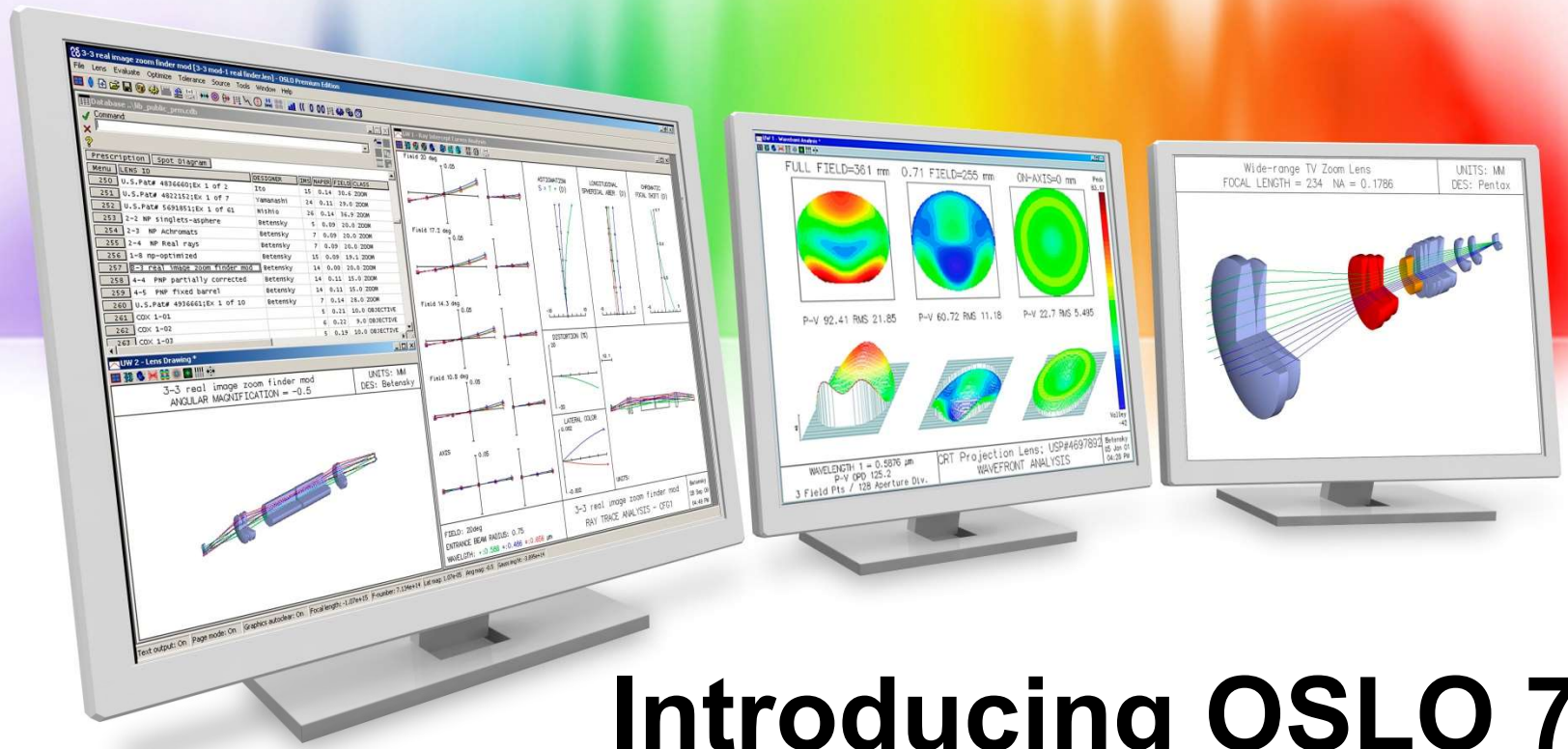
OSLO



Introducing OSLO 7

1/25/2017

LAMBDA RESEARCH CORPORATION

Improvements and New Features in OSLO 7

Improvements in OSLO 7

- Improved STEP File Exporter
- Improved Zemax® /OpticStudio® importer
- Improved Code V® importer
- Feature Improvements
  - Asymmetric Aspheres include base conic (OSLO Premium only)
  - Help > Check for Updates
  - Help > License
  - Updated glass catalogs

