GlowbackLED®

Made in Miami

CUSTOM PANEL
Product Specifications

Customization
Built to any shape or size up to 96" x 48" our LED Panels are a **turn-key** solution, creating a remarkable high-end look and feel available with unrivaled available colors and configuration options!

Ultra Slim Back-Lighting
Thicknesses ranging from 5/16" to 5/8" allowing one to achieve completely even lighting with very little clearance.

Project Support
We're proud to offer industry leading project support. Our team partners with you to design and achieve the optimal result!

Build Quality
Unlike the others, our LED Panels are built right here in our Miami, FL facility using the highest LED's and components available for an extremely reliable and long lasting solution.

UL-Listing
Comfortably specify our LED Panels on any commercial project, all of our LED Panels are UL-listed for use in the United States or Canada (cUL Listed)
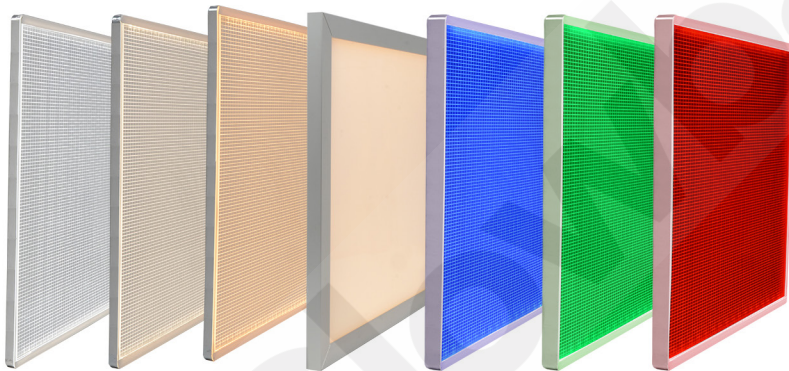
Custom LED Panels | *The Ultimate Back-lighting Solution*

Custom built to your specs (any shape or size up to 96" x 48"*), our LED Panels are engineered to produce perfectly even and consistently bright lighting across its entire surface, making them the ultimate back-lighting solution! Use our LED Panels to back-light any translucent material, such as stone, stained glass, frosted glass, artwork, and more! Offering unmatched Project Support, our team is able to specify the **best LED Panel system** to meet you lighting needs!

*Use multiple LED Panels to back-light larger areas

Applications

- Stone: Counter-Tops, Back-Splashes, Wall Features, Etc Onyx, Agate, Crystallo, Quartz, Quartzite, and More!
- Stained Glass
- Frosted Glass
- Translucent Artwork
- Retail Displays
- Diffused Light Surfaces

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Product Overview

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Product Specifications

Frameless White LED Panels

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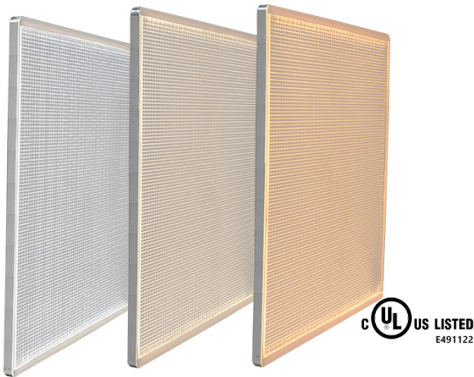
Available Color Temperatures

3000K	4000K	6000K
Warm White	Natural White	Bright White

If you're back-lighting stone, we recommend choosing **6000K** (Bright White) as it reveals the most inherent colors and veining of natural stone. If the stone is mostly white and lacks much veining, a warmer color temperature can be chosen. Custom colors available by request! (Order Samples to test)

Thickness	5/16" (0.3125")
Sizes	Any size up to 96" x 48"
Shapes	Can be made to any shape
Input Voltage	12 or 24VDC
Power	3 - 5 Watts/ft Per Lit Edge
Lumen Values	5,000 LUX (Average, see table)
Color Rendering	>90
LED's	Premium **Nichia** LED's
Dimming	Dimmable w Dimmable Power Supplies
Power-Feed	8ft (96") Standard with Connector
Lifetime	70,000+ Hours
Listings	Suitable for Dry or Damp Locations
Warranty	5-Year Limited Warranty

