ANSYS Zemax OpticStudio

Description

OpticStudio is an optical design software that is used to design and analyze optical and lighting systems. This program was written by Mr. Moore and was introduced as the first optical design program for the Windows operating system. The first version of the program was released in 1990 under the name Max, which was later renamed to Zymx. It is used to design and analyze photography systems such as camera lenses as well as lighting systems. The program is based on the detection of rays and optical beams and the modeling of rays through the optical system. You can model various optical elements such as simple lenses, aspheric lenses, mirrors and differential optical elements with the help of this program. It is also possible to produce standard analytical charts such as point and segment X-ray charts. Zemax is also able to model the effect of optical coatings on the surface of components.

A library of commercial lenses is intended for this purpose. The program can perform continuous sequential numerical tracking through optical elements or non-sequential optical tracking for light analysis and physical proton emission. Simex is able to take into account the tolerances and design errors caused by physical limitations or human errors. Simex's optimization tool can improve the design of the lens by minimizing the amount of distortion possible by taking into account the automatic parameters. Zemax has a complete library of types of commercial lenses, optical materials that can be used for optical analysis. This program is able to be used in optical fibers due to the physical optical properties of the devices whose diffraction is very important, such as laser beam and light coupling.

System Requirements

Supported Operating Systems

64-bit Windows operating system required.

Windows 10 Anniversary Update (Version 1607) or higher

Windows 8.1

Windows 7 Service Pack 1

Windows Server 2016

Windows Server 2012 Service Pack 2 or R2

Windows Server 2008 R2 SP1

Minimum Hardware Requirements

64 bit Intel or AMD processor. Multiple core processor recommended for optimal performance

2GB system memory. 2GB per core processor recommended for optimal performance

Graphics card that supports DirectX11 minimum

Disk drive with 2.2GB of free space for initial download and installation.

Minimum display resolution of 1024 x 768 pixels

Internet and email access for program installation, program updates, and technical support

Adobe® Reader for program documentation

Network licensed OpticStudio requires TCP / IP network

Two-button mouse with scroll wheel or equivalent trackpad

.NET framework

OpticStudio requires the latest .NET framework. The installer will download and install the required .NET version for you automatically if online.

Picture