New Features in OSLO 7

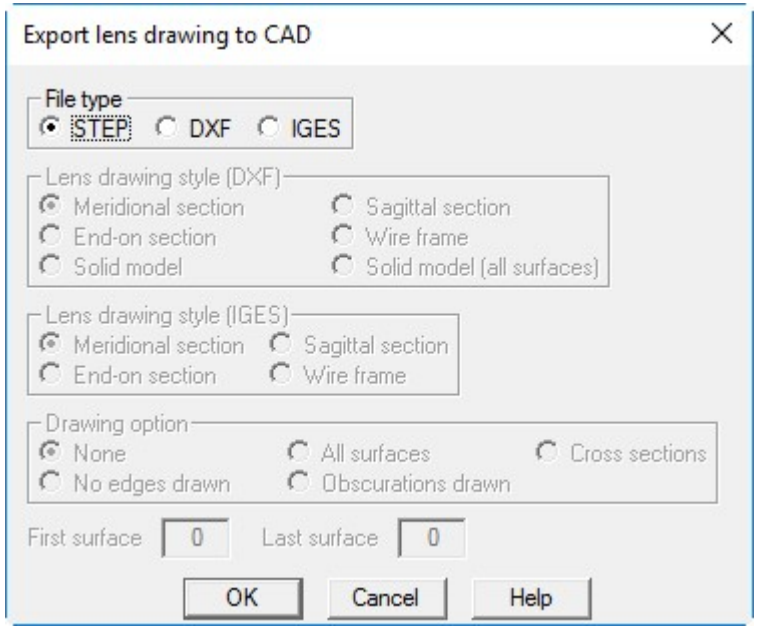
- New licensing using CodeMeter

New Videos for OSLO 7

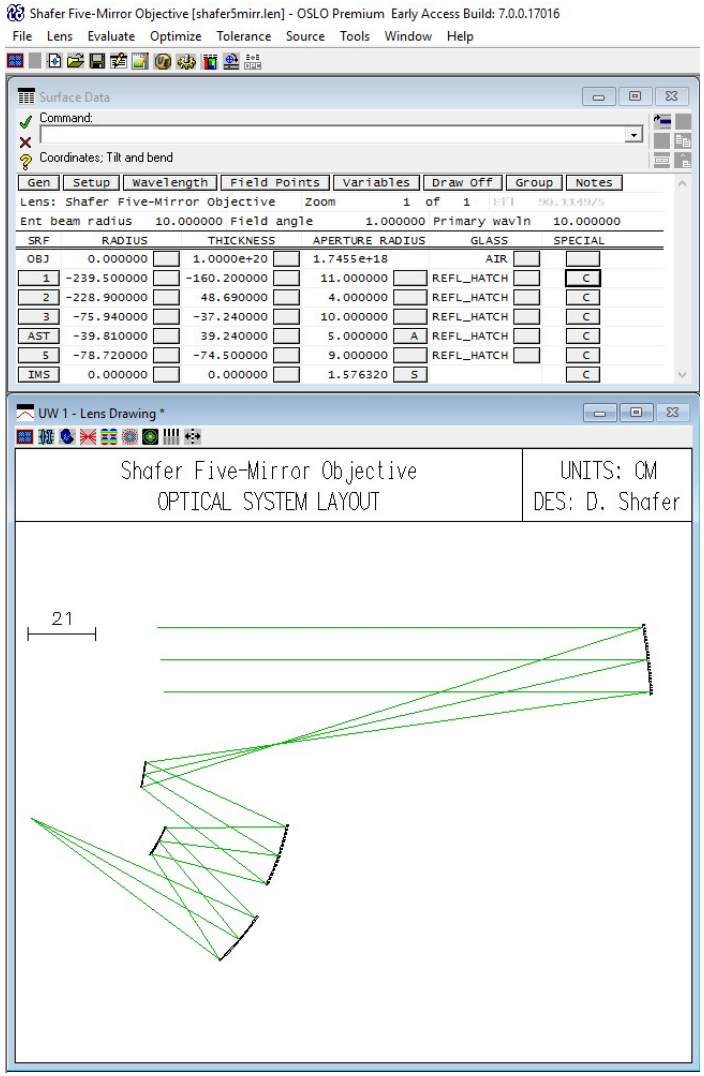
New Examples Page on Website and Updated Manuals

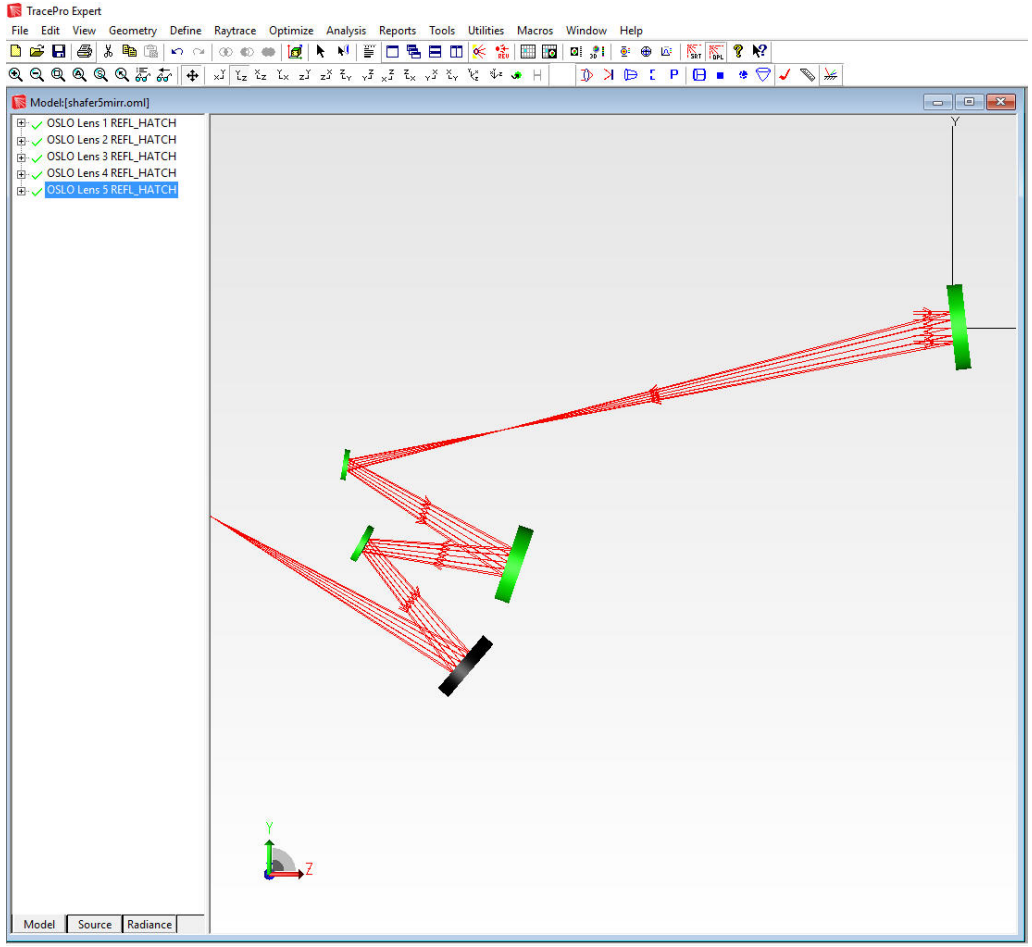
Improved STEP Export

- File→Export Lens to CAD
  - Now Exports Conics, Aspheres, and almost all lens types both for centered and decentered systems



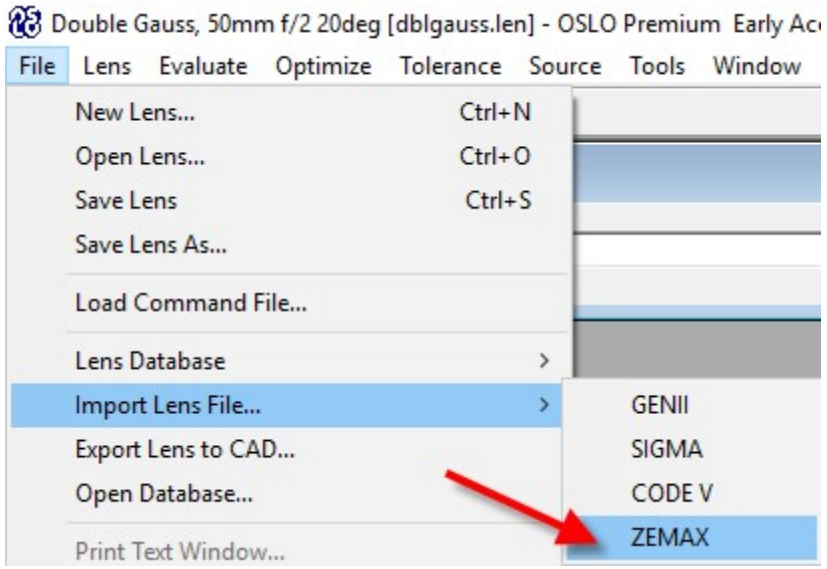
STEP Export from the Shafer 5 Mirror system and then imported into OSLO as a STEP file





