

OPTOPLASMA

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CATALOG

2018





🏠 A REVOLUTIONARY PRODUCT

🏠 SLIMMER THAN MASTER CARD

🏠 AN ICONIC INNOVATION

🏠 FUTURE OF LIGHTING 2.0



🏠 ELLEGANT OPTO PLASMA





KENSON SOLACE

LINEAR ACCENT LIGHTING

WIDE FORMAT BACKLIGHTING

SAFETY
EGRESS
SYSTEMS

BRANDING

EXTERIOR
ACCENT
LIGHTING

BACKLIGHTING
SURFACES

BILLBOARD

TRANSIT



About Opto Plasma Strip

A glowing light source that bends around any surface, for up to 45 meters indoors and up to 30 meters outdoors. Opto Plasma Strip is the longest, thinnest, brightest and most durable plasma light in the world. No other lighting will do for you what our Opto Plasma Strip does. Opto Plasma Strip is as thin as your master card, elegant and cool to touch, and power consumption is to a fraction of what LED, neon or florescent lighting systems cost to operate and maintain.

Opto Plasma Strip is a perfect fit for any application

Opto Plasma Strip is infinitely versatile. Size and color can be customized to fit your application. Available in rolls for easy storage, Opto Plasma Strip is manufactured in lengths up to 45 meters and in widths between 6.35 mm to 60 cm, and larger areas can be covered without a seam or break in light.

Imagine the possibilities, as Opto Plasma Strip allows so many options for design freedom

- Consumes power upto $1/10^{\text{th}}$ - $1/20^{\text{th}}$ of LED
- Thinner than a master card.
- Cool to touch.
- Even illumination over large surfaces or distances with one connection.
- A form factor like no other light.
- Extremely energy efficient
- Ingress Protection upto IP 67

Interior Accent Lighting

- Flexible form factor for lighting curves and in tight spaces.
- Perfect companion to illuminate trip hazards and steps.
- Great for route marking and way finding.
- Smooth dimming 0 – 100% with adjustable knob/DMX/0-10V

Backlighting

- Even illumination – place your material directly on Opto Plasma Strip, no more bulky light boxes to diffuse light and eliminate hot spots.
- Elegantly light your masterpiece without blinding your patrons.
- No heat, perfect for bar tops or any surface.
- Place Opto Plasma panels side by side to seamlessly illuminate any large surface area.

Exterior Accent Lighting

- Long continuous runs with just one connection, make electrical wiring easy. This really helps with power location and especially in existing spaces where electrical drops are limited.
- System delivered in rolls, manufactured to length and easy to install, snaps into place.
- IP67 rated - Tested to withstand high heat and cool temperatures utilizing UV stable materials made from Honeywell, DuPont and Bayer.
- Tile Opto Plasma Strip panels to seamlessly illuminate any surface area.
- Draw attention without contributing to light pollution.