Frameless RGB LED Panels

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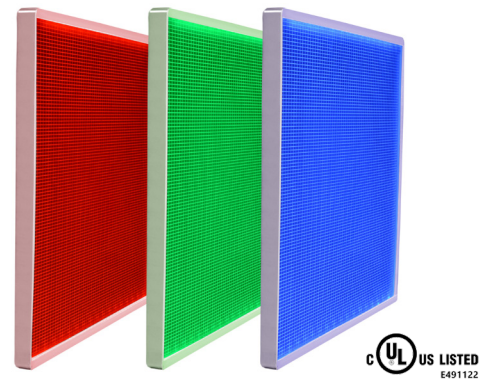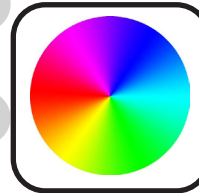|	
Thickness	5/8" (0.625")
Sizes	Any size up to 96" x 48"
Shapes	Can be made to any shape
Input Voltage	24VDC
Power	6 Watts/ft Per Lit Edge
Lumen Values	~1,000 LUX (RGB mixed) Avg
Color Rendering	NA
LED's	Premium **Nichia** LED's
Controls	RF Remote, DMX, Wi-Fi, More!
Power-Feed	8ft (96") Standard with Connector
Lifetime	70,000+ Hours
Enviornment	Suitable for Dry or Damp Locations
Warranty	5-Year Limited Warranty

Color Mixing

Choose from millions of hues of different colors using a controller. Controllers are generally available in either a wireless (**RF** and/or **W-Fi**) or wired control configuration (**DMX**). Our RGB Panel systems can also be integrated into any home or building automation system when the correct controllers and components are selected.

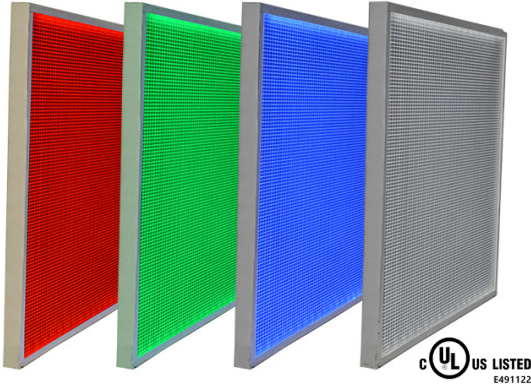**BLUEGATE**

Product Overview

GlowbackLED®

CUSTOM PANEL
Product Specifications

Frameless RGB+W LED Panels
A **Glowback**LED® *Exclusive!*

Can be controlled using RF Remotes, Wi-Fi apps, or DMX (wired) controllers. Integrate into home or building automation systems

Choose from millions of different colors OR a 6500K, true white, which is exceptionally well suited for stone applications. The Color Changing RGB lighting can be used in contrast with the more sophisticated and modern true white lighting to match the mood of the space.

Thickness	5/8" (0.625")
Sizes	Any size up to 96" x 48"
Shapes	Can be made to any shape
Input Voltage	24VDC
Power	7 Watts/ft Per Lit Edge
Lumen Values	~1,500 LUX (6500K Chanell) Avg
Color Rendering	>90
LED's	Premium **3535**(RGB) + **2835**(6500K)
Controls	RF Remote, DMX, Wi-Fi, More!
Power-Feed	8ft (96") 5-Conductor (Has Connector)
Lifetime	70,000+ Hours
Enviornment	Suitable for Dry or Damp Locations
Warranty	5-Year Limited Warranty

Tunable White LED Panels

Thickness	5/8" (0.625")
Sizes	Any size up to 96" x 48"
Shapes	Can be made to any shape
Input Voltage	24VDC
Power	5 Watts/ft Per Lit Edge
Lumen Values	~2,000 LUX (per color temperature)
Color Rendering	>90
LED's	Premium **3528** LED's
Controls	RF Remote, DMX, Wi-Fi, More!
Power-Feed	8ft (96") 3-Conductor (no connector)
Lifetime	70,000+ Hours
Enviornment	Suitable for Dry or Damp Locations
Warranty	5-Year Limited Warranty

Color Temperature Range

2600K — 7000K

Change the color temperature of your lighting to match the mood of the space. Studies have even proven that tunable white lighting can help with productivity and circadian rhythms. Control our tunable white LED panels using **RF** remotes, **Wi-Fi**, **DMX**, or **0-10V** controlling systems. Integrate into any home or building automation system.

