

LED Edge-lit & Backlit Solutions



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About Us

- LEDSTORE is established in 1996 and Taiwan-based LEDYoung Technology Group.
- More than **21 years** in LED backlight industry, the group has various products ranging from **LED Light Guide Panels, LED Light Boxes, Edge-lit Signage** to **LED Dot-matrix Displays, Channel Letter Modules, and General Lighting Products.**
- With headquarter and R&D team in Taiwan, the group has **two manufacturing facilities** in China and the third factory in Vietnam.
- Working with LEDs for decades, we have the capability in-house to select the LED bin grade to produce the **Quality of Light.**



About Us



LEDYoung Technology
Taiwan Headquarter

Quality



1997



2003



2005



2008



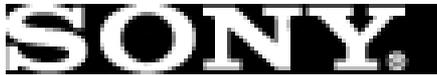
2008

QC080000:2005

- **UL UYMR2 & UYMR8** (# E341676) for Sign Accessories in 2011
- **UL UXYT** (# E351307) for Electric Sign in 2011
- **UL VZQC2** (#E310904) for LED Sub-Assembly in 2007
- **UL IEZR7** (#E315644) for Luminaries in 2007
- 100% Burn-In Tests before shipping

Recognized Value

- We enjoy long-term relationship to the following industry leaders:



** Logos are the property of respective owners and displayed to indicate existing customer base*

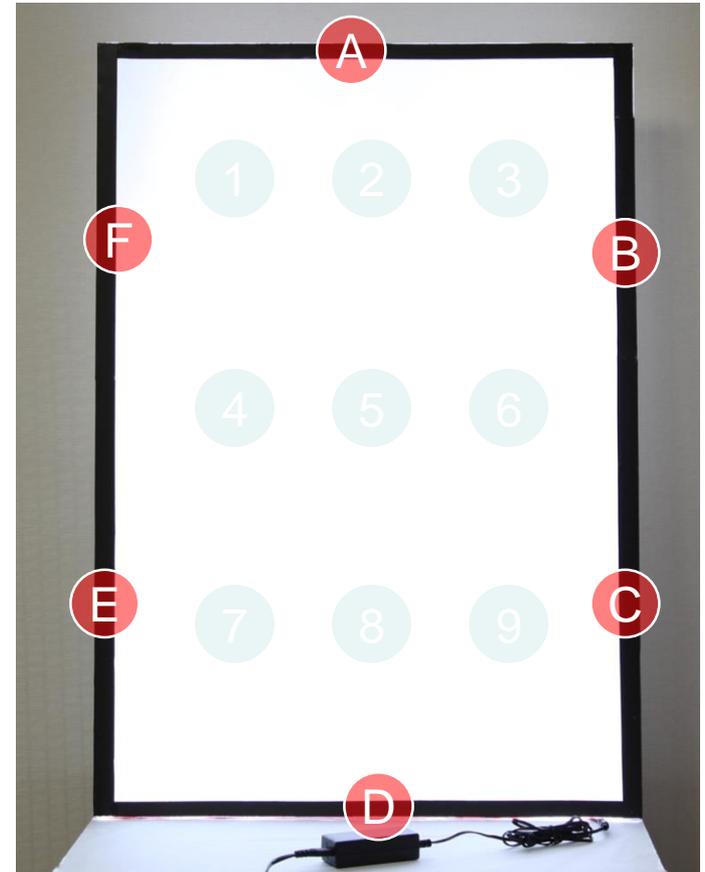
Manufacturing Strength

- **R&D Team** in Taiwan centralizes prototype design, vertical system integration, quality control, and mass production road map.
- Manufacturing Facilities continuously improve **cycle time** and increase **yields**, deriving cost reduction.
- **Volume Procurement** of raw materials allows competitive price structure.
- In-house Capability, Sophisticated **Reliability Lab and Photometric I Lab** provides timely and reliable analysis.
- Constant **Product Development** advances along with performance of LEDs components.