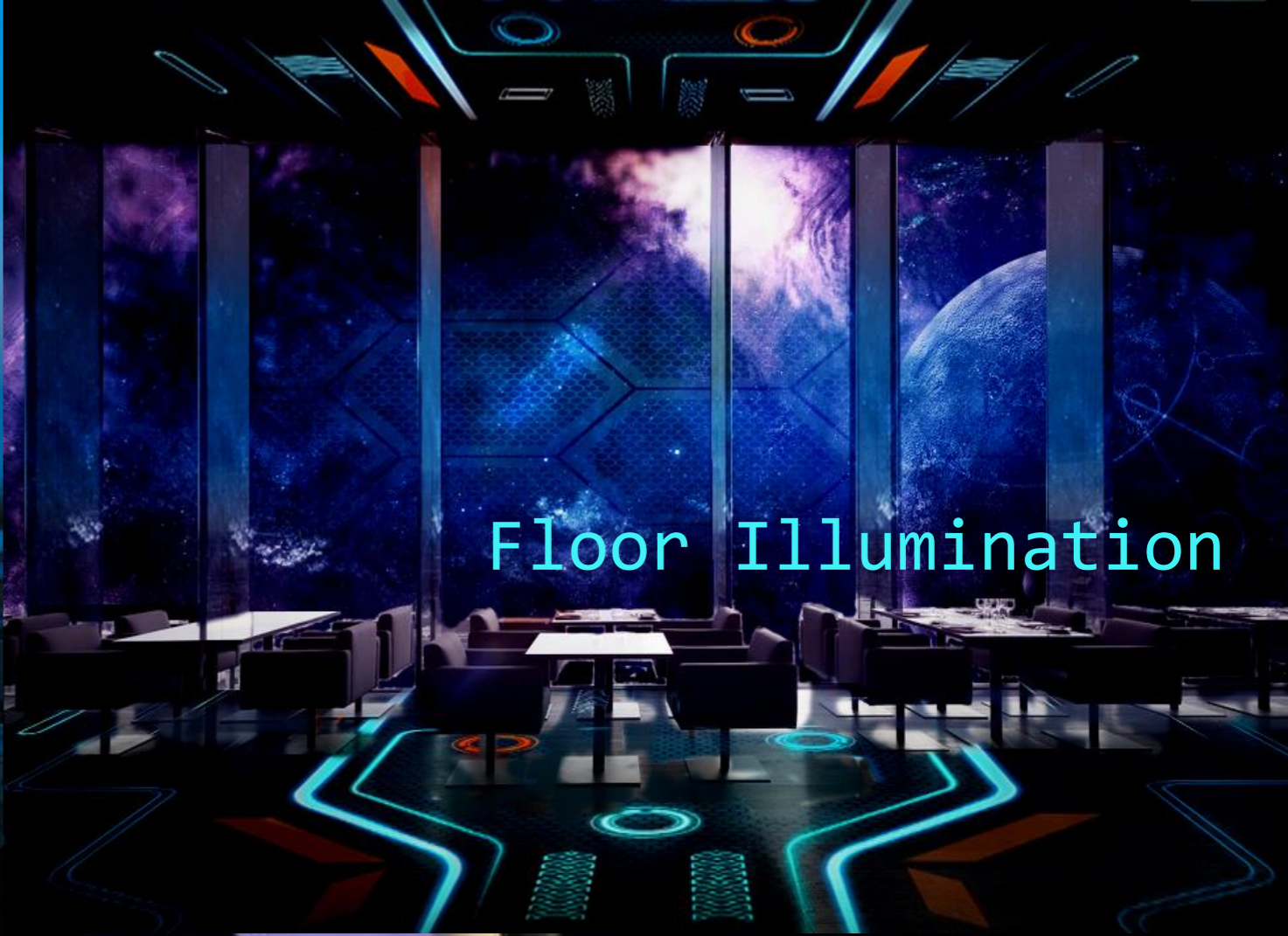
Opto Plasma Strip Shapes

- We can cut the Opto Plasma Strip to fit your design. Surfaces with holes are no problem.
- Follow curved surfaces or non-symmetrical spaces.
- Great for backlighting corporate logos or icons.

