, RGBW and RGBW Pixel

Powerfeed and Connectors

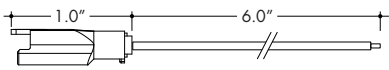
- Quick Connectors with 6" flying leads are included in the Plexineon runs per CCT option selected. Order extras as desired.
- Pixel data direction travels from Plug to Receptacle

For use with RGB



60-SJ-C4-0001-01

ilight TABBED PLUG Quick Connect with 6" flying leads, 4-conductor, Black

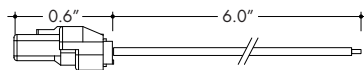


Also available with longer Flying Leads

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

60-SJ-C4-0002-01

ilight RECEPTABLE Quick Connect with 6" flying leads, 4-conductor, Black

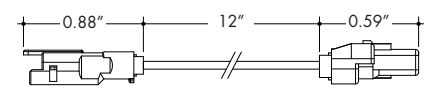


Also available with longer Flying Leads

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

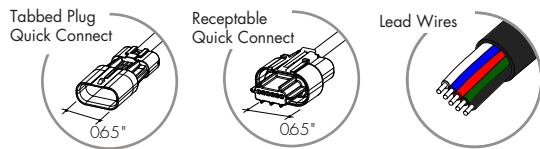


Also available with longer wires

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

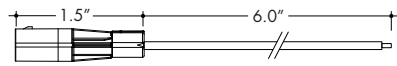
60-SJ-C4-JMP-120-01 120" jumper

For use with RGBW



60-SJ-C5-0001-01

ilight TABBED PLUG Quick Connect with 6" flying leads, 5-conductor, Black

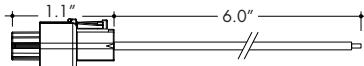


Also available with longer Flying Leads

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

60-SJ-C5-0002-01

ilight RECEPTABLE Quick Connect with 6" flying leads, 5-conductor, Black

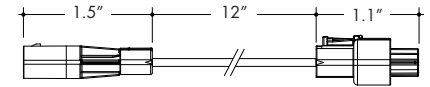


Also available with longer Flying Leads

