

## Introduction to RayViz

A Lambda Research Corporation Webinar

May 17, 2016

# Presenter

- **Presenter**

Dave Jacobsen

Sr. Application Engineer

Lambda Research Corporation

- **Moderator**

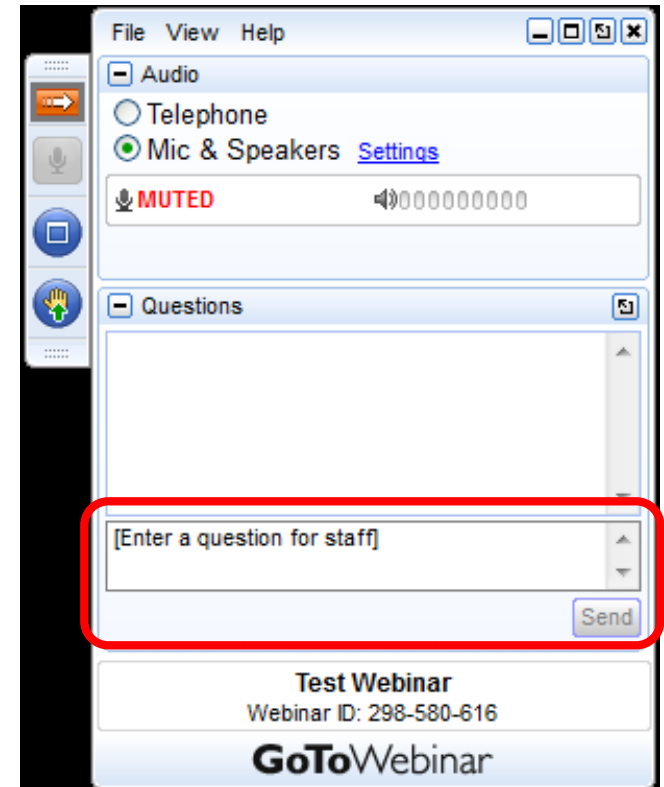
Mike Gauvin

Vice President of Sales and Marketing

Lambda Research Corporation

# Format

- A 25-30 minute presentation followed by a question and answer session
- Please submit your questions anytime using Question box in the GoToWebinar control panel



## Additional Resources

- Past TracePro Webinars

<http://www.lambdares.com/webinars>

- TracePro Tutorial Videos

<http://www.lambdares.com/videos>

- TracePro Tutorials

<http://www.lambdares.com/features/tracepro-tutorials>

- Information on upcoming TracePro Training Classes

<http://www.lambdares.com/training/software-training>

# Upcoming TracePro Training

- **Littleton, MA USA**

- Introduction to TracePro – June 20 – 21, 2016
- Optimization with TracePro – June 22 – 23, 2016
- Stray Light Analysis using TracePro – June 24, 2016

- **KU Leuven – Ghent, Belgium**

- Introduction to TracePro – Sept. 13 -14, 2016
- Optimization with TracePro– Sept. 15-16, 2016

# Latest TracePro Release

## TracePro 7.7.2

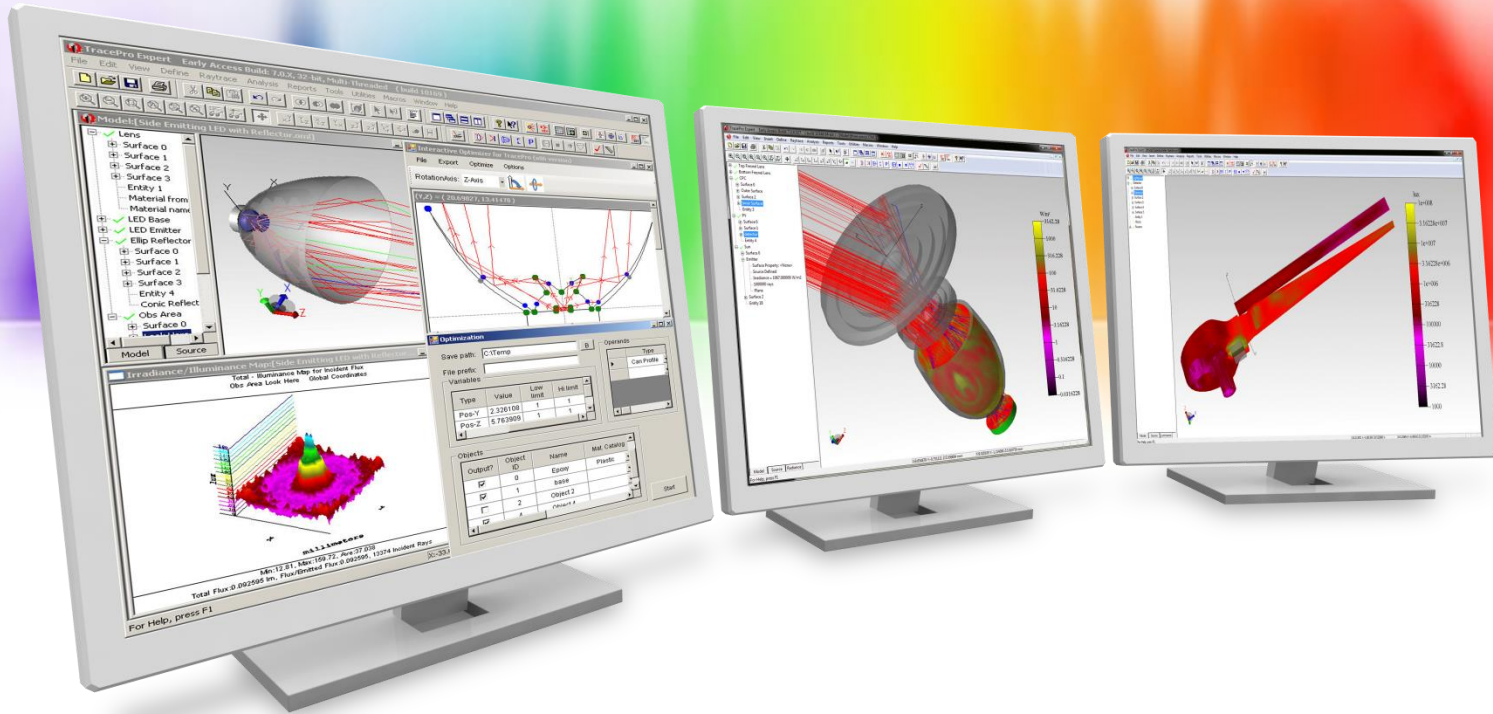
Released April 1, 2016

## TracePro 7.8 EA

Currently available for download

Customers with current maintenance and support agreements can download this new release at:

<http://www.lambdare.com/CustomerSupportCenter/index.php/trace-pro/current-release>



