

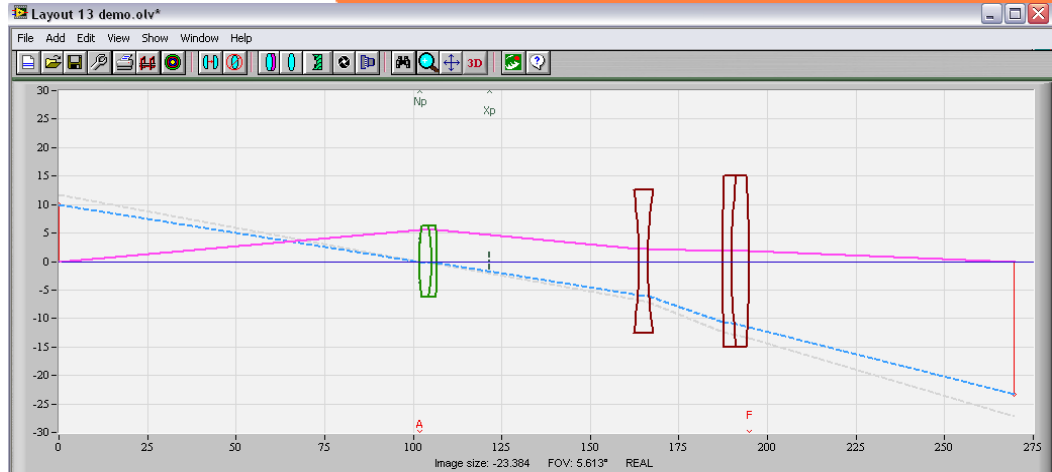


## Optical Layout Software

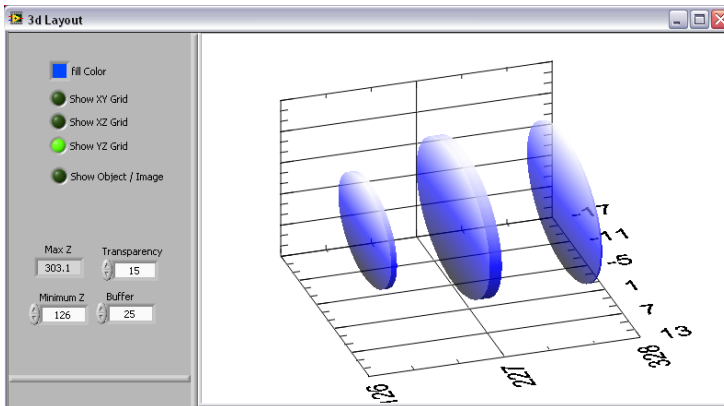
Optical Layout Including Video Elements (OLIVE) is software that aids in designing an optical system by simulating an optical bench on any computer running Windows 2000, XP or Vista.

OLIVE provides an incredibly intuitive and efficient means for Optical System Layout. This one-of-a-kind interface allows you to grab, add and move lenses with a touch of the mouse. When you move lenses, the images and rays trace in real-time, as if you were working with real lenses at an optical bench!

With OLIVE, there is no learning curve and no need to remember how to specify system parameters. System definition is a snap: simply specify an object size and distance OR desired field of view OR desired image size. OLIVE does the rest!



*Re-sizable Layout Area*



*View lenses and layouts in 3D*

You no longer need to have a degree in Optical Engineering to layout a simple optical system. Once you are happy with your first order design, export your system to Zemax(R) or Code V(R) for optimization.

Surface	Item	Z	Y marg.	Y chief	U marg.	U chief	Radius
Object		0.00	0.00	10.00	0.18	-0.14	inf.
1	30229	56.20	9.85	2.00	-0.01	-0.11	32.48
2	30229	59.70	9.82	1.61	0.03	-0.11	18.15
3	30229	70.70	10.13	0.37	0.06	-0.10	-18.15
4 A	30229	74.20	10.35	0.00	-0.10	-0.17	-32.48
5	48328	129.58	4.98	-9.38	-0.05	-0.15	-92.08
6 F	48328	132.08	4.86	-9.75	-0.05	-0.26	92.08
Image		233.43	0.00	-36.58	-0.05	-0.26	inf.

*New floating analysis window*

Do you have a video camera and a need to image an object but do not know which video lens to use? OLIVE allows you to try before you buy. Simply select a sensor and video lens, move the lens so it focuses on your object, then view the expected spot size, chromatic blur and overall system performance.

