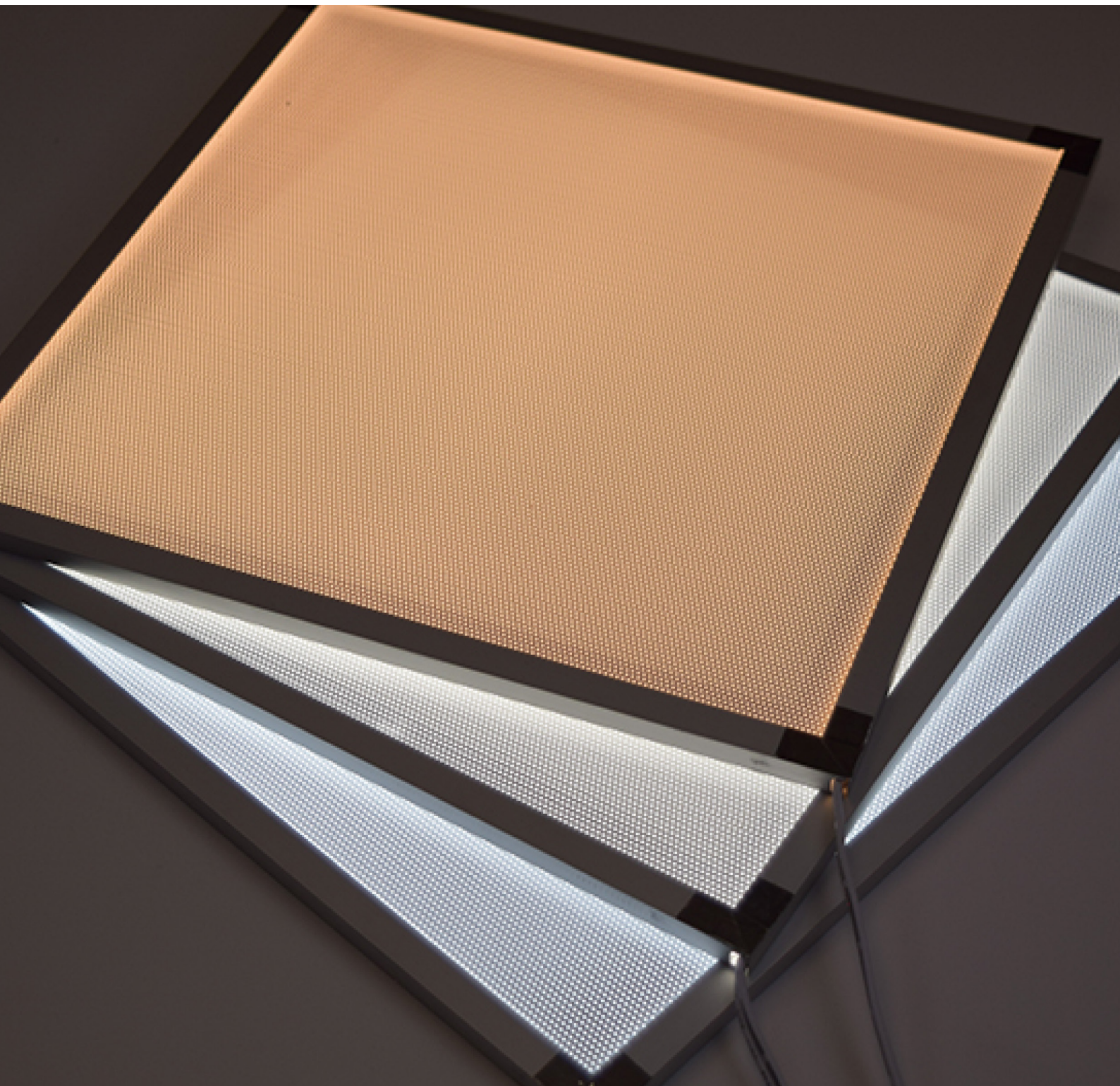


Light Guide Panel



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

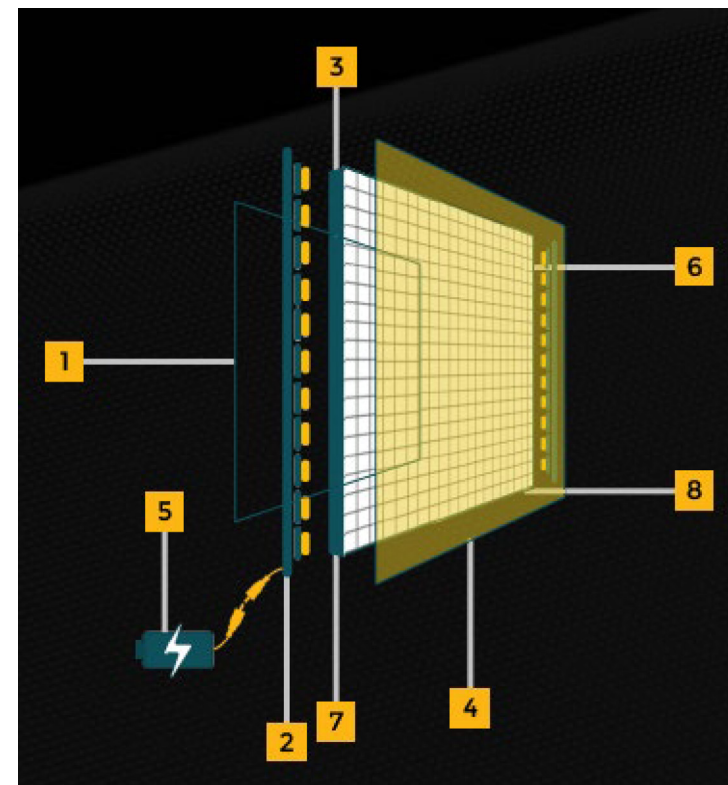
The LIGHTPANEL Air Tunable White is a fully customizable LED light guide panel and available in 3000K, 4000K, 5000K, and 6500K color temperatures.

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

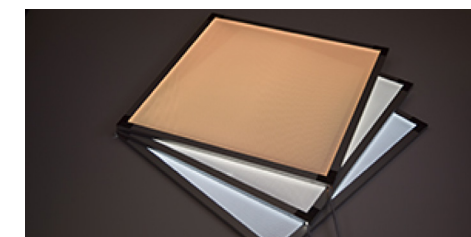
Known as the LIGHTPANEL AIR Classic this line of LED light guide panel is super slim at 1/4" in overall thickness, available in Cool White 6500K, comes in seven standard sizes, and ships to you as a completed ready to use system!



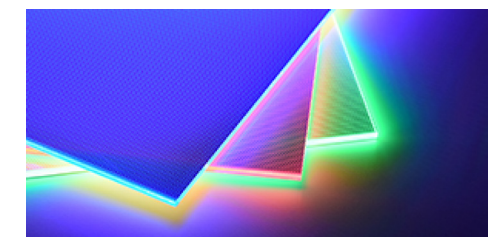
- 1 PANEL AIR SHIELD**
Optional reflective film for added thermal management and enhanced brightness.
- 2 TIER 1 ANSI BINNED LEDs**
Low power, mercury free, energy efficient
- 3 ENHANCED LIGHT DIFFUSION FILM**
Optional
- 4 MEDIA GRAPHIC**
Optional
- 5 POWER KIT**
Power supply, AC and DC cord
- 6 LASER 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



