

ANSYS OPTICAL Update in 2020 R1

In this release, ANSYS SPEOS delivers:

- Enhanced realism with a texture mapping feature that reproduces materials properties and behaviors in a dedicated environment
- A new capability that strengthens the connection between SPEOS and CAD, and enables instant geometry updates to boost productivity and accelerate geometry analysis
- Expanded sensor simulation capabilities for greater accuracy of advanced driver-assistance systems (ADAS) and autonomous driving (AD) simulations
- A new lens system importer that protects the intellectual property (IP) of image systems imported into SPEOS
- New design features that account for manufacturing constraints to avoid downstream production issues

In addition, SPEOS Live Preview now supports camera sensors and delivers a live preview of camera-captured raw footage.



ANSYS SPEOS lets you see optical simulation in a new light

Experience light simulation for optical system optimization and validation within a multiphysics environment. SPEOS offers:

An intuitive and comprehensive user interface.

Enhanced productivity with use of GPUs for simulation previews.

Easy access to the ANSYS multiphysics ecosystem.

Easily solve complex optical problems

ANSYS physics-based imaging, photonics and illumination software streamlines the design process, so you can better understand how your product will look and operate under real-world lighting and usage conditions. For example, you can virtually assess the performance of a smart automotive headlight within a dynamic driving scenario, rather than building and testing costly physical prototypes. Whether you are designing a TV screen, street lighting network, smart headlight, head-up display or interior mood lighting in an automobile, ANSYS optical simulation software helps you make your design more efficient and appealing.

Visual appearance for perceived quality

When customers evaluate your products, the overall look and details can make the difference. ANSYS optical software lets you simulate light interactions with materials so you can see how your product will appear in real-world conditions. Create the best “visual signature” for your product using simulation to see “eye to eye” with your customers.

Optical sensors for autonomous vehicles

Optical sensors are the eyes of any intelligent system. ANSYS physics-based simulations can help you assess raw signals from camera and lidar systems in their operating environments. You can post-process the simulated data to optimize sensor layout on vehicles in dynamic driving conditions.

Applications

AUTOMOTIVE INTERIOR LIGHTING

BACKLIGHTING

GENERAL LIGHTING

HUD

AUTOMOTIVE EXTERIOR LIGHTING

VR MARKETING & SALES CONFIGURATOR





