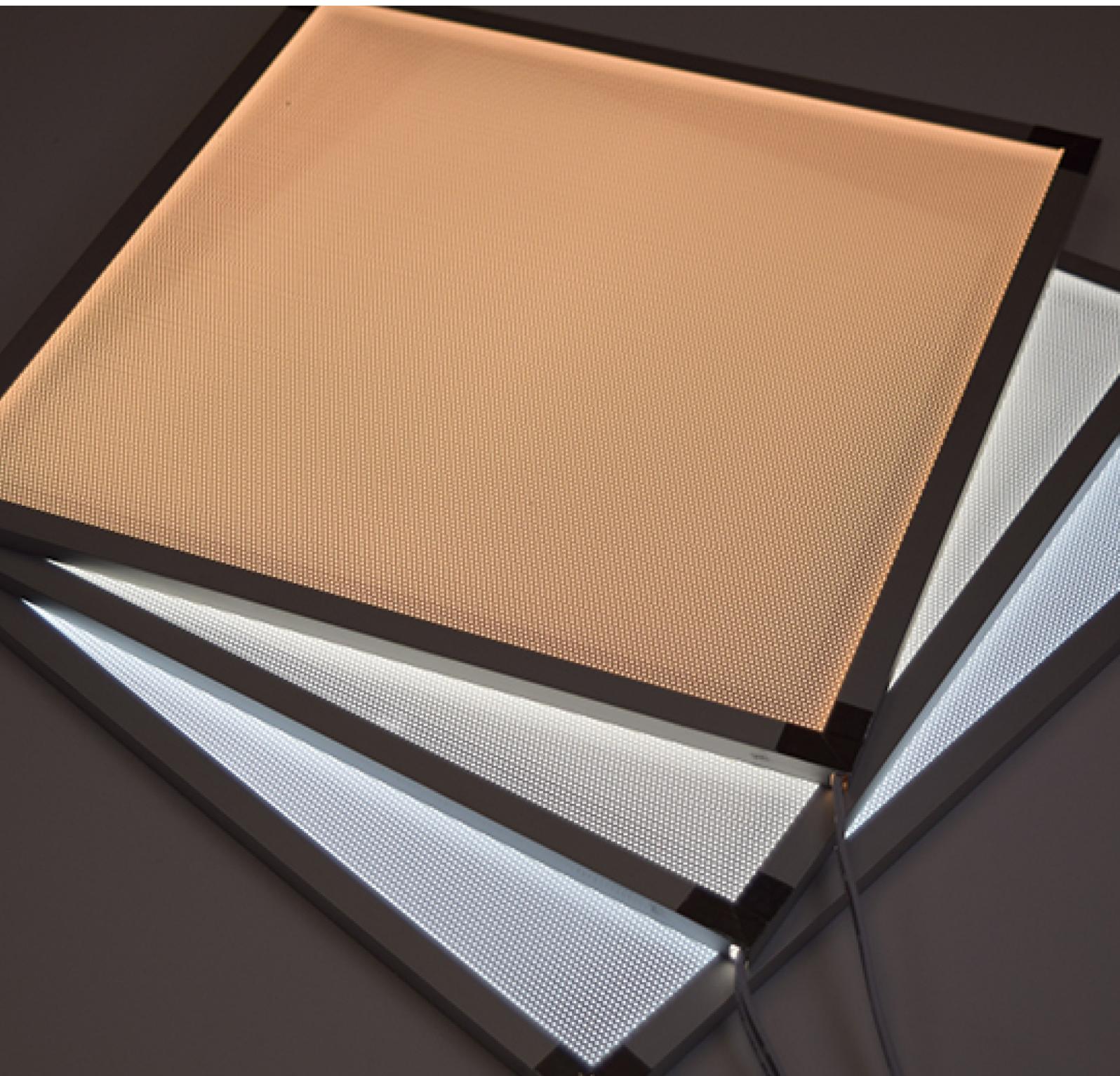


Light Guide Panel



LUXX Light Technology

Overview

The LIGHTPANEL AIR is full series of energy efficient, state-of-the-art LED edge lit light guide panel systems that create stunning displays and lighting for retail, POP, cosmetic, architectural signage, and other commercial environments.