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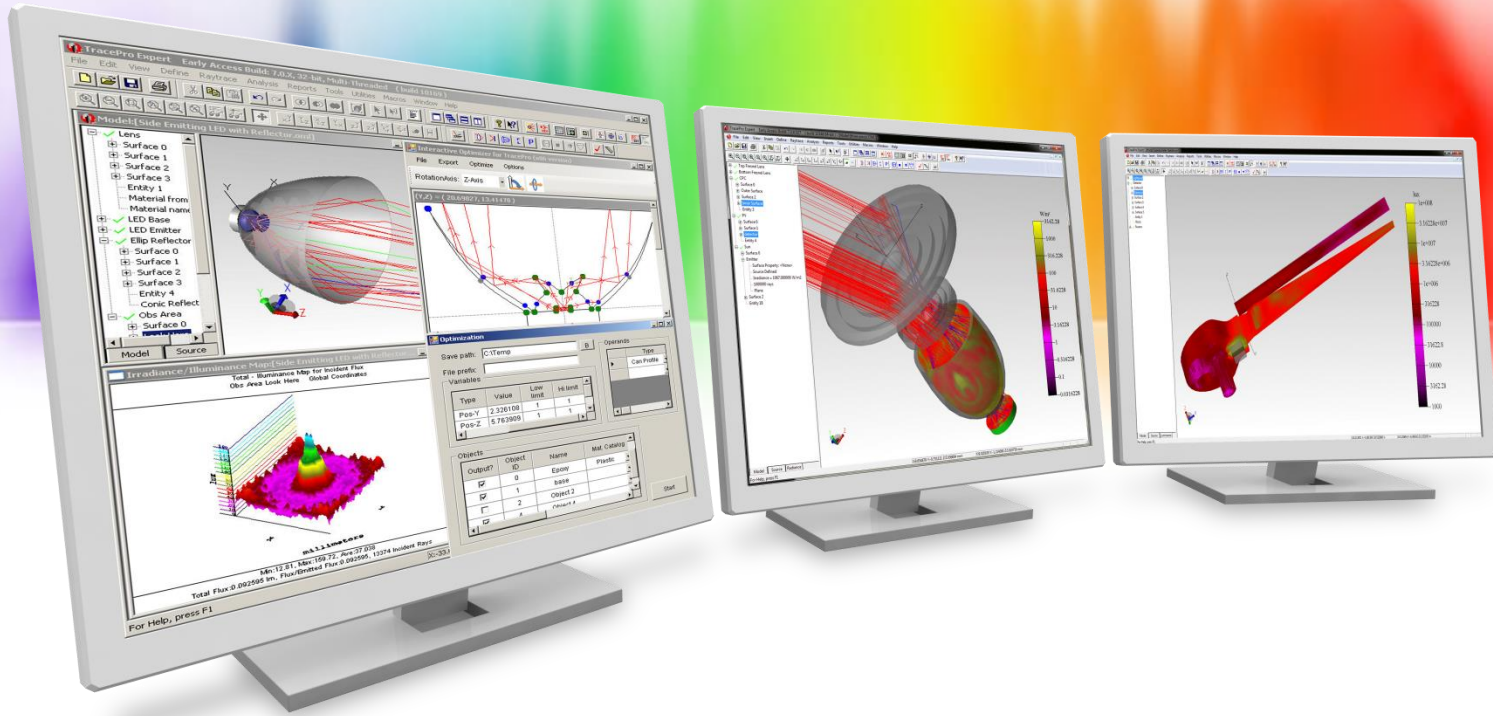
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# Agenda

- Introduction
- RayViz user interface in SolidWorks
- RayViz Live Demo
  - Applying TracePro material and surface properties to the model in SolidWorks
  - Adding a Surface Source property as a light source in the model
  - Running a raytrace in SolidWorks and displaying the rays
  - Adjusting the raytrace settings
  - Exporting a TracePro model from SolidWorks for additional analysis in TracePro
- Questions and Answers



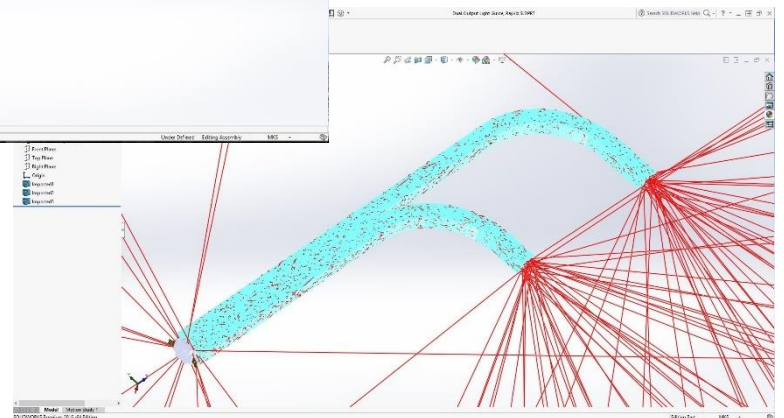
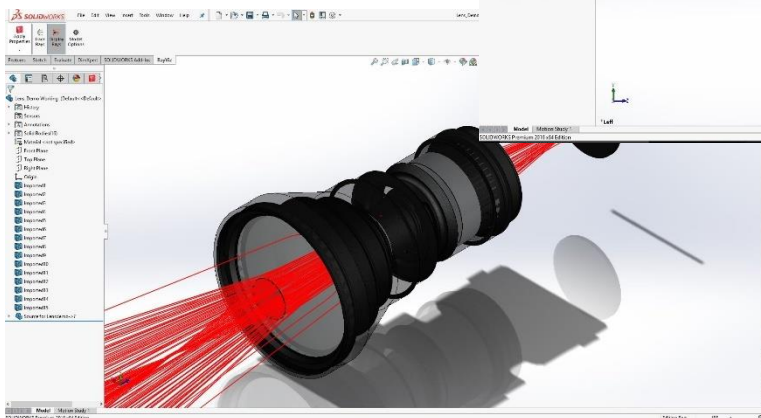
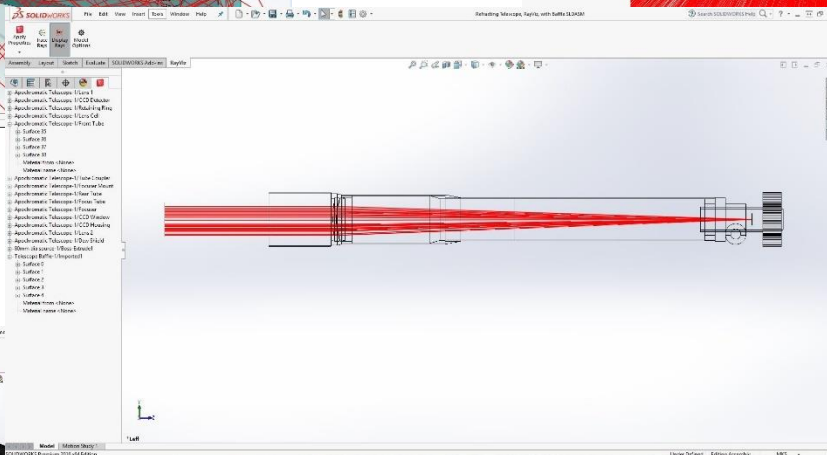
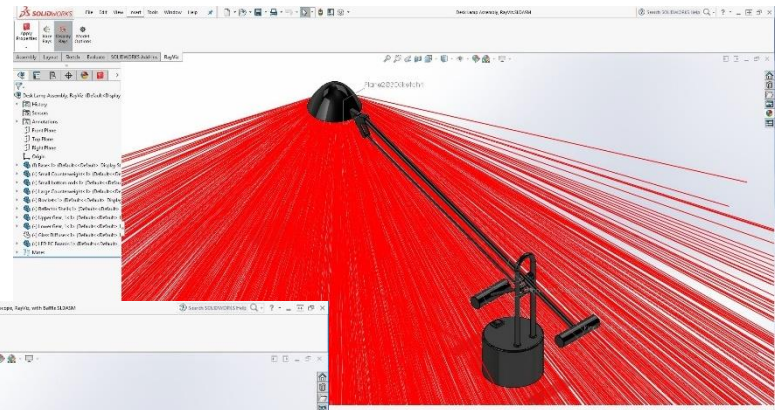
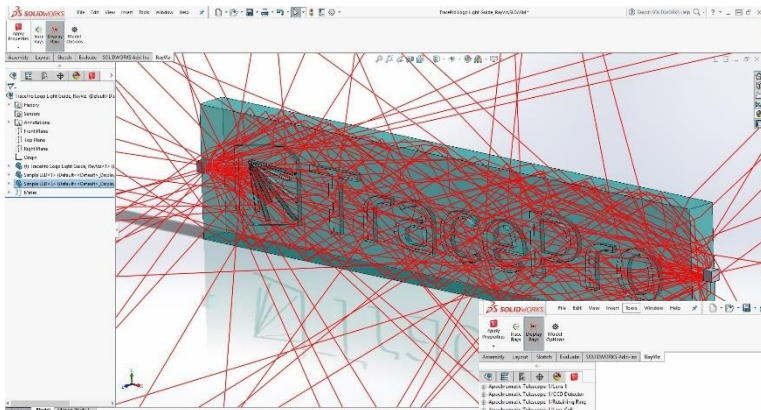


