FWC Wildlife Lighting
### Florida Wildlife Commission

#2018-023

ETL LISTED
Intertek

It is well established that traditional forms of artificial light can disrupt sea turtle hatching patterns and disorient hatchlings. Our **FWC (Florida Wildlife Commission)** certified luminaires feature carefully crafted 590nm LEDs that, when used in conjunction with proper shielding, can help create a safer space for sea turtles and other wildlife.
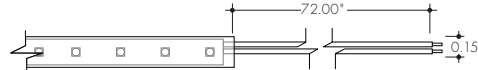
Product Image
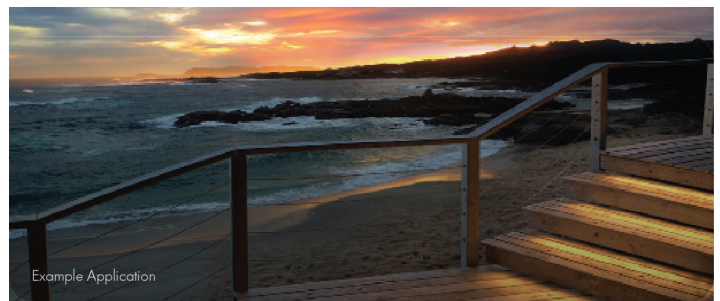
Example Application

RoHS

Features

IP68 rated for Wet Location

Approved for use in proximity to wildlife

72 lm/ft; 27 lm/Watt
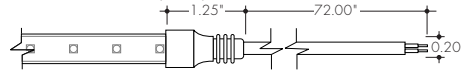
Carefully crafted 590nm LEDs

Suggested Applications

Handrail	Corner
Cove	Surface Mount
Recessed	

SECTION START/END OPTIONS

72" Soldered leads (SL65)
72.00"
0.15"

72" Soldered leads (SL68)
1.25" 72.00"
0.20"

No connector (NC)
IP65 model only
0.47"

Female quick connect end (F)
1.25" 4.00"
0.62"
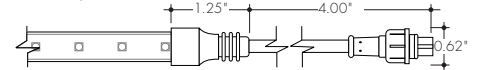
Male quick connect end (M)
1.25" 4.00"
0.62"
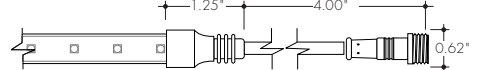
No connector (NC)
IP68 model only
0.38"
0.55"

Ordering code

MODEL	SECTION START	SECTION END	LENGTH
LL36-WL –	**SL65** –	**NC** –	
LL36-WL	SL65 - IP65 Soldered lead wires (72") SL68 - IP68 Soldered lead wires (72") F - Female connector M - Male connector NC - No connector	SL65 - IP65 Soldered lead wires (72") SL68 - IP68 Soldered lead wires (72") F - Female connector M - Male connector NC - No connector	view table on page 2 for increment options and maximum run limits

LineLED 36-WL | Wet Location Linear LED strip - 24 VDC

Technical information

Electrical

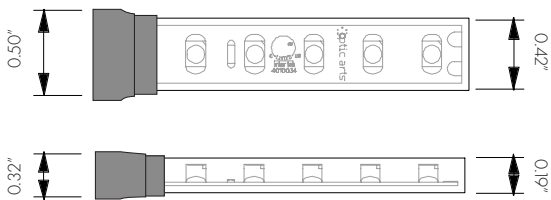|	
Input Voltage	24VDC
Power Consumption	3.0 Watts per foot (36 LEDs per foot)
Wire Size	18AWG, 2 wire
Certification	**ETL** - Conforms to UL Std. 2108; Certified to CSA Std. C22.2 No. 9.0. **FWC Wildlife Lighting (#2018-023) -** Approved for use in proximity to wildlife. **Class 2**

Physical

Ordering Increment	1.97" (50.00mm)
Operating Temperature	-40°F (-40° C) to +158°F (+70°C)
Environment	Wet Location
Maximum Run Length	32.00' (6096.00mm)
Dimensions	0.42" (10.55mm) x 0.19" (4.88mm) **Endcaps** - 0.50" (12.70mm) x 0.32" (7.94mm)

Lumen Output

Amber	72.00 lm/ft 27.00 lm/Watt

Note: Stated lumen values have a tolerance of +/- 10%.