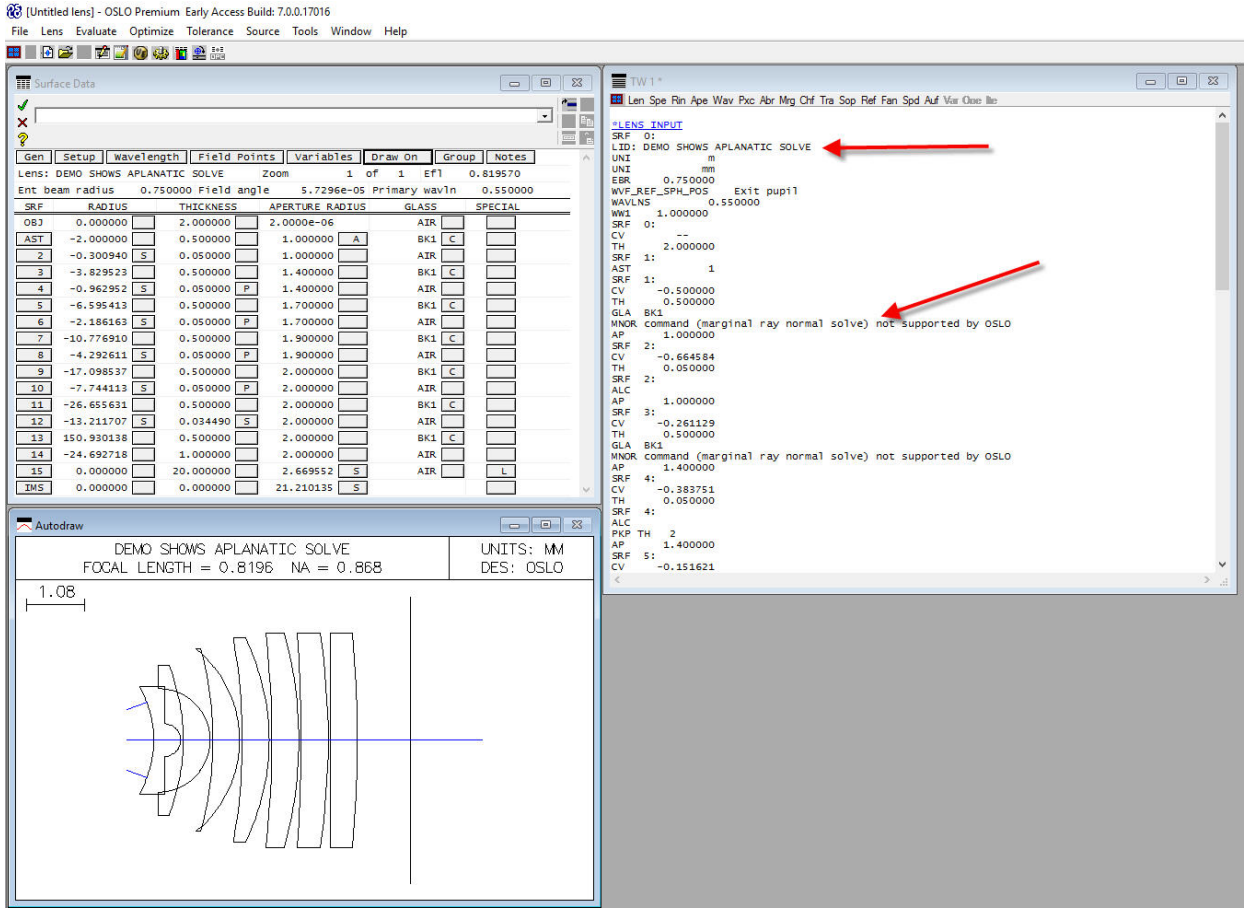
Improved Zemax/OpticStudio Importer

- File→Import Lens File→Zemax
  - Will attempt to import every Zemax commands and will report any problems on import to the text window. Older importer would stop on the first non-recognized command.