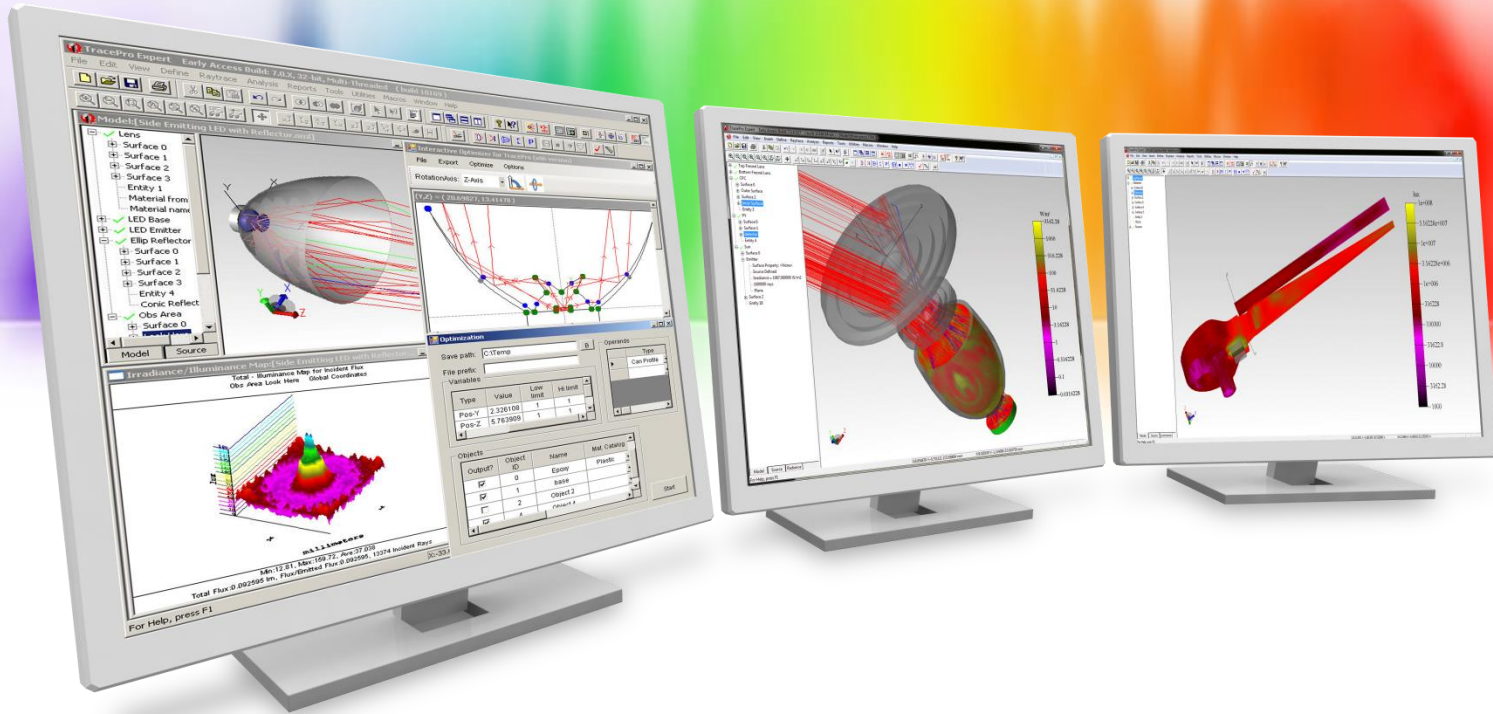
## Introduction

# Introduction

- RayViz is an Add-In for SolidWorks that allows the user to trace rays and visualize them in SolidWorks
- Apply optical properties from the TracePro property database directly in the SolidWorks model
- Run a raytrace in SolidWorks and see the ray paths
- Raytraces with same functionality as TracePro LC
- Scattering and ray splitting is modeled
- Export a TracePro model from SolidWorks for additional analysis in TracePro
- Requires SolidWorks 2011 or newer