Performance

CRI	50,000 Hours
Lumen Maintenance	590 nm
Warranty	3 Years

Dimensions

LL36-WL

Dimensions

Width	0.42" (10.55mm)
Height	0.19" (4.88mm)
Width (Endcap)	0.50" (12.70mm)
Height (Endcap)	0.32" (7.94mm)
Max Run Length	32.00' (6096.00mm)

*Encased in silicon

~0.23" Specified Length ~0.13"
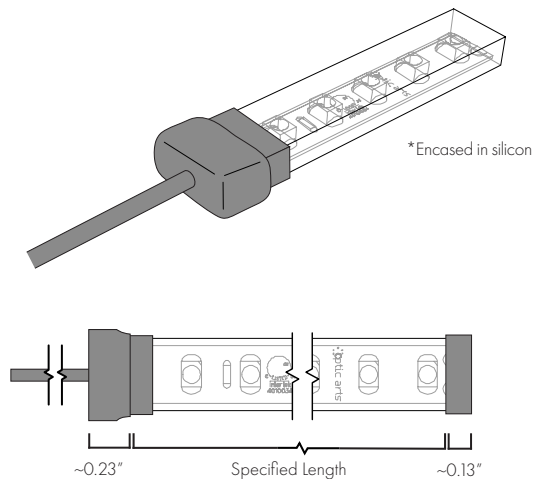
Accessories

LL.ZIP

Strain Relief Clip

0.37"
(9.50mm)

0.77"
(19.50mm)

0.19" (4.90mm)
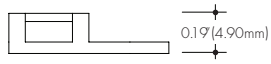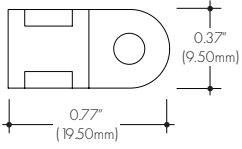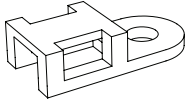
FLEXMNT-SIL-EXT12

Outdoor Mounting Clip

0.24"
(6.00mm)

1.24"
(28.00mm)

0.28"
(7.00mm)

0.55"
(14.00mm)

TM-30 - 1800K

Color vector graphics
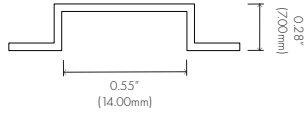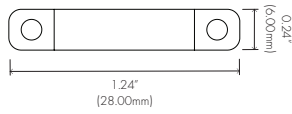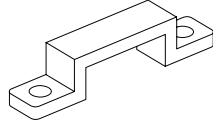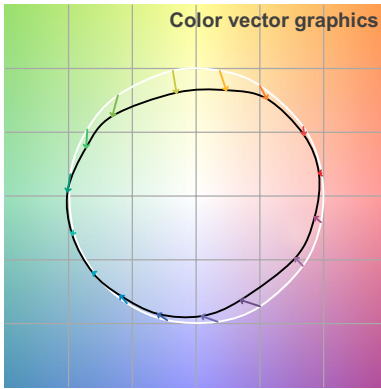
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	93	-2%	0%
2	87	-3%	-5%
3	77	-6%	-10%
4	80	-14%	-8%
5	86	-17%	1%
6	73	-11%	13%
7	77	-7%	12%
8	80	0%	14%
9	93	1%	3%
10	95	1%	-2%
11	87	-2%	-7%
12	85	-3%	-8%
13	82	-7%	-11%
14	83	-13%	-10%
15	87	-8%	2%
16	88	-6%	3%

TM-30 - 2350K

Color vector graphics
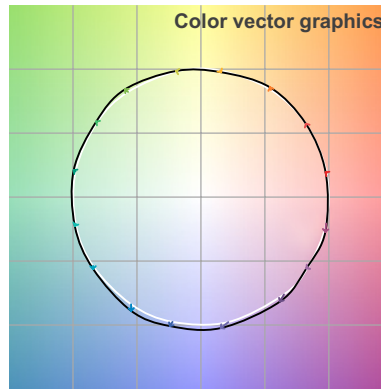
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	96	-1%	1%
2	97	0%	1%
3	94	1%	2%
4	95	-1%	-1%
5	95	0%	1%
6	94	3%	1%
7	95	1%	0%
8	97	2%	-1%
9	96	1%	2%
10	96	1%	2%
11	92	4%	3%
12	93	4%	-1%
13	91	3%	-7%
14	90	3%	-6%
15	95	0%	-2%
16	90	1%	-7%

TM-30 - 2750K

Color vector graphics
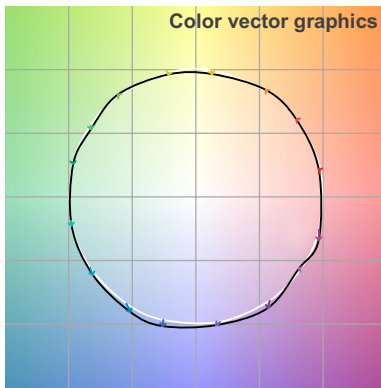
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	95	-1%	1%
2	97	0%	1%
3	95	0%	2%
4	93	-3%	-1%
5	95	-1%	1%
6	97	1%	0%
7	92	-2%	2%
8	98	0%	1%
9	93	0%	4%
10	90	1%	6%
11	89	4%	6%
12	91	5%	0%
13	94	2%	-3%
14	91	4%	-5%
15	94	-1%	-1%
16	88	1%	-8%

