OSLO

Optics Software for Layout and Optimization

LAMBDA RESEARCH CORPORATION

Update Guide
Release 7

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INTRODUCTION

Major changes for OSLO 7 include an improved STEP file exporter, improved Zemax importer, improved Code V importer and new licensing using CodeMeter.

In addition, many minor enhancements and bug fixes are included.

WHAT'S NEW IN OSLO 7?

Changes in OSLO 7 compared to the 6.6.x series are summarized as follows:

- Improved STEP file exporter
- Improved Zemax importer
- Improved Code V importer
- New licensing using CodeMeter
- Asymmetric General Asphere and Asymmetric Asphere surface types can now have a base conic

Improved STEP File Exporter

The STEP file exporter in OSLO now supports all surface types. Tilts and decenters are supported, but not within a lens element. For example, wedged elements and prisms, etc., are not supported. All aperture shapes are supported, but only two aperture regions per surface are supported. Aperture region support is limited to one region for an outer boundary (transmitted or reflected) and one region for an inner boundary (pass though or obstruct).

Improved Zemax importer

The Zemax importer has been improved to support more commands. When the Zemax importer encounters an unrecognized or untranslatable command, it will display an informative message in the text window, and continue translating the file.

Improved Code V importer

The Code V importer has been improved to support more commands.

New licensing using CodeMeter

OSLO has been updated to use the CodeMeter USB key made by WIBU-SYSTEMS AG. This consolidates licensing across all Lambda Research software products, and allows different products to share one key.

IMPORTANT: in order to run OSLO 7, you must obtain a new license and USB dongle from Lambda Research Support. Contact support@lambdares.com to obtain your new license and dongle.

Feature Improvements

Asymmetric Aspheres include base conic (OSLO Premium only)

The Asymmetric General Asphere (ASX) and Asymmetric Asphere (abs. value) (AXA) surface types now allow you to specify a base conic in addition to the series of monomial terms. Previously, you could enter a radius in the Lens Data Spreadsheet for these surface types, but the radius value was ignored.

Help > Check for Updates

OSLO can now automatically update when a newer release is available. Whenever you start OSLO, it will check for a more recent release at lambdares.com. If a newer release is available and your support subscription is up to date, you will be prompted to download and install the update. In addition, you can select *Help > Check for Updates* to see if there is an update available.

Help > License

If your OSLO license is unavailable or malfunctioning, the OSLO License Information dialog box will automatically open. You can also open this dialog application by selecting *Help > License* in OSLO or by selecting License Troubleshooter in the OSLO program group in Windows.

Updated glass catalogs

The latest glass data from all major optical glass manufacturers are included in the OSLO glass catalogs in OSLO 7.

IMPORTANT! MERGING OF PRIVATE CCL CODE

OSLO 7 has many changes to ccl code. If you have made changes to ccl files in your private directory, you must merge those changes into a copy of the new ccl files included with OSLO 7, and place those files in your private/ccl directory.

Most of the changes to public ccl consist of renaming constants to make them agree with current names of editions of OSLO and to be more meaningful.