



# Automotive Solutions

*Illuminating the Automotive Industry*



## Integrated solutions for automotive lighting and visual ergonomics

*Visualize the effects of light  
from a driver's perspective*

The OPTIS suite of products allow designers, engineers and ergonomists to visualize and quantify interior and exterior automotive lighting, display systems and driver perception in one software solution.

Our unique human eye model, combined with physics-based visual ergonomics and light modeling guarantee that you will see what your customer sees, in any environment, day or night.

Simultaneously optimize the readability of instruments, illuminated controls and onboard displays whilst eliminating annoying or potentially dangerous reflections caused by sun, moon or ambient lighting. Ensure compliance with international lighting standards.

Perform quick and straight-forward reviews of requirements and design modifications throughout your process; from concept demonstration and validation, to production and deployment.

[www.optis-world.com](http://www.optis-world.com)





## INTERIOR LIGHTING

Perform photometric, visual ergonomic and radiometric design and optimization of all systems; clusters, climate controls, radio, GPS, DVDs, mirrors, reading and ambient lighting, IR sensors and cameras.

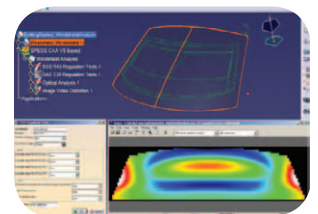
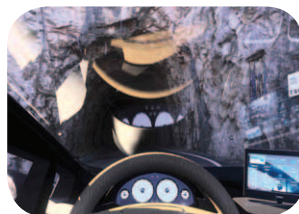
Optimize your system integration, uniformity of color and luminance, reflection on windows and windshields for both lit and unlit systems (gloss trim, air vents, instrument panels...). Incorporate driver and passenger human factors in your ergonomic design.



## EXTERIOR LIGHTING

Photometric and visual ergonomics design and optimization, and regulation compliance of all systems; headlamps (high/low beam, turn signals, night and position functions), fog lamps, tail lamps (turn signals, night/running lamp/reverse functions), plate illumination, emergency lighting.

Ensure functional and aesthetic integration within your design; validate requirements compliance (regulatory and aesthetic), re-engineer to optimize systems.



## WINDSHIELDS

Integrate supplier designs; review deviation, distortion, transmission, color shift and Moiré effects; ensure compliance with SAE Z26 \* UNECE R43; analyze static target imaging in reflection and transmission, and distortion in dynamic mode.