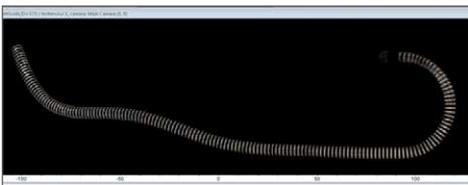
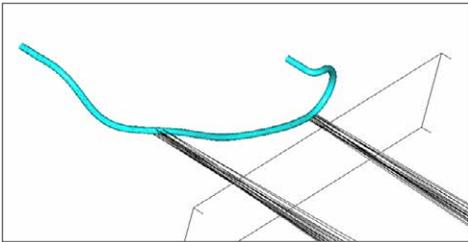


What's New in LucidShape Version 2018.06



Innovative Solutions for the Design of Automotive Exterior Lighting

Synopsys' LucidShape® products provide a complete set of design, simulation and analysis tools for automotive lighting. With dedicated algorithms tailored for automotive applications, LucidShape software facilitates the design of automotive forward, rear, and signal lighting reflectors and lenses. The LucidShape CAA V5 Based product is an interactive tool that allows designers to perform optical simulations and analyses of automotive lighting products within the CATIA V5 environment, as well as build, analyze, and optimize light guides. The LucidDrive® tool provides the ability to perform virtual night-driving simulations that generate realistic lighting scenes in real time, which allows designers to quickly and accurately evaluate beam patterns for exterior automotive lighting applications on the road, traffic signs and surroundings prior to expensive fabrication and testing.

LucidShape Version 2018.06 New Features

Ray History Sensor Integrated with Luminance Camera

The functionality of the Ray History Sensor is now available in the forward Luminance Camera Sensor. This new feature combination allows you to trigger the restoration of rays directly from the UV Data View of the Luminance Camera and to identify the geometric origins and ray history of individual contributions to the luminance image.

Fixed Random Seed Option Added for Simulations

For Monte Carlo ray tracing simulations, it is now possible to set a fixed random seed, which deactivates the randomization of ray creation and interaction. Because of this, as long as you keep the same simulation parameters, the starting conditions for all rays of a simulation remain the same, including random events along the ray path (e.g., scatter, Fresnel reflection). This causes the statistical noise to be the same between two simulations and allows for changes to the lighting model to have a stronger impact with a smaller number of rays.

For more information, please contact Synopsys' Optical Solutions Group at (626) 795-9101, visit www.synopsys.com/optical-solutions/lucidshape.html, or send an e-mail to lucidshapeinfo@synopsys.com.