



Custom LED-Based Edge-Lit Light Guides



glthome.co

We develop custom light guide solutions.

Global Lighting Technologies engineers and manufactures custom light guides that unlock new market opportunities for innovative companies worldwide.

With a seamless, global process that spans the U.S. and Asia, we deliver quality lighting solutions that suit complex client requirements.

Founded in 2000, GLT offers the world's most efficient LED-based edge lighting. We utilize industry leading light extraction technologies combined with high volume, cost efficient manufacturing processes to provide the thinnest, most efficient, and cost-effective light guide solutions.



1. Discover

Taking the time to understand our customers' needs and provide samples



2. Design

Offering both custom designs and improvements to existing illumination



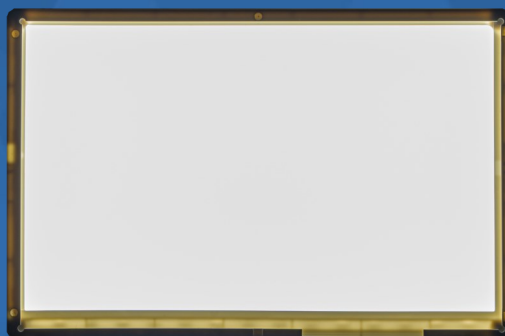
3. Prototype

Helping our customers see and judge real results before final builds



4. Manufacture

Mass-producing in quantities of thousands to millions



LCD Backlighting

GLT modules can include LEDs, films, PCBAs, FPCAs, housings, connectors, and light

Applications include:

- LCD TVs
- Tablet and notebook computers
- Phones
- Wearable devices
- Automotive
- Home automation
- Instrumentation and controllers

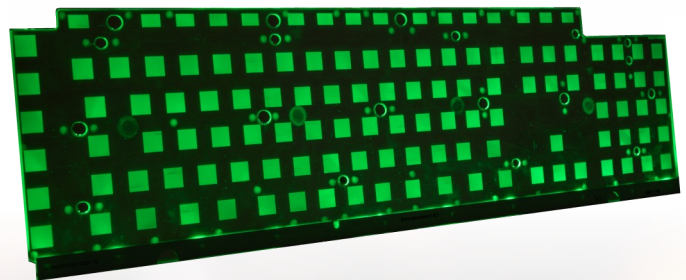


Keyboards & Keypad Illumination

GLT offers light guides that can be utilized with membrane and keycap-based

Applications include:

- Notebook computers
- Desktop computers
- Security keypads
- Handheld devices





Touch Panel, Decorative, and Graphic Illumination

GLT can supply light guides thin enough to use within a touch sensor-based assembly as well as custom shapes and designs for decorative and graphic illumination.

Applications include:

- White goods
- Automotive
- Medical devices
- Logos
- Graphic icons
- Consumer electronic devices