Façade lighting



Floor Illumination



Exterior Designs



Creative works



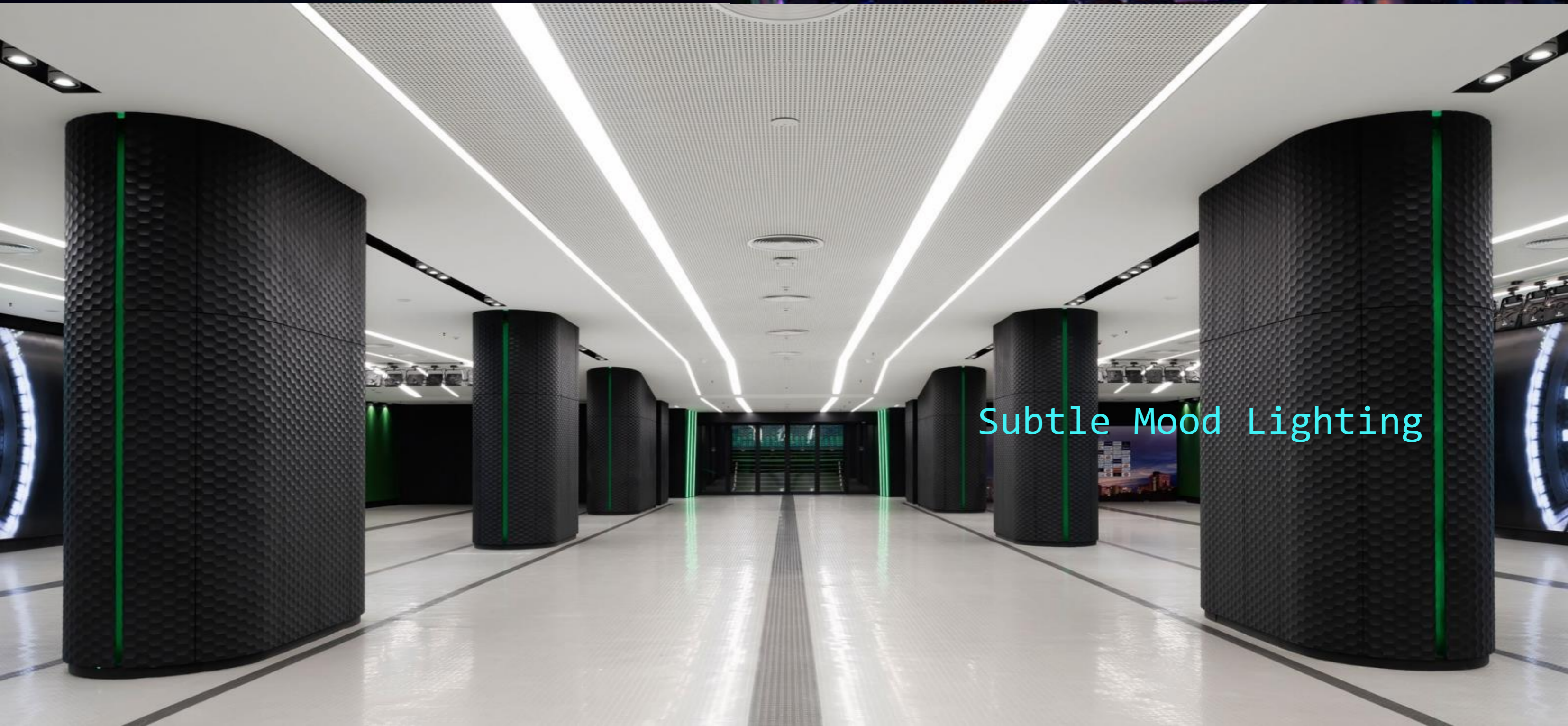
Accent Lighting



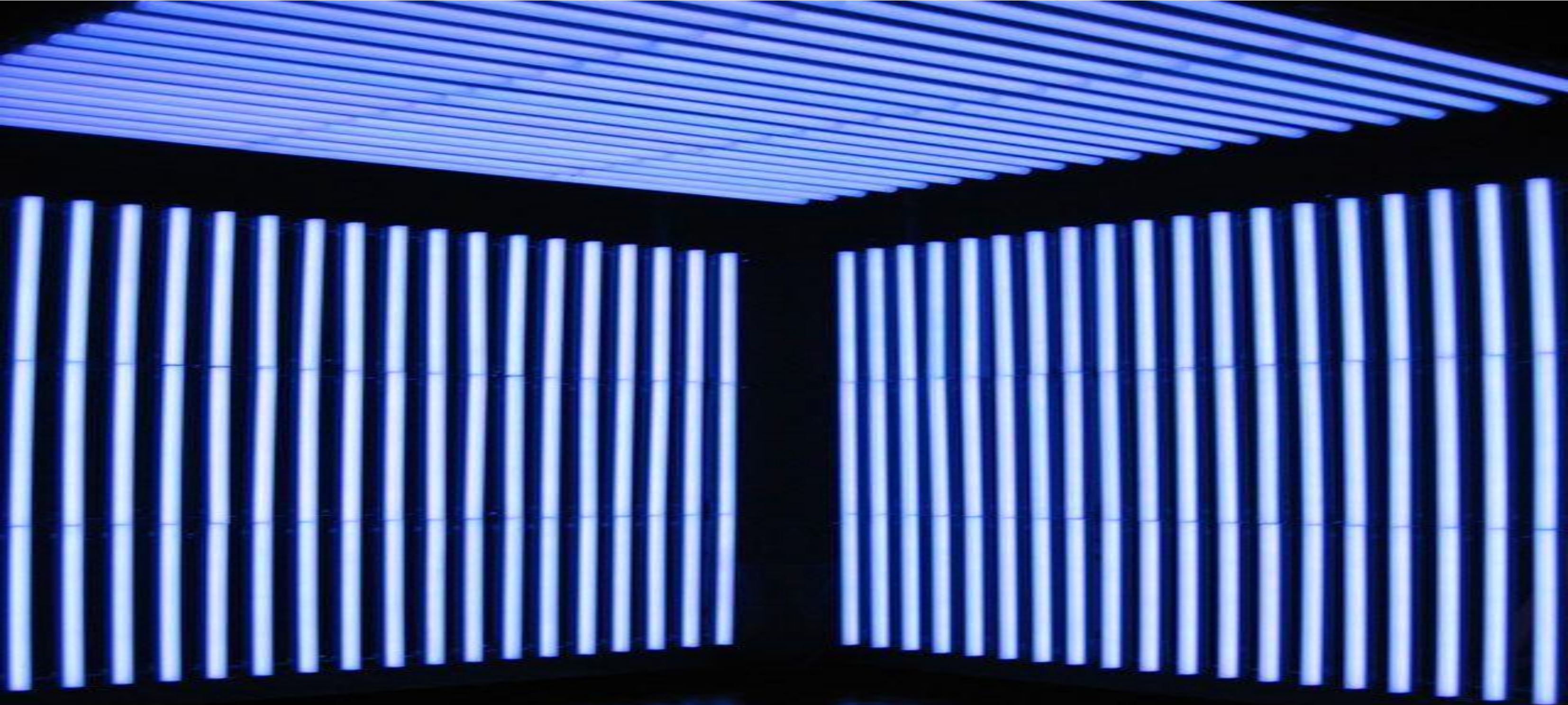
Urban Scapes



Subtle Mood Lighting



TECHNICAL SPECIFICATIONS	OPTO PLASMA STRIP
Application	FAÇADE ILLUMINATION / ACCENT LIGHTING / BACKLIGHTING / FLOOR ILLUMINATION / SIGNAGE / DÉCOR
Type of Luminaire	LIGHT EMITTING PLASMA EXCITED IN FREE-SPACE OUTPUT & OUTPUT COUPLED TO LIQUID LIGHT GUIDE
Class of Luminaire	CLASS II
Material of construction	Encapsulated in Aclar thermoformable clear flexible Laminate with moisture barrier, self extinguishing, non corrosive, anti flammable sheild, anti graffiti protection & Solvent resistant.
Finish	CLEAR BARRIER ENCAPSULATION
Thickness (varies depending on color)	0.254 to 0.305 millimeters
Protective Encapsulation Seal	6.35mm on each side (+/-0.159 cm)
Opto Plasma Illumination Width	0.625 to 76.2 cm for Standard range
Current Consumption	0.3-0.9 milliamps per square inch depending on working hours
Power Consumption	Average of 0.25 watts per linear meter for 6.35 mm width based on 100 % brightness setting
Opto Plasma strip Average Power Consmption	0.0035 watts per cm2
Opto Plasma SHEET Watts per Square Meter	16 to 50 watts based on low to full brightness setting
Operating voltage	90 to 260 Volts AC
Phase Angle	78° Leading Edge
Opto Plasma Operating Frequency	800 Hertz, +/- 35% (depending on tuning)
DC Driver Input Voltage Range	3 to 24 volts DC (12 Volts DC standard)
Burning Hours	80,000 hours *
Useful Life - Years	up to 20 years (dependent on drive parameters)
Average Brightness	125 cd/m2
Brightness Range	0 to 200 cd/m2
Operating Temperature - Ambient	-30°C +50°C
Heat Gain During Operation	Does not produce heat during operation
Compressive Strength - Ground Pressure	500 psi or more depending on mounting system
Impact Strength - Izod (73F)	6.5 ft-lbs/in2
Bending Diameter	6 MM diameter object
