

Service Pack 2: Release Notes

OpticStudio 16 SP2 contains important fixes and enhancements. The Zemax team recommends downloading and using SP2 immediately. Modifications include:

- Several improvements have been made to the ray aiming algorithm to improve robustness for wide angle and aspheric systems.
- The correct index of refraction is now used to calculate the optical path length for extraordinary rays when calculating coherence in non-sequential mode.
- An issue has been corrected whereby rays were shown as transmitted in layouts when a design was converted to multiple Black Box surfaces despite these rays being vignetted in the original design.
- An issue has been corrected whereby rays could be generated outside of the angular range defined by the inputs to the Source Radial object in non-sequential.
- Aliasing checks in the Huygens PSF calculation are more robust.
- An issue has been fixed whereby the phase calculation in the US_BINARY.C sample file was incorrectly scaled by the index of refraction of the surface upon which the DLL was placed.
- An error flag has been added to the System Check Report if the multi-configuration editor contains an SDIA operand for a surface without also containing an MCSD operand for the same surface.
- A spurious warning message was removed about OPD not being able to be calculated for the Geometric MTF vs. Field and Geometric MTF Map analyses.
- An issue has been fixed whereby the coating plots were not showing the correct data for the various faces of a Boolean object in non-sequential mode. This issue had no effect on ray tracing.
- An issue has been corrected whereby the Q-Type Asphere surface could not be optimized if all aspheric coefficients were zero and fixed and the only parameter to be optimized was the radius of curvature of the surface.
- Support has been added to ZOS-API to modify the coordinate return values of Coordinate Break surfaces.
- An issue has been corrected whereby the object references in ZOS-API to the Grid Sag Surface and the Grid Sag Front/Back Lens were switched.

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