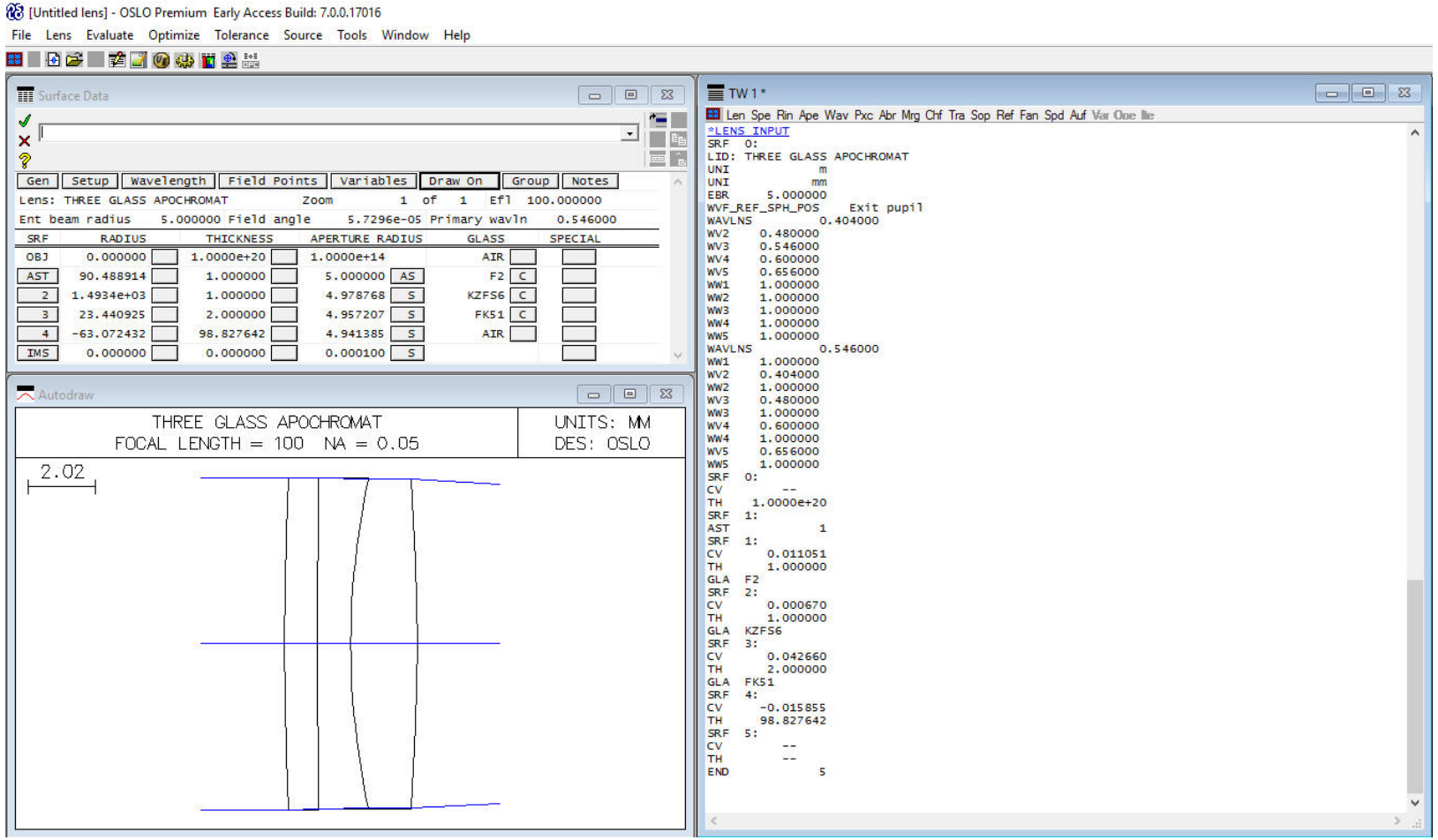
Steps to use Zemax/OpticStudio Importer

- Step 1 – Close the Surface Data Spreadsheet
- Step 2 – File→Import Lens File→Zemax
- Step 3 – Look in the Text window for error Messages
- Step 4 – Check the graphic windows to make sure that all rays passed through the System
- Step 5 – Check that Apertures are set correctly



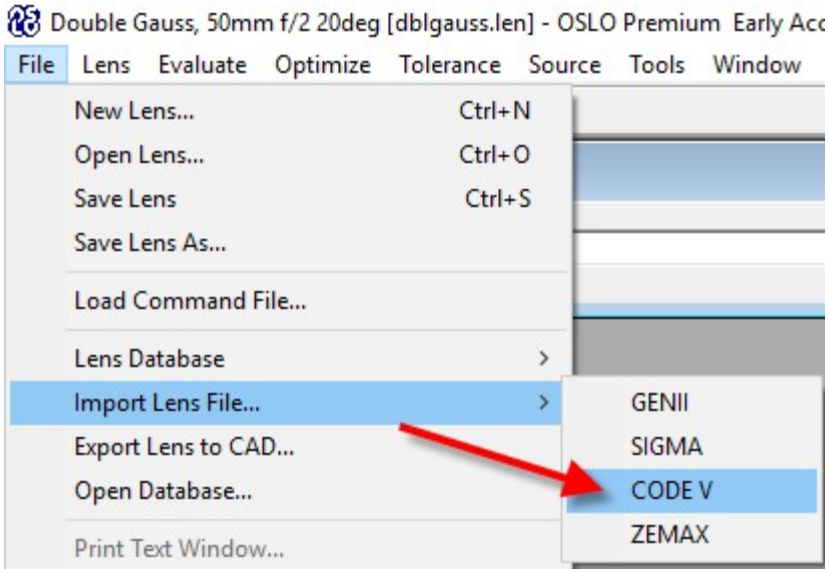
Second Example using Zemax/OpticStudio Importer

- Step 1 – Close the Surface Data Spreadsheet
- Step 2 – File→Import Lens File→Zemax