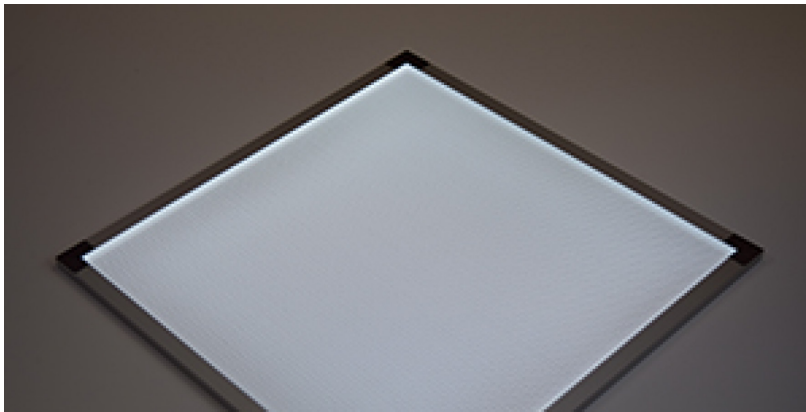
LIGHTPANEL AIR Classic



LIGHTPANEL AIR Tunable White



LIGHTPANEL AIR Color Wheel

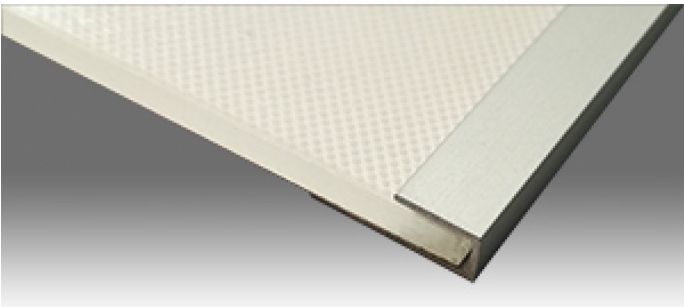


- Consumption: 5.5W/ft
- Color Temperature: 2700-6500K
- Power: 24V DC supply
- Thickness: Overall ¼ "

*Please note: The LIGHTPANEL AIR Classic is not customizable. It is available in six sizes.

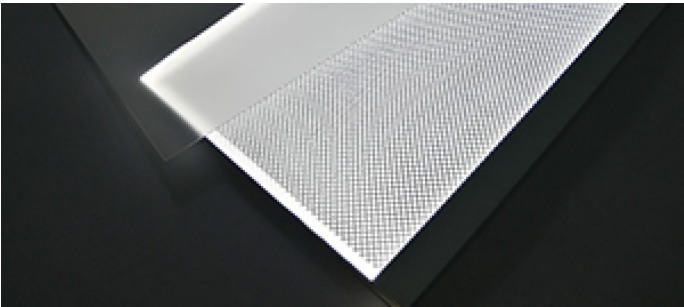
SKU	LA1224	LA1620	LA1824	LA2228	LA2424	LA2436	LA3040
Size	12"x24"x1/4"	6"x20"x1/4"	18"x24"x1/4"	22"x28"x1/4"	24"x24"x1/4"	24"x36"x1/4"	30"x40"x1/4"
Finish	J-Channel with integrated heat sink technology for reliable thermal management, framed four sides						
Manufacturing Technology	Laser machines for 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 Shild	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



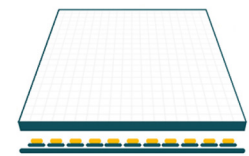
Lightpanel uses ranks #1 in transparency among all optical grade acrylics
Every Lightpanel AIR begins with a PMMA (Polymethyl Methacrylate) acrylic sheet of 96% optical clarity. This kind of acrylic has better light transmission characteristics than many kinds of glass.

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.

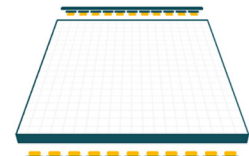


The AIR Shield adds an extra level of light efficiency (Optional)
The AIR Shield is a scientifically formulated highly reflective thin panel that is directly applied to the back of the acrylic panel. Once added the AIR Shield enhances brightness by helping to distribute all light evenly.

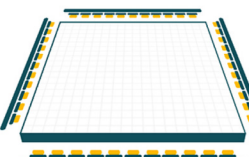
With the Lightpanel Air, you can control the brightness of the LED light panel by choosing LED strips to one side, to two sides or all four sides. When pairing the LEDs strips with our laser engraved dot patterns, you will experience a guaranteed total light radiance.



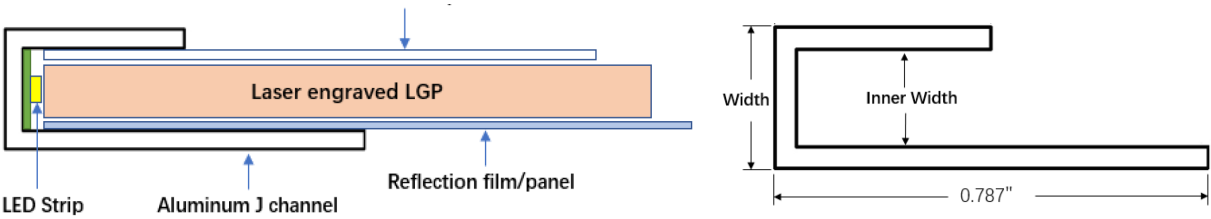
LEDs on one side
For LED Light Panels under 14” (355mm), we recommend using one LED strip. This will ensure a well-lit light guide panel that is not over bright while eliminating the slight drop associated with larger panels.