Punctureable	Yes, will illuminate after puncturing
Safety Features	Overload and short circuit protection. UL listed.
Certifications	UL, EN 319670, & CE
Environmental Compliance	ROHS and WEEE Directive
EMC Emissions Compliant	EN55015 Radiated and Conducted Emission
Flame Resistance	UL 94VTM-0
International Protection Marking	IP67
Power source to driver	AC or DC input to Freuqncy attenuator Power Supply
Driver for Opto plasma	VARIABLE FREQUENCY ATTENUATOR CONTINUOUSLY TUNES OUTPUT INTENSITY
IP Protection for Driver	> = IP 20, requires ventilation
Colours	Natural Blue, Sky White, Turquoise Green, Ocean Blue, Ice white, Dark Blue, Purple, Orange, Elegant Yellow, Virant red, Violet, Parrot Green
Control Modes	Blink, 0 - 10 V dimming, Smooth dimming 0 - 100%, DMX compatible



Accent Lighting



Backlit



Bridge lighting

WIDTH OF THE OPTO PLASMA STRIP	OVERALL WIDTH WITH ACLAR LAMINATE
6.35 MM	19.05 MM
12.7 MM	25.4 MM
25.4 MM	38.1 MM
38 MM	5.07 CM
5.08 CM	6.35 CM
7.62 CM	8.89 CM
10.16 CM	11.43 CM
15.24 CM	16.51 CM
30.48 CM	31.75 CM
45.72 CM	46.99 CM
60.96 CM	62.23 CM
76.2 CM	77.47 CM

* Life expectancy based on Driver Mode A, refer Driver datasheet for details. For more information, contact our marketing team.

TECHNICAL SPECIFICATIONS	VARIABLE FREQUENCY ATTENUATOR FOR OPTOPLASMA
Class of equipment	CLASS II
Rated Input Voltage	110/220VAC
Phase Angle	78° Leading Edge
Opto Plasma Operating Frequency	800 Hertz, +/- 35% (depending on tuning)
DC Driver Input Voltage Range	3 to 24 volts DC (12 Volts DC standard)
Operating Temperature - Ambient	-30°C +50°C
Safety Features	Overload and short circuit protection.
Confirms to	CE, UL and CSA compliant
Power source to driver	AC or DC input to Frequency attenuator Power Supply
Driver for Opto plasma	VARIABLE FREQUENCY ATTENUATOR CONTINUOUSLY TUNES OUTPUT INTENSITY
IP Protection for Driver	> = IP 2X, Convection Air Cooled
Control Modes	(A) DMX, (B) Blink, (C) Smooth dimming 0 - 100%, (D) 0 - 10 V dimming,

