

## OSLO Revision History

### Release 22.2

- New: A Powell lens example has been added.
- Update: The Ohara glass database no longer gives a plotting error.
- Update: Fixed a bug that omitted mirrors in some STEP exports.
- Update: The Help system has been improved.
- Update: The overview Help page has been updated.
- Update: Added comment in the Import/Export Help page about limits on CAD export filenames.
- Update: The Zemax import selection in the user interface has been fixed.
- Update: The CodeV importer has been upgraded to include Qcon imports and how it manages glass interpolation.

### Release 22.1

- New: OSLO will now remind users of subscription expiration 30 days in advance of the need to renew – O1629
- Update: The Ohara glass catalog has been updated.
- Update: Update CodeMeter licensing software to version 7.30a.
- Update: Display message when license file update is required rather than starting troubleshooter.

### Release 21.2

- New: pwf2d capability expanded to 36 fields. Note for higher numbers of field points 5x5 or 6x6 recommended. – 7207
- New: All DLL example files now include solution and project files. The files can be found in ../bin/dll. – 8053
- New: Significant additions have been made to the OSLO Help Overview page to include significant additional user help and resource information including webpage and download links. – 8243
- New: A CDGM Infrared material catalog database has been created and included as a Public glass database. –8248
- Update: Replaced a\_menu.ccl in the Private directory with a copy that only has comments on use. All users should refer to our release guide to ensure they will get interface updates now. – 7233
- Update: Filenames now all open with full name versus truncated versions. – 1511
- Update: The ../Public/Len/demo/Premium/wwcd.len system notes have been corrected to reflect on how the example lens is set up. – 1721
- Update: Double Gauss example lens (see ../Public/Len/demo/Light/dblgauss.len) has had its last element increased to 19.5 mm semi-aperture from 19.0 mm semi-

- aperture. Further, the drawing condition for the FBY 1.0 field has been changed to FY of 1.0 maximum (was FY of 1.1). – 1795
- Update: Diffractive surfaces are now more stable as a specific crash related to units now correctly functions. – 1888
- Update: Made error message clearer when trying to optimize with an error function that has no constraint or non-zero weighted operands assigned. – 2964
- Update: Fixed array dimensioning to correct value in the CCL Global Data Help page. – 3661
- Update: Fixed an issue where files saved in former versions of OSLO always prompted for saving. Now the user will only be asked about saving a modified file if it was really modified. – 7951
- Update: Missing Help page link for DLL fixed. – 8058
- Update: Help pages updated for DLL files updated in this build, including guidance to using the example files for modification or templates in the creating DLLs Help page. – 8062
- Update: Ray failure issue fixed in the Wassermann-Wolf aplanatism Conformal CD Demo Lens. – 8140
- Update: Fixed errors in help page for mkcat command. – 8240
- Update: Broken link fixed in the OSLO Copy Protection Help page. – 8242
- Update: Changed the name of one Help menu item to "Help and Resources" in the default interface found in a\_menu.ccl. To ensure you get interface changes, please review the release guide. – 8243
- Update: Added spot diagram operating conditions back into the default OSLO interface. – 8244
- Update: The CDGM Public glass catalog database has been updated. – 8248

## Release 21.1

- Update: The STEP exporter has improved aspheric surface export capability. – 5930
- Update: PSF2D now correctly executes polychromatic calculation, monochromatic wavelength switching, and printing out the wavelengths in the output graphics window. – 7600
- Update: Improvements made to user communication on boundary violation messages.
- Update: Message on error function reporting of boundary violations in OSLO is no longer abbreviated.
- Update: Change in error message in some cases to more descriptive "Command is currently not available (most common cause is you should close spreadsheets)". – 958
- Update: In program Help page system page outdated information fixed to correctly cite information in the paraxial setup spreadsheet and output commands. – 901

- Update: Addition of reference link to the glass catalog page for thermal coefficient of expansion units in the OSLO Help Overview – Lens Data Entry – Special Surface Data – Surface Controls Help page. – 1070
- Update: Added comment to the in-program Help Page on the Command Line about entering constants or global variables first that have command names. To avoid error messages or argument prompts, use the + operator with the constant (such as +Pi versus Pi). – 1980
- Update: Corrected icon button for damped least squares help page. – 3113
- Update: The status bar help page (OSLO Help Overview – Getting Started – Setup Overview) updated to match the order in the program. – 3113
- Update: The OSLO Help Overview – Programming – Accessing Data – CCL Global Data page had several typos fixed. – 3113
- Update: The OSLO Overview Help page now includes contact information for Lambda Research Corporation, the download URL for all OSLO manuals, and the OSLO support e-mail address. – 3704
- Update: The Help pages for Interferometric files and Zernike Phase surfaces now informs user to consult the Optics Reference Manuals with the goal of correctly citing ISO standards covering Zernike data. – 3820
- Update: The General Conditions in program Help page now includes a comment that afocal mode does not consider the image surface thickness. – 4205
- Update: Amended in-program help to make DLL syntax simpler for users. – 4360
- Update: Radiant Imaging source format files references made consistent throughout in-program Help. – 5415
- Update: Changes made to ISO 10110 page for commands inserted by OSLO that are not formally documented (e.g. ELMTTL, ELMMED, and ELMSF). – 6033
- Update: The rco help page and the coordinates help page have been updated to document how rco changes will almost always automatically keep the succeeding surface(s) in place. – 6460
- Update: Global Explorer Beginner's guide in-program help images restored. Help page title for beginner's guide page changed to "Global Explorer Beginner's Guide" for search differentiation from Global Explorer help page. – 7625
- Update: The Q Type asphere Help page has been improved to include new figures in the page and instructions to avoid error messages. – 7892
- Update: In program Help page updated for deletion of UltraEdit from main toolbar in OSLO 20.2. – 8017
- Update: The Variables help page has been updated to point to the Optics Reference on how boundary violations are calculated.
- Update: Help page for the command line now includes information how to use Alt for keystroke only access to the command history buffer.
- Update: Changed all EDU interface icons to Premium. – 7991
- Update: Fixed an initialization bug where EDU had erroneous icons related to glass availability. – 7992