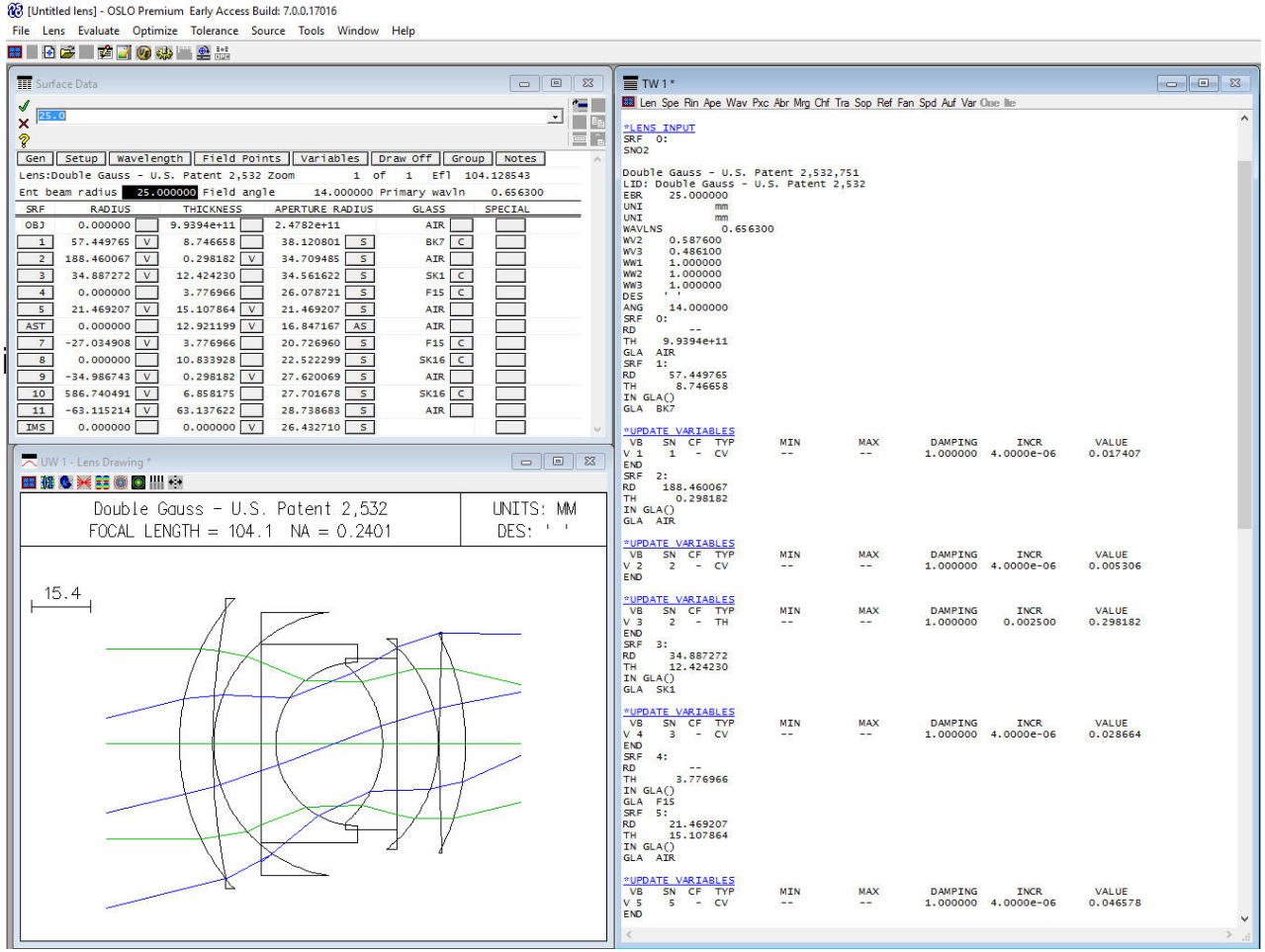
Improved CodeV Importer

- File→Import Lens File→CodeV
  - Will attempt to import every CodeV command and will report any problems on import to the text



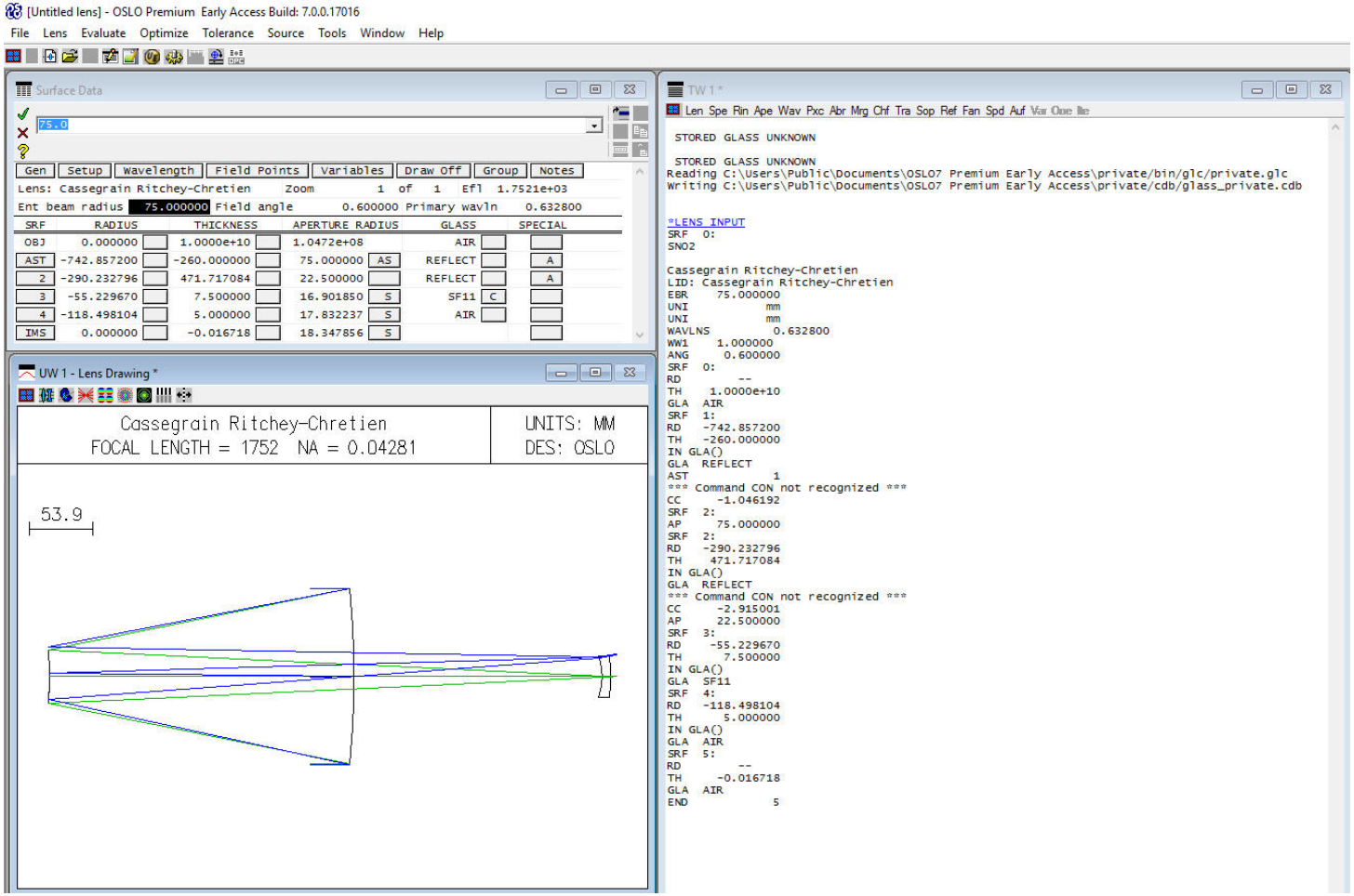
Steps to use CodeV Importer

- Step 1 – Close the Surface Data Spreadsheet
- Step 2 – File→Import Lens File→CodeV
- Step 3 – Look in the Text window for error Messages
- Step 4 – Check the graphi Windows to make sure that all rays passed through the System
- Step 5 – Check that Apertures are set correctly