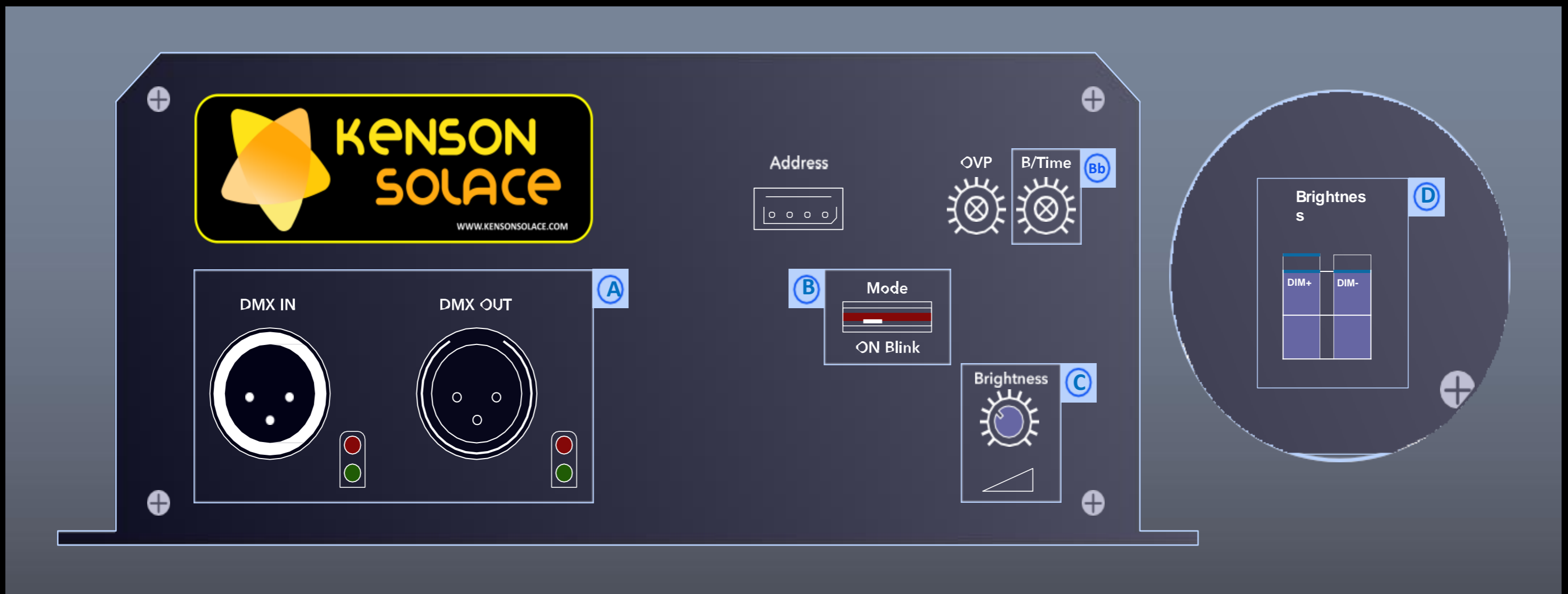
Façade lighting



OUTDOOR FLOOR LIGHTING



Opto Plasma Frequency Attenuator Supply Features



Features

MODE A, DMX : This mode allows complete controllability via integration to Lighting consoles through DMX 512 port.

MODE B, BLINK : This mode allows pulse switching control (ON/OFF)

MODE C, DIMMER : Inbuilt dimmer knob with smooth dimming from 0 to 100%

MODE D, ANALOG DIMMING : This mode allows smooth control with external 0 – 10 V

Model	DMX	Blink Mode	Brightness Control	0-10 Dimming
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BC - 25/51 K		X	X	
CD <1.3 K			X	X
ABCD 12/25 K	X	X	X	X
ABCD 6/12 K	X	X	X	X
ABCD 2.5/6 K	X	X	X	X
ABCD <1.3 K	X	X	X	X
C 6/12 K			X	
C 2.5/6 K			X	
C 1.3/2.5 K			X	
C <1.3 K			X	