## Release 20.2

- New: Five new example files are under the folder  
..\public\len\demo\premium\new.
- Update: Fixed force prompt command call consistency bugs with respect to a number of rpt\_ commands (for example "rpt\_tfr ?"). - 3654
- Update: Corrected GRIN dll example file. - 7809
- Update: Corrected a bug with initialization of Background ASA. ASA now functions more consistently between background and foreground operation. - 2166
- Update: OSLO's in-program help system has been updated.
- Update: The OSLO tips file has been updated.
- Update: The Optimax test glass file has been updated.
- Update: Install version 7.8.6 of Notepad++ and install ccl.xml in the folder required by newer releases of Notepad++.
- Update: Remove the UltraEdit option from the menu list and the button in the standard toolbar. NOTE: This requires that the changes in the public a\_menu.ccl be merged into the user's private a\_menu.ccl. - 7857

## Release 20.1

- Update: Fix sign on odd-numbered anamorphic asphere coefficients when the surface is inverted– 7593
- Update: Remove references to OSLO Light and OSLO Standard.
- Update: Update glass data from OHARA
- Update: Fix obsolete glass catalogs; make sure that all recently obsoleted glasses were included, remove obsoleted glasses that were reinstated by the manufacturer, remove duplicate glasses.
- Update: Download the license file when reporting entitled release for a permanent license. The entitled release displayed in Help | License and in the License Troubleshooter will now reflect the latest license information.
- Update: Change the message in the License Troubleshooter when the entitled release can't be determined. Print a message "Could not determine entitled OSLO version." rather than "You are entitled to run OSLO Premium 0.0.0".

## Release 19.3

- Update: Fix crash when the '%' character is substituted into an error message in certain situations. Correctly handle %% in the format string for printf, fprintf, and sprintf when it is followed by one or more substitution strings – 7579
- Update: The regression associated with processing %% in fprintf statements also adversely affected the building of the glass and lens databases, making this release a mandatory update – 7574

## Release 19.2

- Update: Fix regression in release 19.1 that causes Check For Updates to fail and lead to a crash
- Update: Fix regression in release 19.1 associated with processing %% in fprintf statements – 7571, 4271
- Update: Fix user-reported issue with Monte Carlo Tolerancing analysis that led to an exception – 7572

## Release 19.1

- New: OSLO is now a 64-bit application – (x64)
- Update: Allow starting of OSLO using file association to lens file – 7302, 7251
- Update: Add support for non-required program arguments
- Update: Properly launch 64-bit Notepad++ – 7557
- Update: Enable “?” to work from spreadsheet – 7193, 7407
- Update: Fix exception when making qbfs[qtypeasphere] with all aspheric coefficients zero – 7555
- Update: Handle errors from DDE commands when attempted in editions other than premium
- Update: Change the user DLL search order to private\bin; adjacent to public\bin
- Update: Update glass data from OHARA
- Update: Update Hikari glass catalog – includes data from Nikon
- Update: Use Unicode characters for license and early visibility strings in the about dialog – 7305

## Release 7.0.2

- Update: Updated OHARA glass catalog
- Update: General improvements to error handling
- Update: Improvements to Check For Updates
- Update: Update message about saving a file from a different version of OSLO
- Update: Fix basic conversion bug from Unicode to multi-byte characters. This would occur when the user’s name contained characters that must be represented as multiple bytes. An exception was thrown while processing the ini file when starting OSLO. – 7214

## Release 7.0.1

- Update: Fix intermittent crash/exception that would occur when deleting private glasses
- Update: Print the name of the file being compiled by the message string compiler (cst.exe) when the verbose compiler option (vbse) is turned on
- Update: Improve detection of the loss of the active license when OSLO is running
- Update: Fix bug in Check for Updates that would allow the download of a release that was not supported by the license in use. All users running 7.0.0 should update to this release so OSLO can update properly in the future. – 7194

Update: Improve the detection of inconsistent amo files and agreement with current ccl

## **Release 7.0.0**

New: Added “Check For Updates” capability to automatically check for and download newer releases

New: Improved licensing using CodeMeter

Update: Updated glass catalogs

Update: Asymmetric Aspheres include base conic (OSLO Premium only)

Update: Improved STEP File Exporter

Update: Improved ZEMAX importer

Update: Improved Code V importer