Automotive Lighting

Exterior and interior applications
SCHOTT lighting applications

Esthetics and functionality: SCHOTT combines the best of both worlds.

Automotive exterior lighting
Light shifts existing boundaries – also on the outside! With our solutions for exterior lighting, our customers experience complete freedom of creativity. Our external SideLight creates outstanding light effects for contour or accent illumination. Our sleek fiber optic light guides, powered by an LED or Laser light source, guide light flexibly and distribute it evenly along the entire length. And allow you to create stunning effects.

Automotive interior lighting
Light stimulates the senses! The interior of the future provides lighting designs for increased individualization, physiological well-being and functional car-to-passenger communication. To make the time you spend as safe and pleasant as possible, SCHOTT has developed a variety of lighting solutions that will turn driving into an on-board experience and enhance your brand recognition.

SCHOTT SideLight solutions illuminate, for instance, the exterior running board (top) or interior door and instrument panels (bottom) of international brands.

Let’s shape the future of automotive illumination
Tomorrow’s autonomous cars will present us with new challenges. The role of automotive lighting will undergo big changes. In the past, lighting was adapted to vehicles to assist drivers’ perception and light their way. In the future, lighting will become an increasing means of communication and guide the car’s interaction, while also driving user experience.

Future mobility: the advent of autonomous driving
Tomorrow’s mobility concepts will present us with new challenges for interior and exterior lighting designs. The rise of intelligent car-to-x communication triggers the need for more sophisticated, customized automotive lighting. We at SCHOTT are your technology partner for innovative lighting solutions.

Evolving role of light

<table>
<thead>
<tr>
<th>To date</th>
<th>On the rise:</th>
<th>Mid-term:</th>
<th>Long-term:</th>
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<td>Car-to-driver</td>
<td>Car-to-user</td>
<td>Car-to-environment</td>
<td>Car-to-car</td>
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Semi-autonomous and autonomous vehicles

- Functionality: Passenger safety
- Individualization: User experience
- Intelligent communication: Guiding car-human-interaction
- Autonomous communication: Leading communication in (semi)-autonomous mobility
SCHOTT® colored SideLight variant

The colored SideLight contour line is based on special colored sheathing for deliberate individual accents. It allows various day- and night-time designs, has richer, more contrasty colors due to the colored coating, and is highly adaptable to its design environment, an esthetic match for seat fabrics as well as plastic panels.

SCHOTT® LuminaLine concept

In addition to extremely flexible SideLight variants, SCHOTT also offers rigid LuminaLine light guides made of a fiber-glass composite. The interior “soul” of the light guide shines with homogeneous, powerful light. The clad surrounding the soul is extremely strong and resistant to chemical substances as well as heat and moisture.

SCHOTT® SideLight solutions

SCHOTT SideLights emit light extremely homogeneously on the sides over the entire length. They are well-suited to be used directly or indirectly in the edges or to highlight contours. SCHOTT also offers light sources that combine the advantages of modern electronics and fiber optics.

SCHOTT® MultiLight harness

The SCHOTT MultiLight harness combines contour- and spotlights using only one light source. Contour and spotlighting can be easily adjusted to door panels and map pockets, creating an individual and comfortable atmosphere. Combine esthetics with functionality to accomplish your custom design.

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Automotive exterior lighting

Light shifts existing boundaries – also on the outside! With our solutions for exterior lighting, our customers experience complete freedom of creativity. Our external SideLight creates outstanding light effects for contour or accent illumination. Our steel fiber optic light guides, powered by an LED or Laser light source, guide light tightly and distribute it evenly along the entire length. And allow you to create stunning effects.

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Brilliance and flexibility for outstanding design

SCHOTT’s ambient SideLight solution is based on a patented technology using glass fiber optics to master rough environments in automotive lighting applications. Thin and uniform lighting effects can be created even when available space is limited and requires curves and bends.

Aesthetic lighting with superior material characteristics

• 360° radial illumination
  For direct and indirect illumination in seamless day- and night-time designs
• Outstanding bending radii
  For tight curves without hot spots in yet undiscovered areas
• High color stability and homogeneity over length (up to 4 m)
  Uniform lighting and brightness for a premium ambience and long-lasting color stability
• Robust against environmental influences
  Waterproof and robust against UV-light, chemical load and salt
• Integration and maintenance
  Light guides can be compressed up to 15% for easy plug-in display

Our patented SCHOTT® SideLight technology

Enhance your illumination. Choose proven reliability.

Qualified products and reliable technology

SCHOTT light guides are the only fiber optic technology on the market qualified for both exterior and interior lighting applications. Thanks to our patented SideLight technology, we are your partner to enhance brand distinction and bring visibility to your innovations.

SCHOTT’s SideLight solutions consist of a bundle of hair-thin glass optical fibers.

Qualifying SCHOTT® SideLight solutions

Non-SCHOTT solution

Academic lighting with superior material characteristics

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Aesthetic lighting with superior material characteristics

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