TM-30 - 2930K

Color vector graphics
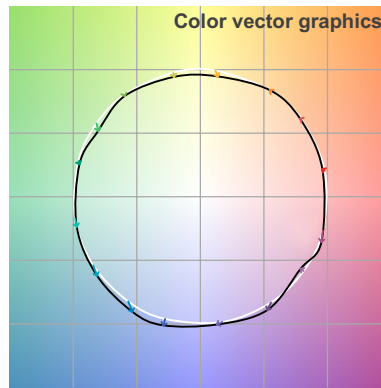
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	93	-2%	2%
2	95	0%	1%
3	95	0%	1%
4	91	-4%	-3%
5	94	-3%	0%
6	96	-1%	0%
7	89	-4%	4%
8	95	-1%	2%
9	89	0%	6%
10	86	2%	8%
11	87	5%	7%
12	90	5%	0%
13	93	1%	-5%
14	90	3%	-6%
15	91	-3%	0%
16	87	1%	-9%

TM-30 - 3550K

Color vector graphics
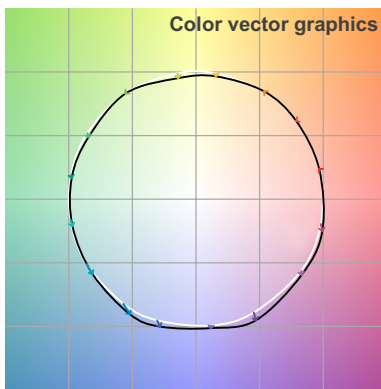
| Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	95	0%	1%
2	97	0%	0%
3	95	0%	1%
4	93	-2%	0%
5	91	-4%	0%
6	96	0%	1%
7	94	-3%	2%
8	95	-1%	2%
9	91	-1%	5%
10	86	0%	9%
11	85	4%	9%
12	89	4%	3%
13	96	2%	-1%
14	92	6%	-2%
15	91	2%	-2%
16	89	2%	-5%

Power Supplies

See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

0-10V Dimming Power Supplies 0.1% 120VAC - 277VAC

MODEL	POWER	OUTPUT	DIMMING
PS010V - 0-10V Power Supply dims down to 0.1%	96 - 96 Watt / 3X96 - 3 X 96 Watt	24 - 24 VDC	LIN - Linear / LOG - Logarithmic

MODELS	96W	3X96
Length	14.40"	13.00"
Width	5.20"	6.62"
Depth	2.60"	4.20"
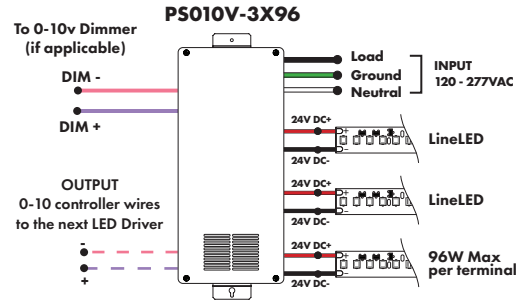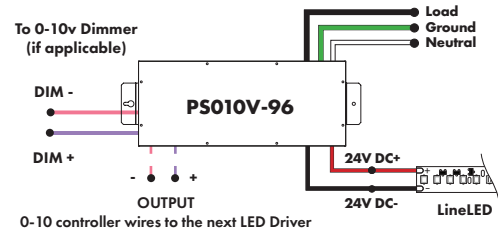
DALI 0% Dimming Power Supplies 120VAC - 277VAC

MODEL	POWER	OUTPUT
PSDALI - DALI Power Supply dims down to 0%	96 - 96 Watt / 3X96 - 3 X 96 Watt	24 - 24 VDC

