

# The function of the light guide bar light source module



## Overview

Through the light diffusion structures on the incidence surface of the light guide bar and the full-reflection action of the light inside the light guide bar, the light guide bar can provide illumination with uniform brightness; and moreover, the utilization rate of. Through the light diffusion structures on the incidence surface of the light guide bar and the full-reflection action of the light inside the light guide bar, the light guide bar can provide illumination with uniform brightness; and moreover, the utilization rate of. The invention discloses a light guide bar and a light source module adopting the same. On a cross-sectional plane of the light guiding bar, there is a first line interval on the upper surface. A second line interval, a third line interval and a. Modern light guides are used for the transportation of light signals from a circuit-board-mounted LED via a particular route to a defined light-emitting surface, with minimal loss and blurring effect. They are used to illuminate areas that are too small or too hazardous to permit the installation of a light bulb.



## Article Content

Jul 21, 2025

How Light Guide Plates Work in Laptops, Monitors, and TV Backlight ...

Discover how light guide plates are used in laptop, monitor, and TV screen assembly and repair. Learn about the working principle, optical features, and benefits of high-transmittance acrylic ...

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Structure of Bar-Like Side-Emitting Light Guide and Planar Light Source ...

The bar-like side-emitting light guide in the present invention changes a direction-pointing light source into a side-emitting the light source suitable for serving as the light mixing module of a large LED ...

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Light Guides Selection Guide: Types, Features, Applications

Fiber optic light guides are less flexible than liquid light guides, but are well-suited for the transmission of light in the visible and near-infrared range. Liquid light guides have little luminous loss over distance ...

Sep 14, 2025

US20120300498A1

The light source module includes a light source and the light guide element, wherein light emitted by the light source is guided toward the display panel by the light guide element.

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Light Pipe Design Guide | VCC

For designs that require multiple indicators, light pipes are an ideal solution due to their low cost, excellent visual communication, and design flexibility. Light pipes offer many advantages in efficiently ...

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Light guide column technology

After the LED light source is fully reflected and converged through the light guide element, the cut-off line of light and dark is imaged in the front position through LENS. Because of the simple structure, it can ...

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Structure of bar-like side-emitting light guide and planar light source ...

Accordingly, at least one objective of the present invention is to provide a bar-like side-emitting light guide that can effectively guide at least a portion of the light from a light emitting body to one side ...

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LED Light Guides

Light guides are also known as light mixing rods, pipes or integrators. They are designed for any application that requires the homogenization of a light beam and therefore can be commonly found in ...

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Light guide bar and light source module

The invention discloses a light guide bar and a light source module adopting the same.

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Unlocking LCD Brilliance: The Science Of Light Guide ...

The PMMA light guide plate constructs an optical “trap” that allows the light entering it to be efficiently transmitted within the plate through continuous total reflection, ...

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What Is a Light Guide and How Does It Work? | Keysight

A light guide can channel light to places where it's difficult or impossible to put the light source itself. For example, you can use a light guide to separate a light source from an extreme environment, or to ...

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Lightguides

Light guides for front assembly are standard and deliverable in a great variety of versions. They are available as options with straight or diagonal inject face surface and thus enable horizontal or vertical ...

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What is a Light Guide? | Global Lighting Technologies

Light guides are designed to guide and control the propagation of light, ensuring it reaches its intended destination with minimal loss or dispersion. Now that the question, “What is a ...

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The Comprehensive Guide to Light Guide Plate Module ...

Its primary function is to propagate light from edge-mounted LEDs across its entire surface area and extract it uniformly toward the LCD panel.

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Introduction to the structure of LCD display backlight ...

LCD display backlight module is an important component of LCD display. It's mainly used to provide light for the LCD panel, and usually contains a ...

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