# Introduction

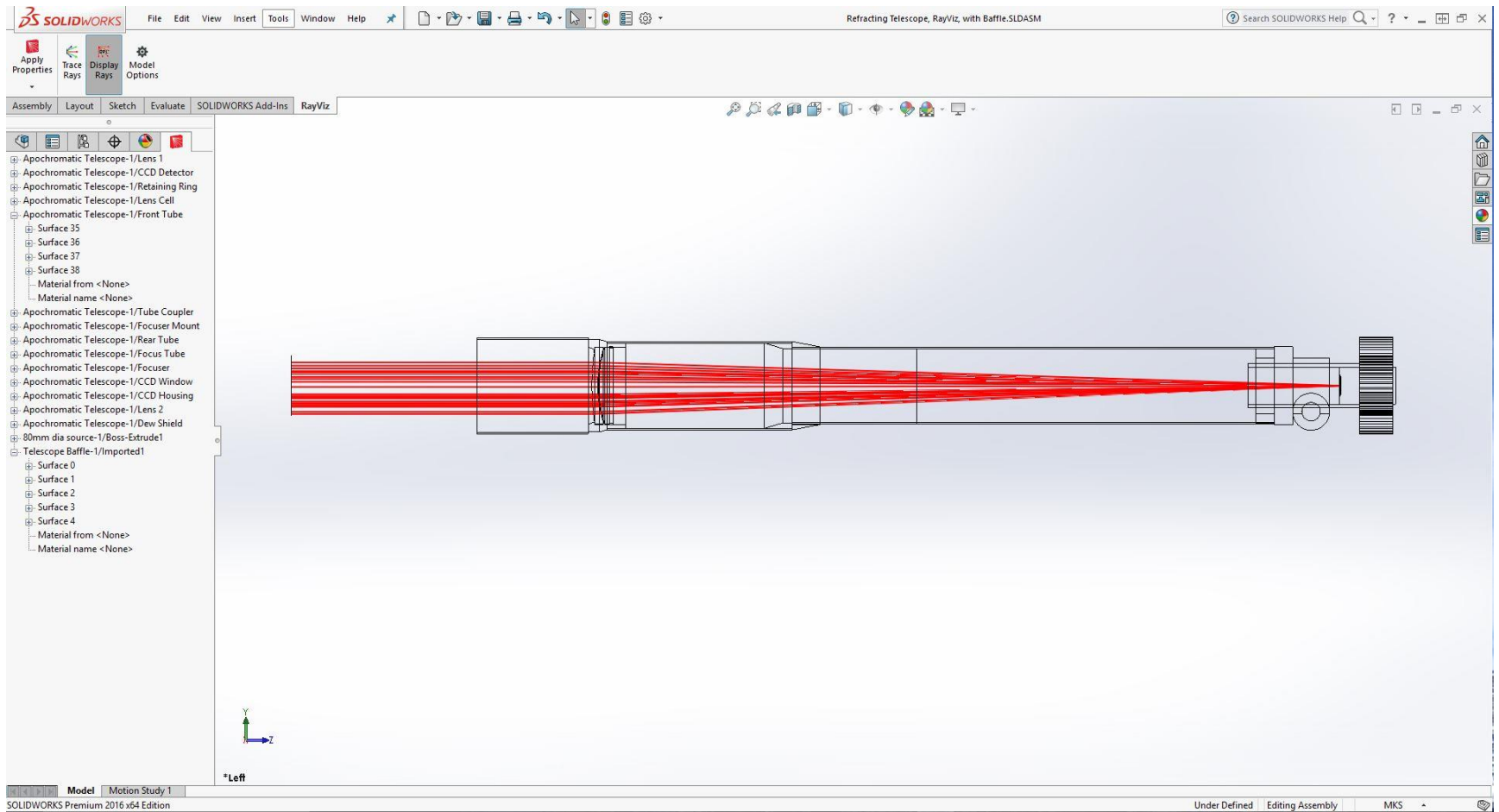




## RayViz Interface

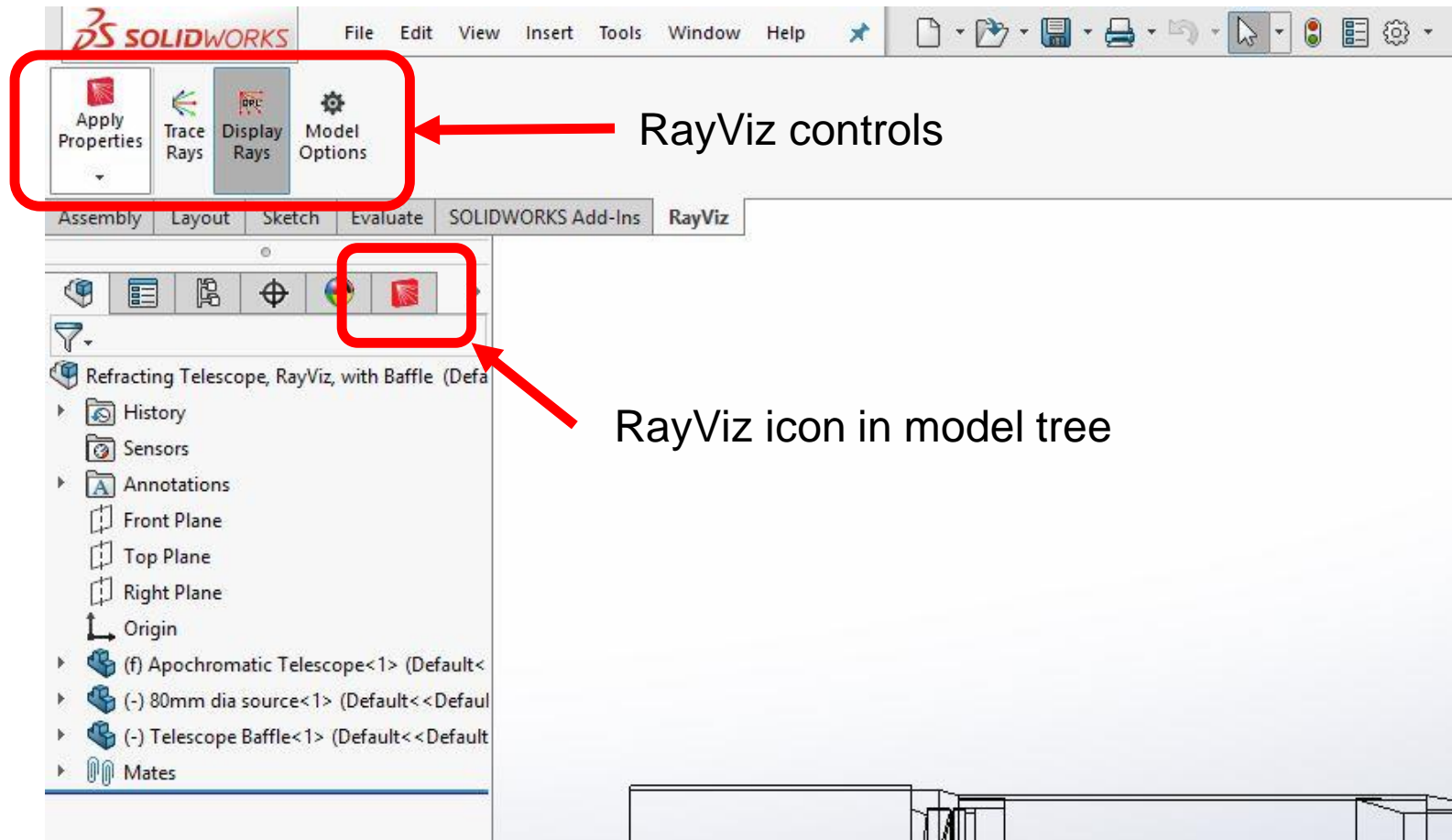
# RayViz Interface

## RayViz interface in SolidWorks



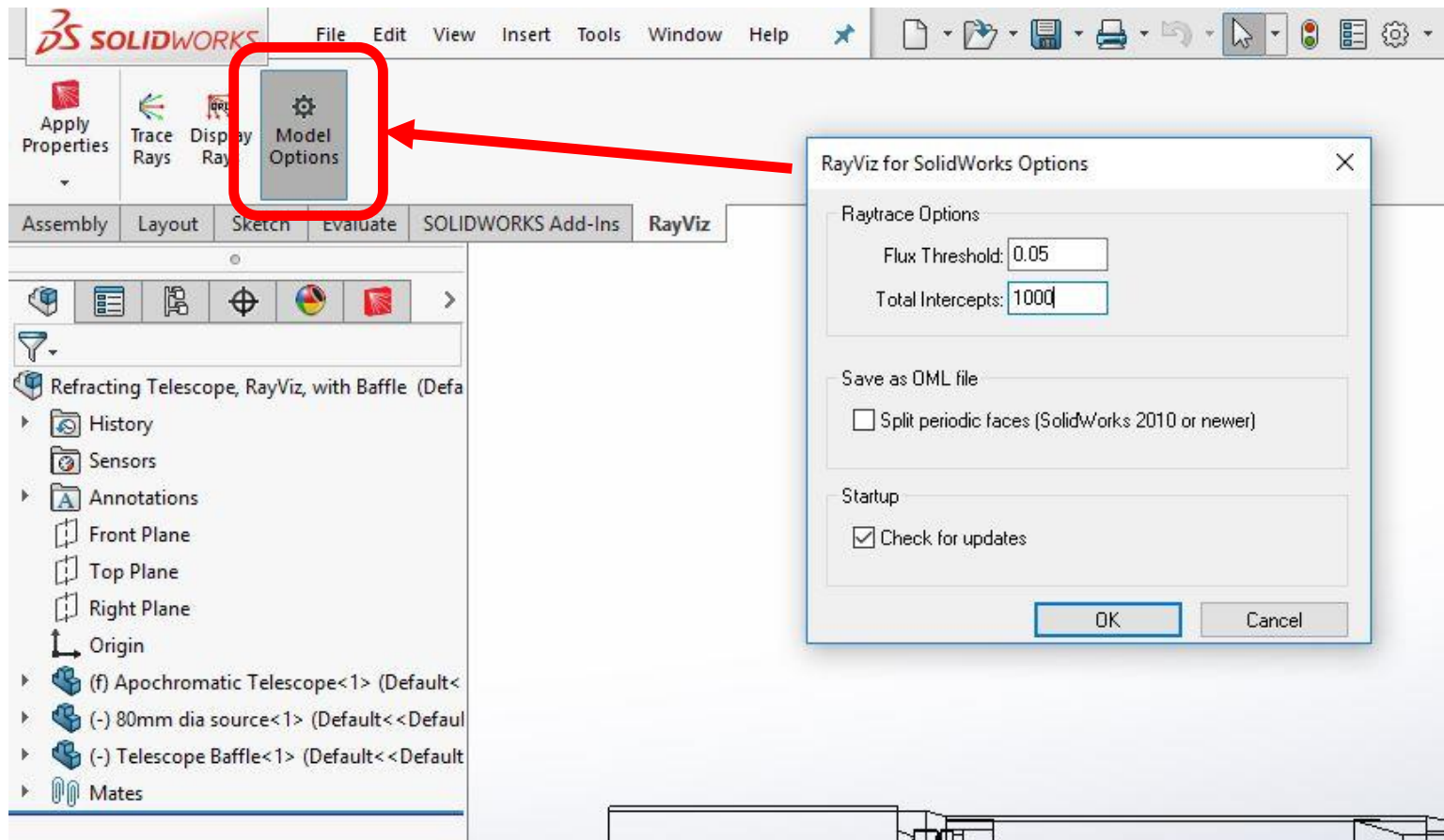