Light Guide Panel

Engineering Quality of Light

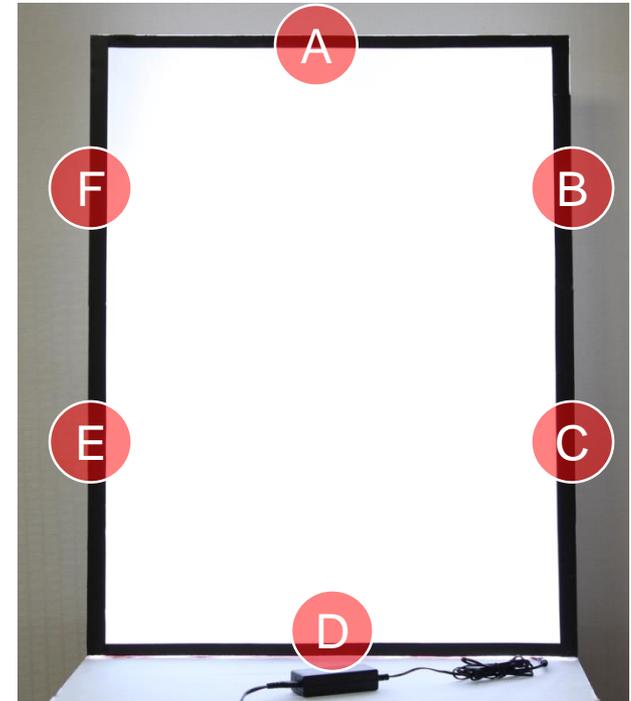
- Thermal Management
- Our Structure
- Quality of Light
 - Evenness
85% exceeding industry standards
 - Brightness
Max. 12000 Lux
- Shapes, Colors & Double-Sided



Light Guide Panel

Thermal Management

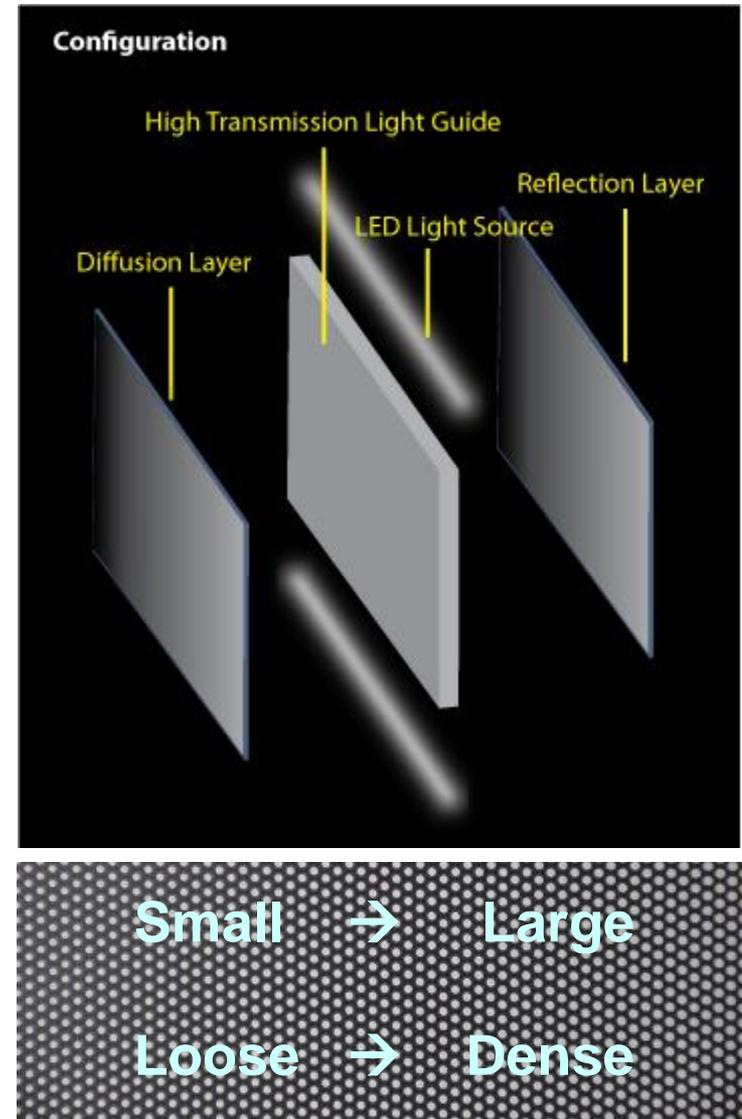
- Life time of the LGP relies upon:
 - a. Driving Current
 - b. Driving Voltage
 - c. Thermal Distribution
- Multi-points Tracking System:
 - Track 12 points at the same time
 - Any point on light strips with lower voltage will allow higher current to pass through, which creates imbalanced thermal distribution and make LEDs die easily.