Features eldoLED's LINEARdrive configurable dimmable drivers

Model	96W	3X96
Length	14.40"	13.00"
Width	5.20"	6.62"
Depth	2.60"	4.20"
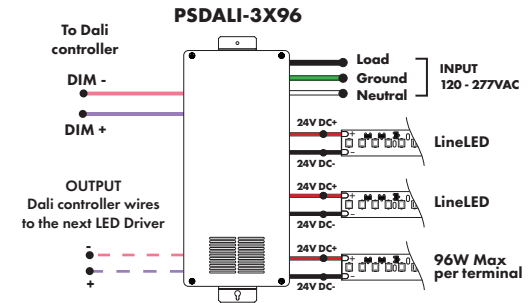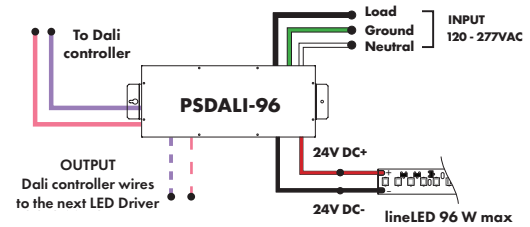
Universal Power Supply 1% 120VAC - 277VAC

MODEL	POWER	OUTPUT
PDCU-D - IP20 Dry Series	30 - 30 W / 60 - 60 W / 96 - 96 W / 3X96 - 3X96 W	24 - 24 VDC
PDCU-W - IP66 Wet Series	96 - 96 W / 3X96 - 3X96 W	

0-10V dims down to 1%, MLV/ELV/TRIAC dims down to 1%.
For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.
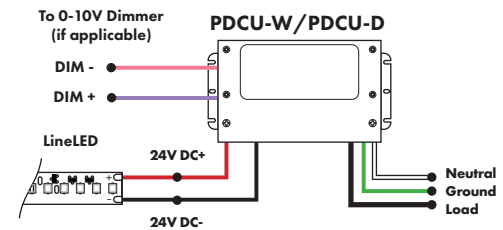
MODEL	PDCU-W-96W	PDCU-W-3X96W	PDCU-D-30W	PDCU-D-60W	PDCU-D-96W	PDCU-D-3X96W
Length	8.66"	11.85"	6.10"	7.93"	8.25"	9.57"
Width	3.73"	4.32"	3.35"	3.35"	4.10"	5.94"
Depth	1.61"	1.81"	1.33	1.32"	1.56"	1.13"

Power Supplies

See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

Customizable Dim to Warm or Variable White via 0 - 10V
(for tunable white or warm dimming control of Dynamic option)

MODEL	POWER	OUTPUT	CONTROL
PS010VD - 0-10V Vintage Dim LED Driver	96 - 96 Watt	24 - 24 VDC	W2I - Standard dimming for both tapes

*Zonal control power supplies

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

Input
0-10V controller wires
+ −

Input
120-227V AC
Load
Ground
Neutral

PS010VD-96-24-

OUTPUT
0-10V controller wires
to the next LED Driver
− +
− +

Non-Dimming Power Supply 120VAC - 277VAC

MODEL	POWER	OUTPUT	DIMMING	LOCATION
PSV - PSV Series	96 - 96 Watt	24 - 24 VDC	ND - Non Dimming	D - Damp

MODELS	96W
Length	8.25"
Width	3.75"
Depth	1.63"

PSV-96-24-ND-D

INPUT
120 - 277VAC
Neutral
Ground
Load

To on/off Switch

96 W max
24V DC+
24V DC-

Enlighted Enabled Dimming Power Supplies 120VAC - 277VAC

MODEL	POWER	OUTPUT	DIMMING	LOCATION
PSV - PSV Series	96 - 96 Watt	24 - 24 VDC	ENL - Enlighted Dimming dims down to 0%	D - Damp

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

Load
Ground
Neutral

PSV-96-24-ENL-D

Enlighted
Sensor Unit

24V DC+
24V DC-
lineLED 96 W max
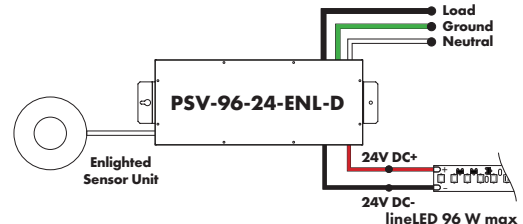
Triac, MLV, ELV Compatible Dimmers

MODEL	POWER	OUTPUT
PDC - (IP20) Power Supply	96 - 96 Watts	24 - 24 VDC

MODELS	96W
Length	8.25"
Width	4.10"
Depth	1.56"
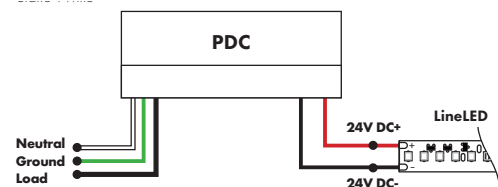
PDC