Custom Sizes and Shape LED Light Guide Panels

Non-standard is the new standard. For specialized applications we provide fully customizable led light panel solutions that can be manufactured to fit any shape, size and specification up to 47" (1200mm) x 98.42" (2499mm) and range in acrylic thicknesses between .17" (4.5mm) up to .35" (9mm).

Custom CCT LED Light Guide Panels

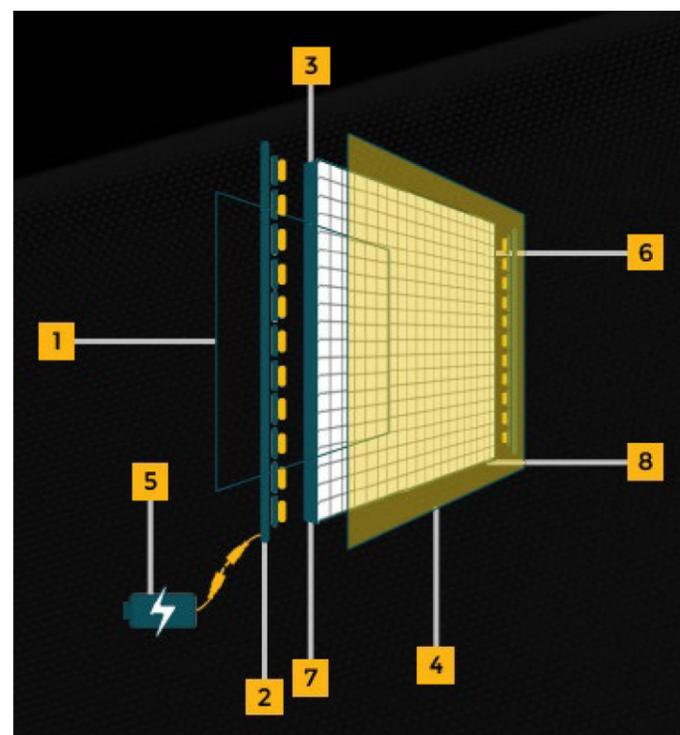
The LIGHTPANEL Air Tunable White is a fully customizable LED light guide panel and available in 3000K, 4000K, 5000K, and 6500K color temperatures.

Custom RGB, RGB+W, and CT Light Guide Panels

The LIGHTPANEL AIR Tunable White is a fully customizable series of color changing led light panels offering lighting designers the ability adjust colors to match any Pantone.

Turnkey Light Guide Panel Solutions

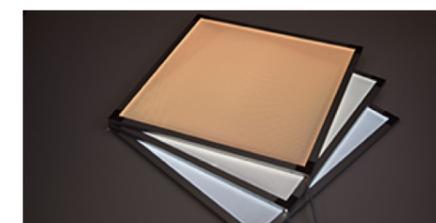
Known as the LIGHTPANEL AIR Classic this line of LED light guide panel is super slim at 1/4" in overall thickness, available in Cool White 6500K, comes in seven standard sizes, and ships to you as a completed ready to use system!



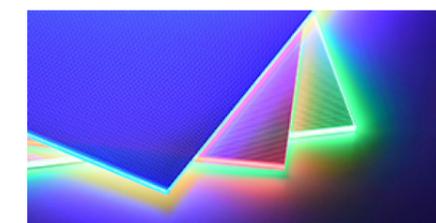
- 1 PANEL AIR SHIELD**
Optional reflective film for added thermal management and enhanced brightness.
- 2 TIER 1 ANSI BINNED LEDs**
Low power, mercury free, energy efficient
- 3 ENHANCED LIGHT DIFFUSION FILM**
Optional
- 4 MEDIA GRAPHIC**
Optional
- 5 POWER KIT**
Power supply, AC and DC cord
- 6 LASER ENGRAVED DOT PATTERN**
Across the acrylics surface evenly
Distributes the led light across panel
- 7 OPTICAL GRADE CELL CAST ACRYLIC**
Total luminous transmittance
- 8 REFLECTIVE TAPPING**
Optional, sides without LED strips can be taped