Light Guide Panel

Our Structure

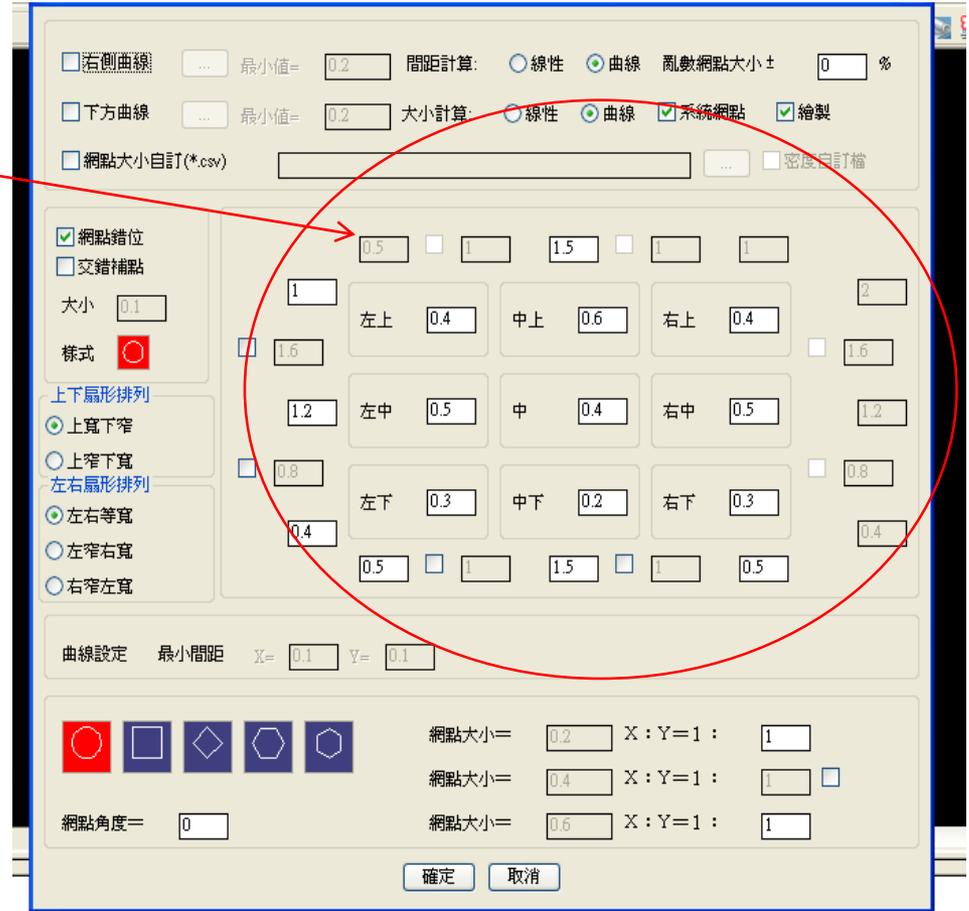
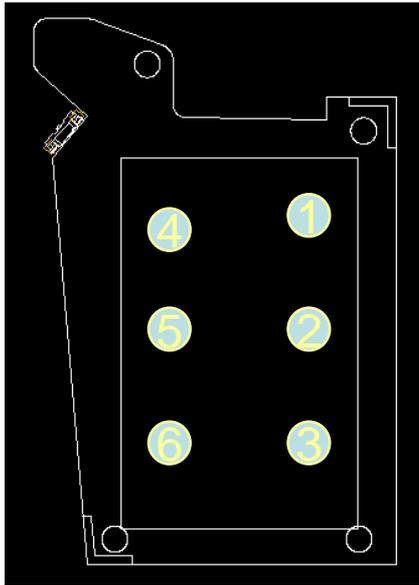
- Optically-refined Dot Pattern
- Silk-screening Process
 - Higher Yield Rate, More Cost Effective and Better Uniformity compared to V-cutting
- PMMA Optical Grade Acrylic
 - Max. 4ft x 8ft
 - Thickness 3, 4, 6, 8mm
- Experiences & Expertise:
 - self-developed Optical Design Software composed of 20000+ dimensions and patterns