DETAILS OF AC DRIVER

Rating	Range	Input Parameters		Output Parameters
		Amps	Watts	Max. Current, AMPS
BC - 25/51 K	25,806 - 51,612 cm ²	3.5	420	3.8
C 12/25 K	12,903 - 25,806 cm ²	3.5	420	3.8
ABCD 12/25 K	12,903 - 25,806 cm ²	1.7	204	2
ABCD 6/12 K	6451.6 - 12903.2cm ²	1	110	1.2
ABCD 2.5/6 K	2580 - 6451 cm ²	0.9	97	0.32
ABCD <1.3 K	6.5 - 1290 cm ²	0.5	12	0.022
CD <1.3 K	6.5 - 1290 cm ²	0.5	12	0.022
C 6/12 K	6451 - 12,903 cm ²	2.8	68	0.91
C 2.5/6 K	2580 - 6451 cm ²	0.9	97	0.32
C 1.3/2.5 K	1290 - 2580 cm ²	0.7	17	0.11
C <1.3 K	6.5 - 1290 cm ²	0.5	12	0.022



BACKLIT SIGNAGES



BACKLIT COUNTER TOP

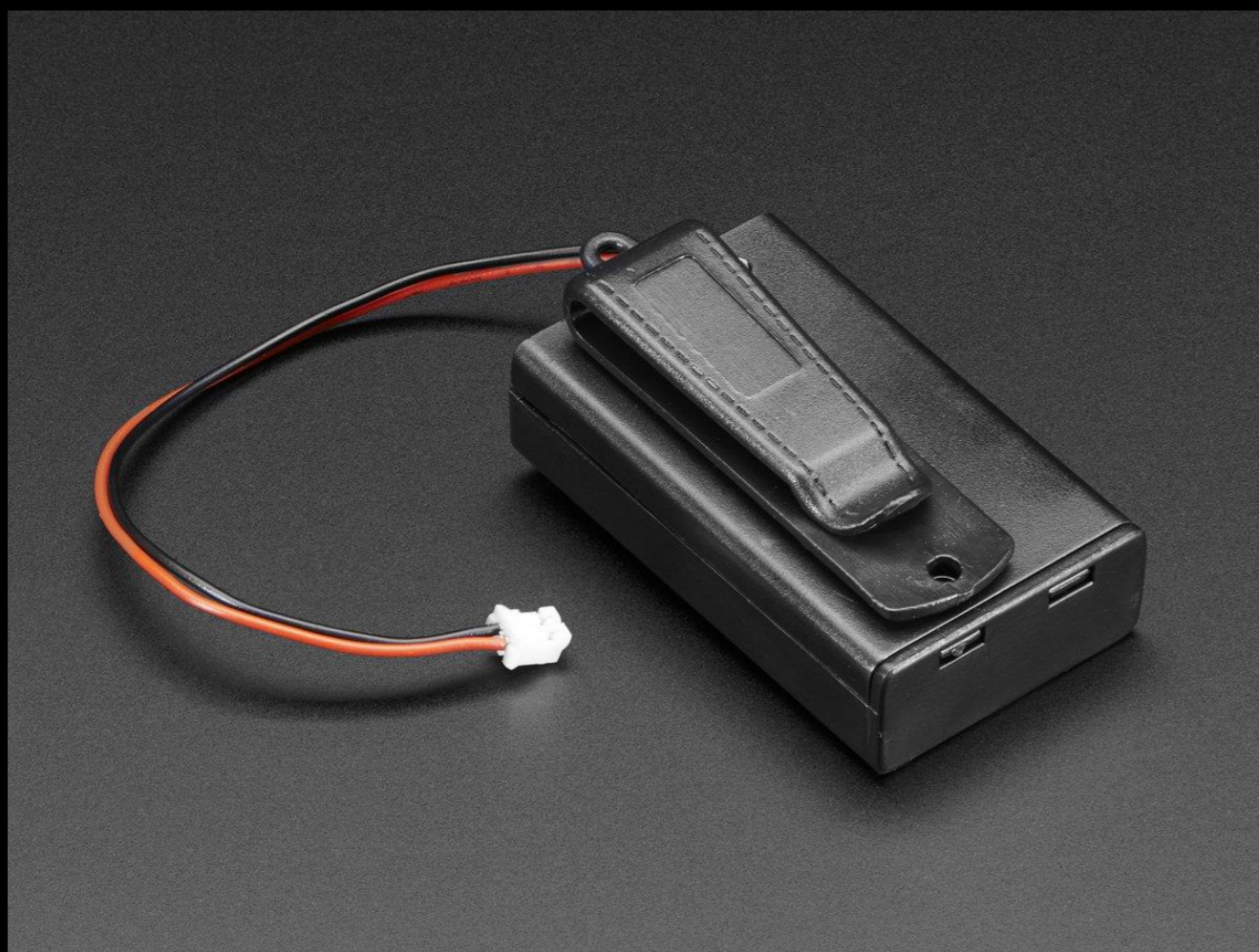


AC Power Supply



- Quiet
- Stylish compact design
- Rated input voltage 110 / 220 VAC
- Protection Class 1
- IP Degree 2x
- Worldwide voltage capacity
- Blink and Dimmer Switch
- Visual LED system status indicator
- Lightweight
- Short circuit and overload protection CE,
- UL y CSA compliant
- 0-10 dimming
- DMX 512 compatible