LIGHTPANEL AIR Classic



LIGHTPANEL AIR Tunable White



LIGHTPANEL AIR Color Wheel

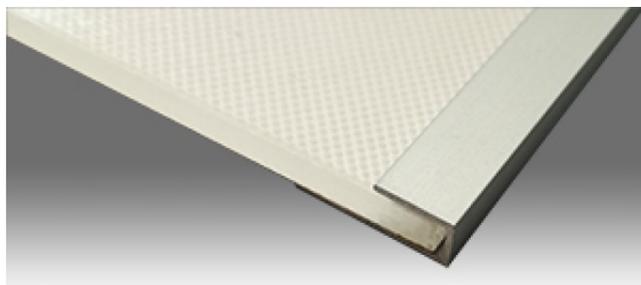
LIGHTPANEL AIR Classic



- Consumption: 5.5W/ft
- Color Temperature: 2700-6500K
- Power: 24V DC supply
- Thickness: Overall 1/4 "

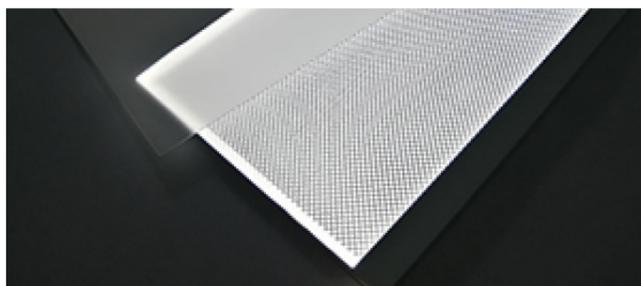
| LIGHTPANEL AIR Classic - Technical Specifications | | | | | | | |
|---|---|-------------|--------------|--------------|--------------|--------------|--------------|
| *Please note: The LIGHTPANEL AIR Classic is not customizable. It is available in six sizes. | | | | | | | |
| SKU | LA1224 | LA1620 | LA1824 | LA2228 | LA2424 | LA2436 | LA3040 |
| Size | 12"x24"x1/4" | 6"x20"x1/4" | 18"x24"x1/4" | 22"x28"x1/4" | 24"x24"x1/4" | 24"x36"x1/4" | 30"x40"x1/4" |
| Finish | J-Channel with integrated heat sink technology for reliable thermal management, framed four sides | | | | | | |
| Manufacturing Technology | Laser machines for precise cutting of PMMA optical grade cell cast acrylic and laser engraving for a fully optimized dot diffusion pattern. | | | | | | |
| LED Light Entry | Two sided led strips | | | | | | |
| Taped | Sides taped with durable UV and solvent resistant metalized polyester film for enhanced illumination | | | | | | |
| Panel AIR Shield | Thin reflective sheet for additional brightness and even light distribution | | | | | | |
| Application | Indoor (IP rated version available per request) | | | | | | |
| Connecting Cable | 6" White Male IP54 Connecting Cable | | | | | | |
| LIGHTNING | | | | | | | |
| Color Temperature | 2700~6500K, 24VDC at 478 lm/ft, 73 LEDs/ft and 5.5w/ft | | | | | | |
| LEDs | 2216 SMD, 240LED/m. | | | | | | |
| ELECTRICAL | | | | | | | |
| Power | 5.5W/ft, 24V DC Power Supply. With AC cord and DC white Female IP54 Cord | | | | | | |
| Operating Temperature | -20°C~+40°C | | | | | | |
| INSTALLATION | | | | | | | |
| Installation | No mounting accessories or hardware included | | | | | | |
| WARRANTY & CERTIFICATIONS | | | | | | | |
| LEDs & Panel | 24 months, UL | | | | | | |