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Product Overview

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CUSTOM PANEL
Product Specifications

LED Panel with Diffuser

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Thickness	1/2" (0.50") to 1" (at frame)
Sizes	Any size up to 96" x 48"
Shapes	Squares and Rectangles Only
Input Voltage	24VDC
Power	Varies by Color Selection
Lumen Values	~4,000 LUX see Table (for White)
Color Rendering	>90 (for White)
Frame	Varies from 3/4" to 1.5" Thick
Controls	Varies by Color Selection
Power-Feed	Varies by Color Selection
Lifetime	70,000+ Hours
Enviornment	Suitable for Dry or Damp Locations
Warranty	5-Year Limited Warranty

Available Colors

3000K	4000K	6000K
Warm White	Natural White	Bright White

RGB	RGB+W	CCT
Color Changing	RGB + 6500K	Tunable White

"Line Matrix"

"Particle Matrix"

Different proprietary techniques are used to achieve seamless, even lighting across the surface of our LED Panels. Our LED Panels will either have a line or particle "matrix" for light uniformity. Since our LED Panel systems are a turn-key solution and optimized on a per-project basis, our team will decide which "matrix" works best for your project.

All LED Panel systems come with 8ft of wire (power-feeds), longer leads can be specified if needed. All of our LED Panels are **Low Voltage**, and require a power supply to operate. RGB, RGBW, and Tunable White LED Panels, require controllers and receivers for operation.

Panel Color	Conductors
White	2
Tunable White	3
RGB	4
RGB+W	5

Power-Feeds

Power-Feeds typically exit the LED Panel out of the corner at a "notch." Before ordering, our team will submit drawings illustrating where the power-feed for your LED panels will exit. You can request changes before you approve your LED Panel system drawings for production.

Note: Framed Panels with diffusers have the power-feed exiting from the rear, not the corner

Average Illuminance Values

Width	White	RGB+W[1]	Tunable White[2]
12"	~7,200 LUX	~2,200 LUX	~2,880 LUX
24"	~6,000 LUX	~1,850 LUX	~2,400 LUX
36"	~3,600 LUX	~1,100 LUX	~1,440 LUX
48"	~2,400 LUX	~800 LUX	~1,000 LUX

[1]**RGB+W** Illuminance value based on true 6500K white channel alone
[2]**Tunable White** Illuminance value is max setting **PER** color temperature

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Approved for use on any commercial project in the United States or Canada. **Trust the lighting you specify!**

Contact Our Team Today!
Discover the **Glowback**LED Advantage

BLUEGATE

Product Overview

GlowbackLED®
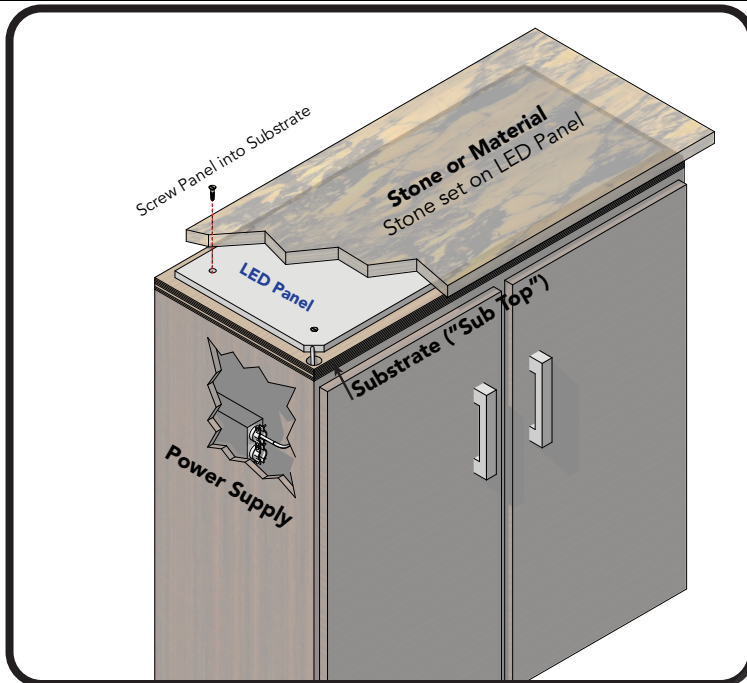
Horizontal Panel Installations

For horizontal installations, such as counter-tops, kitchen islands, and bar-tops a "sub top" or layer of substrate (such as plywood) should be affixed to the top of the cabinet, giving the LED panel(s) a flat surface to screw into. Once the substrate is in place, the LED Panel can be installed in seconds by screwing through the mounting holes* on the LED Panel. Once installed, test the LED Panel and install the stone or material directly on top. To hide the LED Panel from being visible around the edge, have your fabricator add a "build-up" or mitered stone return around your tops. Ask your project manager for more techniques on getting the absolute best result on your horizontal LED Panel applications.