DC Power Supply



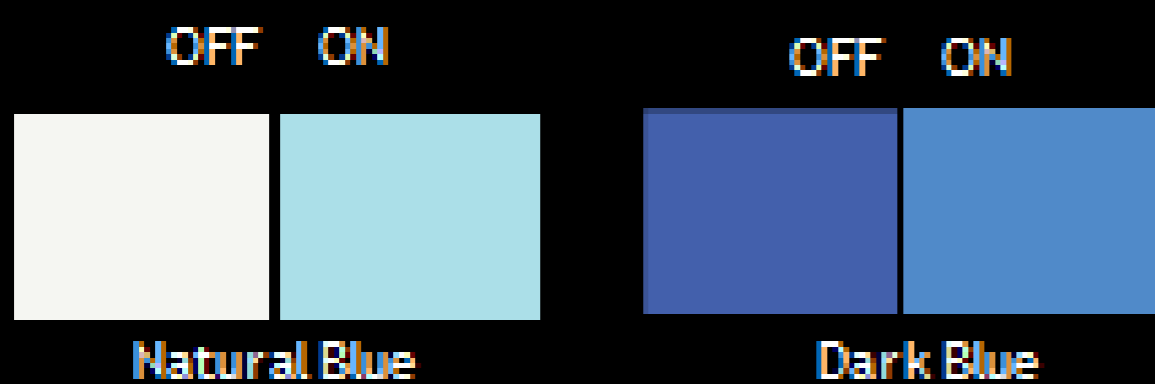
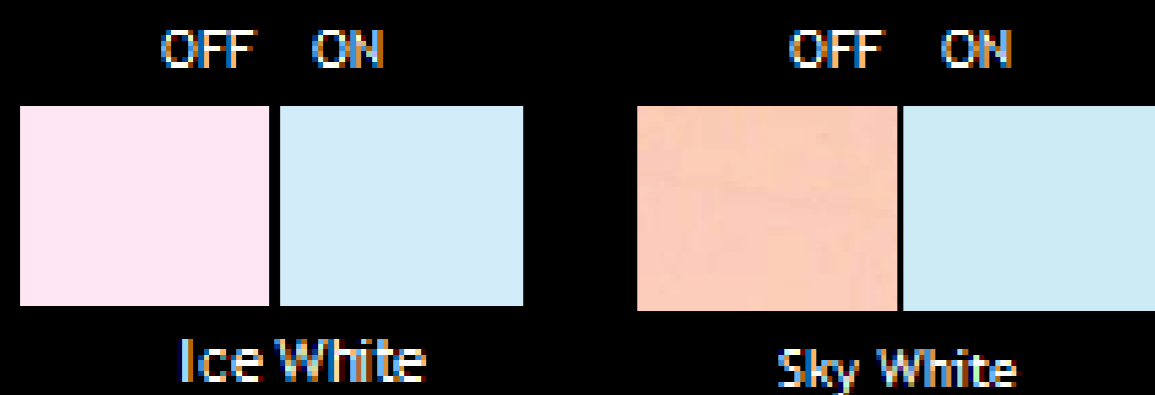
- Mountable/portable
- Compact in size
- Temperature Range: - 30°C to 85°C
- Accepts variety of input voltages
- High Efficiency
- Reverse Polarity protection
- Noload protection
- Short circuiting protection
- Self compensating
- Quiet
- Small formfactor
- CE compliant
- 12V, 24V inputs available

DETAILS OF DC DRIVER					
Temperature Range: (-30°C to 85°C), CE compliant, Short circuit, no load & Reverse Polarity protection					
	Range	Inputs			Output
Rating	Metric	Volts	Amps	Watts	Current
DC 12.9K	7741.92 - 12903.2 cm ²	12v	6	72	8752 mA
DC 7.7K	5161.28 - 7741.92 cm ²	12v	3.6	45	6564 mA
DC 5.1K	3225.8 - 5161.28 cm ²	12v	2.5	30	3282 mA
DC 3.2K	967.74 - 3,225.8 cm ²	12v	1.5	18	2188 mA
DC 1.9K	1612-1935 cm ²	12v	0.9	10.8	1312 mA
DC 1.0K	516.12 - 967.74 cm ²	12v	0.5	6	656 mA
DC 0.5K	290.32 - 516.12 cm ²	12v	0.4	5	438 mA
DC 0.3K	116.12 - 290.32 cm ²	12v	0.16	2	219 mA
DC 0.1K	6.45 - 116.12 cm ²	12v	0.8	1	88 mA
BATTERY 0.2K	6.45 - 212.9 cm ²	9v	0.2	2	144 mA