LIGHTPANEL AIR Customized



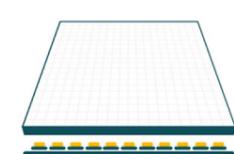
Lightpanel uses ranks #1 in transparency among all optical grade acrylics
 Every Lightpanel AIR begins with a PMMA (Polymethyl Methacrylate) acrylic sheet of 96% optical clarity. This kind of acrylic has better light transmission characteristics than many kinds of glass.

Enhanced light diffusion film (Optional)
 Because LED's tend to create "hot spots" of focused light that can detract from the visual impact of a LED light panel, Lightpanel offers a special grade of thin diffusion film that has been carefully engineered to diffuse LED hot spots without sacrificing light projection or illumination.

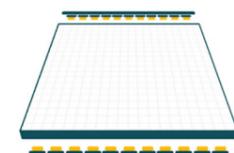


The AIR Shield adds an extra level of light efficiency (Optional)
 The AIR Shield is a scientifically formulated highly reflective thin panel that is directly applied to the back of the acrylic panel. Once added the AIR Shield enhances brightness by helping to distribute all light evenly.

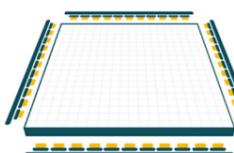
With the Lightpanel Air, you can control the brightness of the LED light panel by choosing LED strips to one side, to two sides or all four sides. When pairing the LEDs strips with our laser engraved dot patterns, you will experience a guaranteed total light radiance.



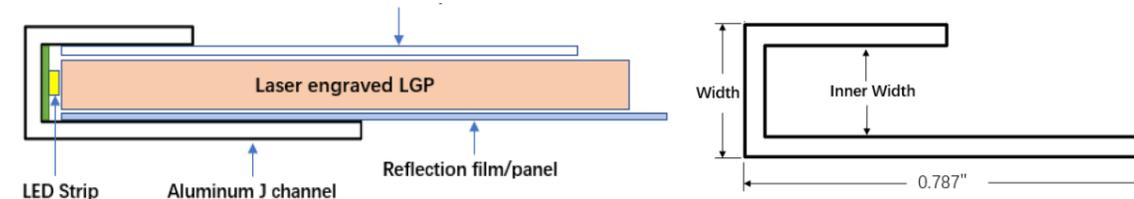
LEDs on one side
 For LED Light Panels under 14" (355mm), we recommend using one LED strip. This will ensure a well-lit light guide panel that is not over bright while eliminating the slight drop associated with larger panels.



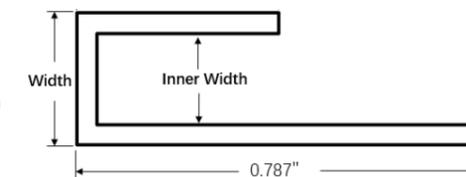
LEDs on two sides
 For LED Light Panel larger than 14 " (355mm), we recommend adding a LED strip to two opposing sides of the light guide panel.



LEDs on four sides
 For LED Light Panels larger than 36 " (914mm) or LGPs that are square or near square in shape, we commend adding LEDs to all four sides.