Light Guide Panel

Quality of Light

Divide light panel into 16 or more areas with design software.



Light Guide Panel

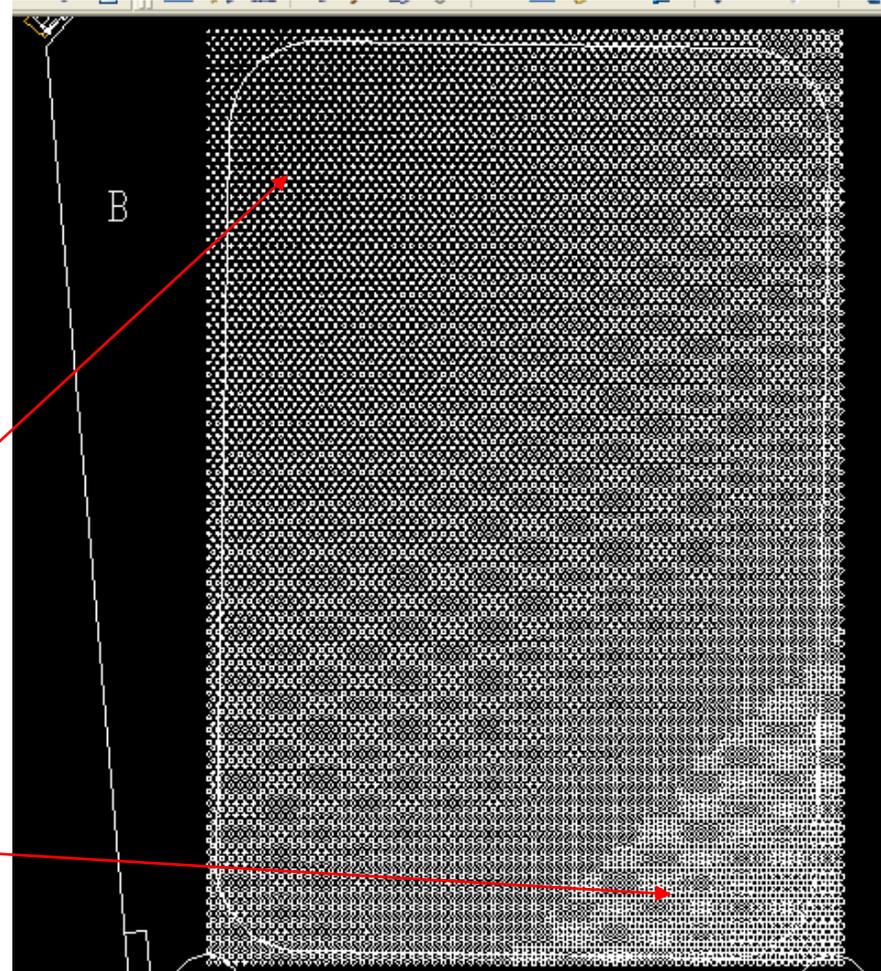
Quality of Light

Our Dot Pattern for every size or shape is different!