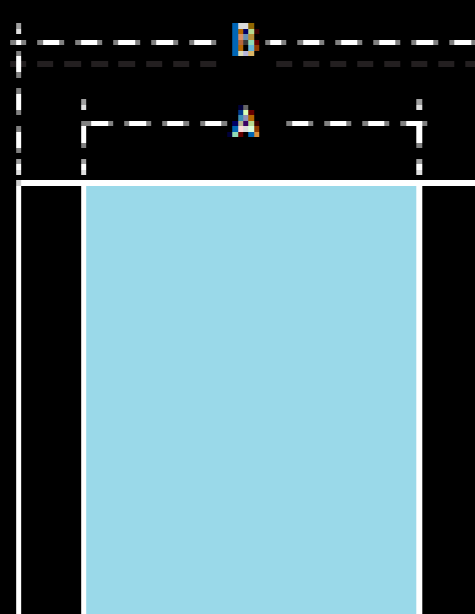
Color Options

Our base colors are Classic Natural Blue and Extreme Blue-Green. These colors appear white when off and colored when illuminated. We then add a filter to produce specific color options. All other colors will remain that color when not illuminated.

Classic Series

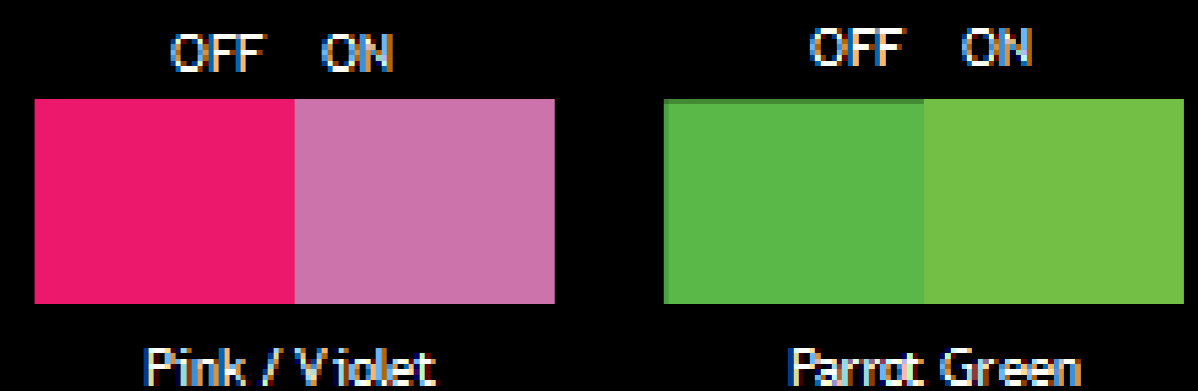
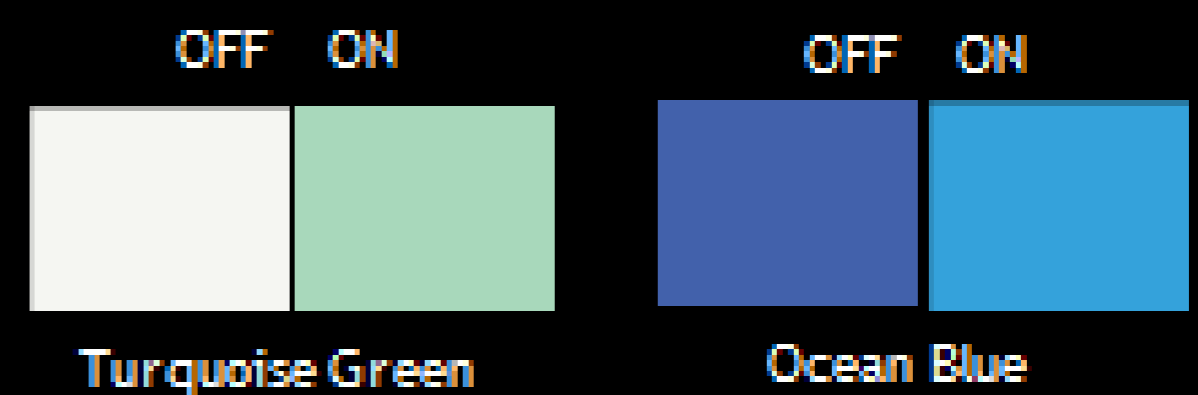


A	B	Inches
6.35mm	19.05mm	0.25



A=Illuminated width
B=Laminated width

Extreme Series



* The colors in this table are simulated and the final product may vary. If an exact color is required, we recommend seeing a physical sample. Custom colors and widths are available, but may be subject to minimum order quantities, set-up fees, and approval testing.



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