LIGHTPANEL AIR Structure



Aluminum J Channel

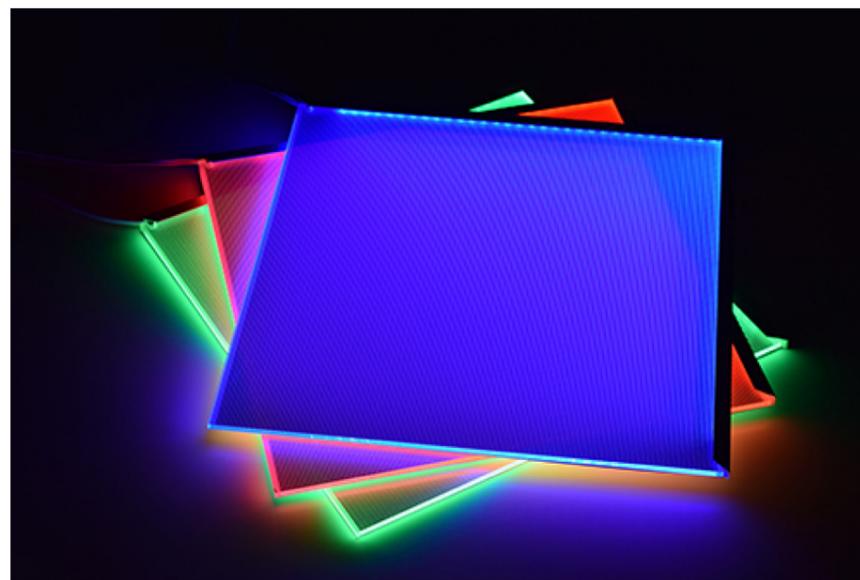
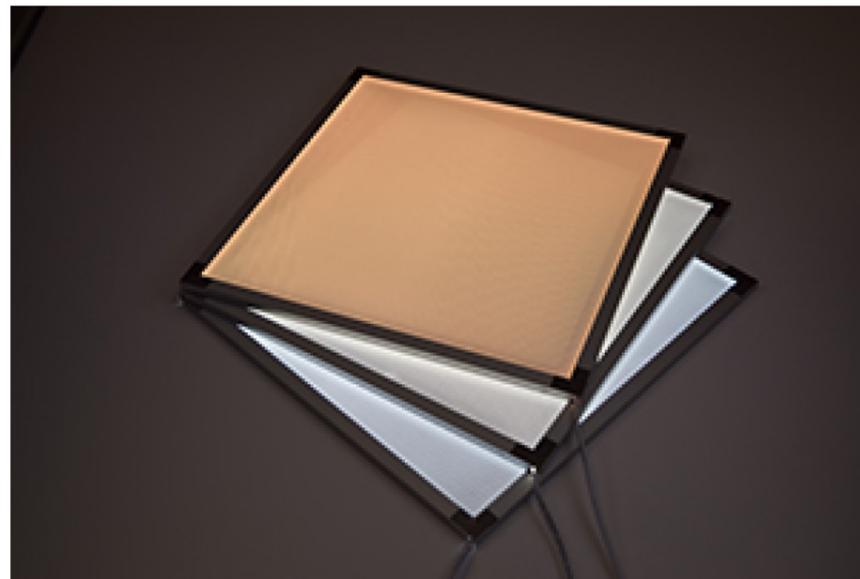
| Laser Engraved LGP Options | | | | | |
|----------------------------|-----|-----|-----|-----|------|
| Thickness | 3mm | 4mm | 6mm | 8mm | 10mm |

| Laser Engraved LGP Options | | | | |
|----------------------------|-----------------|-------|-----------------------------|-------|
| Type | Reflection Film | | Reflection AIR Shield Panel | |
| Thickness | 0.25mm | 0.4mm | 1.0mm | 2.0mm |

| Diffusion Film & Panel Options | | | | |
|--------------------------------|----------------|-------|-----------------|-------|
| Type | Diffusion Film | | Diffusion Panel | |
| Thickness | 0.1mm | 0.4mm | 1.0mm | 2.0mm |

| Aluminum J channel Options | | | | | | |
|----------------------------|-------|-------|-------|--------|--------|--------|
| Outer Width | 5.5mm | 6.5mm | 8.5mm | 10.5mm | 12.5mm | 14.5mm |
| Inner Width | 3.5mm | 4.5mm | 6.5mm | 8.5mm | 10.5mm | 12.5mm |