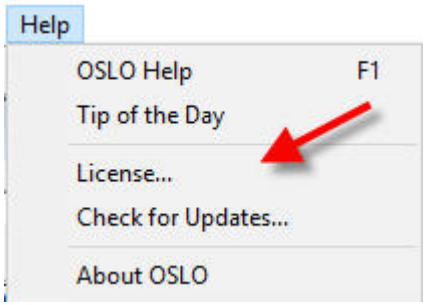
Second Example using CodeV Importer

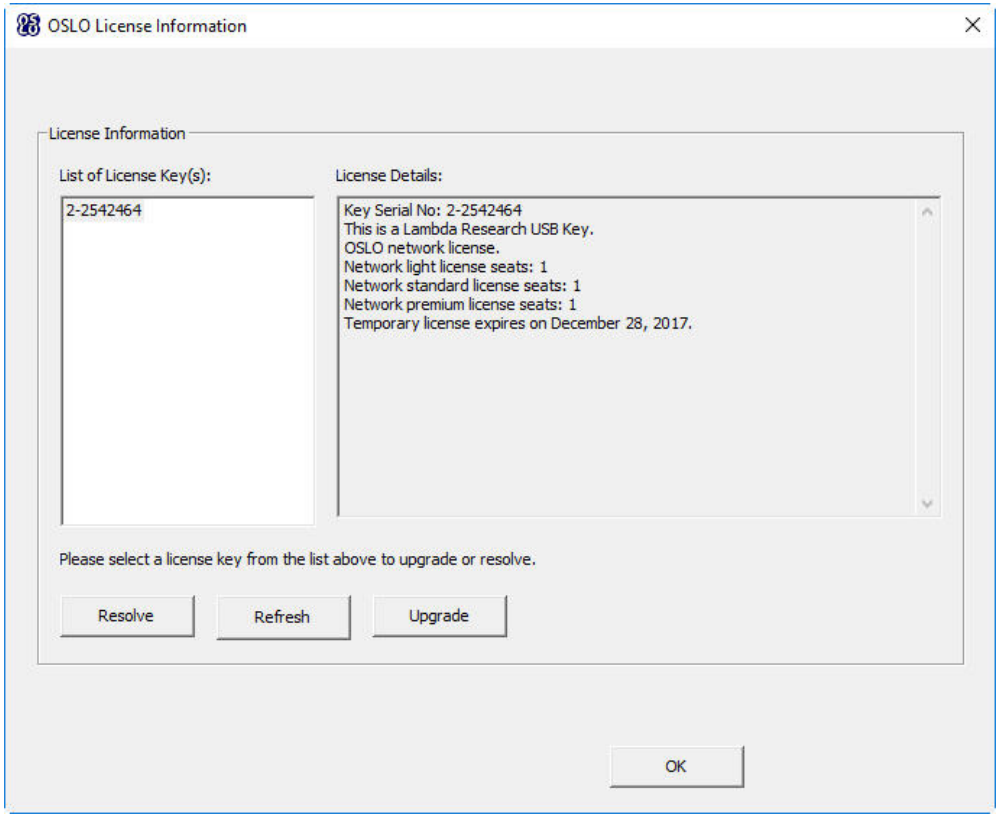
- Step 1 – Close the Surface Data Spreadsheet
- Step 2 – File→Import Lens File→CodeV



Help Improvements – Check for Updates

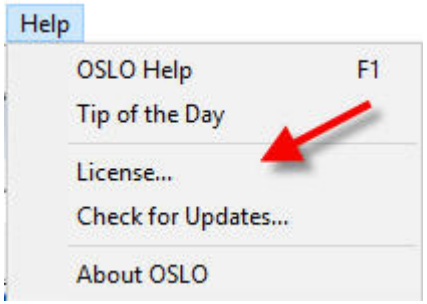
- Help→Check for Updates
  - Shows the license type which is either fixed or network and Key Serial Number
  - Has 3 buttons to Resolve, Refresh or Upgrade the license