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

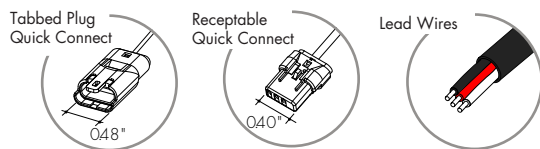


Also available with longer wires

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

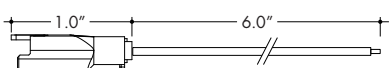
60-SJ-C5-JMP-120-01 120" jumper

For use with Pixel



60-SJ-C3-0001-01

ilight TABBED PLUG Quick Connect with 6" flying leads, 3-conductor, Black



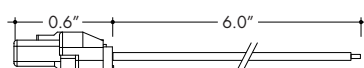
Also available with longer Flying Leads

60-SJ-C3-0005-01 384" 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



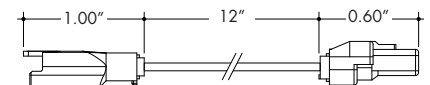
Also available with longer Flying Leads

60-SJ-C3-0006-01 384" 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

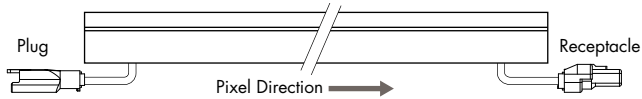
60-SJ-C3-JMP-120-01 120" jumper

Plexineon Recessed Mount

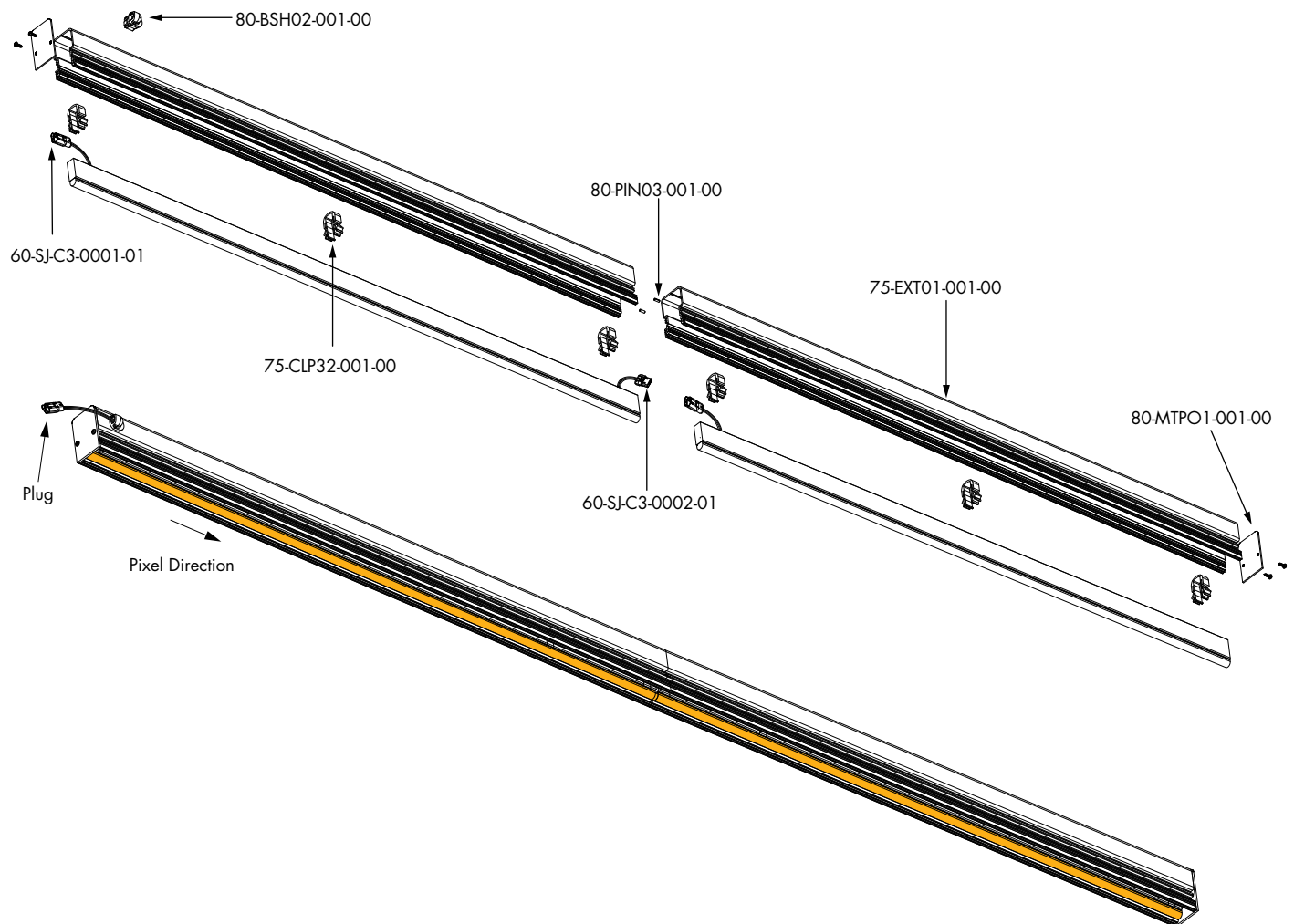
RGB, RGBW and RGBW Pixel

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



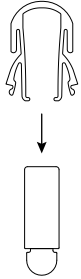
PX-108-SR-RGBW-PXSPI-SO-F-RM-BK-B-4 Plexineon Recessed



Plexineon Recessed Mount

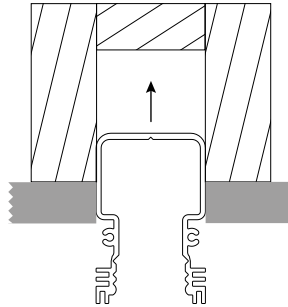
RGB, RGBW and RGBW Pixel

Recessed Mounting Installation

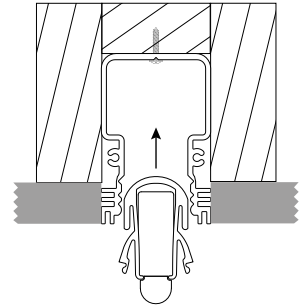


Install Recessed Mounting Clips onto plexineon straight run fixture. **Use glue to fill any gaps between clip and fixture.**

Note: use 1 clip per approximately every 30".