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

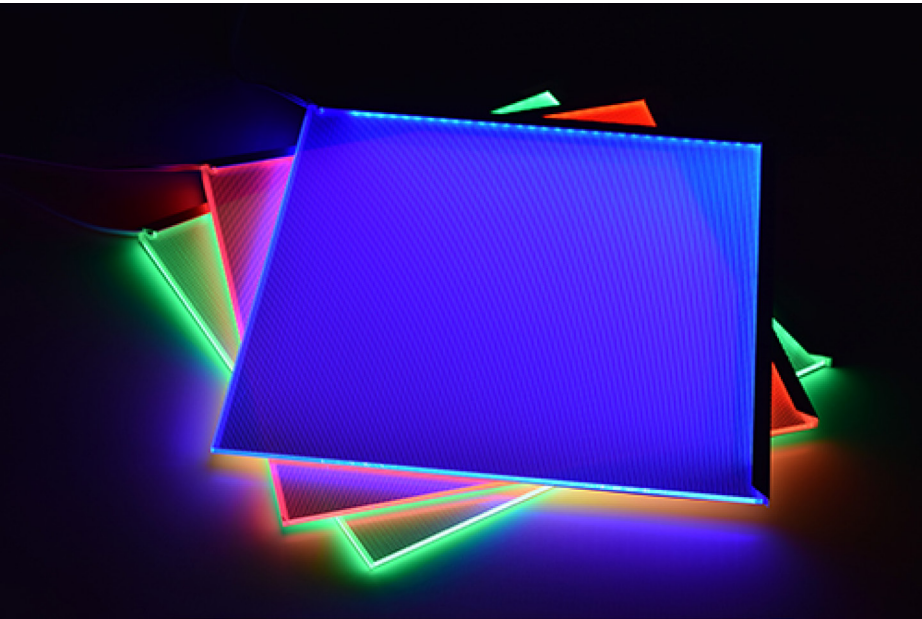
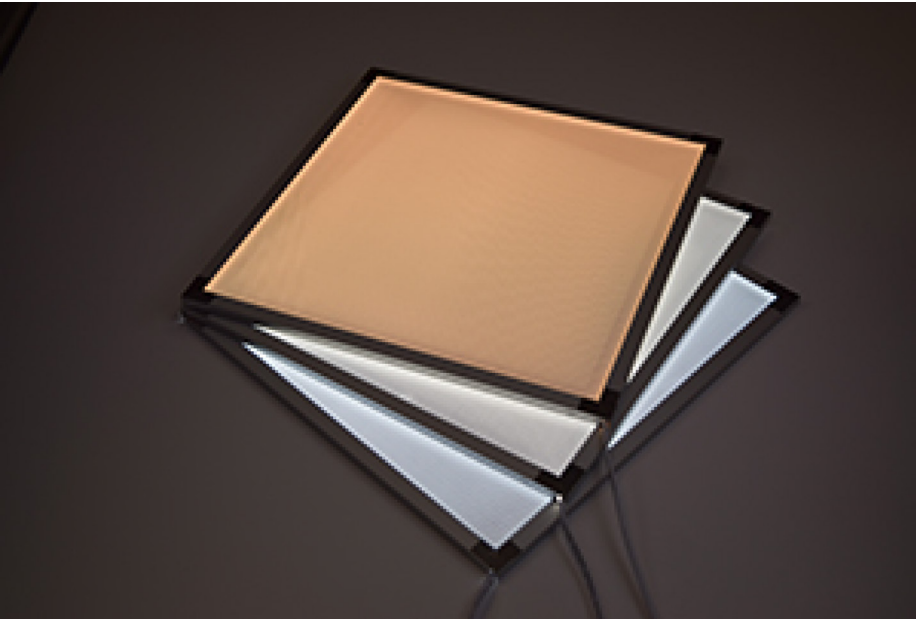
Laser Engraved LGP Options					
Thickness	3mm	4mm	6mm	8mm	10mm