LIGHTPANEL AIR Tunable White & ColorWheel

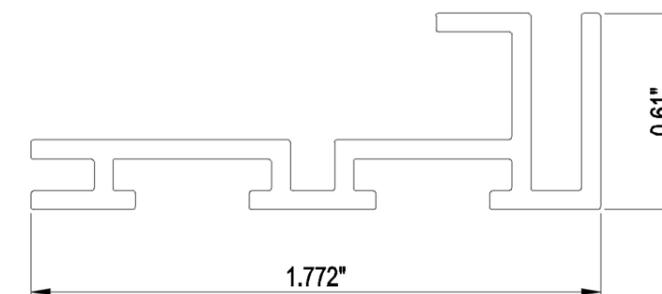


| LIGHTPANEL AIR Tunable White & ColorWheel - Technical Specifications | | | | | |
|--|--|-----|---------------------------|-----------|-------------------|
| The Tunable White & Color Wheel are customizable CCT, CT, RGB, and RGB+W LED light guide panels. | | | | | |
| SERIES | LIGHTPANEL AIR Tunable White | | LIGHTPANEL AIR ColorWheel | | |
| Color | CCT | | CT, RGB, or RGB+W | | |
| Manufacturing Technology | Laser machine for precise cutting of panel and laser engraving for fully optimized dot diffusion pattern | | | | |
| PMMA Panel Thickness | PMMA Panel Thickness 0.177" (4.5mm), 0.236" (6mm), 0.354" (9mm) | | | | |
| Minimum Panel Size | 3.93" x 3.93" (99.82mm x 99.822mm) | | | | |
| Maximum Panel Size | 47.24" x 98.42" (1199.896mm x 2499.868mm) | | | | |
| Mounting | No mounting accessories or hardware included | | | | |
| Application | Indoor (IP Protected version available upon request) | | | | |
| Overall Finish | J-Chanel, Crystal or Taped | | | | |
| Light Entry | 1-sided, 2-sided, 3-sided, or 4-sided | | | | |
| Diffusion Film or Diffusion Panel | Optional | | | | |
| Panel AIR Shield (Reflection Sheet) | Optional, thickness .0007" (.02mm) | | | | |
| Taped | Optional | | | | |
| Power Exist | Customer define, bottom left, bottom right, upper left, upper right, bottom middle, upper middle | | | | |
| Power Exit Connecting Cable | 6" White Male IP54 Connecting Cable or Barrel Plug (customer define) | | | | |
| Color Representation | Color Temperature | CRI | LEDs/Ft | Lumens/Ft | Power Consumption |
| | 3000K | 90 | 73 LEDs/ft | 450 | 5.5W/ft |
| | 4000K | 90 | 73 LEDs/ft | 465 | 5.5W/ft |
| | 5000K | 90 | 73 LEDs/ft | 468 | 5.5W/ft |
| | 6500K | 90 | 73 LEDs/ft | 478 | 5.5W/ft |
| | CCT | 90 | 73 LEDs/ft | TBD | 5.5W/ft |
| | RGB / RGB+White | / | 36 LEDs/ft | / | 4.5W/ft |
| POWER | | | | | |
| Input Voltage | 24V DC | | | | |
| Power Supply | Optional, 24V DC power supply not included, can be purchased seperately | | | | |
| Wire Output Connector | Optional, 40" White Female IP54 Connector or 5.5x2.1 mm DC barrel plug | | | | |
| Operating Temperature | -20°C~+40°C | | | | |
| INSTALLATION | | | | | |
| Installation | No mounting accessories or hardware included | | | | |
| LEDs & Panel | 24 months | | | | |
| Certification | UL | | | | |

LIGHTPANEL AIR SEG Frame



- World's thinnest depth at only 0.61"
- Easily insert dye-sublimated fabric graphics
- Ultra bright with laser cut & engraved LGP back panel
- Both custom and standard sizes available



EASY TO USE, EASY TO SWAP

With premium quality and durability, another top advantage of LUXX AIR SEG frame is the ease-of-use