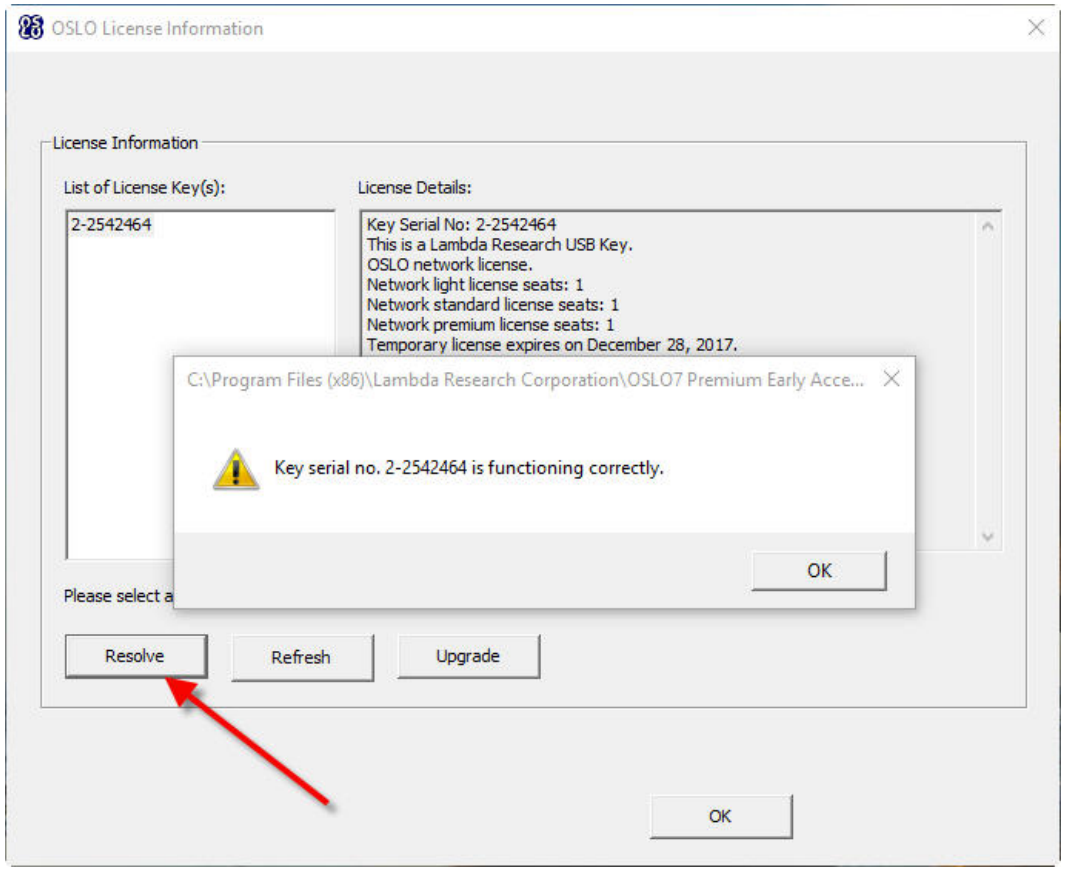




Help Improvements in Check for Updates - Resolve

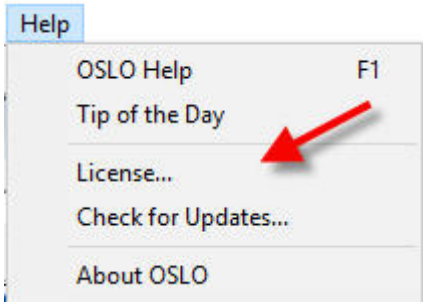
- Help→Check for Updates—Resolve
  - Select this option to troubleshoot a licensing issue

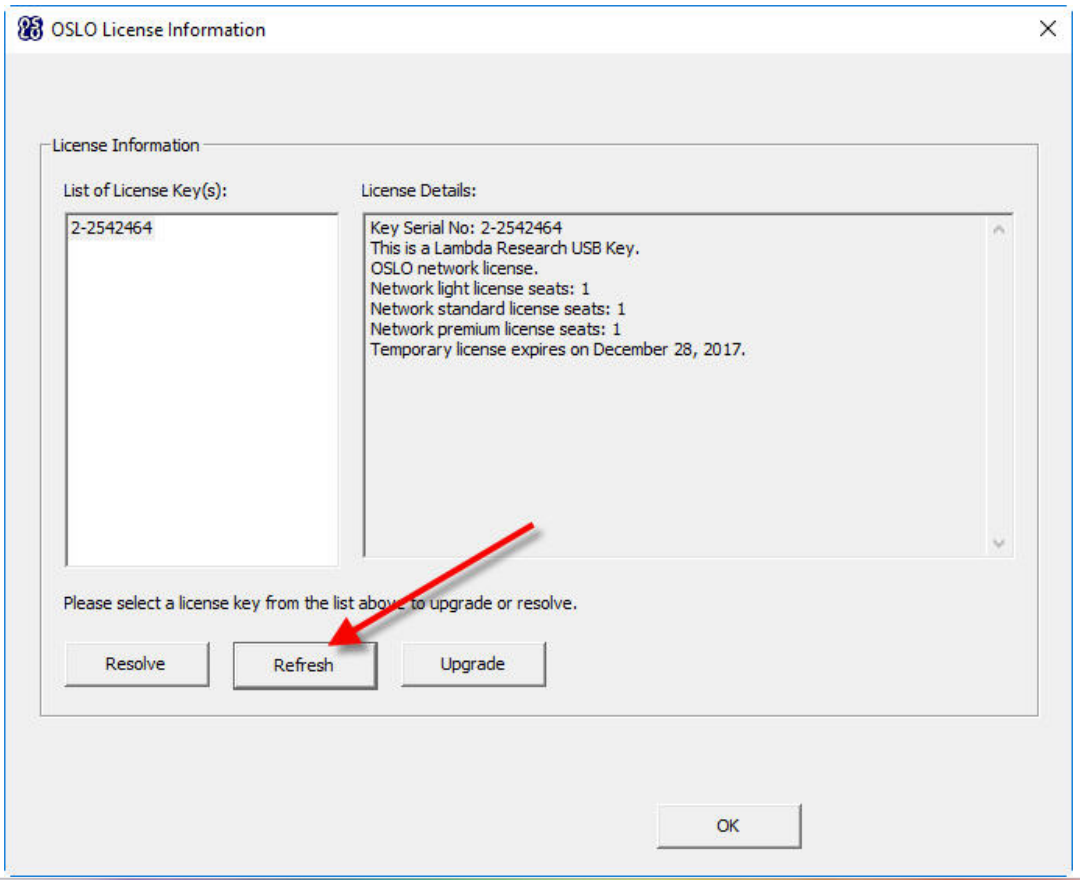




Help Improvements Check for Updates - Refresh

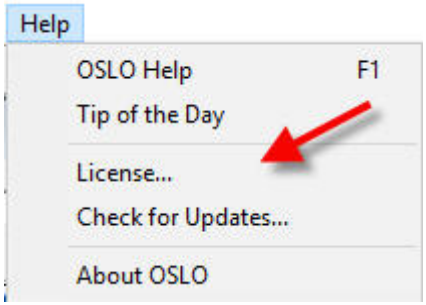
- Help→Check for Updates—Refresh
  - select this option to refresh the license information after connecting/disconnecting USB keys or network connections