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

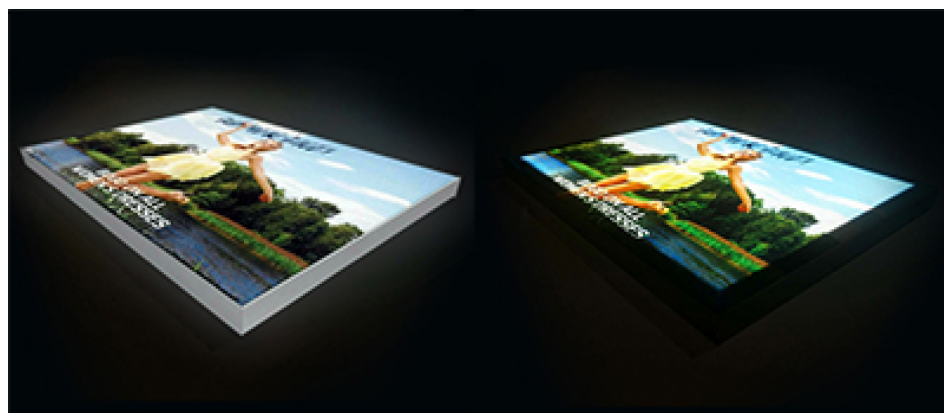
Aluminum J channel Options						
Outer Width	5.5mm	6.5mm	8.5mm	10.5mm	12.5mm	14.5mm
Inner Width	3.5mm	4.5mm	6.5mm	8.5mm	10.5mm	12.5mm

LIGHTPANEL AIR Tunable White & ColorWheel

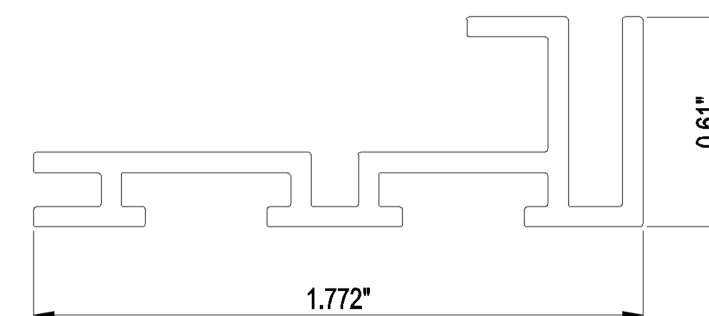


LIGHTPANEL AIR Tunable White & ColorWheel - Technical Specifications					
The Tunable White & Color Wheel are customizable CCT, CT, RGB, and RGB+W LED light guide panels.					
SERIES	LIGHTPANEL AIR Tunable White			LIGHTPANEL AIR ColorWheel	
Color	CCT			CT, RGB, or RGB+W	
Manufacturing Technology	Laser 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



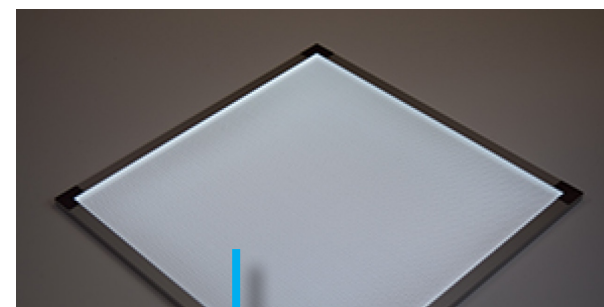
Lay down your panel and align your design to it.



Start with inserting the 4 corners into the panel.



Insert the rest of it into the panel.



Ultimate edge to edge visibility

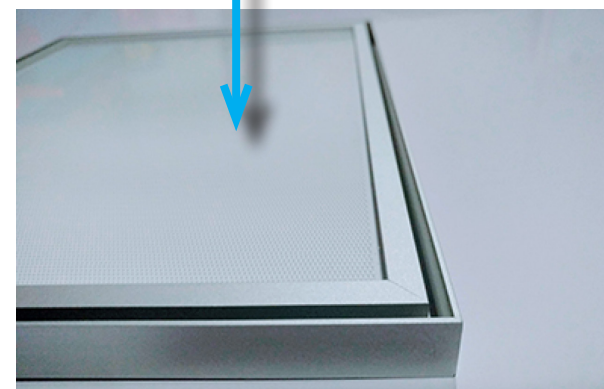
Eloquently showcase your fabric graphics using the frameless back-lit Lightpanel AIR LED SEG Frame. Slip your fabric graphic onto the SEG frames front channel, and Lightpanel AIR LED SEG frame will securely lock your graphic in place.