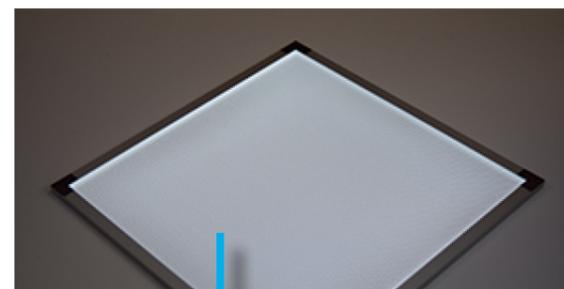
Lay down your panel and align your design to it.



Start with inserting the 4 corners into the panel.



Insert the rest of it into the panel.



Ultimate edge to edge visibility

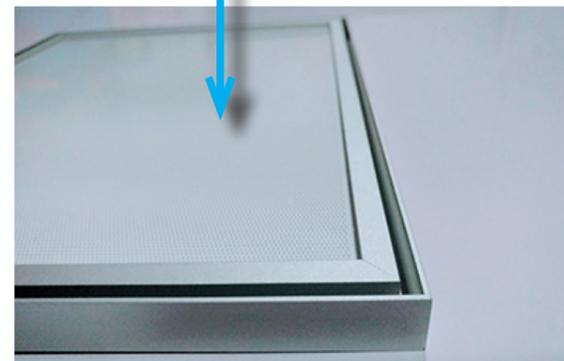
Eloquently showcase your fabric graphics using the frameless back-lit Lightpanel AIR LED SEG Frame. Slip your fabric graphic onto the SEG frames front channel, and Lightpanel AIR LED SEG frame will securely lock your graphic in place.

The only laser cut, LED-powered SEG frame

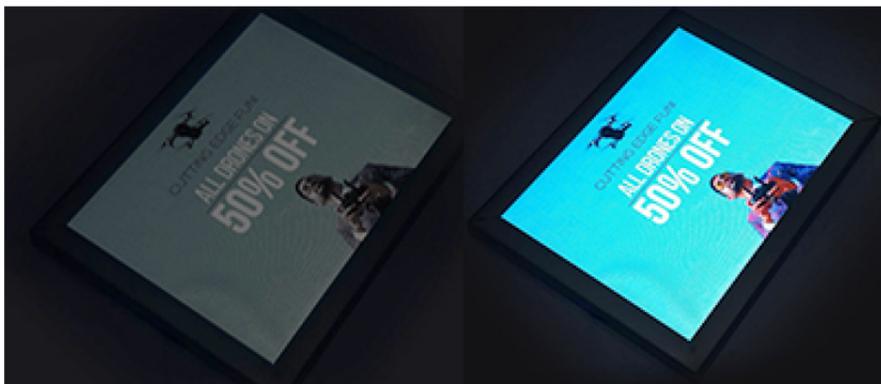
The AIR LED SEG frame is the only frame that is built with a state of the art laser cut and etched acrylic back panel that is edge-lit with Tier 1 LEDs. This set-up will evenly light-up your fabric graphics in a manner that demands attention!

5 Standard Sizes + Custom Options

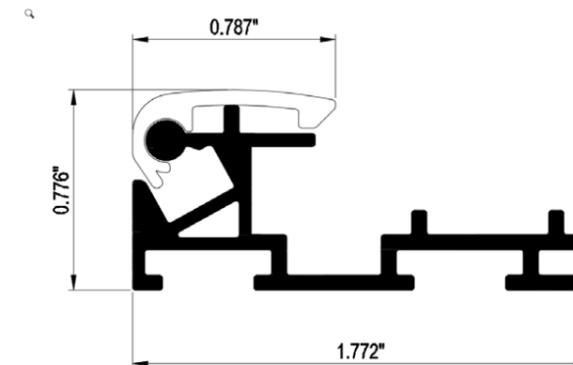
- 18" x 24"
- 22" x 28"
- 24" x 36"
- 30" x 40"
- 36" x 48"
- Custom per request