We don't buy acrylic sheets with dot patterns; we design our own. That's how you get quality of light.

Lower density

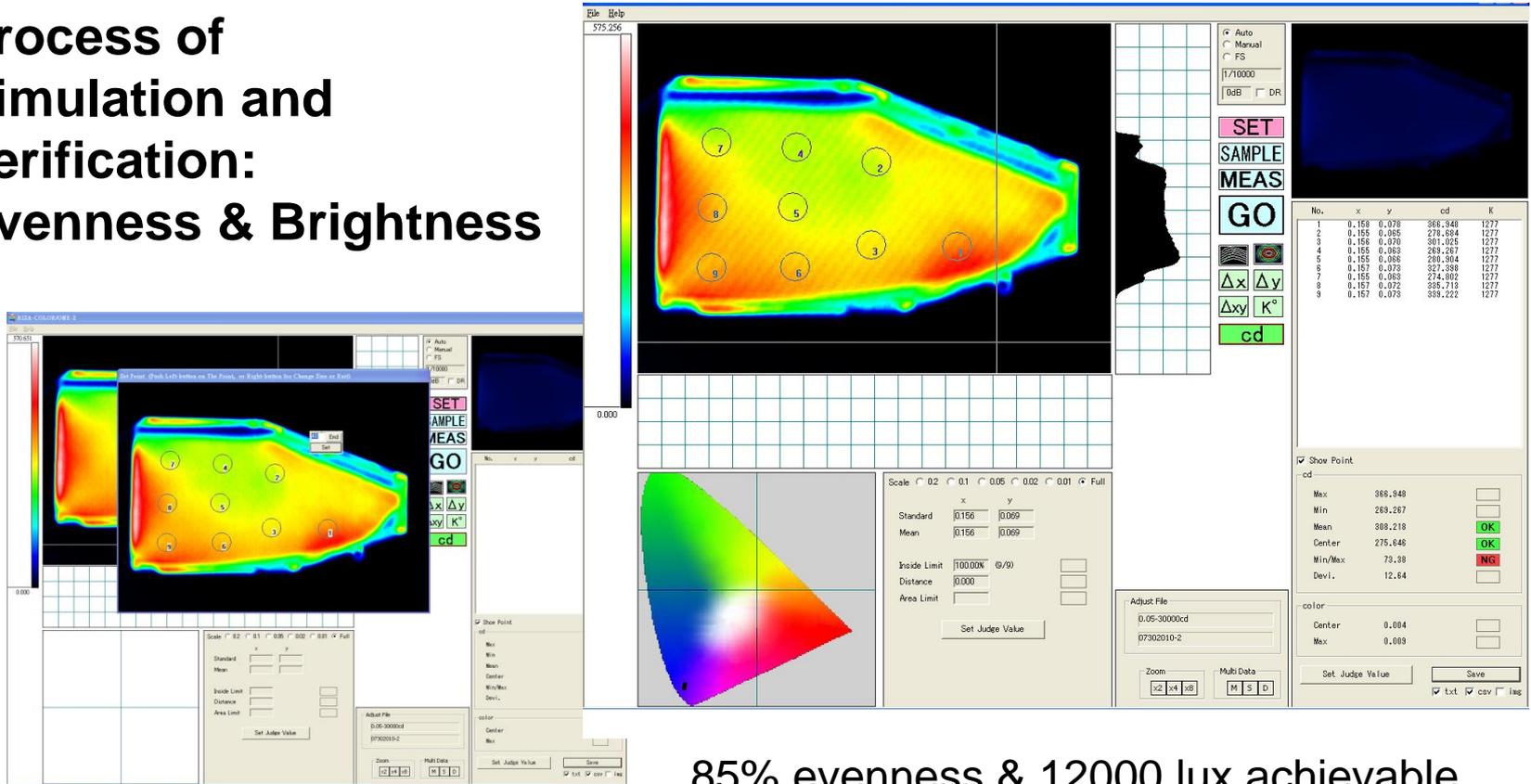
Higher density



Light Guide Panel

Quality of Light

Process of Simulation and Verification:
Evenness & Brightness



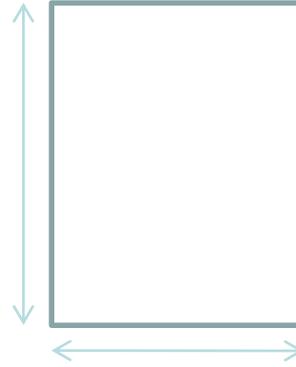
85% evenness & 12000 lux achievable

Light Guide Panel

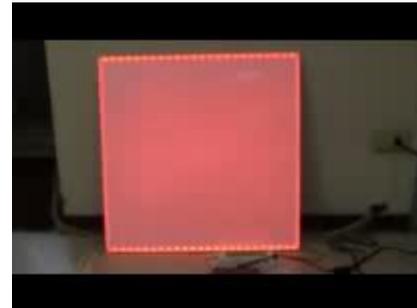
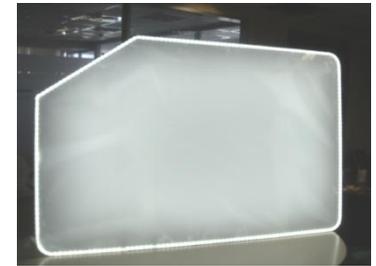
Customization

- Sizes
- Shapes
- Colors
 - White 2700K – 12000K
 - R/G/B/Y/O
- RGB Changing Color
- Double-sided
- Holes Drilling
- Mounting Mechanism

Max.
8ft



Max.4f
t



Applications

Light Boxes / Sign Cabinet



26" x 120"