# RayViz Interface

## RayViz interface in SolidWorks



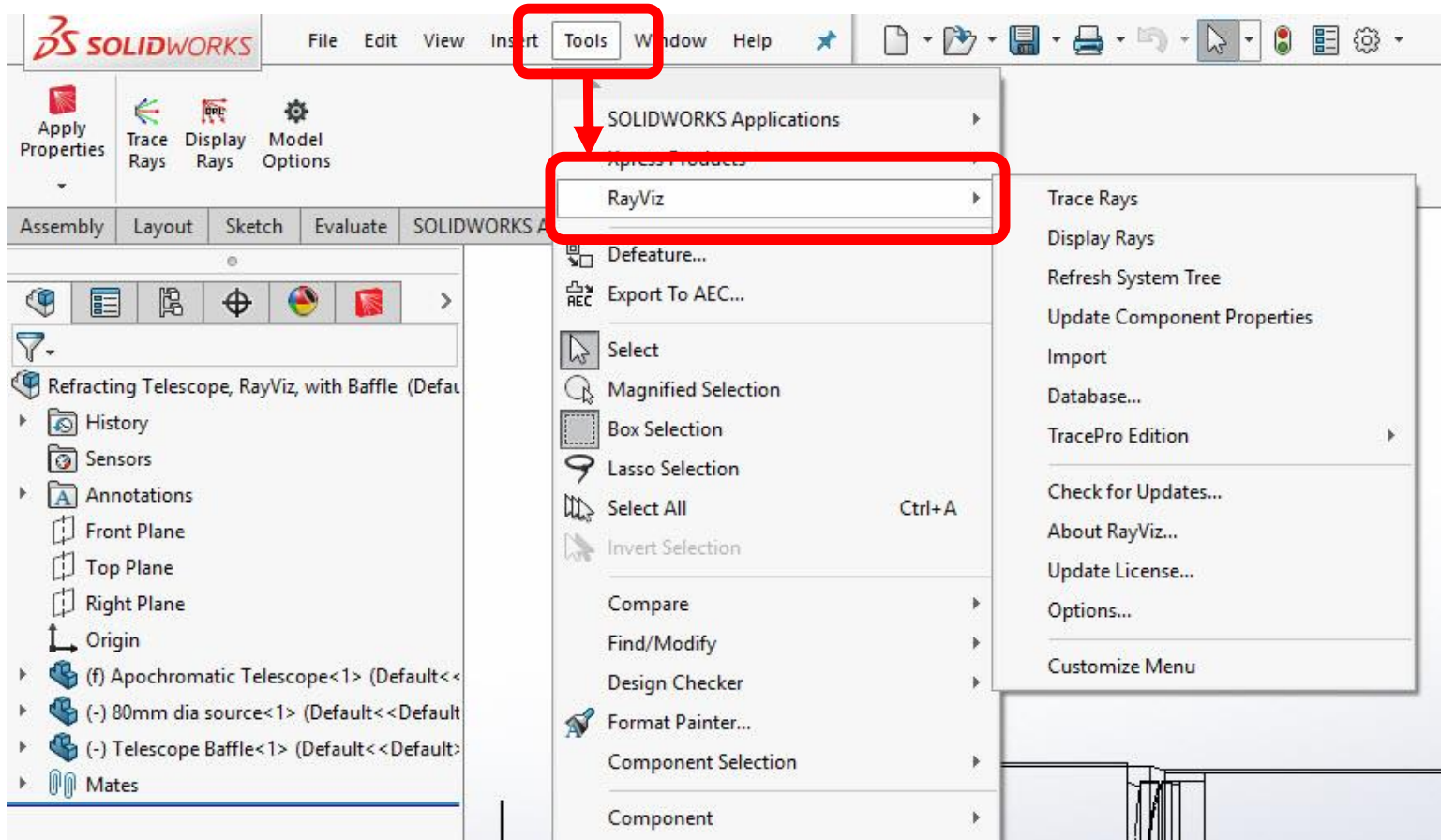
# RayViz Interface

Model Options – Flux Threshold, Total Intercepts, Split Periodic Faces, and Check for updates