LIGHTPANEL AIR SEG Frame

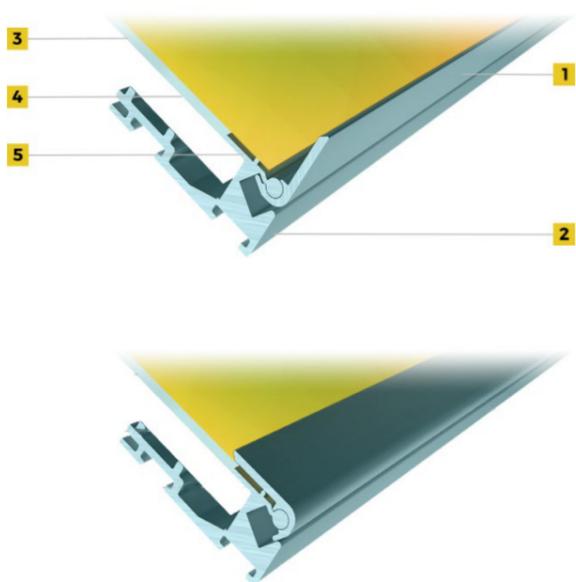


- Easily swap in and out your graphics
- LED Edgelit w/laser cut and dotted Light Guide Panels
- Standard and custom sizes available, up to 48"x 60"
- Only 0.78" in depth



THERE'S A SCIENCE BEHIND THIS

Considerable differences in manufacturing, design and the materials we use, distinguish the LIGHTPANEL Snap Frame LED signs superior to other snap frames available in the market today.



- 1 Easily accessible snap frame**
Visible frame is only 0.78" wide
- 2 Ultra-thin aluminum profile**
Only 0.78" in depth"
- 3 Your graphics**
Securely mount your messages
- 4 Laser cut light panel**
Optical grade acrylic that transmits the light
- 5 Tier 1 ANSI binned LEDs**
Mercury-free, energy efficient, bright LEDs



Beautifully display graphics

Your graphics will beautifully stand out due to the ultra-slim laser cut and etched acrylic back panel that is edge-lit with daylight white Tier 1 6500K LEDs. The ultra-bright, energy efficient LEDs shine through the acrylic create an uniformly lit "curtain of light" ensuring your graphics grab attention while being easily seen!

Easily swap out your messages

Just snap open the front frame. Insert the graphic over the diffuser panel. Replace the cover sheet. And snap the sides close to secure the graphic. Turn on a LED Light Box and your graphic will be illuminated from behind. We recommend printing graphics on an 8 mill backlit film substrate

5 Standard Sizes

- 18" x 24" x .38"
- 22" x 28" x .38"
- 24" x 36" x .38"
- 30" x 40" x .38"
- 36" x 48" x .38"
- Custom per request

LUXX Light Technology

LUXX Light Technology (USA) Inc.

4425 S Kansas Ave
St. Francis, WI 53235
USA

info@luxx.com
www.luxx.com

LUXX Light Technology (Shenzhen) Ltd.

Building 8, 5th Floor, HuiDeBao
Industry Park
Bai Hua Yuan Road
Guang Ming New District,
Shenzhen
Guangdong, China, 518000

Phone: +86 755 27049942

info@luxx.cn
www.luxx.cn

LEDtec GmbH

Abelbachstr. 13
OT Steinhausen
33142 Bueren
Germany

Phone: +49 2951 93838-300
Fax: +49 2951 93838-399
info@ledtec.eu
www.ledtec.eu

Sun Electronics S.R.L.

Via Leonardo da Vinci 24/A
20094 Corsico (Milan)
Italy

Phone: +39 02 95327303
Fax: +39 02 95327091
info@sunleds.it
www.sunleds.it



© Copyright 2021. All rights reserved by LUXX Light Technology.
Issue no. G-SH-EN-2100

All information stated is correct at the time of printing and subject to changes