

LED Slim Light Box Technology

Highest Quality LED's

Unlike many other products on the market, the LED Slim Light Box uses high quality LED's that produce maximum LUX and minimal degradation over time. A 24"x36" Light Box typically produces an incredible LUX of 2400 to 2500, and even after running 24/7 for an entire year, it will still retain almost 90% of its brightness. Add the fact that the LED's are designed to run 24/7 for a minimum of 50,000 hrs (are likely to last up to 100,000), you know you are getting the best quality and most reliable product on the market.

Proprietary Diffusion Patterns

The LED Slim Light Box is designed to provide an even glow throughout the entire panel. There is a delicate balance when designing the etching pattern so you don't create hot or cold spots and you get good even color in the center. A truly effective diffusion pattern is spaced farther out at the edges (closest to the bulbs) and is tighter at the center where more surface area needs to get light. A true light diffusion pattern will not be "uniform", but will be an irregular pattern calculated by algorithms that take into consideration the area of the panel, the distance between lamps, the thickness of the acrylic, and the wattage of the lamps. Most of these algorithms and techniques are patented.

Details Matter

Two commonly overlooked details that make a substantial difference in quality and usability are the power supply and cord length. LED lamps can be very sensitive to irregularities and variations found in voltage, so a good power supply must regulate voltage to a very tight tolerance. If the voltage varies too much, the life of the LED lamp can be severely diminished and/or in extreme cases can cause damage to the lamp. The LED Slim Light Box uses top of the line power supplies that are UL and CE compliant. Additionally, we understand that the power isn't always right where you need it, that is why we equipped the power supply with a durable 16' long power cord.

TECHNICAL SPECIFICATIONS

Frame

Thickness	Single Sided: 20mm Double Sided: 30mm
Corner Finish	Radius
Surface Color	Anodized Silver or Black
Cover open/close	Snap open
Mounting methods	Wall Hangers, Single Point Connector, and Clamps

LED Strip

Type	3 Chip or 4 Chip High Intensity LED
Color Temperature	Approximately 6500°K (Pure White range)
Interval	16.66mm (24 LED per 400mm)
Rated Voltage	D.C. 24Volts (Typical)
Power consumption	12 or 16 watts per one meter of LED strip
Connecting wire	20 AWG, electric wire for interconnecting of both LED strips

Acrylic Panel

Diffusion Pattern	Proprietary CNC V-Cut
Thickness	6.0mm thickness 8.0mm thickness over 1200mm x 2400mm size
Reflecting sheet	High quality reflection
Cover plate	1.0mm Poly-Carbonate graphic cover

Power Supply

D.C. Power supply	UL listed, Input : Free volt / Output - D.C. 24 volt
A.C. Plug	UL standard A.C. Plug
Connection	Male plug on power supply Female socket on LGP side
D.C. Jack	5.5mm x 2.1mm x 9mm, Center plus (+)
Lead wire	Cable with female jack on the light panel