# RayViz Interface

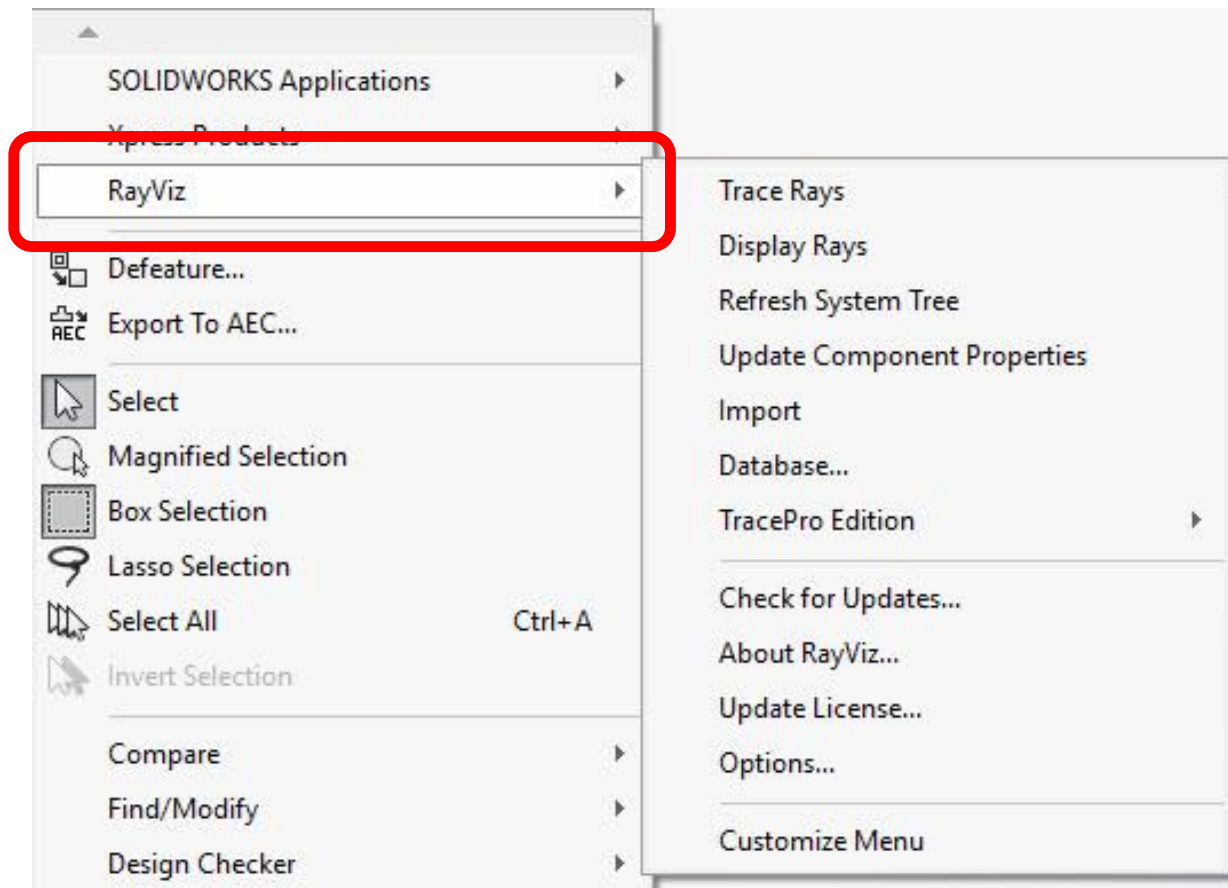
Tools->RayViz menu options





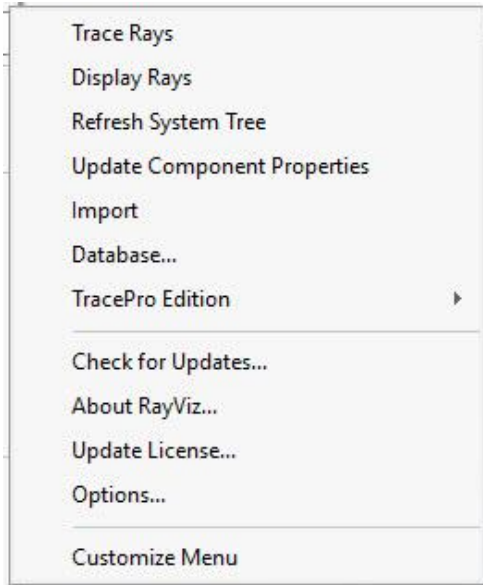
# RayViz Interface

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# RayViz Interface

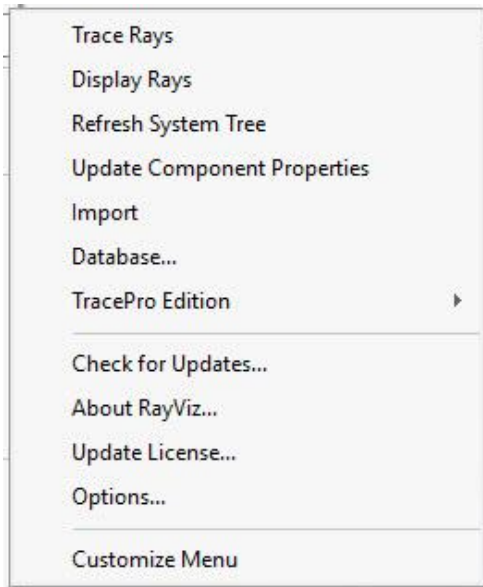
## Tools->RayViz menu options



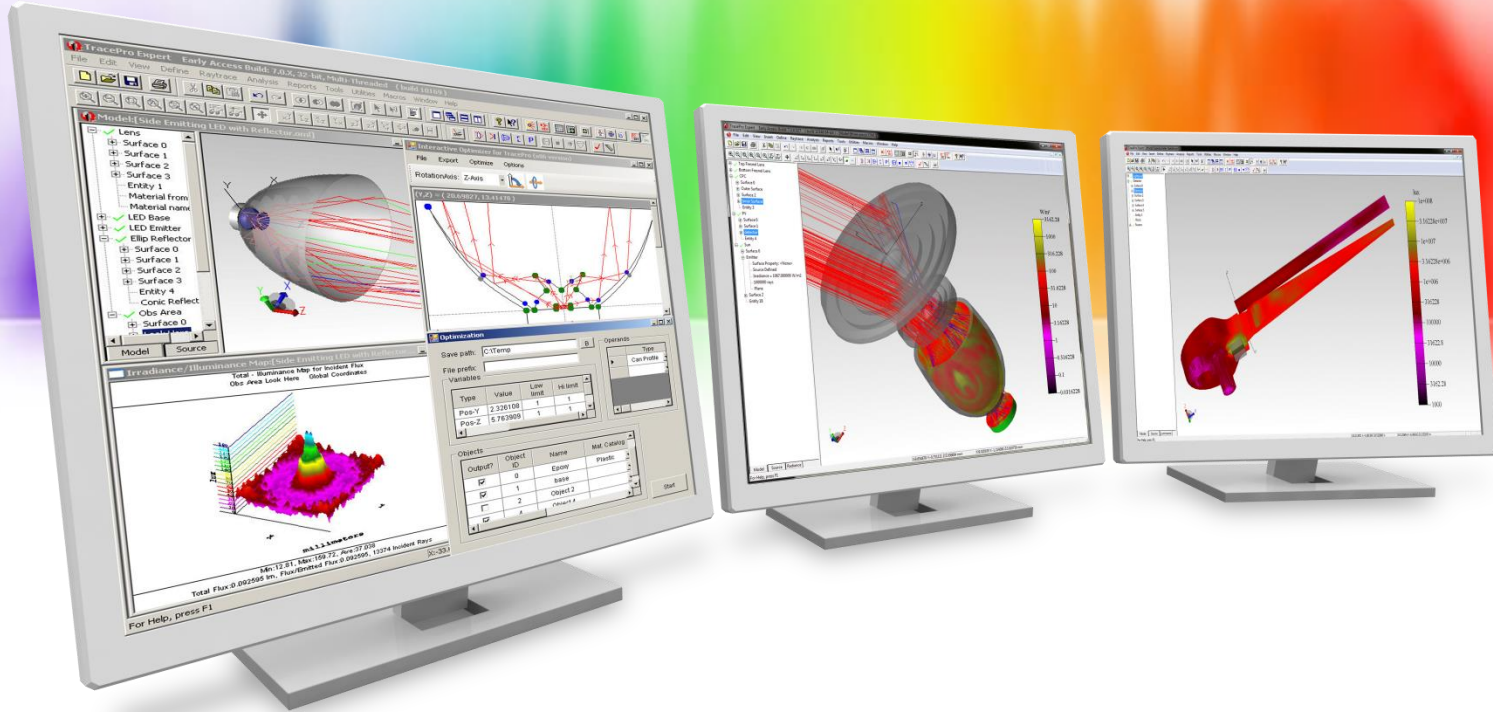
- Trace Rays – Traces rays from sources in SolidWorks model
- Display Rays – toggles ray display in SolidWorks model
- Refresh System Tree – refreshes the system tree
- Update Component Properties – updates components in SolidWorks assembly to use current part properties
- Import – import TracePro properties and add them to the TracePro property database
- Database – shows location of the TracePro property database. Also used to define the path to a different TracePro property database.
- TracePro Edition – sets the edition of TracePro. Controls the properties that can be applied in RayViz.