Neutral
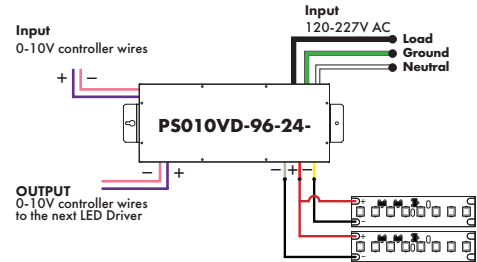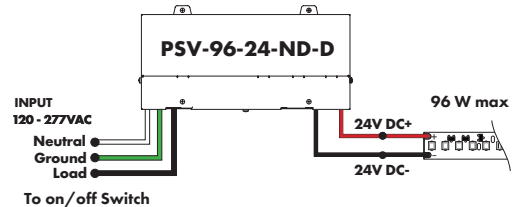Ground
Load

24V DC+
24V DC-
LineLED

Power Supplies

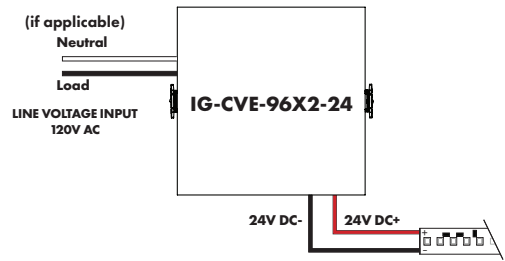See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

In-Ground Power Supplies

MODEL		POWER	OUTPUT	INPUT

IG - In ground CVE Series	CVE - ELV Dimming DALI - eldoLED Dali dimming Both dims down to 0%	96X2 - 2 X 96 Watt	24 - 24 VDC	Blank - 120 V 277 - 240/277 V

MODEL	Dual Circuit
Length	8.40"
Width	8.30"
Depth	8.10"

(if applicable)
Neutral
Load
LINE VOLTAGE INPUT 120V AC

IG-CVE-96X2-24
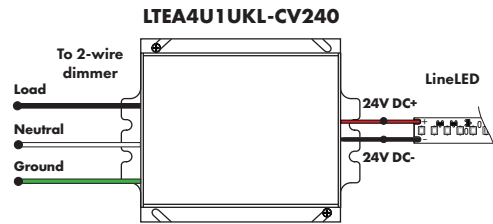
24V DC-   24V DC+

LUTRON

Luminii is a Lutron OEM Advantage Partner   **Lutron Power Supplies 1%**

MODEL
LTEA4U1UKL-CV240

Lutron - Hi-lume™ 1% 2-wire LED Driver 40W max

(120V forward phase only)

MODEL	LTEA41UKL-CV240
Length	4.89"
Width	4.00"
Depth	2.62"

LTEA4U1UKL-CV240

To 2-wire dimmer
Load
Neutral
Ground
LineLED
24V DC+
24V DC-

DMX Dimming Power Supplies 120VAC - 277VAC

MODEL	POWER	OUTPUT

PSDMX - DMX Power Supply dims down to 0%	96 - 96 Watt 3X96 - 3 X 96 Watt	24 - 24 VDC

Features eldoLED's LINEARdrive configurable dimmable drivers

*Zonal control power supplies. Control multiple tapes/zones using DMX channels.

MODEL	96W	3X96
Length	14.40"	13.00"
Width	5.20"	6.60"
Depth	2.60"	4.20"

Load
Ground
Neutral
INPUT 120 - 277VAC

To Controller
D-
D+
GND

PSDMX-96

DMX cables
(For DMX cable, use Belden 9829, 9842 or CAT5 shielded twisted pair cabling or equivalent)

+ R G B W

to the next LED Driver

lineLED

PSDMX-3X96

To Controller
GND
D+
D-

Load
Ground
Neutral
INPUT 120 - 277VAC

DMX cables
(For DMX cable, use Belden 9829, 9842 or CAT5 shielded twisted pair cabling or equivalent)

R
G
B
W

to the next LED Driver

96 W max per terminal block

PER TERMINAL BLOCK

Decoders

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.

MODEL

DDMX-5CH-RDM-PRO

DDMX-5CH-RDM-PRO- DMX512 Decoder

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

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 (Luminii part# RGBW-SR).

MODEL

DDMX-RGBW

DDMX-RGBW - DMX512 Decoder

Operating Voltage
12-36 VDC

Power Capacity
up to 96W at 24V

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

PWM Output Frequency
200Hz or 1500Hz

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.

MODEL

RGBW-RC-R

RGBW-RC-R - RGBW receiver

Operating Voltage
12-36 VDC

Power Capacity
up to 96W at 24V

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

optic arts
by luminii

Decoders

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

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

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