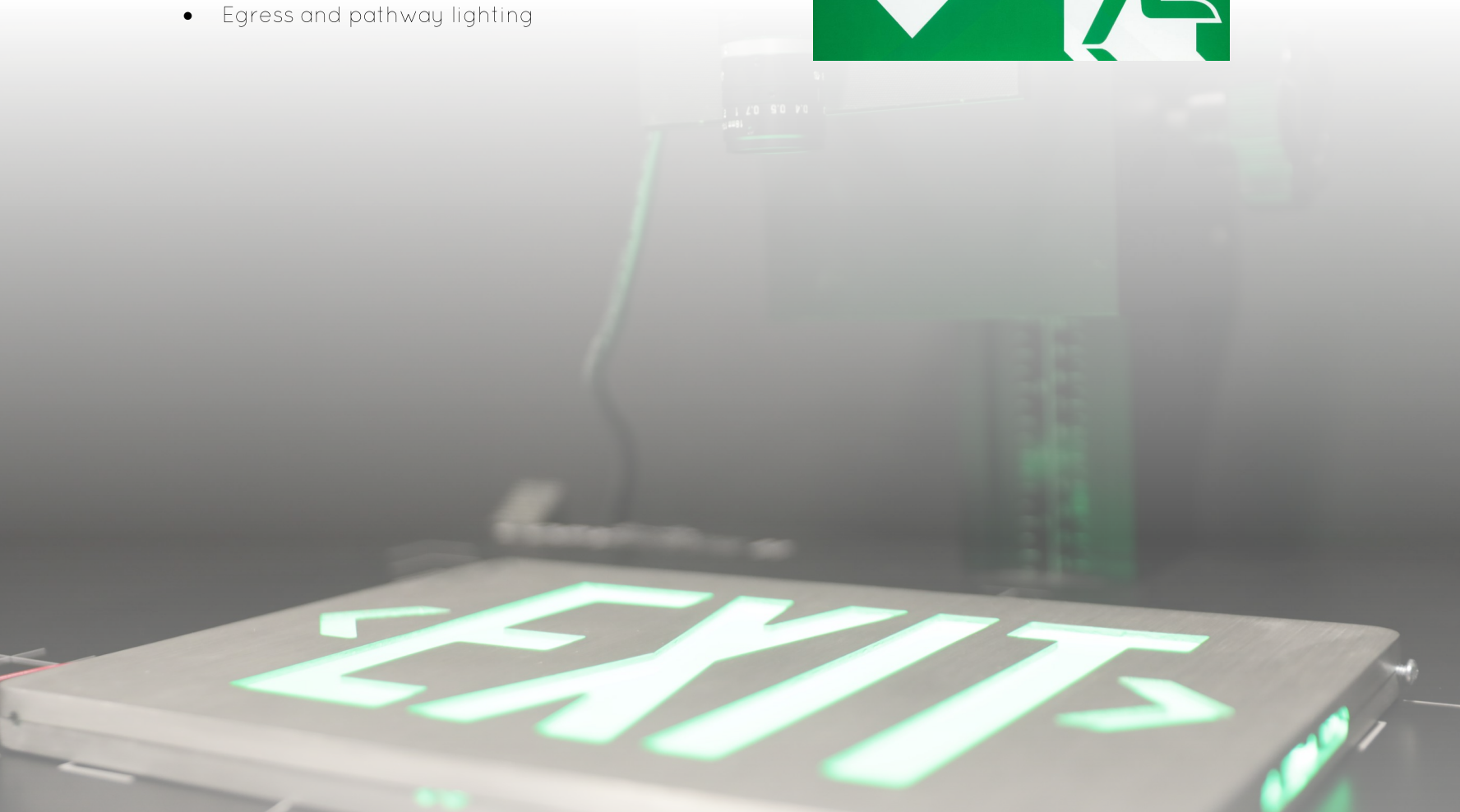


Egress & Exit Sign Illumination

GLT light guides are the perfect illumination component to create thin and uniform lighting of exit signs and all manners of egress.

Applications include:

- Wall mounted exit signs
- Dual sided illuminated exit signs
- Egress and pathway lighting



Manufacturing Capabilities

Injection Molding

This primary process of light guide production utilizes an insert containing the optical extraction pattern within the mold to create the custom designed light

Processes include:

- 3D features and complex shapes
- Small to medium size products
- PC and PMMA materials
- Curved structures



Roll to Roll Embossing

Production begins with a thin PC film which is then embossed with custom light extraction pattern. The film is then die cut to final size.

Processes include:

- Serration structure available on edges
- No internal stress (compared to injection)
- High production capacity



Extruded Embossing

This process of light guide production includes custom extrusion creating the light guide profile and thickness which is then embossed with the custom light extraction pattern. Thin film products utilize PC while thicker panels are

Processes include:

- Large sizes using PMMA/MS/PS
- Thin production using PC with taper option
- Serration structure available on edges
- No internal stress (compared to



Prototyping

GLT has developed methods to create prototypes that meet our customers' development needs.

Processes include:

- Laser cutting of materials and films
- 3D printing of materials
- Prototype injection mold tooling
- Machined light guide samples
- PCBA and FPCAs





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Zhongshan China



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Tongluo Taiwan



Suzhou China



Shanghai China



Zhongli Taiwan

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