Build blocking above ceiling plane. Screw onto the support blocking or deck.



Install Plexineon with Recessed Mounting Clips into Extrusion Housing at desired position.

Plexineon Recessed Mount

RGB, RGBW and RGBW Pixel



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 Length (in)	Actual Length	Watts	Nominal Length (in)	Actual Length	Watts
3	2 8/16	0.7	52	51 12/16	18.3
5	4 8/16	1.4	54	53 11/16	19
7	6 7/16	1.9	56	55 11/16	19.5
9	8 7/16	2.9	58	57 10/16	20.2
11	10 6/16	3.6	60	59 10/16	21.2
13	12 6/16	4.1	62	61 9/16	21.7
15	14 5/16	4.9	64	63 9/16	22.4
17	16 5/16	5.5	66	65 8/16	23.1
19	18 4/16	6.5	68	67 8/16	23.6
21	20 4/16	7.2	70	69 7/16	24.3
23	22 3/16	7.7	72	71 7/16	25.1
25	24 3/16	8.4	74	73 6/16	25.5
27	26 2/16	9.2	76	75 6/16	26.2
29	28 2/16	10.1	78	77 5/16	27
31	30 1/16	10.6	80	79 5/16	27.7
33	32 1/16	11.6	82	81 4/16	28.4
35	34	12.1	84	83 4/16	28.9
36	36	12.8	86	85 3/16	29.6
38	37 15/16	13.5	88	87 3/16	30.3
40	39 15/16	14.2	90	89 2/16	30.8
42	41 14/16	15.2	92	91 2/16	31.6
44	43 14/16	15.7	94	93 1/16	32.2
46	45 13/16	16.2	96	95 1/16	32.2
48	47 13/16	17.1			
50	49 12/16	17.8			

RGBW

Nominal Length (in)	Actual Length	Watts
5	4 8/16	1.9
9	8 7/16	3.8
13	12 6/16	5.5
17	16 5/16	7.7
21	20 4/16	9.4
25	24 3/16	11.5
29	28 2/16	13.5
33	32 1/16	15.4
36	36	17.1
40	39 15/16	18.9
44	43 14/16	20.6
48	47 13/16	22.5
52	51 12/16	24.2
56	55 11/16	25.9
60	59 10/16	27.7
64	63 9/16	29.4
68	67 8/16	31.1
72	71 7/16	32.9
76	75 6/16	34.6
80	79 5/16	35.8
84	83 4/16	37.4
88	87 3/16	38.7
92	91 2/16	40.4
96	95 1/16	42.2

PIXEL

Nominal Length (in)	Actual Length	Watts	Pixel Qty
5	4 9/16	1.8	1
9	8 8/16	3.6	2
13	12 7/16	5.6	3
17	16 6/16	7.7	4
21	20 5/16	9.6	5
25	24 4/16	11.5	6
29	28 3/16	13.7	7
33	32 2/16	15.6	8
37	36 1/16	17.5	9
40	40	19.1	10
44	43 15/16	21.3	11
48	47 14/16	22.9	12
52	51 13/16	25	13
56	55 12/16	26.9	14
60	59 11/16	28.5	15
64	63 10/16	30.4	16
68	67 9/16	32.3	17
72	71 8/16	34.3	18
76	75 7/16	36.2	19
80	79 6/16	38.1	20
84	83 5/16	40	21
88	87 4/16	41.7	22
92	91 3/16	43.6	23
96	95 2/16	45.2	24

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

Plexineon Recessed Mount

RGB, RGBW and RGBW Pixel



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.

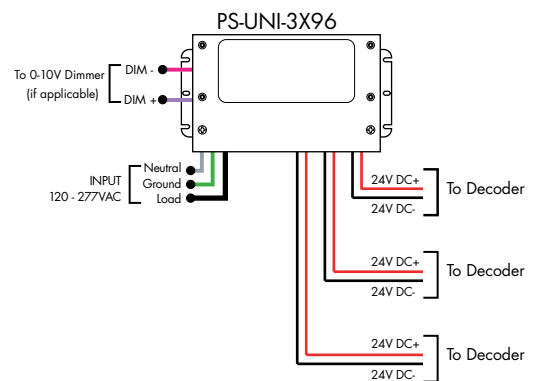
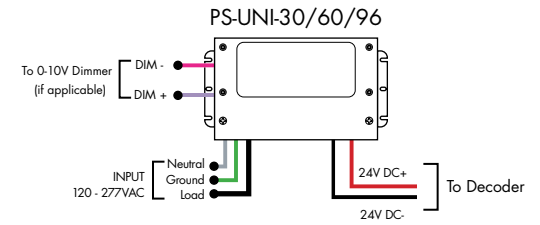
For use with RGB/RGBW