The only laser cut, LED-powered SEG frame

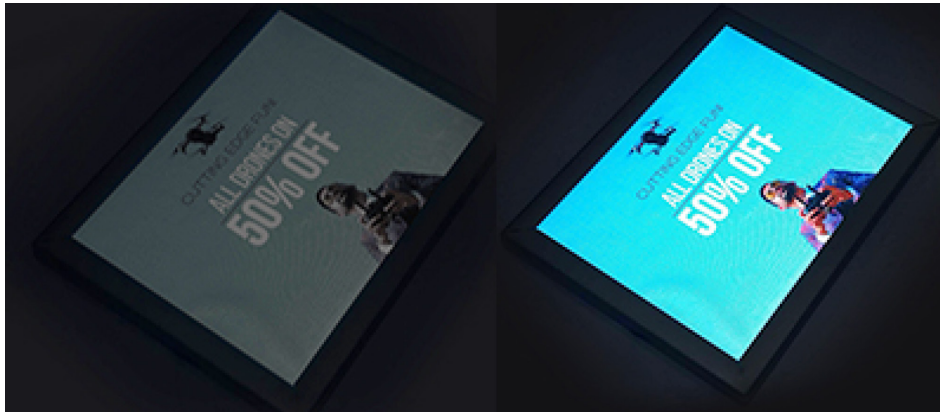
The AIR LED SEG frame is the only frame that is built with a state of the art laser cut and etched acrylic back panel that is edge-lit with Tier 1 LEDs. This set-up will evenly light-up your fabric graphics in a manner that demands attention!

5 Standard Sizes + Custom Options

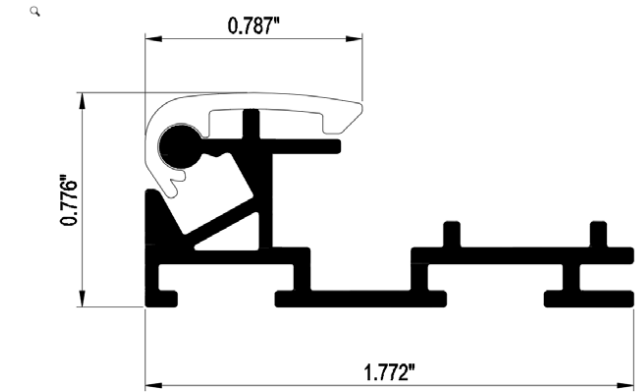
- 18" x 24"
- 22" x 28"
- 24" x 36"
- 30" x 40"
- 36" x 48"
- Custom per request



LIGHTPANEL AIR SEG Frame

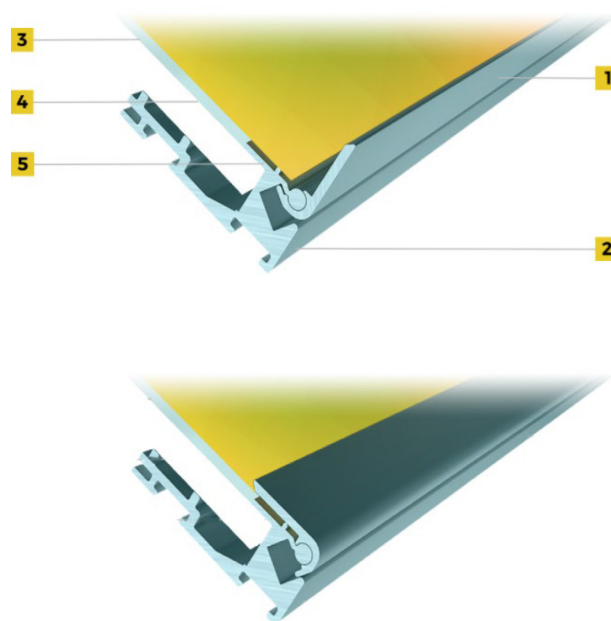


- Easily swap in and out your graphics
- LED Edgelit w/laser cut and dotted Light Guide Panels
- Standard and custom sizes available, up to 48"x 60"
- Only 0.78" in depth

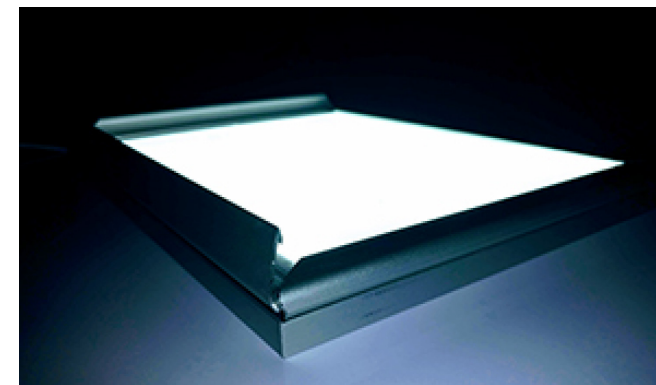


THERE'S A SCIENCE BEHIND THIS

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

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Issue no. G-SH-EN-2100

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