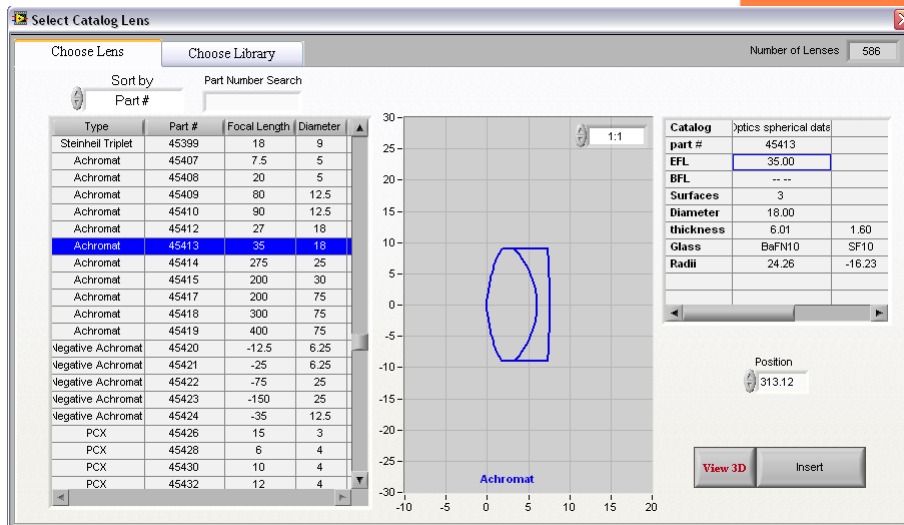
OLIVE allows you to save your designs for later use. You can load a single component or complex lens assembly and perform real-time raytracing from object or image space, calculate chromatic and Seidel aberrations, and identify limiting apertures and field stops. OLIVE provides the ability to view through-focus spots.

This software allows for simple lens and optical system design and visualization. OLIVE can save custom lenses, load and save user designs, calculate aberrations and other system parameters, identify limiting aperture and field stops, provide view-through-focus spots, and trace rays from any spot on the object. It comes with a video lens library, several libraries of the OEM stock lenses, on-axis mirrors and irises and a help file complete with several tutorials.

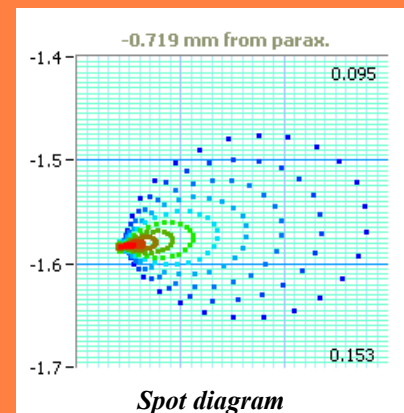


## The latest version of OLIVE includes these features:

- Custom sizing of Development Window
- Undocked and floating Analysis, Control and Element windows
- Improved off-axis Spot Generation Using Exact Raytrace
- Aspheric Elements
- Broader Wavelength Selection
- Scrollable 3D element and layout displays
- Ability to Move Groups of Lenses in Unison
- Open Multiple Layouts Simultaneously
- Zoom and Scroll Option
- Added System parameters
- Ability to Edit Glass Libraries
- Improved display options
- Ability to select the input ray slope angle. This is useful in modeling systems in which a laser beam serves as the input.



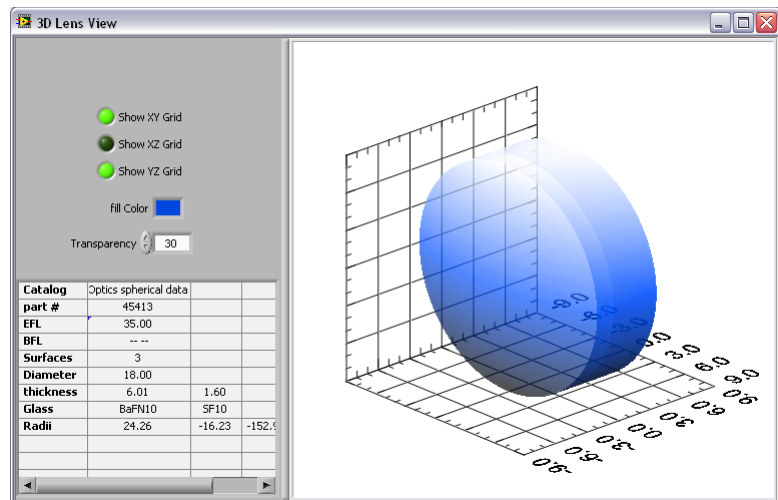
Import Catalog Lenses



For a free demo version, up-to-date drivers & tutorials, and the current vendor lens catalogs, be sure to visit the High Chiva website at:

<http://www.highchiva.com>.

**high chiva systems**



View and rotate elements in 3D