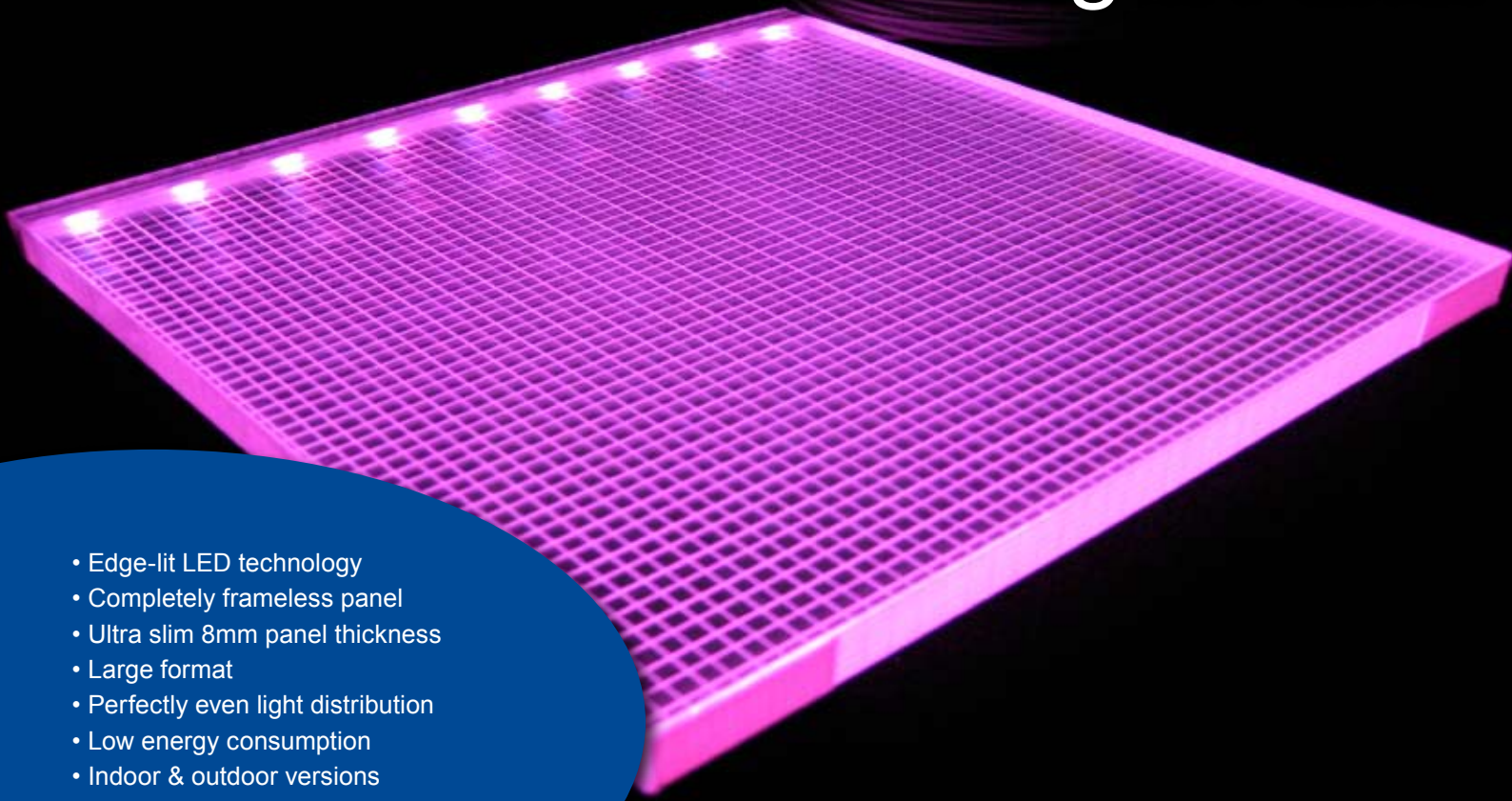


Light Panel

LED Light Panel



- Edge-lit LED technology
- Completely frameless panel
- Ultra slim 8mm panel thickness
- Large format
- Perfectly even light distribution
- Low energy consumption
- Indoor & outdoor versions
- Long life, high quality
- Colour changing RGB LEDs available
- Custom shapes & sizes



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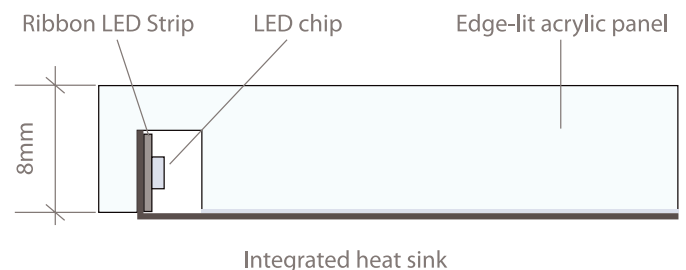
LED LIGHT PANEL

- Edge-lit LED technology
- Ultra thin (8mm)
- Frameless design
- Colour changing LED's available
- Even light distribution

The LED Light Panel is a cutting edge, ultra slim, light source that offers solutions for a multitude of lighting applications including: architectural lighting, illuminated display, retail lighting, interiors lighting and illuminated graphics. As the LED light panel is so thin and can be cut to a variety of shapes and sizes it opens up a whole new world of lighting opportunities.

LED light panels are made up of an 8mm thick sheet of clear acrylic with high brightness LED light strips embedded into a channel at the edge of the acrylic. To ensure the optimum distribution and output of light, the face of the acrylic is etched with a series of vertical and horizontal lines creating a uniform grid which refracts the LED light outwards towards the observer. To increase the light output even more, a reflective white backing sheet is applied to the rear of the panel to ensure all available light is reflected out of the face of the panel. The etched grid on the face coupled with the reflective backing on the rear of the LED lighting panel offers the brightest and most even light possible from the surface of the light panel.

The LED light panels also offer energy efficient lighting as the high brightness LEDs are powered by a low energy consumption 12 volt DC supply, with simple and smart electrical inverters and connectors. The light panels are low maintenance as they are made with high quality durable components which ensure the longest lifespan possible, estimated to be over 70,000 hours long.



To ensure the longevity of the LEDs, it is essential that they are thermally managed. The heat generated by the LEDs is controlled by a special heat sink that is fitted to the rear side of the panel; the heat sink is an angled strip of metal which dissipates the heat away from the LEDs. The heat sink is held in place, along with other components, with a waterproof tape to weather seal the light panel. This white tape not only protects against dust and moisture, but it also has heat dispersal properties to assist with the thermal management.

As well as being available in various shapes and sizes the LED light panel can be supplied with various LED colour temperatures or even with RGB colour changing LEDs. Light panels with RGB colour changing LEDs can be supplied with a DMX controller to manage the colour changing and the sequencing. The LED light panels can also be supplied with a dimmable controller unit to allow the user complete control of the brightness of the lighting for the perfect ambience.