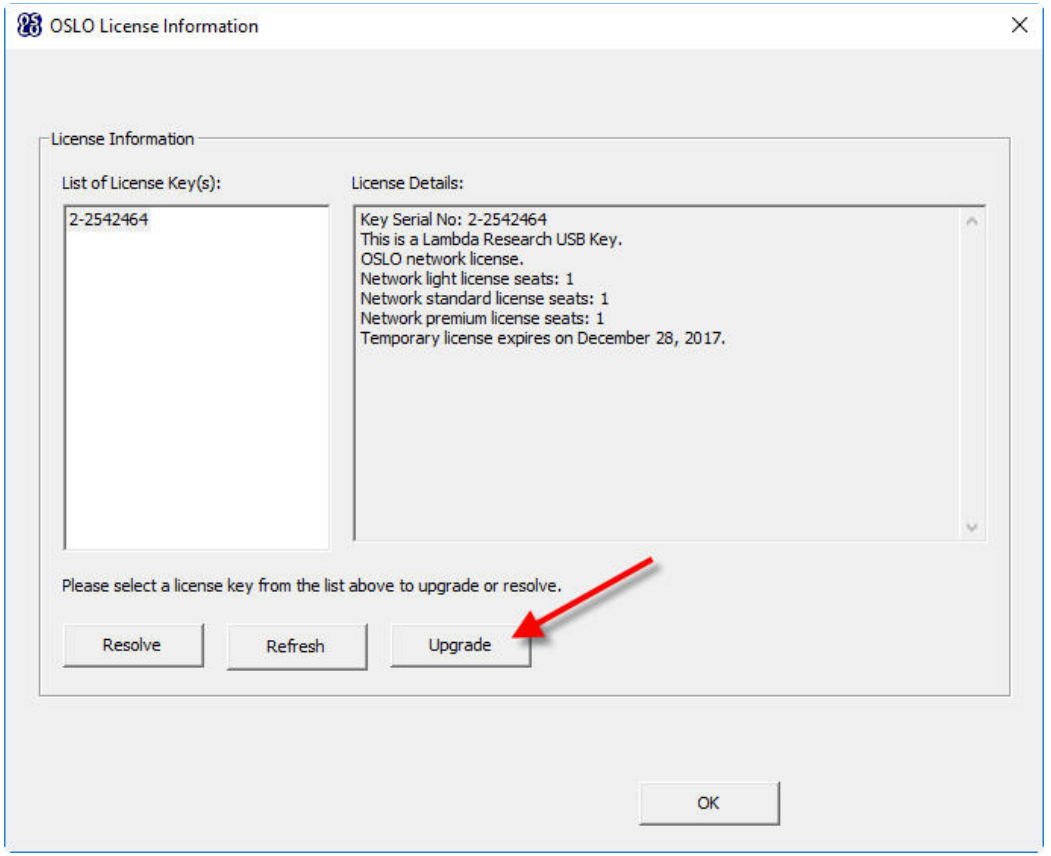




Help Improvements Check for Updates - Upgrade

- Help→Check for Updates—Upgrade
  - select the license in the List of License Key(s), then select this option to open another page of options related to making changes to the existing license



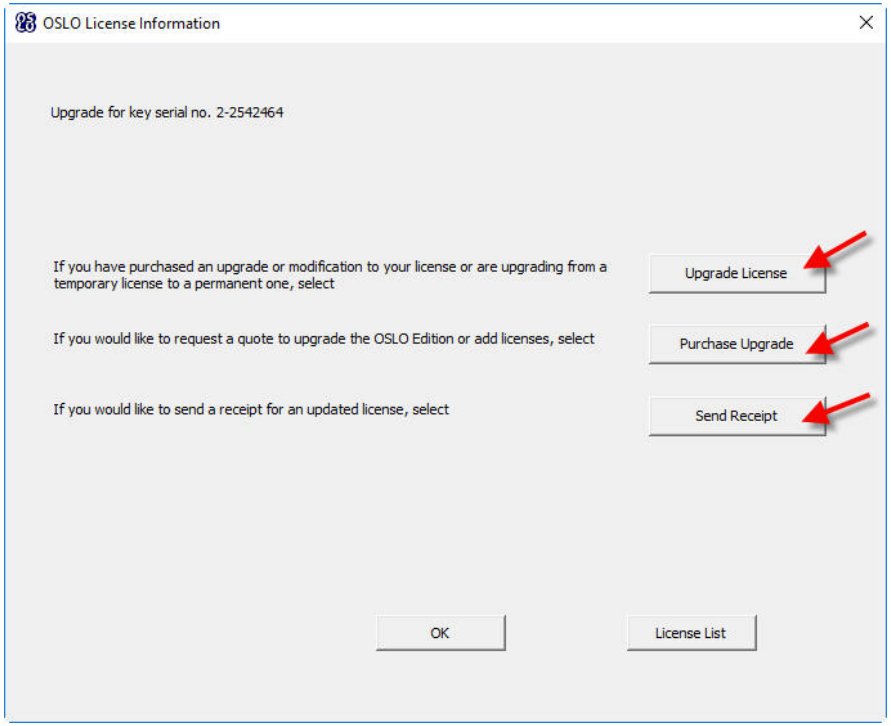


Help Improvements Check for Updates – Upgrade Options

- ***Upgrade License -*** select this option to upgrade the current OSLO license (change the OSLO Edition, add time to a temporary license, etc) – this option sends an e-mail to license@lambdares.com with a context file taken from an existing license

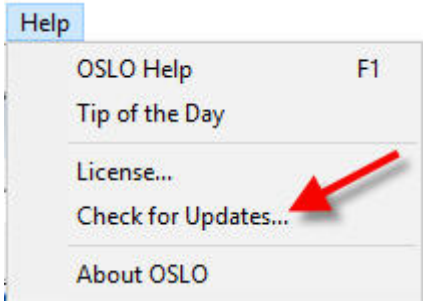
- ***Purchase Upgrade -*** select this option to upgrade the current OSLO license (change the OSLO Edition, add time to a temporary license, etc) – this option sends an e-mail to sales@lambdares.com with a context file taken from an existing license

- ***Send Receipt -*** select this option to send verification that a license update has been activated (most commonly used for a software key exchange) – this option sends an e-mail to license@lambdares.com with a context file taken from an existing license



Help Improvements – Check for Updates

- Help→Check for Updates
  - Checks to see if a new version is available on the website



Updated Glass Catalogs

- Hikari
- Hoya
- Ohara
- Schott
- Schott Radhard

New OSLO Videos on the Lambda Research Website & YouTube

- **OSLO SCP** – Video demonstrating how to create a simple SCP macro to output lens parameters
- **OSLO CCL for Lens Output** - The first of three videos demonstrating how to create a simple CCL macro to output lens parameters
- **OSLO CCL for Lens Output Intermediate** - The second of three videos demonstrating how to create an intermediate CCL macro to output lens parameters
- **OSLO CCL for Lens Output Complex** - The third of three videos demonstrating how to create a complex CCL macro to output lens parameters
- **OSLO CCL Spiral Graphic Example Writing to the Graphics Window** - An example showing how to create a CCL macro writing to the graphics window.
- **OSLO CCL Technical Example to Iterate through Field Points** - A technical example of a CCL macro with the particularly useful technique of sweeping through field points in an analysis

OSLO Examples Pages & Updated Manuals

- OSLO User Guide: - http://www.lambdares.com/images/pdf/oslo-user-guide.pdf
- OSLO Optics Reference - http://www.lambdares.com/images/pdf/oslo-
- OSLO Examples Page - http://www.lambdares.com/oslo/oslo-examples
  - 31 new examples added
- OSLO Installers - http://www.lambdares.com/CustomerSupportCenter/index.php/oslo/early-access
  - OSLO7EA_Premium_Installer.exe
  - OSLO7EA_Standard_Installer.exe
  - OSLO7EA_Light_Installer.exe