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



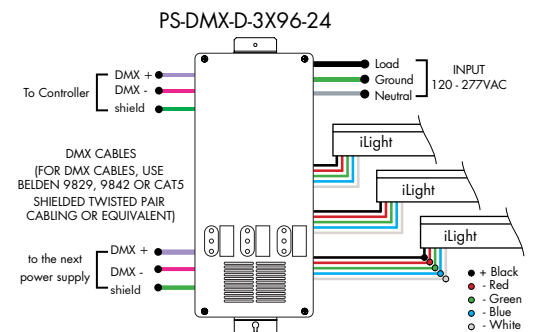
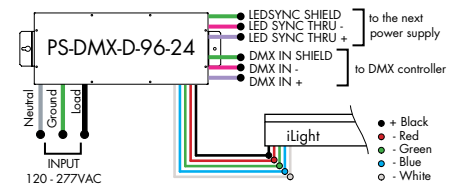
For use with RGB/RGBW

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

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

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



Plexineon Recessed Mount

RGB, RGBW and RGBW Pixel



Power Supplies

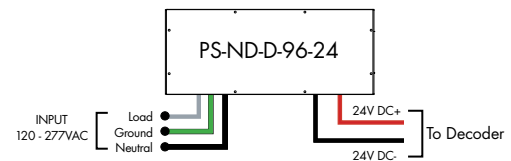
See fixture and power supply instructions & spec sheet for wiring information. Dimming possible in select models - view luminii website for list of compatible dimmers.

For use with RGB/RGBW/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

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

Plexineon Recessed Mount

RGB, RGBW and RGBW Pixel



Controllers and Decoders

For use with RGB/RGBW Power Supplies



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

Operating Temperature Range

from -4°F to +122°F in case

Power Capacity

up to 96W at 24V



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

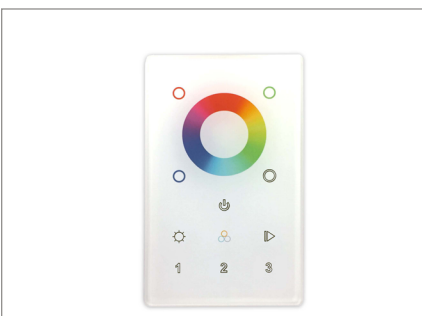
Wireless (RF)

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

Plexineon Recessed Mount

RGB, RGBW and RGBW Pixel

Controllers and Decoders

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

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

Plexineon Recessed Mount

RGB, RGBW and RGBW Pixel



Controllers and Decoders

For use with RGB/RGBW Power Supplies



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/WV 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

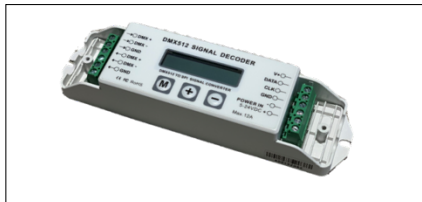
Power Supply

PI-130-24 (included)

Operating Temperature Range

from -4°F to +122°F in case

For use with Pixel Power Supplies



ORDERING CODE

MODEL

SR-DMX-SPI

SR-DMX-SPI - Smart Pixel Decoder

The SR-DMX-SPI is a smart LED pixel decoder that controls 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 are available for control of the LED functions.

*For pixel only.

Features

- 2 in 1 in-Wall Controller: DMX Control or Wireless RGB-W
- SPI signal output for RGB/RGBW pixel light control
- DMX512 controllable and RF/WIFI remote controllable
- Capable of addressing up to 1020 RGB pixels & 765 RGBW pixels
- OLED panel allows for easy configuration

Operating Voltage

12 - 36V DC

Power capacity

up to 96W at 24V

Operating temperature range

from -4°F to +122°F in case