# RayViz Interface

## Tools->RayViz menu options



- Check for Updates – check for new releases of RayViz
- About RayViz – shows RayViz release and license information
- Update License – used to update the current RayViz license
- Options – sets the Flux Threshold, Total Intercepts, Split Periodic Faces, and Check for updates options
- Customize Menu – controls display of menu items, on or off

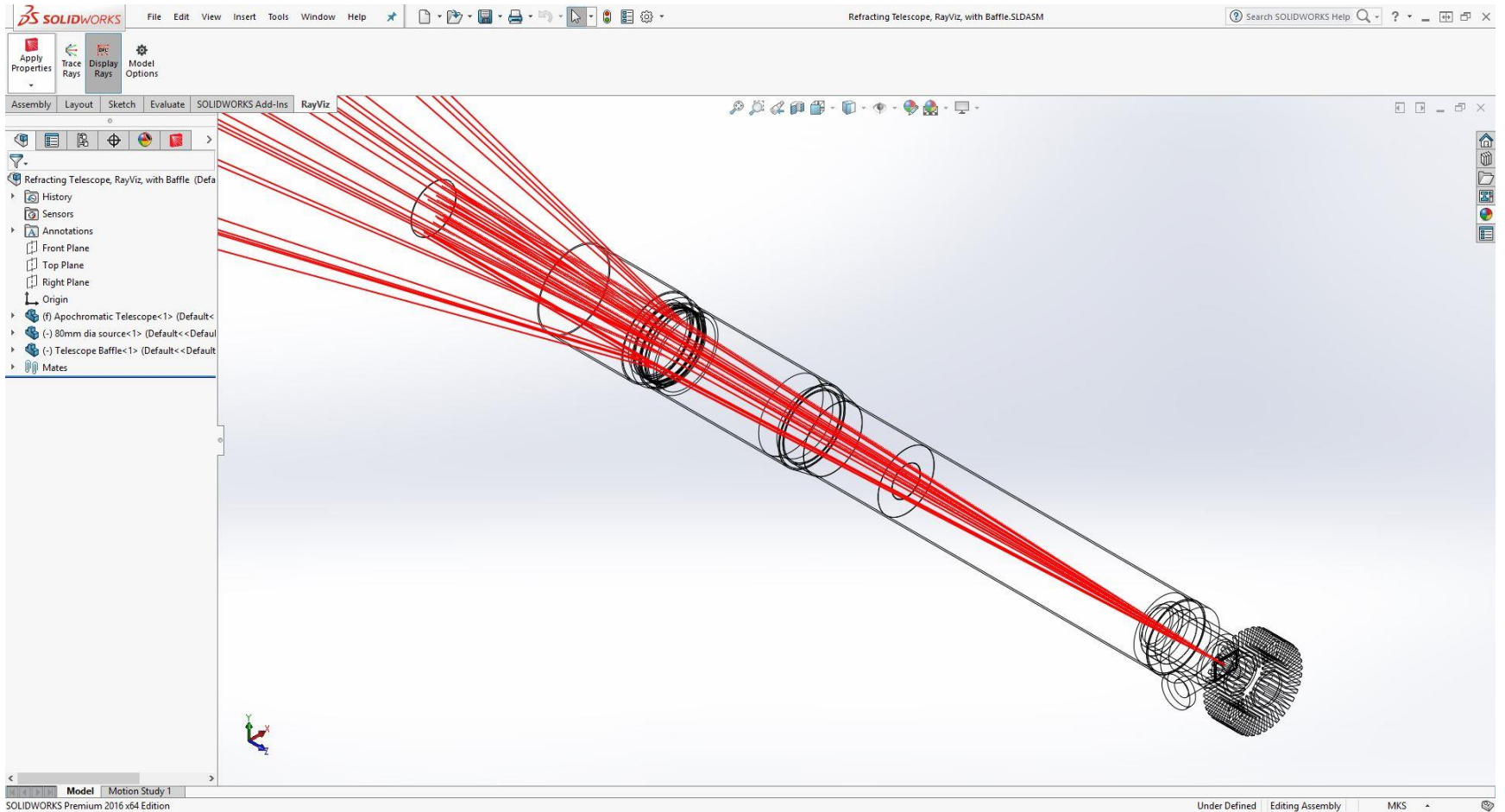


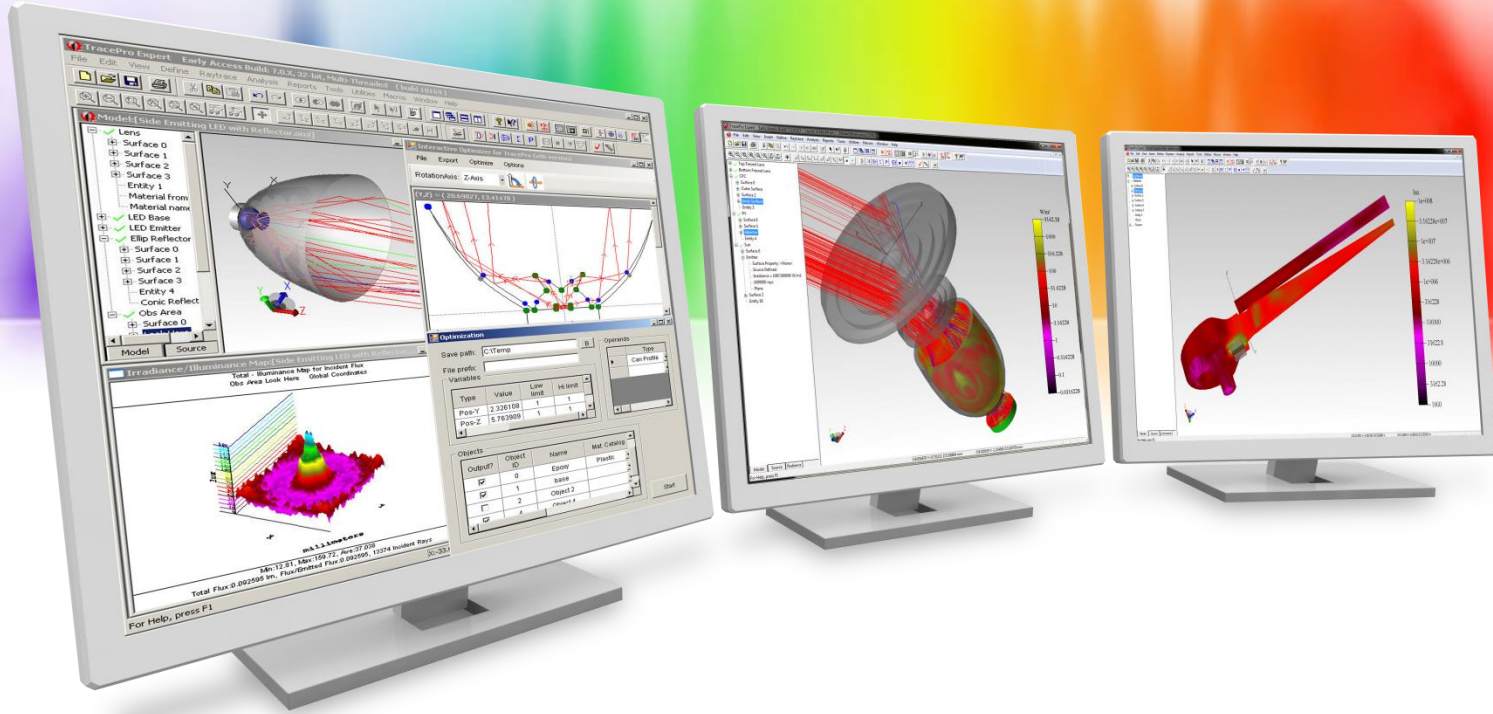
## RayViz Live Demo

# RayViz Live Demo

- Applying TracePro material and surface properties to the model in SolidWorks
- Adding a Surface Source property as a light source in the model
- Running a raytrace in SolidWorks and displaying the rays
- Adjusting the raytrace settings
- Exporting a TracePro model from SolidWorks for additional analysis in TracePro

# RayViz Live Demo



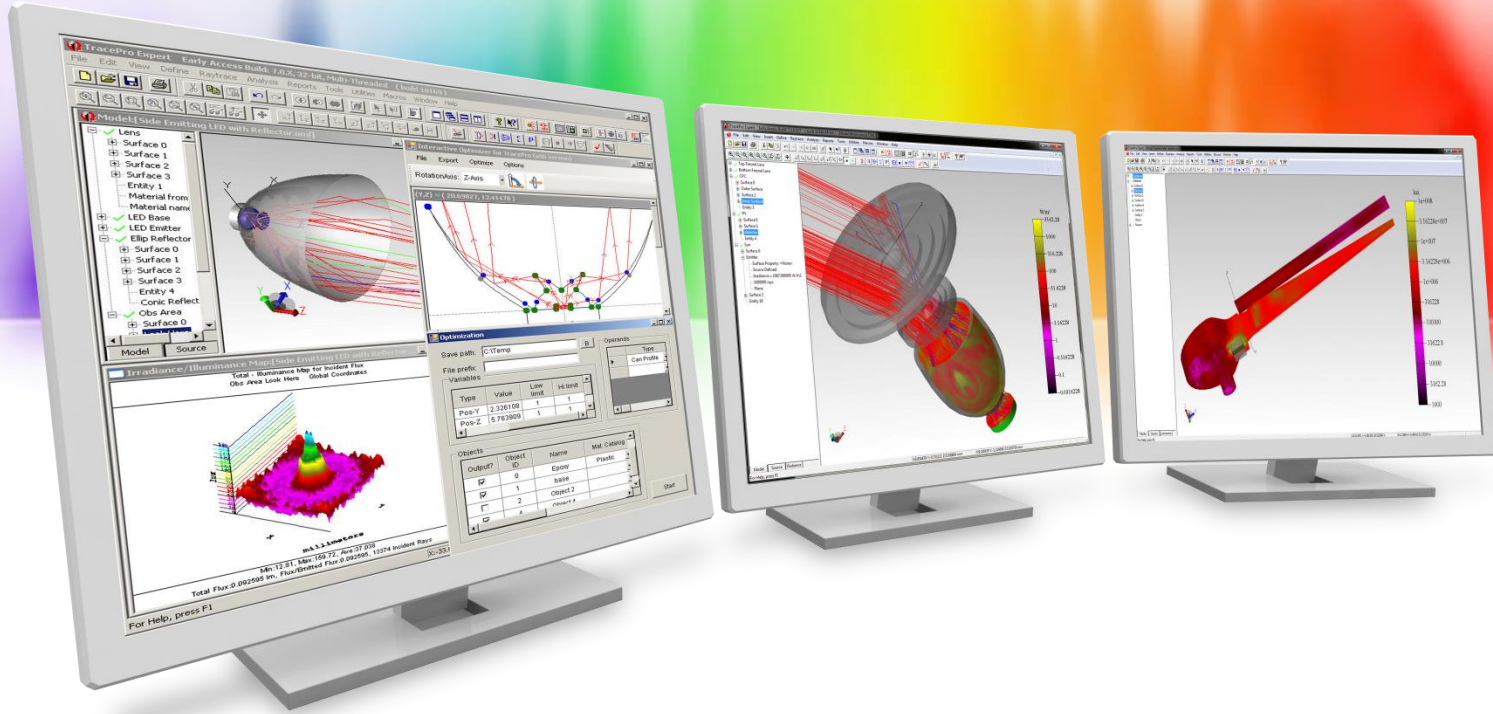


## RayViz Early Access Program

# RayViz Early Access

- RayViz is currently available as an Early Access release
- Interested users can sign up to download RayViz and the RayViz manual here:
  - <http://www.lambdares.com/CustomersupportCenter/index.php/rayviz-for-solidworks/early-access>
- No license code is required at this time
- Each RayViz release will time out 2-weeks after it is released. Users will then be prompted to download the newest release.
- We encourage users to submit comments to us at:
  - [sales@lambdares.com](mailto:sales@lambdares.com)
- The expected release of the official version of RayViz will be in about 6- 8 weeks
- Users interested in purchasing RayViz now can purchase the TracePro Bridge for SolidWorks and they will be updated to RayViz when it is released





## Summary and Questions

# Summary and Questions

RayViz brings TracePro's raytracing and ray visualization to SolidWorks:

- ✓ SolidWorks users can see the rays traced directly in SolidWorks
- ✓ TracePro optical properties can be applied to models in SolidWorks
- ✓ Design process time can be shortened considerably by verifying ray paths in SolidWorks
- ✓ Aperture checking and mechanical interferences with ray paths can be checked directly in SolidWorks
- ✓ TracePro models can be exported from SolidWorks for full analysis in TracePro

For more information or to sign up for our free 30-day trial please visit us at:

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