Diffusion

Certain very translucent materials (such as stained or frosted glass) require additional diffusion techniques to hide mounting holes and seams. Typically a small air-gap in tandem with a diffuser is enough to get an optimal result. Ask our team if your material requires additional diffusion techniques. For the best result, send us a sample of your material and we'll design a turn-key system for getting perfectly even lighting.

Avoid Adhesives!

Use of adhesives to bond material to our LED panels should be avoided at all costs. Adhesives can result in lighting anomalies and issues in the future. Mechanical mounting methods and/or allowing gravity to hold the stone in place (for horizontal installations) is recommended. Use these layouts as a guide for designing your optimal mounting method. Need help with design? Let our team help!

Vertical Panel Installations
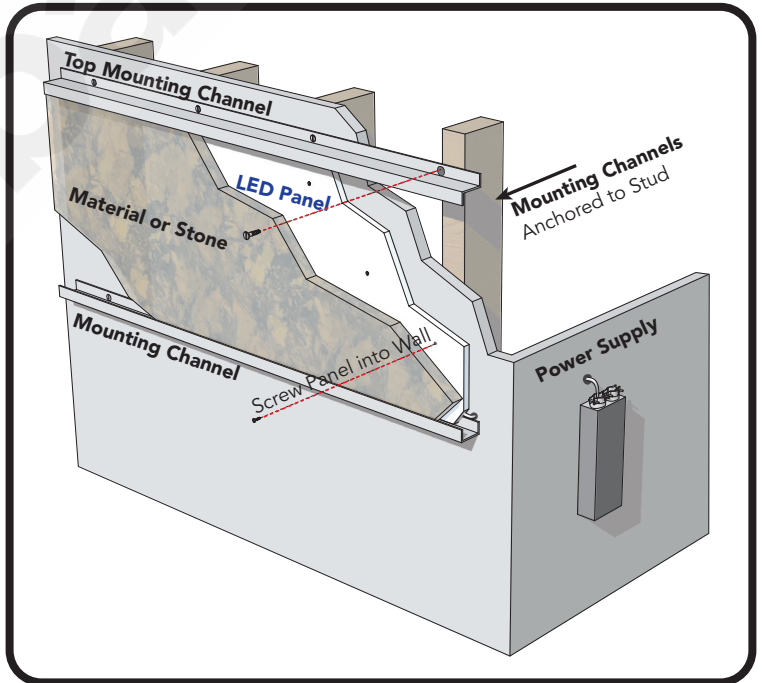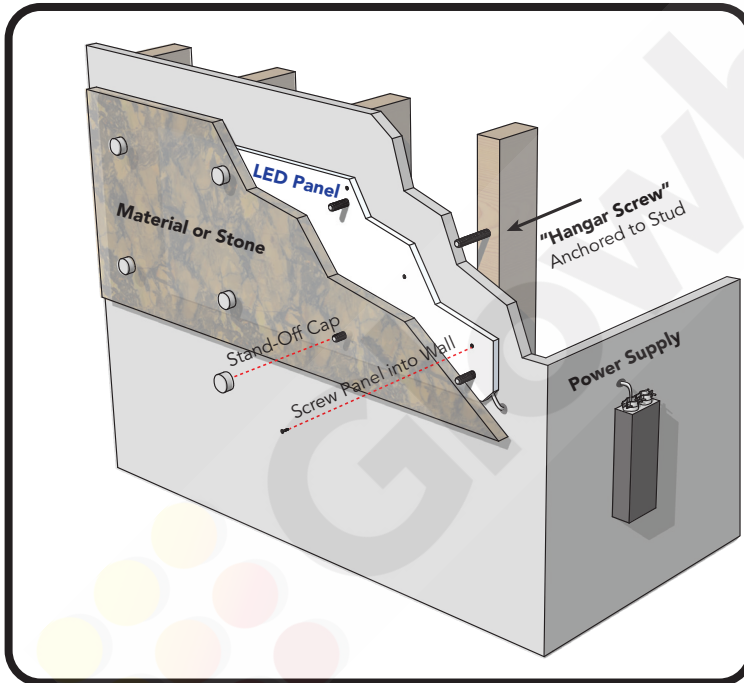
Vertical Installations of the LED Panel(s) itself is very simple. Simply screw the LED Panel into the wall, run the power-feed to the power supply, and connect the power supply to power. However, a **mechanical mounting system for the material**, is required. Large stone slabs can be incredibly heavy, and **CANNOT** be installed with adhesive directly to the LED Panel. A common method if installation is using the **stand-off method**, which consists of a "hangar screw" anchored to the framing, and a cap is used to hold the stone in place. For a less apparent mounting method, the **channel mounting method** can be employed. The channels are anchored to the framing and can either wrap around the stone (visible frame), or insert into a "kerf" or slot fabricated into the stone, for a seam-less (no visible framing) mounting methods.