made by 7-standard-sizes
iFIT Light Panels (2" from
graphics)



200 cm x 300 cm
connecting 4 pcs
150 cm x 100 cm
light-guide panels
(15cm from
graphics)



**48"x48" & Center Oval
Logo**

Applications

Store Displays / Fixtures / Point of Purchase



Shelf Unit:
Logo Imprint on surface
for great brand i.d.



Applications

Any Panel Illumination

- Interior Design
- ATM / Vending
- Menu Boards
- Portable Media Player
- Large Screen TV, Laptop



Applications

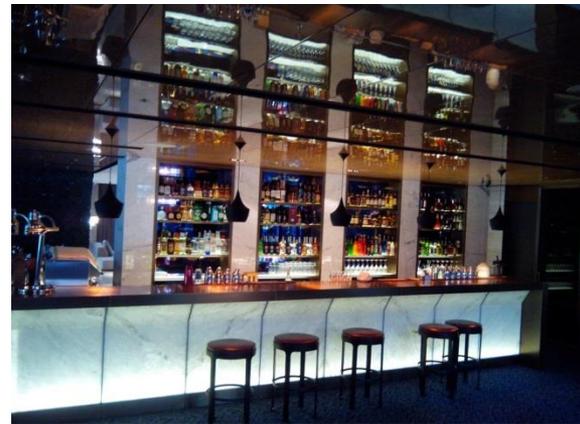
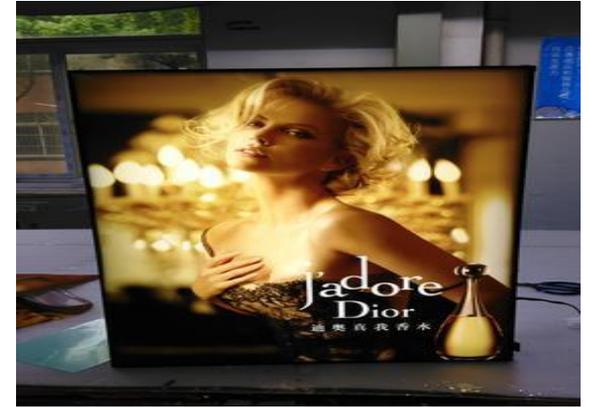
Custom Illuminated Sign



7 Segment Display integrated in LGP



Actual portfolio



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