BLUEGATE

Remote Power Supply Selection Guide

:::GlowbackLED®

## Low Voltage LED Panels
Power Supplies and Controllers

All of our LED Panels require a **remote power supply** and/or **controller** to operate. Seamlessly integrate our LED Panel systems with any type of home or building automation system. Unless otherwise specified, all LED Panel systems, including power supplies and controllers are shipped to you **pre-configured**, to facilitate installation. Power-Supplies will come "rigged" with connectors to match the connectors coming off the LED panels. When ordering, simply give us some details about the level of control that you want, and our team will design a **turn-key control system** fit to meet your needs.

Non-Dimmable Adaptor

Outlet

**to Lights →**
"DC" Connector
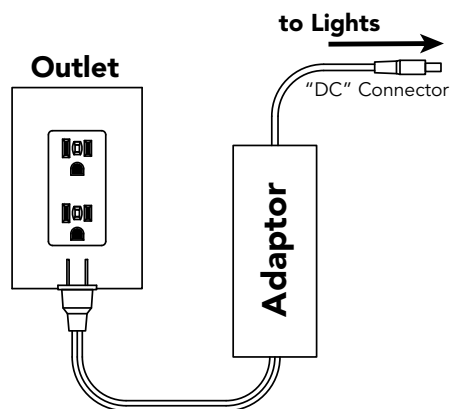
Adaptor

Recommended for small panel installations. Very popular solution for stained glass, bathroom vanities, and other small back-lit areas. Simply plug the adaptor into any US wall outlet, connect the LED Panels and the lights will turn on. This is a **Non-Dimmable** Power Supply

Non-Dimmable Hard-Wire

12/24VDC
to Lights →

Switch

On

Off

Power Supply

120-277VAC
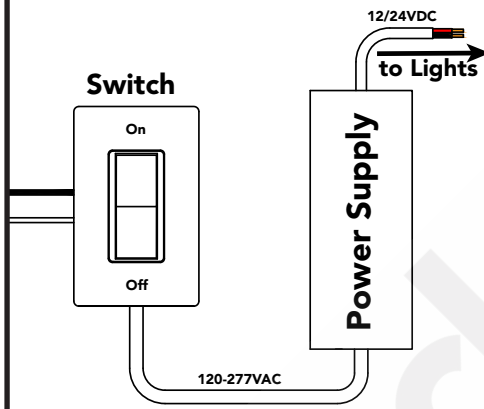
Popular for commercial applications where dimming isn't generally required. Use our non-dimmable power supplies to easily turn your LED panel system **On** and **Off** using a hardwired switch.

MLV/TRIAC Dimmable

MLV Dimmer
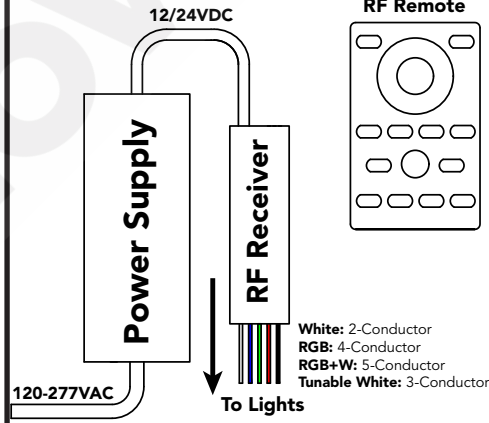
Driver

120VAC

12/24VDC

To Lights →
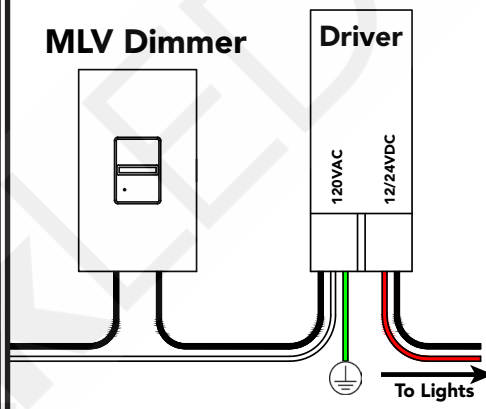
Our most popular power supply configuration! Dim your LED Panel system using pre-existing romex, with no additional dimming wires needed. We generally only recommend this for remodel applications, as 0-10V dimming gives better performance for new construction

Non-Dimmable Adaptor

0-10V Dimmer

to Lights →

12/24VDC

0-10V Driver
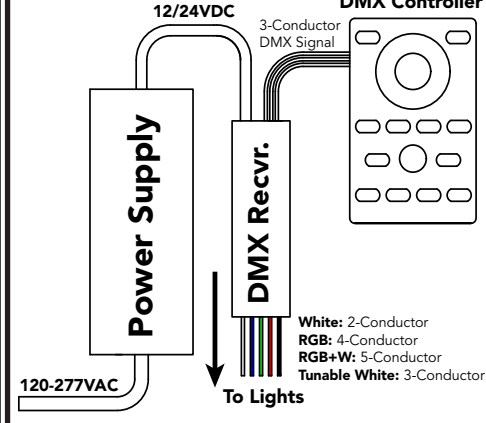
0-10V Signal
2-Conductor

120-277VAC
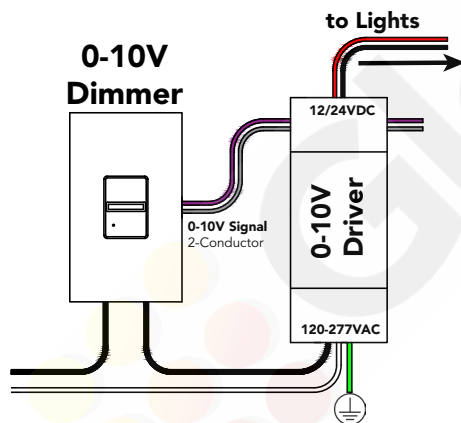
Highly Recommended for New Construction! 0-10V dimming provides maximum dimming performance using a set of low-voltage control wires. 0-10V dimming is the only option for true flicker and shimmer free LED dimming! Contact-Us about wireless 0-10V control.

Wireless Control

12/24VDC

RF Remote

Power Supply

RF Receiver

120-277VAC

To Lights ↓

White: 2-Conductor
RGB: 4-Conductor
RGB+W: 5-Conductor
Tunable White: 3-Conductor

Generally used with our color changing LED Panels (RGB, RGB+W, and Tunable White). RF Control allows you to operate your lighting using a remote control. This system consists of a power supply and an RF receiver. Some applications require power repeaters (signal amplifiers)

DMX Control

12/24VDC

DMX Controller
3-Conductor DMX Signal

Power Supply

DMX Recvr.

120-277VAC

To Lights ↓

White: 2-Conductor
RGB: 4-Conductor
RGB+W: 5-Conductor
Tunable White: 3-Conductor

Used for large and robust projects, DMX can be used with color changing or white lighting and offers an unrivaled level of control. With a DMX system you have the capability of controlling each LED panel individually. DMX requires a 3-conductors shielded wire for control.
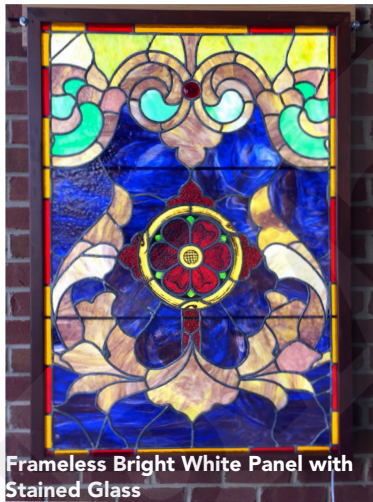
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Frameless Bright White Panels with Quartz

Frameless Natural White Panels with Honey Onyx

Frameless RGB Panels with Frosted Glass

Frameless Bright White Panel with Stained Glass

Frameless Bright White Panel with Smokey Quartz

Frameless Bright White Panels with Agate

Frameless Bright White Panels with Crystallo (Quartz)

Frameless Bright White Panels with Green Quartz

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